

**GETTY COPPER CORP.**

**APPENDIX A, Book 2, of:**

**REPORT ON DIAMOND DRILLING  
AT THE GETTY NORTH (KRAIN),  
GETTY SOUTH (TROJAN) AND  
GETTY WEST (TRANSVAAL) AREAS,  
HIGHLAND VALLEY, B. C.  
(JULY 15, 1995 - NOVEMBER 30, 1996)**

**Bruce J. Perry, Ph. D.  
December 24, 1996**

24692  
PART 2 of 3

APPENDIX A

DRILL LOGS &  
ASSAYS

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

24,692

DDH # 96-1		Date	15-Jan		Logged by		V											
Elevation	1751.5 m	Azimuth	040		UTM													
Inclination	-65°	Length	308.4 m		Lat/Long													
ROCK TYPE		FAULT	STRUCTURE		STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
0-7.6	Crowded, grey Bethlehem Porphyry 'D3'		bkn/shatt loc crushed	(cly) (ser)		loc jar	jar, (Mn)	Fe, cly	cly loc alb ser	(cly) (ser)	ep chlr							Few volcanic fragments at top. Strongly weathered to 5.0 m decreasing thereafter. Check for pervasive clay alteration.
7.6-12.2	crowded, grey Bethlehem D3' Porphyry fault zone	8.0-9.0 m and ~ 10 cm at 10.8 m	stng/bkn, loc shatt/crushed loc dis bx	cly in gge, (ser)		loc jar	loc jar (Mn)	Fe, cly	cly loc alb ser	cly in gge (ser)	ep chlr							Check for pervasive clay alteration, suspect argillic altered. Possible fault zone.
12.2-13.7	crowded, grey Bethlehem Porphyry 'D3'		stng/bkn loc shatt	loc cly, (ser)		(loc jar)	(jar) (Mn)	Fe, cly	cly loc alb ser	loc cly (ser)	ep chlr							Melt contact with Guichon at 13.7 m.
13.7-15.3	Guichon wk fault zone	loc 14.0 m	mod/stng loc crushed	loc cly, ser carb		(loc jar)	jar, (Mn)	Fe, cly	cly ser chlr (carb)	loc cly ser carb	chlr						wk/ mod	Strongly weathered overall, locally complete feldspar destruction. Some pink speckling still visible where least altered.
15.3-19.3	Guichon wk fault zone	loc 15.5 m & 17.5 m 16.3-16.8 m	mod/stng loc int/crushed	loc ser, loc chlr, cly in gge carb		loc jar	jar, (Mn) hem	Fe, cly	cly ser chlr loc gge carb (loc alb)	loc ser loc chlr cly in gge carb	chlr			tr NCu			wk/ mod	Fracture intensity and alteration/weathering greatest from 15.3-18.0 m. Becomes quite fresh after 18.0 m. Crowded grey Porphyry dykelet and clay gouge with porphyry clasts at 15.5 m.
19.3-22.7	Guichon/ Hybrid loc mafic rich		wk/mod	(loc cly), ser chlr, carb			jar, loc hem (loc grn Cu-stn ser)	Fe	patchy alb loc ep loc chlr chlr	(loc cly) ser (loc chlr carb)	chlr ep?		(loc chrys)	(loc NCu)			mod/ stng	Several partially assimilated fine grained xenoliths. NCu generally, by not always, associated with mafics. Weak developed alb/ep alteration envelope on fractures. Grey crowded porphyry fragments 22.1 m.
26.1-29.8	Guichon/ Hybrid loc mafic rich		wk/mod loc wk ckle	loc cly?, ser chlr, carb			jar, (Mn) loc hem	Fe	patchy alb loc ep loc chlr	loc cly? ser chlr carb	chlr ep?		(loc NCu)	(loc NCu)			mod	NCu on fractures frequently with bright orange oxide. Several 2-5 mm strongly jarositic veinlets and fracture coatings.
29.8-33.5	Guichon/ Hybrid loc mafic rich		wk/mod loc stng/ckle	loc cly, ser chlr, carb	(carb vnlt & f.f.)		jar	Fe	(loc alb) loc ser	loc cly ser chlr carb	(loc ep) patchy chlr				loc NCu (loc pyr)	mod	Carb veinlets and fracture filling contain jar, (same as above). Porphyry xenoliths (Nicola) alb alteration envelopes. Loc Cu on fracture sets approximately perpendicular to core axis.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	Supergene		primary				
									perv.	fract.		perv	fract	perv				fract
33.5-35.3	Guichon/ Hybrid	some slip	wk/mod loc stng	ser, chlr, (cly) carb	carb vnits and f.f.	-	jar	Fe	loc ser loc alb loc ep	ser chl (cly) carb	(chir?) ep?	-	-	tr NCu	loc NCu	mod	Alb alteration envelopes, carb veinlets and fracture filling contain jar (same as above) Jar fracture filling strong like last box.	
35.3-40.2	Porphyry	loc gge at 39.2 m some slip	mod/stng, shatt & bkn loc ckle bx	ser, cly, carb, chl	(carb f.f.)	-	jar, oxide NCu stn ser	Fe	loc ser	ser cly carb chl	(ep)	-	-	-	(loc NCu)	mod	Jar fracture filling with carb; more NCu; ser alteration envelopes; local stoped mafic rock; Locally pervasive ser alteration in strongly fractured core.	
40.2-41.1	Guichon	-	stng/bkn, loc ckle bx, loc mod	ser, chlr, loc carb (cly)	(carb f.f.)	-	jar, oxide NCu stn ser	Fe	loc ser (loc ep?)	ser chl (cly) loc carb	(ep?)	-	-	tr NCu	(loc NCu)	wk/ mod	Jar fracture fillin with carb. Locally pervasive ser alteration in strongly fractured core.	
41.1-45.0	Guichon	some slip	mod, loc bkn & crushed loc ckle?	ser, chlr, (cly) mod/stng carb	(carb f.f.)	-	jar, NCu oxide stn ser (loc hem stn ser)	Fe	ser	ser chl (cly) mod/ stng carb	(loc ep?)	-	-	-	tr NCu	mod	One thin veinlet of calcite; a sheet of a calcite crystal; some of the fracture fillings are dark green chlorite; local aplite/porphyry dykelet. Jar decreasing (same porphyry as last?)	
45.0-48.7	Guichon (Hybrid?)	some slip	wk/mod, loc shatt/bkn	ser, wk/mod chl, (cly) carb	(carb f.f.) 1 thin qtz vnit?	-	jar (loc hem stn ser)	(Fe)	loc ep loc ser	ser wk/ mod chl (cly) carb	(loc ep)	-	-	tr NCu	(NCu)	wk/ mod	Jar fracture filling with carb. Most of pervasive NCu associated with mafics. Ser alteration in fractured core. Jar decreasing.	
48.7-52.6	Guichon/ Hybrid	some slip	wk/mod, loc shatt/bkn	chl, (cly) wk/mod ser (carb)	(carb f.f.)	loc hem	jar	(Fe)	(loc carb) loc alb loc ser	chl wk/ mod ser (cly) (carb)	(loc ep)	-	-	tr NCu	(NCu)	wk/ mod	One aplite dykelet; jar fracture filling with carb. Small xenoliths; alb and ser alteration envelopes.	
52.6-56.2	Guichon/ Hybrid	-	wk, loc bkn & shatt	chl, wk/mod ser, cly, carb	(carb f.f. & vnits)	loc hem	jar	(Fe)	loc alb loc ser (chl?)	chl wk/ mod ser cly loc ep carb	(loc ep)	-	-	tr/wk NCu	(NCu)	wk/ mod	(Aplite/porphyry dykelets); alb and ser alteration envelopes. Jar, chl, and ep fracture fillings; NCu in mafics and microfractures. Small mafic xenoliths.	
56.2-60.2	Guichon/ Hybrid?	thin, 60.2 m	wk, loc mod and bkn	chl, ser, (cly), loc carb	(carb f.f.) 1-2 cm qtz vnlt	loc hem	jar, loc hem stn ser	(Fe)	loc alb (loc ser)	chl ser loc ep loc carb	loc ep	-	-	tr/wk NCu	(NCu)	mod	Qtz veinlet crosscut by carb fracture filling containing (NCu); pervasive ser in fracture core; most of core moderately magnetic but locally all magnetite now hematite. Jar, chl, ep fracture filling.	
60.2-64.1	Guichon	some slip	wk	chl, ser, (loc cly),	(carb f.f & vnits)	-	(jar), loc hem	(loc Fe)	(loc alb?)	chl ser	-	-	-	-	(loc NCu)	wk/ mod	One veinlet of pyr, pyr fracture filling; jar decreasing; locally well healed hem stained fractures,	



ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
				mod/stng carb	(qtz/carb vnlt)		stn ser		(loc cly)									local chlr/hem/ep fracture filling.
64.1-68.6	Guichon	-	wk	chl, ser, (cly) mod/stng carb	(carb f.f. & vnlt)		loc jar	(loc Fe)	(loc alb)	(loc ser)	(loc ep?)					wk/mod	Two aplite dykelets, weak local alb alteration envelopes. Weak local ser alteration envelopes Jar/chlr/hem fracture filling.	
68.6-69.7	Guichon	-	stng/bkn	chl, ser, (cly) loc carb	(carb f.f.)	(loc hem stn alb)	jar	(Fe)	(loc ser)	(loc alb)	loc ep	loc ep			loc NCu	(loc NCu)	loc mod	Ser alteration associated with fract. Jar/chlr/hem fracture filling.
69.7-72.1	Porphyry crowded qtz feldspar probably fault at 71.4-72.1 m	some slip	mod/bkn, loc crushed/milled	ser, chl, mod/stng carb (cly)	1 carb vnlt	loc hem stn alb	loc hem stn ser jar	(Fe)	loc ser	ser	(ep)			tr NCu	tr NCu	wk	Strong pervasive ser alteration in fault zone--also clay alteration. **Nail test jarosite--no reaction	
72.1-75.6	Guichon/Hybrid?	loc gge	wk/mod, loc shatt	ser, chl, (loc cly), mod/stng carb	carb vnlt & f.f.		loc jar	(Loc Fe)	loc chl	ser				(loc pyr)	loc pyr	mod	Possible local alb pervasive alteration, then over printed by chl alteration. One aplite dykelet. Local hem fracture filling, chl veinlets and fracture filling	
75.6-79.1	Guichon/Hybrid	-	wk/mod loc stng, shatt/bkn	wk/mod ser, chl, (loc cly) carb	carb f.f. & vnlt to 1 cm	loc hem stn alb	loc jar	(loc Fe)	loc alb	wk/mod ser chl (loc cly) carb tr ep				(loc pyr)	(loc cpy)	mod	Local hem stained alb alteration envelopes on carb veinlets and well healed fractures. One cm thick calcite veinlet--veinlet walls are 0.5 cm thick hem. One mafic xenolith	
79.1-82.9	Guichon/Hybrid	some slip	wk, loc mod & shatt	wk/mod ser, chl, (loc cly) carb	carb f.f. & vnlt	(hem stn alb)	jar, loc hem stn ser	(Fe)	(carb) loc alb	wk/mod ser chl (loc cly) carb	(loc ep)			(loc NCu)	(loc pyr)	mod	Local hem fracture filling. Alb alteration envelopes. Chl fracture filling, NCu in mafics.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION				MINERALIZATION			MAG.	FL	REMARKS
			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
									perv.	fract.		perv	fract				
82.9-86.9	Guichon/ Hybrid fault zone 84.5-96.2 m	local	wk to 84.5 m dis bx, crush and milled	ser, chlr, loc carb, loc cly	carb f.f. & vnits & frags	(loc hem stn alb)	jar	Fe	loc chlr ser loc ser	ser chl loc	-	-	(loc chrys) loc ten	-	(loc pyr)	(loc)	**Nail test in tenorite?---positive reaction. Possible large fault zone circulate meteoric water? (to explain tenorite, chrysocolla pervasive ser where disseminated bx, crush and milled.
86.9-90.3	Guichon/ Hybrid fault zone	slip surfaces & gge	bkn, crush & milled, loc mod	ser, cly, chl carb	1 crushed 2 cm qtz/ carb vnlt	-	jar (loc NCu oxide)	Fe	wk/ stng ser	ser cly chl carb	-	-	-	(NCu)	(NCu)	wk	NCu reappears, largest visible amount to depth. Qtz carb veinlet contains NCu in microfractures. Weak pervasive ser alteration in more competent pieces, ser alteration where crushed.
90.3-93.0	Guichon/ Hybrid? fault zone	gge & slip surfaces	crush & milled loc stng	ser, cly, (chl (carb)	??	-	(NCu oxide) loc jar	Fe	ser cly	ser cly (chl (carb)	?	-	(chrys)	(NCu)	(NCu)	loc wk	Totally milled rock!!
93.0-96.6	Guichon/ Hybrid	loc gge & slip surface	dis & ckle bx loc crush & bkn, loc mod	ser, cly (carb) (chl)	(carb vnits & f.f.)	-	Mn & ten jar	Fe	ser (loc ser) (loc alb) chl	ser cly (carb) (chl)	(loc ep)	-	ten	-	-	wk	One alb alteration envelope. Local strong amounts of rusty pervasive hem.
96.6-100.6	Guichon/ Hybrid?	some slip	mod, loc wk loc shatt/bkn	ser, chl, (cly) carb, (cly)	tr carb f.f.	(loc hem)	jar, (loc Mn) loc Cu oxide	Fe	loc ser loc chl loc carb	ser chl carb	(patchy ep)	-	(ten?)	loc NCu	(loc pyr)	tr	Hem fracture filling. At top of box have 2 m interval of pervasive ser and chl alteration surrounded by ser and chl lateration. Local pyr in local microfractures.
100.6-104.5	Guichon/ Hybrid?	loc gge	wk/mod, loc shatt/bkn	ser, chl, (cly) loc carb	(carb f.f. and vnits)	(loc hem)	(Mn) jar	Fe	loc alb loc ser (loc carb)	ser chl (cly) loc carb	(loc ep)	-	(chrys) (ten?)	-	-	wk	Gouge at bottom of box is white--little clay Two aplite dykelets; alb and ser alteration envelopes. Local jar/hem healed fracts; no sulphides or NCu seen.
104.5-108.0	Guichon/ Hybrid	some slip	mod/stng loc shatt/bkn	mod/stng ser, chl, loc carb, (cly)	(carb f.f. and vnits)	-	loc Cu oxide, loc Mn loc jar	(Fe)	loc ep (loc carb) loc alb loc ser (chl)	mod/ stng chl loc carb (cly)	(loc ep?)	-	-	loc pyr loc tr cpy	pyr loc tr cpy	wk/ mod	Hydrothermal ep markedly increases at 106.5 m Jar decreasing, one aplite dykelet; increase in Cu oxide on fracts, ser and alb alteration envelopes.
108.0-111.6	Guichon/ Hybrid? wk fault	loc gge at 109.8 m	mod/stng, loc shatt/bkn	ser, loc chl carb, (cly)	(carb f.f.)	loc hem stn chl	(loc hem stn ser) loc jar	(Fe)	(ser) loc ser (chl) loc chl loc cly loc ep	ser loc chl carb (cly) (loc ep)	-	-	(loc pyr)	loc pyr tr cpy	wk	Chl healed fractures; interval of pervasive ser and chl lateration surrounded by chl and ser alteration. Local clay alteration in gouge/fault zone; pervasive hydrothermal ep decreasing, jar decreasing.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG. FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	Supergene		primary			
									perv.	fract.		perv	fract	perv			fract
111.6-115.5	Guichon	some slip	wk/mod, loc shatt, cong fract set at 45 & 25°	mod/stng ser chl, (loc cly) carb	(carb f.f. & vnlt)	(loc hem stn alb)	loc jar loc Cu oxide, loc hem stn chl & ser loc Mn	(Fe)	(carb) loc alb (patchy ser) (loc chl)	mod/ stng ser chl (loc cly) carb	(loc ep)	-	-	(loc NCu) (loc pyr)	(loc NCu) loc pyr	wk	Alb and ser alteration envelopes. One 0.5 cm aplite dykelet. Several carb/hem/jar healed fractures with chl alteration envelopes. Chl healed fractures.
115.5-119.4	Guichon	some slip	wk, loc stng and shatt	ser, chl, wk/mod carb loc cly	(carb f.f. and vnlt)	(loc hem stn ser)	(loc hem stn ser) loc jar	(Fe)	(loc carb) loc alb loc ser loc ep	ser chl wk/ mod carb loc cly loc ep	-	-	(loc NCu) tr pyr	(loc pyr) loc tr NCu	wk	Three aplite dykelets; jar decreasing; alb alteration envelopes and patches; ser alteration envelopes and in highly fractured core. Chl healed fractures	
119.4-123.3	Guichon	-	wk, loc mod & shatt	ser, chl, loc cly, (carb)	(carb f.f.)	-	(loc jar)	(Fe)	(loc carb) (loc ep) loc alb loc ser	ser chl loc cly (carb)	-	-	(pyr) tr loc NCu	(loc NCu) (loc pyr)	wk	Jar decreasing, alb alteration envelopes and in patches. Ser alteration envelopes; chl, chl/jar healed fractures.	
123.3-127.7	Guichon wk fault at 125.6 m	loc gge	wk, loc bkn	loc cly, ser wk/mod chl (carb)	(carb f.f. and vnlt)	(loc hem stn ser)	(loc hem stn ser)	(Fe?)	(carb) loc ser loc chl loc ep loc sil	loc cly ser wk/ mod chl (carb)	-	-	(pyr)	loc pyr	wk	Jar just about gone. Two aplite dykelets, one of which has fractures filled with qtz which have been fractured again and filled with carb and pyr. Nearby Guichon looks silicified. Interval of pervasive ser and chl alteration surrounded by chl and ser alteration. Hem/jar/chl healed fracts.	
127.7-130.8	Porphyry	-	stng/shatt loc bkn	sil, (ser) (cly)	carb f.f.	(loc hem stn alb)	(loc hem stn ser) jar	Fe?	sil alb patchy chl	sil (ser) (cly)	-	-	pyr	pyr	-	High amount of healed fractures. Rock strongly bleached, mafics are completely gone. Alteration envelopes strongly silicified, possibly rock strongly albitized, then silicified along the fractures and silica flooded; pervasive pyr fine grained.	
130.8-134.2	Guichon	-	wk/mod loc shatt/bkn	ser, chl (loc cly) carb (sil)	(qtz vnlt to 1 cm) (carb f.f.)	-	(loc hem stn chl)	-	alb, ep patchy sil chl loc chl	ser chl (loc cly) carb (loc ep) (sil)	-?	-	tr/wk pyr	pyr	wk/ mod	Jar has disappeared! Two aplite dykelets; several pervasive chl patches with pervasive ep Chl ± pyr healed fracts.	
134.2-137.9	Guichon	loc	wk, loc shatt	ser, chl, carb	(carb f.f. and vnlt) 1.5 cm qtz vnt	(loc hem stn alb)	-	-	(carb) (chl) loc chl loc alb (sil?)	(loc ep) ser chl carb	-?	-	tr/wk pyr	pyr loc cpy	-	Local secondary biotite(?). Alb alteration enve- lopes and patches. Qtz veinlet irreg with chl and ep selvages (better word?). Interval of ser and chl alteration. Chl healed fracts; a few of the carb ± pyr ± cpy veinlets have chl and ep alteration envelopes.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
								perv.	fract.		perv	fract	perv	fract				
137.9-141.8	Guichon possibly Porphyry 138.5-138.7 m wk fault 137.9-138.5 m	loc	wk, loc shatt loc dis bx	ser, carb, chlr (cly?)	carb vnlt & f.f.)	-	-	-	chl loc chl wk/ mod carb loc ep	ser carb chl (cly?)	-	-	-	tr/wk pyr loc cpy	pyr	tr	Strongly altered or just sections of strongly albitic and silicic Guichon. Secondary biotite. Carb/chlr/pyr fracture filling and veinlets; rock possibly alb alteration then chlr altered, fractured and sil alteration envelopes. Mag where there is secondary biotite, therefore magnetite associated? Note from Verne: Pervasive chlr probably warrants locally intense.	
141.8-145.4	Guichon fault 144.1-145.4 m	through fault zone	mod, loc shatt loc dis bx	chl (ser), (loc cly) carb	(carb f.f. and vnlt)	-	-	-	chl carb ser	chl (ser) (loc cly) carb	-	-	-	pyr pyr (cpy)	-	-	Local secondary biotite. Stronger pervasive carb associated with mor intense pervasive chl. Ser (bleached) alteration envelopes; lot of gouge dark green/black (chlorite+ crushed sulphides)	
145.4-149.1	Guichon	loc	mod/stng loc shatt/bkn loc dis bx	chl, ser, carb (loc cly)	(carb f.f. and vnlt)	-	-	-	chl carb ser	chl ser (loc cly) carb	-	-	-	pyr pyr (cpy)	tr	-	Ser (bleached) alteration envelopes; (cpy) in calcite veins and alteration envelopes. Ser in dis bx/crushed core.	
149.1-152.8	Guichon	loc (150.7 m)	wk/mod, loc shatt/bkn	ser, chl, carb (cly)	(carb f.f. and vnlt)	(hem stn alb)	(loc jar)	-	wk/ mod carb chl (ser)	ser chl carb (cly)	-	-	-	(pyr) (pyr)	wk	-	Hem stained alb alteration envelopes. Pervasive chl decreases to chl. Loc secondary biotite. Alteration decreasing	
152.8-156.1	Guichon	loc (154.9 m)	mod/stng loc shatt/bkn	ser, chl, mod/stng carb (cly)	(carb f.f. and vnlt) (qtz vnlt to 1 cm)	(loc hem stn alb)	-	-	chl wk/ mod carb loc ep	ser chl mod/ stng carb (cly) loc ep	-	-	-	tr/wk pyr (pyr) (loc cpy)	tr/wk	-	Alteration decreasing. (Hem) stained alb alteration envelopes. Ep in pervasive chl. One "veinlet" of ep with chl alteration envelope Pervasive cpy increasing.	
156.1-160.0	Guichon	-	wk/mod, loc shatt/bkn	ser, wk/mod chl, mod/ stng carb	(carb f.f. and vnlt)	(loc hem stn alb)	(loc jar)	-	chl (carb) (ser)	ser wk/ mod chl mod/ stng carb	-	-	-	(loc cpy) tr pyr	(pyr) (cpy)	wk	-	Alteration decreasing. Hem stained alb alteration envelopes. Cpy increasing, loc secondary biotite. Chl healed fractures.
160.0-163.5	Guichon fault zone 161.0-162.2 m	loc	wk/mod loc shatt/bkn loc dis bx	ser, chl, carb (cly)	(carb f.f. and vnlt)	(loc hem stn chl)	-	-	carb chl ser loc alb (loc cly?)	ser chl carb cly	-	-	-	(cpy) tr pyr (pyr)	(cpy) (pyr)	loc wk	-	Hem stain-chl alteration envelopes. Alteration increasing. Local pervasive chl. Possible alb alteration overprinted by ser and chl; Local pervasive clay?--beige reaction rims on chloritized feldspars. Cpy increasing, pervasive cpy fine grained cpy concentrated along chl/chl + carb healed fractures and veinlets. Local weak secondary biotite.

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION		MINERALIZATION				MAG.	FL	REMARKS		
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene					primary	
									perv.	fract.		perv	fract				perv	fract
163.5-166.9	Guichon	loc	mod/stng/shatt	chl, mod/stng	(carb f.f.	loc hem	-	-	chl	chl	-	-	(cpy)	(cpy)	tr	Local pervasive chl and local ser alteration in highly fractured/crushed core. Increase in pervasive hem stained chl; pervasive cpy concentrated in mafics chl/chl and carb healed fracts.		
-----	Fault zone		and bkn	ser, (cly),	and vnlt)	stn chl			carb	mod/			tr pyr	(pyr)				
163.5-162.2 m				mod/stng carb	one-1 cm qtz vnlt				ser	stng								
-----									loc alb	ser								
-----										(cly)								
-----										mod/								
-----										stng								
-----										carb								
166.9-170.3	Guichon	-	stng/shatt	(chl), wk/mod	(carb f.f.	(loc hem	(loc hem	-	tr carb	(chl)	-	-	(pyr)	(loc	loc	Alteration decreasing. Local pervasive ser. One small faded xenolith; not as much alb has gone to ser. Molybdenite along qtz veinlet walls. Fine grained hem in carb veinlet. Pervasive cpy and pyr fine grained. Cpy and pyr in qtz veinlets. Pervasive pyr > cpy.		
-----	Fault zone		and bkn, loc	ser, (carb)	1 vnlt)	stn alb	stn chl		(alb)	wk/			(cpy)	mo)	wk			
-----	to 168.2 m		wk, loc milled	(cly?)	(2 qtz vnlt	and ser)			(ser)	mod				(pyr)				
-----			loc dis bx		to 1 cm)				chl	ser				(cpy)				
-----										(carb)								
-----										(cly?)								
170.3-173.7	Guichon	-	stng/shatt,	ser, (cly) chl	(carb f.f.	(hem stn	(loc hem	-	(carb)	ser	-	-	tr/wk	(cpy)	wk	Ser on fractures increasing dramatically, but pervasive ser very weak. Ser alteration envelopes. Cpy increasing; chl ± cpy healed fractures.		
-----			loc bkn	chl, carb	and vnlt)	alb and	stn chl		(alb)	(cly)			cpy	(pyr)				
-----					(0.5 cm qtz vnlt)	ser)			chl	chl								
-----									(loc	mod/								
-----									ser)	stng								
-----										carb								
173.7-177.0	Guichon	loc	stng/shatt	ser, (cly) chl	(carb f.f.	(loc hem	(jar)	-	(loc	ser	-	-	tr/wk	(cpy)	wk	Crystals of jar (?) in ser on fractures. One small faded xenolith. Cpy restricted to fracts and microfracts and alteration envelopes. Ser alteration envelopes; chl ± cpy healed fractures. Alteration decreasing.		
-----	wk fault		and bkn loc	mod/stng carb	and vnlt)	stn ser	& alb)		ser)	(cly)			cpy	(pyr)				
-----	175.1-177.0 m		mod loc dis bx						(loc	chl								
-----									(loc	mod/								
-----									(carb)	stng								
-----										carb								
177.0-180.7	Guichon	-	mod/stng/	mod/stng ser	(carb f.f.	(loc hem	-	-	(carb)	mod/	-	-	(cpy)	(cpy)	wk/	Chl healed fractures. Ser alteration envelopes and patches. Chl ± cpy healed fractures. One 1 cm chl/carb veinlet with cpy and mo.		
-----			shatt loc bkn	(cly), chl,	& vnlt)	stn alb)			(chl)	stng				(pyr)	mod			
-----				carb	(1 <0.5 cm qtz vnlt)				loc chl	ser				loc mo				
-----									(loc	(cly)								
-----									ser)	chl								
-----									loc sil	carb								
-----									loc alb									
180.7-184.0	Guichon	-	wk/mod	ser, chl, carb	(carb f.f.	(loc hem	-	-	(alb)	ser	-	-	tr cpy	(pyr)	wk	Alteration decreasing. (Hem) stained alb alteration envelopes. Chl ± cpy healed fractures. Ser alteration envelopes.		
-----			loc bkn		and vnlt)	stn alb)			loc sil	chl				(cpy)				
-----									(carb)	carb								
-----									(chl)									
-----									loc chl									
-----									loc ser									
184.0-188.0	Guichon/ Hybrid?	loc	wk/mod, loc	ser, chl, carb	(carb f.f.	loc hem	-	-	(carb	ser	-	-	(pyr)	(cpy)	wk	Fine grained hem in carb veinlets; chl ± cpy healed fractures with ser alteration envelopes. Carb fracture filling with chl alteration envelopes. One blob of ep.		
-----			shatt and bkn	(cly?) (loc sil)	and vnlt)	stn chl			sil?	chl			(cpy)					
-----									loc alb	carb								
-----									patchy	(cly?)								
-----									chl	(loc sil)								
-----									loc ser									
-----									tr ep									

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION		MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
188.0-191.2	Guichon/ Hybrid?	some slip	stng/bkn	ser, chlr (carb) (cly) (loc sil)	(carb f.f. and vnlt)	(loc hem stn ser)	loc hem stn ser and chlr		(carb) alb (loc sil) chlr	ser chlr (carb) (cly) (loc sil)				loc NCu tr cpy loc chalc (cpy) loc pyr	loc	loc	loc	Carb veinlets contain fine grained hem; chlr fracture filling with ser alteration envelopes. Local chlr alteration envelopes, some of which have pink-beige clayey patches & moderately magnetic NCu in "cave" (where rods pulled rounded rocks from up the hole?) Chalcocite with cpy in carb fracture filling and microfractures.
191.2-195.2	Guichon shear/fault zone at 194.5-194.6 m	some slip	mod/stng, loc bkn, loc dis bx	ser, chlr, carb (cly)	(carb f.f. & vnlt) (qtz vnlt to 1 cm & f.f.)	hem stn ser	(loc jar)		carb chlr (ser) loc ser loc alb	ser chlr (cly) carb				tr/wk chalc tr cpy	loc chalc tr cpy	tr	tr	Shear zone has thin layers of dark grey/black chlr + crushed sulphides. Alteration increasing Local pervasive ser next to shear zone. Chlr healed fractures; chalc in qtz veins and chlr healed shears. Stronger and more widespread hem stained ser and chlr.
195.2-198.6	Guichon		mod/loc shatt and bkn	mod/stng ser chlr, mod/stng carb	(carb vnlt & f.f.) (qtz vnlt to 1 cm)	hem stn chlr & ser, loc hem stn	(loc hem stn ser & chlr)		chlr loc chlr carb	mod/ stng ser chlr mod/ stng carb				(cpy) tr/wk chalc	loc chalc loc tr mo tr/wk cpy	tr	tr	Chlr healed fractured, chlr alteration envelopes, mo in qtz veinlet alteration envelope and some chlr healed fractures.
198.6-202.3	Guichon	loc thin	wk/mod loc shatt & bkn	ser, chlr, carb (loc cly)	(carb f.f. & vnlt) (qtz vnlt to 2 cm)	loc hem stn chlr and ser		loc sil loc carb loc ser loc alb chlr	ser chlr (loc cly) carb				(chalc) (cpy)	tr/wk cpy tr/wk chalc (loc pyr)	wk	wk	Pervasive sil core has trace pervasive carb. Hem staining disappears at 200.5 m. Ser alteration envelopes. Crystalline clacite in calcite veins; chlr + cpy healed fracts; most of pervasive chalc and cpy in alteration envelopes.	
202.3-205.0	Guichon end of HQ core	some slip	wk/mod, loc shatt	ser, chlr, carb	(carb f.f.) (qtz vnlt < 1 cm)	(loc hem stn alb)		alb sil wk/ mod chlr	ser chlr carb				(chalc) (cpy)	(chalc) (cpy)	tr/ loc/ wk	tr/ wk	tr/ wk	Alteration decreasing. Ser alteration envelopes. Chlr healed fractures, bands to 2 mm with chlr alteration envelopes containing beige clay patches. Cpy and chalc in healed fractures, microfracts and alteration envelopes. Weak to moderated mag in pervasive chlr patches—possible xenolith?
205.0-208.4	Guichon		wk/mod loc shatt/bkn	(loc ser) loc chlr, carb	(carb f.f.) (1 vnlt) qtz vnlt < 0.5 cm			(alb) tr ep	(loc ser) loc chlr carb					tr/wk cpy	(loc cpy) tr chalc	wk/ mod	wk/ mod	Small xenolith; chlr healed fractures. Alteration decreasing. One 5 cm pervasive chlr band with beige clay patches. Cpy in alteration envelopes.
208.4-210.1	Porphyry pink, crowded (feldspar/qtz?)		wk/mod/loc shatt/bkn	(loc ser) wk/mod carb	(carb f.f.) (qtz vnlt < 0.5 cm)	(hem stn alb)		(alb?)	(loc ser) wk/ mod carb					(cpy)	loc cpy	tr	tr	One 2 cm band of aplite-like porphyry with chlr healed fractures. Most cpy in alteration envelopes

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
									perv.	fract.		perv	fract	perv	fract		
210.1-214.0	Guichon	-	wk/loc bkn	(loc chlr) (loc ser) carb	(carb f.f.) (qtz f.f.)	-	-	-	(carb) loc sil loc ser (chlr) carb	(loc chlr) (loc ser) carb	tr ep	-	-	(cpy) tr/wk pyr tr chalc	(cpy)	tr/wk	Chlr ± cpy healed fractures. Guichon 50 cm to contact, gets darker, texture more faded and pervasively sil. Alb alteration envelopes. Alteration decreasing. Loc ser occurs in Guichon next to late stage irregular pulse of porphyry (aphanitic, pink/beige). One 1 cm apite dykelet.
214.0-215.5	Porphyry (feldspar/qtz)	-	mod/shatt & bkn, loc ckle bx	ser, (chlr) carb (cly)	(carb f.f.) 1 1.5 cm qtz vnlt	(loc hem stn alb & chlr)	-	-	chl (carb) (ser)	ser (chl) carb (cly)	-	-	-	(cpy)	(loc pyr)	tr	Several pulses of aphanitic pervasive chlr porphyry, one of which is hem stained. Aphanitic porphyry tends to ckle brecciated. Cpy concentrated in mafics/secondary fine grained biotite?
215.5-220.5	Porphyry (feldspar/qtz) wk fault	-	mod/shatt & bkn, loc wk loc ckle bx at 216.4- 216.5 m	ser, (chl) (carb) (cly)	(carb f.f.) (qtz vnlt <0.5 cm)	(hem stn alb)	-	-	loc alb chl loc chl (carb) (loc ser) (loc cly)	ser (chl) (carb) (cly)	-	-	(cpy) (pyr)	(pyr)	tr/wk	(Hem stain) alb alteration envelopes. Note: Verne reminds me about K-spar.	
220.5-225.6	Porphyry	-	wk/mod loc shatt/bkn	ser, chl, loc chl, mod/ stng carb, (loc cly)	(carb f.f. & vnlt) (qtz vnlt < 0.5 cm)	(tr/wk hem stn alb)	-	-	loc alb wk/ mod carb (loc cly) chl loc chl	ser clr loc chl mod/ stng carb (loc cly)	-	-	(pyr) tr cpy	(loc pyr)	tr	At 223.2 m, pervasive chl. Alteration decreasing. Pervasive chl core has small beige "spots". each blob of pyr surrounded by bleached possibly cly alteration envelope.	
225.6-230.8	Porphyry wk fault	loc slip shear at 225.6-225.7	wk/mod loc shatt /bkn	ser, chl, loc chl, carb (loc cly)	(carb f.f. & vnlt)	hem stn chl	-	-	carb (loc K-sp?) (ser) chl	ser chl loc chl carb	-	-	-	tr pyr	-	tr/wk	Hem stained chl ± K-spar? Hem staining very even, fades in and out. Ser alteration greater in highly fractured core.
230.8-236.2	Porphyry	-	wk	ser, chl, (loc cly) mod/stng carb	(carb f.f. and vnlt)	(loc hem stn chl & ser)	(loc hem stn chl)	-	chl carb (ser)	ser chl (loc cly) mod/ stng carb	-	-	-	-	-	tr	Bleached/hem stained alteration envelopes on some of the fractures. Possibly some extremely fine pervasive pyr.
236.2-241.5	Porphyry	-	wk/mod, loc bkn, loc dis bx	(ser) (chl) loc chl, carb	(carb f.f. & vnlt)	hem stn chl	-	-	chl carb (ser)	(ser) (chl) loc chl carb	-	-	-	(loc pyr)	tr pyr	tr/wk	Matrix in disseminated bx is chl and crystalline calcite. Chl and carb healed fractures. Degree of pervasive chl alteration somewhat hard to tell due to pervasive hem staining. Hem stain in very even through core and fades in and out. In 90 cm length of core, just the matrix has been hem stained, feldspars are green. Chl in non-hem stained core. Alteration decreasing.

ROCK TYPE		STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract				
241.5-246.8	Porphyry	-	wk/mod loc shatt & bkn	(ser) (chlr) wk/mod carb	(carb f.f.)	hem stn chlr & ser	-	-	wk/ mod carb chlr loc tr ep	(ser) (chlr) wk/ mod carb	-	-	-	tr chalc (loc pyr)	-	tr			Hem stain very even, fades in and out.
246.8-251.8	Porphyry	-	wk/loc mod and bkn	ser, (chlr) mod/stng carb (cly)	(carb f.f.)	hem stn alb	-	-	(carb) (alb)	ser (chlr) mod/ stng carb (cly)	-	-	-	tr chalc?	-	tr			All core in box pervasively hem stained. Alteration decreasing.
251.8-257.1	Porphyry	-	wk/loc stng and bkn	ser, (chlr), mod/stng carb (loc cly)	(carb f.f.)	(hem stn alb)	(loc hem stn ser)	-	-	tr/wk carb (alb?)	ser (chlr) mod/ stng carb (loc cly)	-	-	-	-	-	tr		Alteration decreasing. Hem stained core greater Pervasive carb. Mafic blotches of hem and mag.
257.1-262.0	Porphyry wk fault	loc gge at 260.4- 260.5 m	wk/mod loc bkn	(ser) loc ser (chlr) carb	(carb f.f. and vnlt)	hem stn alb	-	-	chlr carb	(ser) loc ser (chlr) carb	-	-	-	tr cpy tr pyr	tr cpy	loc tr			Alteration increasing. Pale pink calcite veinlets. The larger mafic blobs contain cpy, pyr and hem
262.0-267.6	Porphyry	-	wk	(ser) (loc chlr) wk/mod carb	(3 carb f.f.)	(hem stn alb)	-	-	(chlr)	(ser) (loc chlr) wk/ mod carb	-	-	-	-	tr loc pyr	-			Very little carb fracture filling. Hem stain weaker not as continuous.
267.6-273.0	Porphyry	loc at 270.4 m	mod/loc ckle bx	(chlr) ser, wk/mod carb (loc cly)	(carb f.f. & vnlt)	(loc hem stn alb)	loc hem stn ser	-	-	chlr (carb)	(chlr) ser wk/ mod carb (loc cly)	-	-	-	loc tr pyr	-			Pervasive continuous hem staining of last boxes gone—now have distinct. Hem stained alb alteration envelopes on fractures and around some of the mafic blobs.
273.0-278.0	Porphyry	loc at 277.5 m	mod/shatt loc bkn	ser, chlr, carb (loc cly)	(carb f.f.)	(loc hem stn ser)	-	-	chlr wk/ mod carb (ser)	ser chlr carb (loc cly)	-	-	-	tr chalc tr cpy	tr loc cpy	-			Alteration increasing. Hem stained ser alteration envelopes (less distinct than last box). Chalc and cpy and Mn in mafic blobs.
278.0-283.5	Porphyry	loc thin	wk/loc mod shatt/bkn loc dis bx at 278.1 m	ser, loc ser (chlr) carb (cly)	(carb f.f. & 1 vnlt)	loc hem stn alb & ser	loc hem stn ser	-	-	(carb) chlr (loc ser)	-	-	-	tr loc chalc tr loc cpy	tr loc chalc tr loc cpy	tr			Each half pervasively hem stained, alb and ser & alteration envelopes on fractures and around mafic blobs. Cpy and chalc confined to larger mafic blobs.



ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION		MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
283.5-288.9	Porphyry	loc slip	wk/loc stng	(ser) (loc chlr) wk/mod carb	(carb f.f.)	hem stn alb	-	-	(carb) loc chlr loc alb	-	-	-	-	loc wk/ mod pyr tr cpy	tr pyr	tr	Alteration decreasing. Pervasive hem stain fades out at 287.5 m. Significant increase in pervasive pyr.	
288.9-294.0	Porphyry	-	mod, loc shatt loc dis bx	wk/mod ser (chlr) carb	(carb f.f.) 1 vntt	-	-	-	loc alb loc chlr (carb)	-	-	-	-	(loc cpy) tr pyr	-	wk	One 1 cm apite dykelet, hem stained. Alteration decreasing. Aplite dykelet contains fragments of carb which contain chlr, crystalline tremolite and cpy. Cpy and pyr in larger mafic blobs.	
294.0-299.0	Porphyry	loc thin	wk/mod/shatt & bkn	ser, loc chlr, carb (loc cly)	(carb f.f. and vntts)	(loc hem stn alb)	-	-	(loc alb?) (chlr) (carb)	ser loc chlr carb (loc cly)	-	-	-	(pyr) tr cpy	(pyr)	tr/wk	Gouge contains pyr crystals. Alteration decreasing. Cpy confined to mafic blobs. Local (hem) stain around mafic blobs.	
299.0-304.0 some core lost at 301.7 m	Porphyry	loc htin	mod/loc shatt/ bkn, loc wk	ser, (chlr) carb (cly)	(carb f.f. and vntts)	(loc hem stn alb)	loc hem stn ser & chlr	-	mod/ stng carb tr ser loc ser chlr loc chlr	ser (chlr) carb (cly)	-	-	-	loc pyr loc tr cpy	(loc pyr)	tr	Alteration decreasing. Pervasive ser where crushed. Pyr and cpy die out at 301.5 m	
304.0-308.4	Porphyry	loc	stng and bkn	mod/stng ser chlr, carb (cly)	carb f.f. (carb vntts)	(hem stn alb)	loc hem stn ser	-	wk/ mod carb loc ser chlr	mod/ stng ser chlr carb (cly)	-	-	-	tr pyr	-	tr/wk	Two apite dykelets up to 4 cm. Great increase in fracture intensity. Numerous carb fracture filling. Pervasive (hem stain) alb alteration envelopes on fractures. One 5 cm apite dykelet. Pervasive ser alteration in highly fractured core with calcite veinlets. Some apple green chlr "veinlets" and fracture filling.	
EOH 308.4 m																		

Northing:		DDH 96-1				Azimuth: 040			
Easting:		Elevation:				Inclination: -65			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27501	3.0	4.5	0.030	0.003	-	-	-	-	crowded grey
27502	4.5	6.0	0.027	0.003	-	-	-	-	Bethlehem Porph "D3":
27503	6.0	7.5	0.025	0.003	-	-	-	-	fault zone
27504	7.5	9.0	0.031	0.002	-	-	-	-	"
27505	9.0	10.5	0.025	0.003	-	-	-	-	"
27506	10.5	12.0	0.024	0.004	-	-	-	-	"
27507	12.0	13.5	0.022	0.004	-	-	-	-	Guichon:
27508	13.5	15.0	0.063	0.014	-	-	-	-	wk fault zone
27509	15.0	16.5	0.083	0.021	-	-	-	-	"
27510	16.5	18.0	0.207	0.055	-	-	-	-	wk fault zone
27511	18.0	19.5	0.038	0.020	-	-	-	-	Guichon/Hybrid:
27512	19.5	21.0	0.021	0.007	-	-	-	-	"
27513	21.0	22.5	0.048	0.029	-	-	-	-	"
27514	22.5	24.0	0.060	0.033	-	-	-	-	"
27515	24.0	25.5	0.037	0.016	-	-	-	-	"
27516	25.5	27.0	0.060	0.020	-	-	-	-	"
27517	27.0	28.5	0.049	0.015	-	-	-	-	"
27518	28.5	30.0	0.037	0.014	-	-	-	-	"
27519	30.0	31.5	0.042	0.012	-	-	-	-	"
27520	31.5	33.0	0.034	0.010	-	-	-	-	"
27521	33.0	34.5	0.039	0.013	-	-	-	-	"
27522	34.5	36.0	0.063	0.013	-	-	-	-	Porphyry:
27523	36.0	37.5	0.070	0.027	-	-	-	-	"
27524	37.5	39.0	0.049	0.020	-	-	-	-	"
27525	39.0	40.5	0.053	0.010	0.1	0.01	-	<.001	"
27526	40.5	42.0	0.061	0.016	0.1	0.01	-	<.001	Guichon:
27527	42.0	43.5	0.052	0.010	0.1	0.01	-	0.001	"
27528	43.5	45.0	0.059	0.015	0.4	0.01	-	<.001	"
27529	45.0	46.5	0.056	0.017	0.1	0.01	-	<.001	Guichon(Hybrid?):
27530	46.5	48.0	0.061	0.015	0.1	0.01	-	<.001	"
27531	48.0	49.5	0.066	0.012	0.1	0.01	-	<.001	Guichon/Hybrid:
27532	49.5	51.0	0.076	0.018	0.1	0.01	-	<.001	"
27533	51.0	52.5	0.078	0.018	0.1	0.01	-	<.001	"
27534	52.5	54.0	0.053	0.016	0.1	0.01	-	<.001	"
27535	54.0	55.5	0.074	0.018	0.3	0.01	-	<.001	"
27536	55.5	57.0	0.063	0.011	0.1	0.01	-	<.001	Guichon/Hybrid?
27537	57.0	58.5	0.050	0.012	0.2	0.01	-	<.001	"
27538	58.5	60.0	0.066	0.016	0.2	0.01	-	<.001	"
27539	60.0	61.5	0.066	0.010	0.1	0.01	-	<.001	Guichon:
27540	61.5	63.0	0.040	0.010	0.1	0.01	-	<.001	"
27541	63.0	64.5	0.050	0.011	0.2	0.01	-	<.001	"
27542	64.5	66.0	0.044	0.010	0.1	0.01	-	<.001	"
27543	66.0	67.5	0.034	0.006	0.1	0.01	-	<.001	"
27544	67.5	69.0	0.058	0.015	0.3	0.01	-	0.001	"
27545	69.0	70.5	0.055	0.011	0.1	0.01	-	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27546	70.5	72.0	0.055	0.010	0.1	0.01	-	0.001	<b>Porphyry:</b>
27547	72.0	73.5	0.282	0.009	0.4	0.01	-	0.002	(crowded Qtz feldspar)
27548	73.5	75.0	0.106	0.004	0.2	0.01	-	0.001	<b>Guichon/Hybrid?:</b>
27549	75.0	76.5	0.040	0.001	0.1	0.01	-	0.006	"
27550	76.5	78.0	0.034	0.004	0.1	0.01	-	<.001	<b>Guichon/Hybrid:</b>
27551	78.0	79.5	0.076	0.004	0.1	0.01	-	0.001	"
27552	79.5	81.0	0.045	0.004	0.1	0.01	-	0.001	"
27553	81.0	82.5	0.082	0.027	0.1	0.01	-	<.001	"
27554	82.5	84.0	0.102	0.015	0.1	0.01	-	<.001	"
27555	84.0	85.5	0.084	0.036	0.3	0.01	-	<.001	fault zone
27556	85.5	87.0	0.109	0.069	0.1	0.01	-	<.001	(84.5-96.2 m)
27557	87.0	88.5	0.110	0.016	0.1	0.01	-	0.001	"
27558	88.5	90.0	0.111	0.014	0.1	0.01	-	<.001	"
27559	90.0	91.5	0.125	0.016	0.2	0.01	-	<.001	<b>Guichon/Hybrid?:</b>
27560	91.5	93.0	0.160	0.029	0.2	0.01	-	<.001	"
27561	93.0	94.5	0.122	0.052	0.2	0.01	-	0.001	<b>Guichon/Hybrid:</b>
27562	94.5	96.0	0.179	0.084	0.1	0.01	-	0.001	"
27563	96.0	97.5	0.078	0.043	0.2	0.01	-	<.001	<b>Guichon/Hybrid?:</b>
27564	97.5	99.0	0.095	0.059	0.3	0.01	-	<.001	"
27565	99.0	100.5	0.086	0.044	0.2	0.01	-	0.001	"
27566	100.5	102.0	0.092	0.054	0.2	0.01	-	<.001	"
27567	102.0	103.5	0.102	0.062	0.1	0.01	-	<.001	"
27568	103.5	105.0	0.113	0.074	0.3	0.01	-	<.001	"
27569	105.0	106.5	0.155	-	0.2	0.01	20	<.001	<b>Guichon/Hybrid:</b>
27570	106.5	108.0	0.276	-	0.2	0.01	20	0.001	"
27571	108.0	109.5	0.137	-	0.1	0.01	15	0.001	<b>Guichon/Hybrid?:</b>
27572	109.5	111.0	0.123	-	0.1	0.01	15	0.001	wk fault
27573	111.0	112.5	0.144	-	0.1	0.01	15	<.001	<b>Guichon:</b>
27574	112.5	114.0	0.130	-	0.2	0.01	10	<.001	"
27575	114.0	115.5	0.084	-	0.1	0.01	10	<.001	"
27576	115.5	117.0	0.083	-	0.2	0.01	10	<.001	"
27577	117.0	118.5	0.072	-	0.1	0.01	20	<.001	"
27578	118.5	120.0	0.061	-	0.1	0.01	25	<.001	"
27579	120.0	121.5	0.075	-	0.2	0.01	5	<.001	"
27580	121.5	123.0	0.086	-	0.1	0.01	5	<.001	"
27581	123.0	124.5	0.101	-	0.2	0.01	5	0.001	"
27582	124.5	126.0	0.132	-	0.1	0.01	5	<.001	wk fault (125.6 m)
27583	126.0	127.5	0.110	-	0.1	0.01	25	0.008	"
27584	127.5	129.0	0.164	-	0.2	0.01	10	0.006	<b>Porphyry:</b>
27585	129.0	130.5	0.126	-	0.1	0.01	5	0.002	"
27586	130.5	132.0	0.107	-	0.2	0.01	10	0.001	<b>Guichon:</b>
27587	132.0	133.5	0.150	-	0.1	0.01	15	0.002	"
27588	133.5	135.0	0.161	-	0.2	0.01	10	<.001	"
27589	135.0	136.5	0.158	-	0.2	0.01	5	<.001	"
27590	136.5	138.0	0.188	-	0.1	0.01	5	<.001	"
27591	138.0	139.5	0.284	-	1.2	0.04	10	0.011	<b>Guichon, poss Porph:</b>
27592	139.5	141.0	0.196	-	0.2	0.01	10	0.001	(20 cm)

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27593	141.0	142.5	0.111	-	0.1	0.01	10	<.001	wk fault (60 cm)
27594	142.5	144.0	0.120	-	0.1	0.01	15	0.001	<b>Guichon:</b>
27595	144.0	145.5	0.516	-	1.4	0.04	10	0.007	fault (1.2 m)
27596	145.5	147.0	0.227	-	0.1	0.01	10	<.001	"
27597	147.0	148.5	0.380	-	0.1	0.01	10	0.006	"
27598	148.5	150.0	0.318	-	0.1	0.01	15	0.001	"
27599	150.0	151.5	0.528	-	0.1	0.01	10	0.006	"
27600	151.5	153.0	0.129	-	0.1	0.01	10	0.001	"
27601	153.0	154.5	0.161	-	0.1	0.01	5	0.002	"
27602	154.5	156.0	0.255	-	0.2	0.01	10	0.002	"
27603	156.0	157.5	0.156	-	0.2	0.01	5	0.001	"
27604	157.5	159.0	0.266	-	0.1	0.01	15	0.002	"
27605	159.0	160.5	0.292	-	0.3	0.01	10	0.002	"
27606	160.5	162.0	0.423	-	0.2	0.01	5	0.004	fault zone (1.2 m)
27607	162.0	163.5	0.364	-	0.1	0.01	5	0.004	"
27608	163.5	165.0	0.386	-	0.1	0.01	5	0.002	fault zone to 166.9 m
27609	165.0	166.5	0.428	-	0.4	0.01	5	0.004	"
27610	166.5	168.0	0.354	-	0.4	0.01	5	0.006	fault zone to 168.2 m
27611	168.0	169.5	0.272	-	0.2	0.01	5	0.002	"
27612	169.5	171.0	0.450	-	0.3	0.01	5	0.022	"
27613	171.0	172.5	0.352	-	0.1	0.01	5	0.008	"
27614	172.5	174.0	0.330	-	0.2	0.01	5	0.007	"
27615	174.0	175.5	0.452	-	0.4	0.01	5	0.002	"
27616	175.5	177.0	0.307	-	0.3	0.01	5	0.006	wk fault ( 1.9 m)
27617	177.0	178.5	0.280	-	0.2	0.01	5	0.006	"
27618	178.5	180.0	0.296	-	0.1	0.01	5	0.007	"
27619	180.0	181.5	0.341	-	0.2	0.01	5	0.002	"
27620	181.5	183.0	0.297	-	0.1	0.01	5	0.002	"
27621	183.0	184.5	0.30	-	0.1	0.01	5	0.003	<b>Guichon/Hybrid?:</b>
27622	184.5	186.0	0.30	-	0.1	0.01	5	0.002	"
27623	186.0	187.5	0.12	-	0.1	0.01	5	0.002	"
27624	187.5	189.0	0.15	-	0.1	0.01	5	0.001	"
27625	189.0	190.5	0.20	-	0.1	0.01	5	0.001	"
27626	190.5	192.0	0.37	-	0.8	0.02	30	0.001	<b>Guichon:</b>
27627	192.0	193.5	0.27	-	0.7	0.02	10	0.001	shear/fault zone
27628	193.5	195.0	0.35	-	0.9	0.03	5	0.002	(10 cm)
27629	195.0	196.5	0.16	-	0.2	0.01	5	0.004	"
27630	196.5	198.0	0.44	-	1.7	0.05	10	0.009	"
27631	198.0	199.5	0.50	-	1.6	0.05	10	0.006	"
27632	199.5	201.0	0.46	-	1.8	0.05	5	0.003	"
27633	201.0	202.5	0.22	-	0.2	0.01	5	<.001	"
27634	202.5	204.0	0.24	-	0.9	0.03	5	<.001	"
27635	204.0	205.5	0.22	-	0.9	0.03	5	<.001	"
27636	205.5	207.0	0.07	-	0.3	0.01	5	<.001	"
27637	207.0	208.5	0.08	-	0.4	0.01	5	<.001	"
27638	208.5	210.0	0.14	-	0.6	0.02	5	<.001	<b>Porphyry:</b>
27639	210.0	211.5	0.27	-	0.6	0.02	5	<.001	(crowded, pink)

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27640	211.5	213.0	0.16	-	0.2	0.01	5	<.001	Guichon:
27641	213.0	214.5	0.26	-	0.1	0.01	5	<.001	Porphyry:
27642	214.5	216.0	0.22	-	0.1	0.01	5	<.001	(feldspar/qtz)
27643	216.0	217.5	0.13	-	0.1	0.01	5	<.001	wk fault
27644	217.5	219.0	0.11	-	0.1	0.01	5	<.001	"
27645	219.0	220.5	0.18	-	0.1	0.01	5	<.001	"
27646	220.5	222.0	0.17	-	0.1	0.01	5	0.001	"
27647	222.0	223.5	0.25	-	0.1	0.01	5	0.001	"
27648	223.5	225.0	0.10	-	0.1	0.01	5	0.001	"
27649	225.0	226.5	0.01	-	0.1	0.01	5	<.001	"
27650	226.5	228.0	0.01	-	0.1	0.01	5	<.001	"
27651	228.0	229.5	<.01	-	0.1	0.01	5	<.001	"
27652	229.5	231.0	<.01	-	0.1	0.01	5	<.001	"
27653	231.0	232.5	<.01	-	0.1	0.01	5	<.001	"
27654	232.5	234.0	<.01	-	0.1	0.01	5	<.001	"
27655	234.0	235.5	0.02	-	0.1	0.01	5	<.001	"
27656	235.5	237.0	0.01	-	0.1	0.01	5	<.001	"
27657	237.0	238.5	0.05	-	0.1	0.01	5	<.001	"
27658	238.5	240.0	0.02	-	0.1	0.01	5	<.001	"
27659	240.0	241.5	0.04	-	0.1	0.01	5	<.001	"
27660	241.5	243.0	0.01	-	0.1	0.01	5	<.001	"
27661	243.0	244.5	0.01	-	0.1	0.01	5	<.001	"
27662	244.5	246.0	0.02	-	0.1	0.01	5	<.001	"
27663	246.0	247.5	0.03	-	0.1	0.01	5	<.001	"
27664	247.5	249.0	0.02	-	0.1	0.01	5	<.001	"
27665	249.0	250.5	0.01	-	0.1	0.01	5	<.001	"
27666	250.5	252.0	0.02	-	0.1	0.01	5	<.001	"
27667	252.0	253.5	0.04	-	0.1	0.01	5	<.001	"
27668	253.5	255.0	0.01	-	0.1	0.01	5	<.001	"
27669	255.0	256.5	0.01	-	0.1	0.01	5	<.001	"
27670	256.5	258.0	0.03	-	0.1	0.01	5	<.001	"
27671	258.0	259.5	0.02	-	0.1	0.01	5	<.001	"
27672	259.5	261.0	0.02	-	0.1	0.01	5	<.001	wk fault
27673	261.0	262.5	0.01	-	0.1	0.01	5	<.001	"
27674	262.5	264.0	0.01	-	0.1	0.01	5	<.001	"
27675	264.0	265.5	0.01	-	0.1	0.01	5	<.001	"
27676	265.5	267.0	0.01	-	0.1	0.01	5	<.001	"
27677	267.0	268.5	0.02	-	0.1	0.01	5	<.001	"
27678	268.5	270.0	0.03	-	0.1	0.01	5	<.001	"
27679	270.0	271.5	0.02	-	0.1	0.01	5	<.001	"
27680	271.5	273.0	0.03	-	0.1	0.01	5	<.001	"
27681	273.0	274.5	0.01	-	0.1	0.01	5	<.001	"
27682	274.5	276.0	0.02	-	0.1	0.01	5	<.001	"
27683	276.0	277.5	0.04	-	0.1	0.01	5	<.001	"
27684	277.5	279.0	0.04	-	0.1	0.01	5	<.001	"
27685	279.0	280.5	0.05	-	0.1	0.01	5	<.001	"
27686	280.5	282.0	0.01	-	0.1	0.01	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27687	282.0	283.5	0.01	-	0.1	0.01	5	<.001	Porphyry:
27688	283.5	285.0	0.03	-	0.1	0.01	5	<.001	"
27689	285.0	286.5	0.01	-	0.1	0.01	5	0.001	"
27690	286.5	288.0	0.02	-	0.1	0.01	5	0.001	"
27691	288.0	289.5	0.01	-	0.1	0.01	5	<.001	"
27692	289.5	291.0	0.01	-	0.1	0.01	5	<.001	"
27693	291.0	292.5	0.01	-	0.1	0.01	5	<.001	"
27694	292.5	294.0	0.01	-	0.1	0.01	5	<.001	"
27695	294.0	295.5	0.01	-	0.1	0.01	5	<.001	"
27696	295.5	297.0	0.01	-	0.1	0.01	5	<.001	"
27697	297.0	298.5	0.11	-	0.1	0.01	5	<.001	"
27698	298.5	300.0	0.19	-	0.1	0.01	5	<.001	"
27699	300.0	301.5	0.02	-	0.1	0.01	5	<.001	"
27700	301.5	303.0	0.01	-	0.1	0.01	5	<.001	"
27701	303.0	304.5	0.01	-	0.1	0.01	5	<.001	"
27702	304.5	306.0	0.02	-	0.1	0.01	5	<.001	"
27703	306.0	307.5	0.01	-	0.1	0.01	5	<.001	"
27704	307.5	309.0	0.07	-	0.1	0.01	5	0.001	"
<b>end of hole</b>									

GETT . . . ORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 96-2		Date		21-Jan-96		Logged by		F		UTM		Lat/Long		MAG.		FL		REMARKS	
Elevation		1741.2 m		Azimuth		045													
Inclination		-45		Length		274.3 m													
ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION									
interval (m)		FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary						
		GOUGE	INTENSITY	SURFACES					perv.	fract.	perv	fract	perv	fract					
0-25.9	Overburden and casing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.9-28.7	Overburden	-	-	clv	frags of qtz vnlt	hem stn cly	hem stn cly Mn stn cly	-	clv	clv	loc chrys	chrys	-	-	-	-	-	-	Pervasive chrys in larger Guichon fragment. Chrys fracture filling.
28.7-31.3	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31.3-35.1	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35.1-39.3	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39.3-43.5	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43.5-47.3	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47.3-51.0	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51.0-54.9	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54.9-58.6	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58.6-62.7	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62.7-66.6	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66.6-70.6	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.5-69.7 m---dislocation breccia, calcite matrix
70.6-74.9	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74.9-78.7	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION			MAG.	FL	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene	primary				
									perv.	fract.	perv	fract	perv	fract		
78.7-83.0	Guichon/ Hybrid	-	wk/loc shatt and bkn	chl, (ser) (loc carb) (cly)	qtz vnlt to 5 cm	-	(loc jar) (loc Cu oxide)	(cly)	cly ser chl	chl (ser) (loc carb) (cly)	-	-	-	loc tr NCu	mod	Sharp contact between Guichon and volcanics. No evidence of an oxide zone. Guichon dislocation brecciated, well healed with a combination of fine Guichon fragments, chl, (+ volcanics for approximately 30 cm which partly melted the edges of the Guichon clasts.) Chl alteration envelopes on healed fractures and qtz veinlets. Many of the 5-cm-or-less qtz veinlets perpendicular to the core axis offset by < 1.0 cm Qtz veinlets parallel to the core axis. Local carb filling in matrix in dislocation breccia. One small xenolith, some well assimilated. Pervasive chl alteration discrete--mafs are eblack, but are extremely soft.
83.0-86.9	Guichon/ Hybrid	-	ckle bx & dis bx at 85.3- 86.5 m	mod/stng ser chl, loc carb (cly) loc sil	(qtz vnlt to 1 cm)	(loc Cu oxide)	(loc jar) loc Mn (loc Cu oxide)	(Fe) (cly)	cly ser chl	mod/ stng ser chl loc carb (cly) loc sil	-	-	-	-	wk/ mod	One 15 cm thick part assimilated xenolith. Dislocated breccia well healed. Numerous chl healed fractures to 0.5 cm. OXIDE: starts at 83.5 m. Pervasive Cu oxide in mafics and chl healed fractures and alteration envelopes. Ser alteration envelopes. dislocation breccia matrix composed mostly of ser, some chl and small Guichon fragments.
86.9-90.8	Guichon/ Hybrid	-	ckle bx, loc dis bx	ser, (loc chl) chl, (cly)	qtz vnlt to 5 cm	(loc Cu oxide)	jar, (loc Mn)	Fe, (cly)	cly	ser (loc chl) chl (cly)	-	-	loc chrys loc ten	-	tr/wk	Chl on fractures disappears into oxide zone. Large qtz veinlets vuggy. Tenonite in qtz veinlet alteration envelopes. Hem in and around healed fracs. Ser alteration envelopes. One small xenolith. Cu oxide in mafics.
90.8-94.5	Guichon/ Hybrid	loc thin	ckle bx, loc mod	ser, cly	qtz vnlt to 4 cm	loc hem stn ser (loc Cu oxide)	(Mn) jar	Fe, (cly)	(loc sil) (ser) (cly)	ser, cly	-	-	chrys (loc mal)	-	tr	One small xenolith. Pervasive hem stain starts at 93.7 m. Chrys and ser alteration envelopes in pervasive hem stained core. Large qtz veinlets vuggy. Cu oxide in mafics.
94.5-98.3	Guichon wk fault at 97.8-98.0 m	loc thin at 96.2 m	ckle & loc dis bx	cly, ser, loc chl, (loc carb)	qtz vnlt to 2 cm	loc hem stn ser	loc hem stn ser & cly loc Cu oxide	(cly)	(cly) loc sil mod/ stng ser (chl?)	cly ser loc chl (loc carb)	-	-	loc chrys	(NCu) NCu	wk	Weak fault--zone of intense fractures and total sericitization. Fracture NCu very fine grained Pervasive NCu in mafics. Cu oxide on some fracture surfaces forms "bands". Chl/chrys + ser healed fractures. Still discrete hydrothermal chl alteration or deuteric? Hem coatings.
98.3-102.2	Guichon/ Hybrid?	-	ckle & loc dis bx	ser, chl (cly) (carb)	qtz vnlt to 2 cm	hem stn ser	hem stn ser (loc Mn) loc cu stn ser (Cu oxide)	(cly)	ser (cly) (loc chl)	ser chl (cly) (carb)	-	-	(loc chrys)	(loc NCu) (NCu)	wk	Carb on fractures increasing. Hem healed fractures, hem coatings. Jar disappears. Pervasive hem stn in bx matrix: staining is mostly fracture controlled.



ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
102.2-104.6	Guichon/ Hybrid	-	ckle & loc dis bx	ser, (loc cly) (loc chlr)	(qtz vnlt to 1.5 cm)	patchy hem stn ser, loc Mn	loc Cu oxide, Mn, loc hem stn ser, jar	(cly)	ser (chl?)	ser (loc cly) (loc chl)	-	-	loc chrys	-	-	wk		Chlr healed fractures to 3 mm. 103.6-104.5 chrys in fractures and matrix of dislocation breccia. Local pervasive ser in more strongly fractured core and alteration envelopes. Still discrete chloritization of mafics. Some of chrys filling matrix botryoidal. Mn stain in dislocation breccia matrix.
104.6-106.1	Bethlehem	-	ckle & loc dis bx	sil, ser, (chl) (cly)	(qtz vnlt to 0.5 cm)	(loc hem stn ser)	jar, (loc hem stn ser) (loc Cu stn ser)	(Fe)(cly)	ser (chl)	sil ser (chl) (cly)	-	-	(loc chrys)	-	-	wk		Hem fracture filling and hem stained ser alteration envelopes.
106.1-109.2	Bethlehem wk fault zone at 108.1- 108.5 m	-	ckle bx loc dis bx, loc crushed & milled	ser, (cly) (chl)	qtz vnlt <0.5 cm to >5 cm	loc hem stn ser & cly	hem stn ser, jar, loc Cu stn ser	(Fe)(Cly)	ser (cly) (chl)	ser (cly) (chl)	-	-	(loc chrys)	-	-	wk		Hem fracture filling and fracture coating. "Red" core: core with hem fracture coating imparting a red colour. Loc patchy hem stain. Core was possibly alb then overprinted.
109.2-112.4	Bethlehem fault zone:----- ----- fault zone:-----	109.6-109.7 m 110.7-110.8 m	ckle bx, loc dis bx	ser, (cly) loc cly	(qtz vnlt to 1 cm)	loc hem stn ser & cly	Cu stn ser (loc jar) hem stn ser	(cly)	ser (cly) (chl)	ser cly loc chl	-	-	loc chrys	-	-	tr/wk		**Nail test hem--precipitates Cu. Hem fracture filling and coatings. Hem stained gouge. Hem stained ser alteration envelopes.
112.4-115.3	Bethlehem Fault/shear zone end of oxide zone 115.5 m	-	dis bx/crush and milled	ser, cly, loc chl	(loc qtz vnlt)	hem stn cly loc jar	hem stn cly (loc Cu stn ser)	(Fe) cly	ser (cly) (chl)	ser cly loc chl	-	-	loc NCu	(loc NCu)	tr			Shear zone: hem stain and coatings in matrix. NCu in shear zone and fractures and matrix. Some fragments in shear competent, others totally sericitized. Cannot tell much about veining as all rock crushed. Pervasive hem stain in matrix. Check assay!! Jar in cly in shear zone
115.3-116.3	Guichon/ Hybrid	-	ckle bx	ser, chl (cly) loc carb	(loc carb f.f.) (qtz vnlt <0.5 cm)	-	-	-	ser chl loc carb	ser chl (cly) loc carb	-	-	(pyr) tr cpy	loc mo tr pyr	tr			Carb in matrix at bottom of box. Chlr alteration still just mafics. Molybdenite in thin qtz veinlet in ckle bx.
116.3-119.7	Guichon	some slip	ckle bx/stng loc crush	chl, ser, (loc cly) carb	(qtz vnlt to 1.5 cm) (carb f.f.)	-	loc hem stn ser & cly	-	ser (chl) (cly?)	chl ser (loc cly) carb	-	-	wk/ mod cpy	cpy (pyr)	wk/ mod			Cpy increasing, often "plated" on slip surfaces. Cpy in mafics, in qtz veinlet. Qtz veinlet fracts filled with carb.
119.7-123.4	Guichon fault zone	122.5- 122.9 m	stng/ckle bx loc dis bx	chl, ser, carb (cly?)	(qtz vnlt ~ 1 cm) carb f.f.	-	-	-	loc carb ser (cly?) (chl)	chl ser carb (cly?)	-	-	pyr (cpy)	(pyr) (cpy)	wk		Chlr healed fractures, 3 mm. Pervasive carb in dislocation breccia, matrix and clasts. Loc chl patches with beige clay. Discrete pervasive (chl). **Should be checked for clay. Pyr probably =cpy.	

interval (m)	ROCK TYPE	FAULT GOUGE	STRUCTURE			VEINING	STAINING		weath.	ALTERATION		MINERALIZATION				MAG.	FL	REMARKS
			FRACTURE INTENSITY	FRACTURE SURFACES	perv.		fract.	hydrothermal		deuteric	supergene		primary					
								perv.			fract.	perv	fract	perv	fract			
123.4-127.7 start of NQ core	Hybrid fault zone	well developed gge 127.4- 127.7 m	bkn, loc mod/ stng	chl <sub>r</sub> , ser, cly? loc carb	1 2 cm qtz/ alb vnlt. (carb f.f.) (qtz vnlt 2 mm to 1 cm)	-	-	-	(loc carb) ser chl <sub>r</sub> (cly?)	chl <sub>r</sub> ser cly loc carb	-	-	-	cpy (pyr)	(cpy) tr loc mo?	wk	Gouge homogeneous clay, medium grey. Core is mafic looking with numerous very mafic patches. Probably ~ 70 % xenoliths, mostly assimilated. Everything covered in grey mud--hard to tell fracture coating. Qtz alb dykelet looks like very pale pink apilite. Possible very fine grained mo along qtz/alb veinlet.	
127.7-131.6	Guichon/ Hybrid	-	wk/loc well healed intrusion bx	chl <sub>r</sub> , loc carb	1 0.5cm qtz/alb vnlt	-	-	-	(ser) (chl <sub>r</sub> )	chl <sub>r</sub> loc carb	-	-	-	(loc cpy) (loc pyr)	loc cpy) (loc pyr)	mod, loc stng	Xenoliths downto ~ 15%. Chl <sub>r</sub> healed fractures, 3 mm and chl <sub>r</sub> alteration envelopes. Alteration decreasing. Well healed ckle bx all through hybrid. Local clay alteration at contact. Accumulations of magnetic along chl <sub>r</sub> healed fractures and shears. Cpy concentrated in and along chl <sub>r</sub> healed fractures.	
131.6-133.5	Tertiary Volcanics	-	wk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
133.5-135.7	Tertiary Volcanics	-	wk/loc mod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Brecciated, gradational contact 135.6-135.9 m.
135.7-137.7	Guichon/ Hybrid	-	wk	chl <sub>r</sub> , (loc carb)	(qtz vnlt < 0.5 cm)	-	-	-	(ser) (chl <sub>r</sub> ) (cly?)	chl <sub>r</sub> (loc carb)	-	-	-	-	tr mo	mod/ stng	Ckled and well healed. Local carb in chl <sub>r</sub> healed fractures. Chl <sub>r</sub> alteration envelopes > 1 cm. Molybdenite in qtz veinlet. Pervasive cly?--white feldspar. Phenos that stand out. Magnetite in chl <sub>r</sub> .	
137.7-141.5  **30-40 cm core missing between 138.1-139.3 m	Porphyry needle hbde & plag. Possibly D4	-	wk	chl <sub>r</sub>	(loc carb f.f.) ( 1 qtz 1 cm vnlt)	-	-	-	(chl <sub>r</sub> ?)	chl <sub>r</sub>	-	-	-	-	-	mod	Extreme ckle-ing, well chl <sub>r</sub> healed. Numerous chl <sub>r</sub> healed microfracts. Crystalline carb filling a few voids in ckle breccia. Qtz veinlets emplaced before ckle brecciated.	
141.5-144.7	Guichon/ Hybrid	-	wk/loc shatt	chl <sub>r</sub> , (loc ser) (carb)	(carb f.f.)	-	-	-	(ep) (ser) (chl <sub>r</sub> )	(loc ep) (loc ser) (carb)	(chl <sub>r</sub> ?)	-	-	(loc cpy)	(cpy) tr pyr	mod	Ep appears in chl <sub>r</sub> rich patches--partly assimilated xenoliths. 10% xenoliths. Locally well healed ckle bx. Most carb filling voids in ckle breccia. Chl <sub>r</sub> healed fractures and alteration envelopes up to 0.5 cm. Cpy in healed fractures and alteration envelopes and xenoliths. Cpy>pyr.	
144.7-149.9	Hybrid/ Guichon	-	wk/mod/loc shatt & bkn	chl <sub>r</sub> , loc carb	(carb f.f.)	-	-	-	loc ep wk/ mod ser (chl <sub>r</sub> )	chl <sub>r</sub> loc carb	(chl <sub>r</sub> ?)	-	-	(loc pyr)	(pyr) tr cpy	wk/ mod	~ 30% partly assimilated xenoliths. Well healed ckle bx (ckle-ing decreasing). Carb filling in voids in ckle breccia. Pyr/cpy fracture filling and veinlets predate ckle breccia, offset by carb/chl <sub>r</sub> shears and fracture filling. Chl <sub>r</sub> fracture filling up to 0.5 cm thick. Hard to distinguish cpy from pyr because core is so dark and sulphides are fine grained.	

interval (m)	ROCK TYPE	FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric		supergene					primary	
									perv.	fract.	perv.	fract.	perv.	fract.				perv.	fract.
149.9-155.1	Guichon/ Hybrid	-	wk/shatt	chl <sub>r</sub> (ser) (loc carb) loc cly	(carb f.f.)	-	loc pale blue?	-	loc ep (ser) (chl <sub>r</sub> ) (loc K-sp?)	chl <sub>r</sub> (ser) (loc carb) loc cly	(chl?)	-	-	(pyr) tr cpy	(pyr)	mod	(Probably have a block ± 1 foot to the right spot). **Pale blue clay-like mineral on fractures at 154.6 m, little spots "efflorescence" of it through core. "Darkness" of core decreasing. Locally well healed ckle breccia. Carb filling voids in ckle breccia. ~ 20% partly assimilated xenoliths. Local ep in chl <sub>r</sub> patches and chl <sub>r</sub> healed fractures. Locally well healed crushed Guichon at 153.4- 153.6 m.		
155.1-158.6	Guichon	-	wk/loc mod shatt and bkn	loc cly, chl <sub>r</sub> ser	(carb f.f. & 1 vnl)	-	-	-	(loc cly) loc ep (chl <sub>r</sub> ) (ser)	loc cly chl <sub>r</sub> ser	-	-	pyr tr cpy	(pyr)	mod/ stng	More pervasive pyr in xenoliths. Pyr veinlets; pyr and cpy in mafics. Blue clay continues on fractures. Well healed dislocation breccia near contact with volcanics. Chl <sub>r</sub> healed fractures and alteration envelopes.			
158.6-159.7	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
159.7-160.6	Guichon (same as 155.1-158.6m)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Probably a block of Guichon highly dislocation brecciated and "pulled out" through volcanics.		
160.6-166.0	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
166.0-172.6	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170.9-171.2 m increase in vugginess.		
172.6-173.0	Bethlehem	-	wk	-	-	-	-	-	cly?	-	-	-	-	-	-	-	Well healed dislocation breccia, matrix of volcanics and chl <sub>r</sub> .		
173.0-177.0	Tertiary Volcanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
177.7-181.9	Bethlehem Porphyry	-	wk/loc shatt & bkn fract set at 40-45° C.A. containing pyr and chl <sub>r</sub>	chl <sub>r</sub> (ser)	-	-	-	-	(patchy ser) (chl <sub>r</sub> )	chl <sub>r</sub> (ser)	(ep)	-	-	(pyr) loc cpy	(pyr)	mod	Well healed ckle breccia and dislocation breccia. Chl <sub>r</sub> and pyr healed fractures up to 0.5 cm and matrix is dislocation breccia. Wide (> 1 cm each side) but pale (ser) alteration envelopes. Pyr in mafics. Pyr on fracts fine grained. Large (~0.5 cm diameter) mafic clots. Locally pervasive cpy in alteration envelope, ~ 0.5 cm from fracture filling, some cpy in fracts with pyr and chl <sub>r</sub> .		
181.9-186.4 (184.6-185.0)	Guichon bleached aplite- porphyry	loc thin some slip	mod/loc shatt	chl <sub>r</sub>	carb vnls 2 - 5 mm	-	-	-	(cly) (loc ser) (chl <sub>r</sub> )	chl <sub>r</sub>	-	-	pyr	tr loc cpy pyr	mod/ stng	Greater amount of grey blue efflorescence. Still discrete pervasive (chl <sub>r</sub> ). Pyr in chl <sub>r</sub> healed fractures and chl <sub>r</sub> alteration envelopes. Cpy in alteration envelopes. Chl <sub>r</sub> alteration envelopes from 0.5 cm across, to 1 cm either side.			

ROCK TYPE		STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS
		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
186.4-191.5	Bethlehem	-	stng/bkn loc mod	chl <sub>r</sub> , (loc ser)	-	-	-	(cly?) (chl <sub>r</sub> )	chl <sub>r</sub> (loc ser)	-	-	-	-	pyr	stng	Fairly sharp contact. Still getting blue/blue-grey effluorescence. Pyr and chl <sub>r</sub> fracture filling up to 2 mm thick with chl <sub>r</sub> alteration envelopes up to 1.5 cm across. Alteration decreasing.		
191.5-196.3	Bethlehem	loc 5 cm	mod/stng & bkn, loc wk	chl <sub>r</sub> , wk/mod ser, (cly)	(qtz vnlt)	-	-	-	(K-sp) chl <sub>r</sub> wk/ mod ser (cly) (loc ep)	chl <sub>r</sub> ? -	-	-	loc tr cpy	pyr -	mod/ stng	Core appears a lot "whiter" (more ser, less chl <sub>r</sub> ) Less blue/blue-grey effluorescence. Alteration decreasing. Qtz and pyr fracture filling and veinlets, with ser alteration envelopes surrounded by chl <sub>r</sub> alteration envelopes. Some of the qtz/pyr veinlets split in half—both pyr and qtz are crystalline. Chl <sub>r</sub> mafics now probably deuterically altered. Pyr now much coarser forming euhedral/subhedral crystals. 2 small 1 cm aplite dykelets.		
196.3-200.6	Bethlehem	198.3-198.4 198.9-199.1	stng/bkn, loc dis bx, loc wk	mod/stng ser, chl <sub>r</sub> , (cly?) carb	(carb/qtz vnlt)	-	-	(carb) loc cly loc chl <sub>r</sub> (loc K-sp)	mod/ stng ser chl <sub>r</sub> (cly?) carb	-	-	-	loc tr/ wk cpy (loc pyr)	(loc cpy) pyr	mod	Carb + pyr + qtz veinlets. Local pervasive chl <sub>r</sub> where all phenos now chl <sub>r</sub> . Pervasive cpy in pervasive chl <sub>r</sub> core. Pyr concentrated in alteration envelopes. Ser alteration envelopes surrounded by chl <sub>r</sub> alteration envelopes. ~ 1 cm across. Carb matrix in dislocation breccia.		
200.6-203.9	Guichon	-	wk/mod, loc shatt	(ser), chl <sub>r</sub> , carb	(carb vnlt)	-	-	(cly) loc Ksp	(ser) chl <sub>r</sub> carb (loc ep)	chl <sub>r</sub>	-	-	(pyr) tr cpy	pyr	mod	Pale blue effluorescence disappearing. Carb + pyr. Ser alteration envelopes surrounded by chl <sub>r</sub> alteration envelopes. ~ 1 cm across.		
203.9-206.4	Bethlehem	loc thin at 204.4, 205.9 m	mod	chl <sub>r</sub> , ser, wk/mod carb	(carb f.f. 1 vnlt)	-	-	chl <sub>r</sub> ser cly carb loc sil	chl <sub>r</sub> ser wk/ mod carb	-	-	-	(pyr) tr cpy	(pyr)	tr/wk	Locally pervasive chl <sub>r</sub> . Local secondary biotite. Local vuggy irregular carb veinlet. Bleached, ser alteration envelope 4 cm across containing secondary biotite and hem. Carb + pyr veinlets with ser and chl <sub>r</sub> alteration envelopes ~ 1 cm across. 1 hem stained alb alteration envelope surrounding a chl <sub>r</sub> alteration envelope and cross cut by a fracture with a chl <sub>r</sub> alteration envelope. Moderate mag in sil core.		
206.4-212.1 (207.9-208.4)	Bethlehem	some slip	wk/loc mod and shatt	chl <sub>r</sub> , (ser) carb	(carb vnlt)	-	-	-	K-sp chl <sub>r</sub> (ser) carb	(chl <sub>r</sub> )	-	-	(pyr) tr cpy?	pyr	mod/ stng	Carb + pyr veinlets up to 3 mm thick. Alteration decreasing. Local secondary (biotite). Ser and chl <sub>r</sub> alteration envelopes from 1 cm to 1.5 cm across, ± outer chl <sub>r</sub> alteration envelopes. Pervasive cpy ~ 1 cm outside alteration envelope. Mafic clots contain mag.		
212.1-217.1	Bethlehem	loc thin	mod/loc shatt & bkn. loc ckle bx	mod/stng chl <sub>r</sub> (ser) (loc carb)	(carb vnlt)	-	(loc hem stn chl <sub>r</sub> )	(K-sp)	mod/ stng chl <sub>r</sub> (ser) (loc carb)	(chl <sub>r</sub> ) loc tr carb	-	-	tr cpy (pyr)	(pyr)	mod/ stng	Loc ser on fractures. Carb and pyr veinlets. Many of these veinlets just have pyr left and remnant carb. Ser alteration envelopes with outer chl <sub>r</sub> alteration envelopes. Local trace pervasive ep in mafic clot with cpy. Most pyr around alteration envelopes.		

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary					
									perv.	fract.		perv.	fract.	perv.	fract.				
217.1-221.6	Hybrid	some slip	wk/mod/loc shatt	chl <sub>r</sub> (ser) mod/stng carb	1 0.5 cm qtz vnit	loc hem stn alb	(loc hem stn chl <sub>r</sub> )	-	loc alb (K-sp)	loc ep chl <sub>r</sub>	(chl <sub>r</sub> )	-	-	(loc pyr)	(pyr)	mod/ stng		***Box was dropped and reorganized--3 m put back together.*** 60% Guichon, 40% xenoliths. 1 cm diameter blob of chl <sub>r</sub> in Guichon--surrounded by ep and K-spar alteration envelope. Xenoliths mod/stng pervasive chl <sub>r</sub> alteration. Alb alteration envelopes on xenolith Guichon contacts. Ep in fractures in xenolith. Pervasive pyr in alteration envelopes. Local secondary biotite. Carb + pyr veinlets with ser alteration envelopes with outer chl <sub>r</sub> alteration envelope to 1 cm thick.	
221.6-227.4	Guichon/ Hybrid	-	wk/loc shatt	chl <sub>r</sub> , ser, carb	carb f.f. & vnits to 0.5 cm	(hem stn alb)	-	-	(alb) (loc K-sp) (loc ser)	chl <sub>r</sub> ser carb	(chl <sub>r</sub> ) (tr, loc ep)	-	-	(loc tr cpy) (loc pyr)	(pyr)	mod		10% xenoliths (pervasive chl <sub>r</sub> alteration). Secondary biotite. Ser alteration envelopes with outer chl <sub>r</sub> envelope up to 1.5 cm thick carb and pyr healed fracts. Pyr on fractures fine grained, hard to see because of mud and chl <sub>r</sub> .	
227.4-233.0	Guichon/ Hybrid (can't tell because of alteration intensity)	loc at 229.9 & 231.5 m	wk/mod loc shatt & bkn	chl <sub>r</sub> , wk/mod ser, mod/stng carb	(carb f.f. & vnits)	hem stn chl <sub>r</sub>	hem stn chl <sub>r</sub> & ser	-	mod/ stng carb stng/ int chl <sub>r</sub> ser cly	chl <sub>r</sub> wk/ mod ser mod/ stng carb	-	-	(pyr) tr cpy	(pyr)	mod		Numerous chl <sub>r</sub> healed microshears, parallel to 30° from C.A. Alteration increasing. Local secondary biotite. Carb has significantly increased. Pervasive cly alteration of chloritized mafics. Pyr and carb in carb fracture filling and veinlets.		
233.3-237.8	Guichon	loc slip	wk/mod loc shatt	chl <sub>r</sub> , (ser) carb	(carb f.f. & vnits)	(loc hem stn chl <sub>r</sub> ) (hem stn alb)	-	-	loc chl <sub>r</sub> (chl <sub>r</sub> ) carb loc ser loc cly	chl <sub>r</sub> (ser) carb	(chl <sub>r</sub> ?)	-	-	(pyr) tr cpy	(pyr)	mod		Alteration decreasing. Pervasive chl <sub>r</sub> to 234.0 m, decreases to (chl <sub>r</sub> ) at end of box. Pervasive ser and cly over same interval. Chl <sub>r</sub> healed fractures and microshears.	
237.8-243.0 (241.4-241.9)	Guichon Porphyry? Aplite?	loc thin	mod/loc shatt loc crush and healed	chl <sub>r</sub> , (loc ser) carb	(carb f.f. & vnits)	loc hem stn alb)	-	-	loc chl <sub>r</sub> (carb) (cly)	chl <sub>r</sub> (loc ser) carb	-	-	-	tr cpy (pyr)	(pyr)	mod		Chl <sub>r</sub> healed fractures to 4 mm thick. Pervasive chl <sub>r</sub> at starts again at 240.7 m. Porphyry or aplite dykelet. Fine grained but not aphanitic, pervasive chl <sub>r</sub> with bleached grey alteration envelopes on carb veinlets and fracture filling. Well developed slicken sides on fractures. In a few spots carb forms a matrix for dislocation breccia--breccia from veinlet emplacement? Pervasive carb alteration concentrated in cly alteration mafics. Pervasive chl <sub>r</sub> alteration core very dark green and is not that soft. Possibly sil alteration overprinted by chl <sub>r</sub> ? or contact metamorphic effect from volcanics?	

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv.	fract.	perv.	fract.			
243.0-246.5	Guichon/ Hybrid?	-	wk/loc stng	mod/stng chl (loc ser), (loc carb)	carb f.f. & vnlt	-	-	-	(loc cly)	mod/ stng chl	-	-	-	tr cpy tr/wk pyr	-	wk/ mod	Blue/blue grey effluorescence on chl appears again. Possibly related to volcanics? Intense chl dies out around 246.8 m, followed by intense dislocated brecciated Guichon, the intensity decreasing towards the contact with the volcanics. Carb veinlet emplacement dislocation breccia (up to 2cm thick). Locally pervasive carb in chl altered Guichon. some of veinlets contain a dark brown cly looking substance--fizzes and turns acid brown, -hem stained carb. Pyr in chl alteration envelopes. <u>Chl</u> picks up again at 248.8 m. Bottom contact with volcanics marked by a 10 cm zone of intrusion breccia filled with volcanics, chl and hem stained carb. Clasts at contact totally bleached and white. ***One fragment fo altered Guichon containing a carb veinlet with cpy and trace of chalc, but don't know where it goes.	
246.5-247.3	Tertiary Volcanics								(loc carb)	(loc ser) (loc carb)								
247.3-250.2	Guichon/ Hybrid? see all remarks for interval 243.0- 246.5 m	(the 2 Guichon sections are relatively the same with a section of volcanics cutting between)																
250.2-253.8	Tertiary Volcanics																	
253.8-259.3	Tertiary Volcanics																	
259.3-264.6	Tertiary Volcanics																	Core has been broken into 1 to 10 cm thick blocks or "cookies" perpendicular to core from 259.3-262.2 m. "Fracture" surfaces are quite uneven and vesicular --some sort of "gas layering"?
264.6-270.0	Tertiary Volcanics																	
270.0-271.0	Tertiary Volcanics																	
271.0-274.3	Guichon/ Hybrid?		gouge/loc dis and ckle bx	ser, chl, cly	(qtz vnlt)				chl ser carb cly	ser chl cly					loc cpy	wk	50% of this interval is gouge. Local cpy in fractures in dis brecciated qtz veinlet. Variable carb through gouge.	
~~~~	fault zone	271.0- 274.3 m																

Northing: 5604066.5		DDH 96-2				Azimuth: 045			
Easting: 641576.8		Elevation: 1741.2 m				Inclination: -45			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27705	78.7	80.2	0.46	0.05	1.1	0.03	5	<.001	Guichon/Hybrid:
27706	80.2	81.7	0.26	0.05	1.0	0.03	5	<.001	"
27707	81.7	83.2	0.35	0.05	0.8	0.02	5	<.001	"
27708	83.2	84.7	0.38	0.04	0.4	0.01	5	<.001	"
27709	84.7	86.2	0.28	0.03	0.6	0.02	5	<.001	"
27710	86.2	87.7	0.25	0.09	0.4	0.01	5	<.001	"
27711	87.7	89.2	0.24	0.21	1.1	0.03	5	<.001	"
27712	89.2	90.7	0.21	0.20	0.6	0.02	10	<.001	"
27713	90.7	92.2	0.36	0.30	0.4	0.01	10	<.001	"
27714	92.2	93.7	0.39	0.38	0.3	0.01	15	<.001	"
27715	93.7	95.2	0.41	0.38	0.1	0.00	10	<.001	Guichon:
27716	95.2	96.7	0.55	0.29	0.3	0.01	15	<.001	wk fault (20 cm)
27717	96.7	98.2	0.37	0.12	0.5	0.02	10	<.001	"
27718	98.2	99.7	0.46	0.42	0.1	0.00	5	<.001	Guichon/Hybrid?:
27719	99.7	101.2	0.48	0.43	0.1	0.00	5	0.001	"
27720	101.2	102.7	0.78	0.18	0.1	0.00	5	<.001	"
27721	102.7	104.2	1.97	0.93	0.8	0.02	10	<.001	Guichon/Hybrid:
27722	104.2	105.7	0.46	0.39	0.1	0.00	5	<.001	Bethlehem:
27723	105.7	107.2	0.21	0.16	0.5	0.02	5	<.001	"
27724	107.2	108.7	0.25	0.20	0.2	0.01	10	<.001	wk fault zone (40 cm)
27725	108.7	110.2	0.20	0.15	0.1	0.00	10	0.001	fault zone (10 cm)
27726	110.2	111.7	0.29	0.26	0.1	0.00	10	<.001	fault zone (10 cm)
27727	111.7	113.2	0.31	0.26	0.1	0.00	5	<.001	"
27728	113.2	114.7	1.04	0.12	0.1	0.00	5	0.002	"
27729	114.7	116.2	1.89	0.07	0.7	0.02	10	0.017	Guichon/Hybrid:
27730	116.2	117.7	0.71	-	0.3	0.01	5	0.009	Guichon:
27731	117.7	119.2	1.30	-	0.7	0.02	5	0.003	"
27732	119.2	120.7	1.02	-	0.8	0.02	5	0.004	fault zone (40 cm)
27733	120.7	122.2	0.89	-	0.7	0.02	5	0.009	"
27734	122.2	123.7	0.67	-	0.6	0.02	5	0.002	"
27735	123.7	125.2	0.72	-	0.4	0.01	5	0.087	Hybrid:
27736	125.2	126.7	0.82	-	0.2	0.01	5	0.009	"
27737	126.7	128.2	0.68	-	0.2	0.01	5	0.008	Guichon/Hybrid:
27738	128.2	129.7	0.35	-	0.2	0.01	5	0.002	"
27739	129.7	131.2	0.55	-	0.4	0.01	5	<.001	"
27740	131.2	132.7	0.17	-	0.1	0.01	5	<.001	Tertiary Volcanics
27741	132.7	134.2	0.01	-	0.1	0.01	5	<.001	"
27742	134.2	135.7	0.03	-	0.1	0.01	5	<.001	"
27743	135.7	137.2	0.52	-	0.4	0.01	5	<.001	Guichon/Hybrid:
27744	137.2	138.7	0.49	-	0.4	0.01	5	<.001	Porphyry (D4?):
27745	138.7	140.2	0.42	-	0.2	0.01	5	<.001	(needle hbde/plag)
27746	140.2	141.7	0.19	-	0.2	0.01	5	<.001	"
27747	141.7	143.2	0.33	-	0.5	0.02	5	0.002	Guichon/Hybrid:
27748	143.2	144.7	0.87	-	1.2	0.04	5	0.002	"
27749	144.7	146.2	0.48	-	0.2	0.01	5	0.013	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27750	146.2	147.7	0.78	-	0.3	0.01	5	0.006	Guichon/Hybrid:
27751	147.7	149.2	0.52	-	0.3	0.01	5	0.002	"
27752	149.2	150.7	0.30	-	0.1	0.01	5	0.003	"
27753	150.7	152.2	0.52	-	0.1	0.01	5	0.003	"
27754	152.2	153.7	0.24	-	0.2	0.01	5	0.003	"
27755	153.7	155.2	0.17	-	0.1	0.01	5	0.021	"
27756	155.2	156.7	0.25	-	0.1	0.01	5	0.003	Guichon:
27757	156.7	158.2	0.22	-	0.1	0.01	5	0.001	"
27758	158.2	159.7	0.10	-	0.1	0.01	5	<.001	Tertiary Volcanics:
27759	159.7	161.2	0.07	-	0.1	0.01	5	<.001	Guichon:
<b>Intervals 161.2-171.7 m were not split or assayed = Tertiary Volcanics</b>									
27760	171.7	173.2	0.03	-	0.1	0.01	5	<.001	Bethlehem:
<b>Intervals 173.2-177.7 m were not split or assayed = Tertiary Volcanics</b>									
27761	177.7	179.2	0.09	-	0.1	0.01	5	0.004	Beth Porph:
27762	179.2	180.7	0.06	-	0.1	0.01	5	0.004	"
27763	180.7	182.2	0.09	-	0.1	0.01	5	0.004	Guichon:
27764	182.2	183.7	0.15	-	0.1	0.01	5	<.001	"
27765	183.7	185.2	0.08	-	0.1	0.01	5	0.002	bich aplite Porph:
27766	185.2	186.7	0.11	-	0.1	0.01	5	0.003	Bethlehem:
27767	186.7	188.2	0.12	-	0.1	0.01	5	0.003	"
27768	188.2	189.7	0.11	-	0.1	0.01	5	0.003	"
27769	189.7	191.2	0.11	-	0.1	0.01	5	0.003	"
27770	191.2	192.7	0.09	-	0.1	0.01	5	0.002	wk fault
27771	192.7	194.2	0.09	-	0.1	0.01	5	<.001	"
27772	194.2	195.7	0.07	-	0.1	0.01	5	<.001	"
27773	195.7	197.2	0.13	-	0.1	0.01	5	0.001	"
27774	197.2	198.7	0.09	-	0.1	0.01	5	0.001	wk fault (10 cm)
27775	198.7	200.2	0.09	-	0.4	0.01	5	0.029	wk fault (10 cm)
27776	200.2	201.7	0.07	-	0.1	0.01	5	0.002	Guichon:
27777	201.7	203.2	0.10	-	0.1	0.01	5	<.001	"
27778	203.2	204.7	0.12	-	0.1	0.01	5	<.001	Bethlehem:
27779	204.7	206.2	0.13	-	0.1	0.01	5	0.002	"
27780	206.2	207.7	0.12	-	0.1	0.01	5	0.001	"
27781	207.7	209.2	0.12	-	0.1	0.01	5	<.001	(5 cm block Guichon)
27782	209.2	210.7	0.10	-	0.1	0.01	5	0.001	"
27783	210.7	212.2	0.14	-	0.1	0.01	5	0.001	"
27784	212.2	213.7	0.10	-	0.1	0.01	5	<.001	"
27785	213.7	215.2	0.11	-	0.1	0.01	5	<.001	"
27786	215.2	216.7	0.11	-	0.1	0.01	5	<.001	"
27787	216.7	218.2	0.09	-	0.1	0.01	5	<.001	Hybrid:
27788	218.2	219.7	0.08	-	0.2	0.01	5	<.001	"
27789	219.7	221.2	0.08	-	0.1	0.01	5	0.007	"
27790	221.2	222.7	0.07	-	0.1	0.01	5	0.002	Guichon/Hybrid:
27791	222.7	224.2	0.12	-	0.1	0.01	5	<.002	"
27792	224.2	225.7	0.10	-	0.1	0.01	5	0.001	"
27793	225.7	227.2	0.10	-	0.1	0.01	5	0.001	"
27794	227.2	228.7	0.08	-	0.1	0.01	5	0.001	"



Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27795	228.7	230.2	0.07	-	0.1	0.01	5	0.001	Guichon/Hybrid:
27796	230.2	231.7	0.10	-	0.1	0.01	5	<.001	"
27797	231.7	233.2	0.12	-	0.1	0.01	5	0.001	"
27798	233.2	234.7	0.11	-	0.1	0.01	5	<.001	Guichon:
27799	234.7	236.2	0.10	-	0.1	0.01	5	<.001	"
27800	236.2	237.7	0.11	-	0.1	0.01	5	<.001	"
27801	237.7	239.2	0.10	-	0.1	0.01	5	0.001	"
27802	239.2	240.7	0.07	-	0.1	0.01	5	0.004	"
27803	240.7	242.2	0.10	-	0.1	0.01	5	0.001	"
27804	242.2	243.7	0.10	-	0.1	0.01	5	0.001	"
27805	243.7	245.2	0.08	-	0.1	0.01	5	0.001	Guichon/Hybrid?:
27806	245.2	246.7	0.06	-	0.1	0.01	5	<.001	"
27807	246.7	248.2	0.05	-	0.1	0.01	5	<.001	(80 cm block Tert Volc)
27808	248.2	249.7	0.06	-	0.1	0.01	5	<.001	"
27809	249.7	251.2	0.06	-	0.1	0.01	5	0.001	"
end of hole									

GETTY NORTH PROJECT

Gower Thompson & Associates Ltd.

DDH # 96-3		Date	25-Jan-96		Logged by		F.M.											
Elevation		1741.2 m		Azimuth		135		Northing:		5604066.6								
Inclination		-75		Length		405.7 m		Easting:		641576.8								
ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
		GOUGE	INTENSITY	SURFACES					perv.	fract.	perv	fract	perv	fract				
0-11.0	Overburden and casing																	
11.0-15.2	Guichon/Hybrid	loc thin some slip	bkn/loc crush & dis bx	ser, cly, loc chl	-	-	jar stn cly, jar hem stn cly & coatings	Fe, cly	(cly) (chl)	(chl) cly	-	-	(chrys)	-	-	tr	Discrete pervasive chl alteration of mafics. A few well healed chl fractures—predates ckle breccia. Possibly one xenolith. Jar + hem fracture filling.	
15.2-18.1	Guichon fault	loc thin 17.2-17.4 m	bkn & shatt loc crush, loc ckle bx	cly, ser, (loc chl)	(qtz vnlt to 3 mm)	-	jar stn cly, jar hem stn cly & coatings loc Mn	Fe, cly	(cly) (chl)	ser cly (loc chl)	-	-	(chrys)	-	-	wk	Local chrys in dislocation breccia matrix. Jar + hem fracture filling.	
18.1-21.6	Guichon	some slip	ckle bx loc dis bx	cly, loc ser	qtz vnlt 3 mm to 1 cm	loc hem stn ser	jar, jar stn cly, hem stn cly	Fe, cly	loc sil (chl) (cly)	cly, loc ser (chl)	-	-	(chrys)	-	-	tr/wk	Ser on slip surfaces. Chl healed fractures (pre-dates ckle breccia). Hem stained ser alteration envelopes. One fracture surface coating with chrys botryoidal balls and thin "strings" of chrys (?) balls	
21.6-24.5	Guichon	-	ckle bx/dis bx	cly, loc ser loc sil	(qtz vnlt 3 mm to 1.5 cm)	hem stn ser & cly (loc Cu stn grn cly), loc jar stn mafics & chl	jar, jar stn cly hem stn cly, (Cu oxide stn cly)	Fe, cly	(chl) (cly)	cly loc ser loc sil	-	-	(chrys)	-	-	loc tr	Interval of hem stained cly and coatings and pervasive hem stain 24.1-24.6 m. Qtz veinlets pre-dates breccia.	
24.5-27.9	Guichon	-	mod/ckle bx	loc cly, sil	qtz f.f. & vnlt to 1 cm	hem stn cly/chl/ser, loc jar (loc Cu oxide stn cly grn)	hem stn cly (loc Mn)	Fe, cly	chl sil loc ser	loc cly & sil	-	(loc chrys)	chrys	-	-	tr	Very distinctive core—pervasive hem stained ser and cly alteration envelopes. Numerous chrys ± qtz veinlets (which cross cut qtz veinlets) or chrys matrix in dislocation breccia. Most chrys veinlets are 1-3 mm thick, a few reach 0.5 cm. Chl pervasive alteration more of a green wash than discrete. Local jar filled microfractures. Many chrys coated fractures with little balls ("botryoids") of chrys. some voids in veinlets-- ***Turquoise in one void. ***Local phlogopite?	

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION			MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene					primary
									perv.	fract.		perv	fract				
27.9-31.3	Guichon	-	ckle bx	loc cly, sil	(1st qtz vnits, one 1 cm) 2nd qtz vnits & f.f.	loc hem stn cly, ser/chlr loc Cu oxide stn cly gm	hem stn cly (loc Mn) loc jar stn cly	Fe, cly	loc sil loc alb? sil chlr	loc cly	-	mod/ stng chrys	-	-	tr/wk	Pervasive hem slightly decreasing. Still getting chrys botryoids on fractures. Pervasive sil core looks faded--local pervasive alb? One 1 cm qtz veinlet crosscut by irregular qtz and chrys veinlets. Qtz and chrys also filling in dislocation breccia and matrix, and often contain voids. Hem stained cly, chlr and ser alteration envelopes. Cly/ser in alteration envelopes in dislocation breccia (Cu oxide stain).	
31.3-35.0	Guichon fault zone	34.4-35.0 m 40° to C.A.	dis bx, loc ckle bx, loc crush & milled	loc cly, sil, loc ser	qtz vnits & f.f.	loc jar stn cly & ser loc hem stn cly ser chlr	hem stn cly (loc Mn)	Fe, cly	cly (chlr)	loc cly sil loc ser	-	chrys	-	-	tr	Interesting dislocation breccia! From 32.0-32.6 m dislocation breccia is at least 15% turquoise + qtz matrix with voids in matrix. Fragments in fault zone have ser on fractures. Jar stained cly and ser in fault gouge. Crushed and milled rock. Qtz and chrys veinlets.	
35.0-38.9	Guichon fault zone	35.0-38.9 m	crush & milled loc dis bx	cly, ser	qtz vnlt frags	jar stn cly (loc gm Cu oxide stn cly)	jar stn cly	Fe, cly	cly ser	cly ser	-	(loc chrys)	-	-	-	Appears that chrys associated with qtz veinlets. Most of cly is cly and gravel sized fragments of Guichon, most fragments totally bleached.	
38.9-40.7	Guichon fault zone	38.9-41.1 m	ckle bx, loc crush	cly, loc ser	qtz vnlt frags at least up to 1.5 cm	(Cu gm oxide stn cly & ser)	jar stn cly, (Cu oxide stn ser)	Fe, cly	cly	cly loc ser	-	loc chrys	-	-	-	Lost hem stained cly	
40.7-42.9	Bethlehem?		ckle bx	cly, (chlr)	(qtz vnits 0.5 cm)	loc gm Cu oxide stn cly	(loc Mn) loc jar & jar stn cly	Fe (cly)	(cly) loc sil (chlr)	cly (chlr)	-	loc chrys	-	-	tr/wk	Alteration makes identification difficult.	
42.9-46.3	Bethlehem?	some slip	ckle bx, loc crush	loc chlr, loc ser, (cly) (loc sil)	qtz vnits to 1 cm	(loc jar stn cly)	(jar stn cly) (loc Mn)	(Fe) (cly)	(cly) (loc sil)	loc chlr loc ser (cly) loc sil	-	(loc chrys)	-	-	tr	(Could be Hybrid/Guichon). Qtz veinlets and qtz dislocation breccia matrix. Jar stained cly alteration envelopes. Qtz veinlets and matrix still contain voids.	
46.3-49.8	Guichon fault	46.5-46.7 m	ckle bx	(cly) (loc ser) (loc sil)	qtz vnits	(loc Cu oxide stn cly)	jar stn cly & ser	(Fe)	loc sil loc cly (chlr)	(cly) (loc ser) (loc sil)	(chlr?)	loc chrys	-	-	tr/wk	Jar dies out ~ 48.8 m. Local jar and cly filling in matrix in dislocation breccia. Chlr well healed fractures with chlr. Alteration envelopes 0.5 cm thick, predates ckle breccia. Pervasive alteration decreasing.	
49.8-53.3	Guichon	some slip	ckle bx/loc dis bx	loc ser, loc sil (cly)	qtz vnits to 1 cm	loc jar stn cly & ser	loc jar stn cly & ser (loc Cu oxide stn ser gm)	(Fe)	loc sil (cly) (chlr)	loc ser loc sil (cly)	(chlr?)	(loc chrys)	-	-	wk	Thick ser on slip surfaces. Chlr well healed fractures. Chlr alteration envelopes on qtz veinlets. Chlr well healed shear zone perpendicular to the core axis at 50.8 m. Local jar stained cly/ser alteration envelopes and in dislocation breccia matrix, on slip surfaces.	

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION			MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary			
							perv.	fract.		perv	fract	fract				
53.3-56.8	Guichon	some slip	mod/ckle bx	loc sil, ser, loc chlr, (cly?)	(qtz vnlt 0.5 -1 cm)	loc jar stn cly & ser	Cu grn oxide stn ser, jar stn ser	(Fe)	(cly) (clr)	loc sil ser loc chlr (cly?)	-	-	(loc chrys)	-	tr/wk	Jar stained cly and ser alteration envelopes. Chlr healed fractures and alteration envelopes up to 1 cm across.
56.8-60.0	Guichon/ Hybrid	-	ckle bx/ loc mod	sil, loc chlr ser (cly?)	(qtz vnlt up to 1 cm)	loc grn Cu oxide stn ser	Cu oxide stn ser loc jar stn ser (loc hem stn ser) loc Mn	loc Fe	(chl) (cly)	sil loc chl ser (cly?)	-	-	loc chrys	-	tr	In local dislocation breccia have jar as fracture filling--up to 1 cm thick. At 58.0 m have a 10 cm pervasive chlr, pervasive Cu oxide and jar stained ser with a few blobs fo hem and no Guichon texture: Possibly a strongly altered xenolith? Local chl on fractures. Chlr fracture filling and alteration envelopes 0.5 cm thick.
60.0-63.7 (62.2-62.4)	Guichon/ Hybrid Porphyry?	-	ckle bx	sil, loc ser loc chlr (cly?)	qtz vnlt & f.f.	(loc jar stn ser & cly) (loc hem stn cly)	loc Cu oxide & jar stn ser (loc Mn)	(loc Fe)	(loc alb?) (chl) loc Ksp loc ep	sil loc ser loc hcl (loc Ksp)	-	-	(loc chrys)	-	-	Well healed ckle breccia. chrys healed micro-fractures. Jar stained ser and cly alteration envelopes, chl well healed fractures. Very fine grained bleached out porphyry cut by qtz "stockwork" at 62.7 m has significant K-spar alteration envelopes. Qtz veinlets contain voids and ep? Chlr fracture filling up to 3 mm thick, with hem stained cly alteration envelopes.
63.7-67.2	Guichon	-	mod/ckle bx	loc cly, ser loc chlr, loc sil	(qtz vnlt 3 mm to 1.5 cm)	(loc grn Cu oxide stn alb?) loc jar	loc jar stn cly +coating & ser (Cu oxide stn ser)	loc Fe loc cly	(loc chl) (alb)	loc cly ser loc chl loc sil	(chl?)	-	(loc chrys)	-	tr	One 1 cm apite dykelet with 3 mm offshoots. 66.5 m---jar stained ser and cly. Alteration decreasing. Chlr well healed fractures and alteration envelopes. One porphyry? (fine grained and bleached) dykelet running almost parallel to core axis form 63.7-64.0 m. Loc pervasive jar in and around chlr healed fractures.
67.2-70.8 ~~~~ ~~~~	Guichon fault	70.6-70.8 m ~25° C.A.	ckle bx/loc mod, loc dis bx	cly (ser)	qtz vnlt 3 mm to 3 cm	loc jar stn ?	jar stn cly & coatings, grn Cu oxide cly	loc Fe loc cly	(loc sil) (cly) (loc alb)	cly (ser)	(chl?)	-	(chrys)	-	tr	Small irregular veinlets of chrys and dislocation breccia matrix, some of which contain reddish purple metallic blobs of hematite. One alb alteration envelope on qtz veinlet. Qtz veinlets broken and vuggy. Jar stained ? alteration envelopes. Chrys on hard side.
70.8-73.9 ~~~~ ~~~~ ~~~~	Guichon fault fault fault	70.8-71.0 m 71.6-72.0 m 73.3-73.8 m	ckle bx	cly, (ser) loc chlr, (loc sil)	(2 qtz vnlt 0.5 cm)	loc grn Cu oxide stn cly	(loc grn Cu oxide stn cly) jar stn cly & coatings (hem stn cly & coatings)	Fe, cly	(loc sil) (cly) chl (loc alb?)	cly (ser) loc chl (loc sil)	-	-	(chrys)	-	tr	Chlr well healed fractures. Local Cu oxide stained cly in gouge. Hem in some of fractures.

ROCK TYPE	FAULT	STRUCTURE			STAINING		ALTERATION				MINERALIZATION		MAG.	FL	REMARKS		
		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric						
									perv.	fract.	supergene	primary					
interval (m)																	
73.9-77.4	Guichon	some slip	ckle bx	cl, (ser) loc chl, (loc sil)	(qtz vnits <0.5 cm)	loc gm Cu oxide ser (loc red Cu oxide)	(loc gm Cu oxide cly & ser) (jar stn cly & coatings) hem stn cly, ser & coatings	Fe, cly?	(alb) (chl)	cl, (ser) loc chl (loc sil)	-	-	(chrys)	-	-	loc tr	Start of bright red Cu oxide concentrated in mafics. Some of the ckle breccia is well healed. Chrys ± reddish purple metallic hematite blobs. Local pervasive Cu oxide stained ser (turquoise patches)—old shear? Chlr healed fractures and alteration envelopes. Hem stain>jar stain.
77.4-80.2	Guichon fault	77.4-77.7 m (30° C.A.) > 3 cm thick	ckle bx loc dis bx	loc chl, cly ser, (loc carb)	(2 qtz vnits < 0.5 cm)	(loc jar stn cly) (loc hem stn cly)	hem stn cly & coatings	Fe, cly	chl, ser cly	loc chl cly ser (loc carb)	-	-	-	-	NCu tr cup	FAULT CONTACT. Red oxidized Cu increases. Chlr increases towards contact with volcanics. NCu fine grained. Pervasive chlr wash and discrete. Nail test—negative! Hem in microfractures. Jar stained cly in gouge. Local (carb) in gouge.	
(78.2-78.8)	Porphyry D3																
80.2-81.2	Tertiary Volcanics		dis bx														dislocation breccia with a trace amount of carb in matrix.
81.2-85.0	Tertiary Volcanics																Pale blue/blue grey effluorescence on fractures and lining vesicles. Locally vesicular.
85.0-88.9	Tertiary Volcanics																Whole box—vesicular volcanics.
88.9-92.5	Tertiary Volcanics			loc carb	(loc carb vnits)												Patchy vesicular.
92.5-95.1	Tertiary Volcanics																
95.1-96.3	Hybrid/ Guichon	thin at contact 25° C.A.	ckle bx, loc dis bx	chl, mod/stng ser, carb (cly?)	2 qtz vnits 0.5 & 1.0 cm	hem stn ser & chl		(chl) (patchy ser) loc alb	chl mod/ stng ser carb (cly?)				(patchy cpy) (loc chalc) (loc mo)	(cpy)	wk/ mod	This interval 50% partly assimilated xenoliths. Contact at: 25° to core axis. Ckled and dislocation breccia at contact to 95.3 m. 1.0 cm thick qtz veinlet close to contact contains hem stained alb in center. Cpy and chalc and mo in chlr alteration envelope, also very fine grained cpy. Cpy in core of 1.0 cm veinlet. Xenoliths slightly sericitic. Cpy in xenolith.	
96.3-101.0	Hybrid/ Guichon	some slip thin gge 25° C.A.	mod/loc shatt & bkn, loc ckle bx	chl, ser, carb	(qtz vnits up to 1 cm) (carb f.f. and vnits)	loc jar & hem stn ser loc gm Cu oxide	loc jar & hem stn ser red Cu oxide loc Mn loc gm Cu stn ser		(patchy carb) chl patchy ser (loc sil)	chl ser carb			(loc NCu) (loc NCu)	(loc NCu)	wk/ mod	50% partly assimilated xenoliths. Red Cu oxide fracture filling and microfracture filling. Pervasive carb in xenoliths. Qtz veinlets discontinuous and broken. Pervasive ser in xenoliths. NCu restricted to xenoliths.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv.	fract.					
101.0-103.1	Porphyry (D3)		mod/stng/loc ckle	ser, (loc chl) (carb)	(2 carb vnits) 1 8 cm qtz vnl at contact.	patchy hem stn alb	jar stn ser & coatings Mn & Cu-Mn		(chl)	ser (loc chl) (carb)	(chl?)						One large 8 cm qtz veinlet. Brecciated, contains chrys in fractures. One 1.5 cm aplite dykelet. Hem stained alb in qtz veinlet.	
103.1-106.5	Porphyry (D3)		loc wk/mod	loc chl, ser, cly, mod/stng	(carb vnits & f.f.)	patchy hem stn alb	jar stn ser, cly & coat- ings Mn stn	(Fe)	(chl)	loc chl ser cly mod/ stng carb	(chl/)		tr chrys			tr	Trace of chrys in weak fault breccia, qtz veinlet fragments in second fault. Carb matrix in second fault. Mafic blobs scattered with yellow? (cly?)	
	~~~~ wk fault	103.6-?	loc dis bx & milled															
	~~~~ fault zone	105.8- 106.5 m (5° C.A.)		carb														
106.5-109.8	Porphyry (D3)	loc thin at 109.0 m	mod/stng loc bkn & shatt loc crush	ser, cly, mod/stng carb	(carb vnits & f.f.)	loc jar stn (hem stn alb)	Mn stn (loc grn Cu oxide stn ser) jar stn cly, ser and coatings	(Fe)	(ser)	ser cly mod/ stng carb			(loc chrys)			tr	Difficult to identify ser and cly because of jar. Discrete ser.	
109.8-113.0	Porphyry (D3)	loc thin	mod/stng/loc bkn & shatt	ser, cly (carb)	(carb f.f. & vnits) 1 qtz vnl	(patchy hem stn alb)	(loc Mn) jar stn cly, ser and coatings	(Fe)	(loc ser)	ser cly (carb)	chl ep		tr loc chrys			tr	some of ep being altered into little yellow? specks in chl. Alteration decreasing. Qtz veinlet contains chrys and jar. Local discrete ser.	
113.0-116.8	Porphyry		wk/mod/loc shatt	ser, cly (carb)	(carb f.f.)	loc hem stn alb loc jar stn	jar stn cly, ser and coatings (Mn stn)	(Fe)	(loc carb) (loc ser)	ser cly (carb)	chl		loc chrys			tr/wk	Pervasive hem stained alb picks up again at 116.0 m along with pervasive jar. Altered deuteric ep in mafics (yellow specks). Discrete loc (ser).	
116.8-120.8	Porphyry	some slip	wk/loc mod cong set at 40 & 50, & 20 & 70° C.A.	(ser) (cly) (carb)	(carb f.f. & 2 vnits)	hem stn alb	Mn stn	(Fe)	(carb) (chl)	(ser) (cly) (carb)	(chl?)					loc tr	Jar on fractures decreasing. One 1 cm thickness of jar & cly & crushed Porphyry. Mn more dendritic. Pervasive carb concentrated in mafics.	
120.8-124.7	Porphyry (D3)		wk/mod/loc fault bx & gge	ser, carb, cly	(1 3 mm qtz vnl)	(hem stn ser & alb)	jar stn cly/ser and coatings	Fe	(ser) (cly?) carb (chl)	ser cly carb	(chl?)					loc tr	Porphyry becomes bleached towards fault. Carb in gouge and matrix. One hem stained ser alteration envelope. One jar stained alteration envelope.	
	~~~~ wk fault	122.2 m																
	~~~~ fault	123.9- 124.7 m (30° C.A.)																

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG. FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	Supergene		primary			
									perv.	fract.		perv	fract	perv			fract
124.7-128.5	Porphyry Fault zone (continued)	124.7- 128.0 m (L to C.A. in some places)	fault bx, milled loc wk	cly in gge, (loc cly & ser) in wk fract core	frags of qtz vnlt	Mn (hem stn alb/ser) loc jar stn cly	jar stn cly/ser coatings	Fe	wk/ mod carb (ser) mod (loc sil)	cly (ser) wk/ mod carb	-	loc chrys	-	-	-	Porphyry next to fault (to 128.4 m) very bleached. Chrys in jar "veinlet" (0.5 cm). Porphyry clasts pervasive carb, sil. Mn stain radiates out from fractures. Jar stained cly in gouge. Bleached alteration envelope (now green). Jar stained alteration envelope.	
128.5-132.1	Porphyry fault	129.6- 130.2 m (10° C.A.)	wk/loc mod/loc shatt and fault bx	loc ser, (loc cly) loc carb	loc qtz vnlt (loc carb vnlt)	(loc hem stn ser & alb) Cu oxide (loc Cu oxide stn ser)	Mn, loc grn Cu oxide stn ser, loc jar stn cly & coatings	(loc Fe)	(carb) loc ser loc sil loc carb	loc ser (loc cly) loc carb	-	loc chrys	-	tr	Chrys in qtz veinlets. Hem stain ends ~ 130.8 m then core quite green (ser-Cu stain) to end of box. Qtz veinlets in green core. Three < 0.5 jar "veinlets" in hem stained core. Green core pervasive sil them ser altered? Pervasive carb in fault gouge.		
132.1-136.4	Porphyry (D3)	loc thin at 45° C.A.	wk/loc stng. loc ckle bx	loc ser, loc cly loc sil	qtz vnlt 0.5 cm (carb f.f. & vnlt)	(loc hem stn alb & ser) (loc red Cu oxide)	loc red Cu oxide (loc jar stn ser & cly)	-	(loc alb) loc sil (ser)	loc ser (chlr?) loc cly loc sil	-	(loc chalc) (loc cpy)	tr cpy tr chalc	wk/ mod	Hem stained alb and ser alteration envelopes. Jar disappearing. Thin green Cu oxide stained ser alteration envelopes and fracture filling. Alteration decreasing. Local discrete ser. Chalc and cpy appear ~ 135.0 m. Both are very fine grained. Chalc>cpy. Local Cu-Mn stain on fractures.		
136.4-140.2	Porphyry (D3)	some slip	wk/loc mod	loc cly, ser, loc chlr, loc carb	(qtz vnlt to 2.5 cm)	(loc Mn) (loc hem stn alb) (loc red Cu oxide)	loc jar stn ser, cly & coatings loc Mn loc grn Cu oxide stn ser	(Fe)	loc sil (loc alb) (loc ser)	loc cly ser loc chlr loc carb	(chlr?)	loc chrys (loc tr cpy)	tr chalc	wk	Local patch of red Cu oxide in microfractures. Local alb alteration envelopes, local hem stained alb alteration envelopes (which has an outer alteration envelope of pervasive chlr and ser) One jar stained alteration envelope. Chalc>cpy. Cpy and chalc disappears at end of box.		
140.2-143.9	Porphyry Fault	143.4- 143.9 m at 10° C.A.	mod/loc wk loc shatt/bkn loc fault bx	cly, ser, carb	(qtz vnlt < 0.5 cm) (carb f.f. & vnlt)	(loc hem stn ser) (loc Mn)	loc jar stn ser, cly & coatings loc Mn stn loc grn Cu oxide stn ser	(Fe)	ser carb (chlr) (cly)	cly ser carb	-	(cpy) (chalc)	(loc cpy)	tr/wk	Hem stained ser alteration envelopes. Jar stained cly in gouge. Local Mn in gouge. Some of core looks like it was pervasive alb, then ser altered—cly alteration. Cpy and chalc in bleached ser core. Cpy and chalc fine grained and in mafics.		
143.9-148.0	Porphyry	-	wk/mod/loc bkn	loc ser, loc chlr, mod/stng carb	(carb f.f.)	(loc hem stn ser)	-	-	loc chlr loc ser carb	loc ser loc chlr mod/ stng carb	ep chlr	-	loc tr pyr loc tr chalc (loc cpy)	mod	Local chlr and ser pervasive at top—decreases to almost fresh porphyry at bottom of box—original K-spar. One xenolith? almost totally assimilated but still a sharp contact. No K-spar, greyer, more siliceous. Ser only on a few fracture surfaces. Pervasive carb strictly in mafics in fresh core. Cpy, pyr, chalc in mafics. Local (hem stained ) alteration envelopes.		

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
148.0-152.3	Porphyry	-	wk/loc shatt	carb, (ser) (loc chlr)	2 qtz veins 5 cm & 7 cm	loc hem stn alb	-	-	loc alb loc ser	carb (ser) (loc chlr)	tr ep chlr	-	-	(chalc) tr cpy	(cpy) (chalc)	tr/wk	Lose pervasive K-spar. Solid core for 4 ft interval qtz veins fractured--a few of which contain cpy. Porphyry similar to porphyry from 95-1 ~ 85.1 m. One 1 cm thick aplite dykelet. Hem stained alb alt- eration envelope. One chlr + carb veinlet, cpy & chalc in alteration envelope. Mag weakens to trace at bottom. Local ser alteration envelopes.	
152.3-154.4	Porphyry	-	wk/loc shatt	chlr, ser, carb	(qtz vnits to 1.5 cm)	-	-	-	(loc alb)	chlr ser carb loc ep	chlr ep	-	-	(chalc) tr cpy	-	loc wk	Pervasive chalc in alteration envelope on fractures Ep healed fractures with alb alteration envelope. Fracture with chalc envelope cross cut by qtz veinlet. One qtz core/outer alb veinlet.	
154.4-160.9 start of NQ core	Porphyry	-	wk/loc mod/loc shatt & bkn, fract set at 50 & 40° C.A.	loc cly, ser, loc chlr, mod/ stng carb, loc sil	qtz vnits 0.5 - 1 cm 2 alb vnits	loc grn Cu oxide stn cly & ser loc jar stn cly, ser & coatings (loc red Cu oxide)	(loc Fe)	loc chlr loc alb?	loc cly ser loc chlr mod/ stng carb loc sil	(chlr)	-	-	tr/wk chalc	tr loc cpy (loc chalc)	wk/ mod	***4 foot core loss. Alb alteration envelopes, 1.5 cm across. Jar and green and red Cu oxide appear ~ 160.0 m. Nail test on red Cu oxide--- positive. Porphyry finer grained. One of the alb veinlets has discontinuous qtz core. Local pervasive chlr. Loc Cu red oxide in microfractures Loc cpy and chalc on fracture surface with sil.		
160.9-165.9	Porphyry	loc thin	wk/mod/loc shatt	loc cly, ser loc chlr, carb	(1 carb vnlt) (carb f.f.) (qtz vnits 0.5-1.5 cm) (comp qtz/ alb vnits)	loc jar stn cly & coating loc magn loc Cu red oxide	(loc Fe)	(carb) patchy alb loc chlr loc sil loc ser	loc cly ser loc chlr carb	(chlr) (ep)	-	-	(patchy chalc) (loc cpy)	loc tr/ wk cpy tr chalc	wk/ mod	Pervasive carb just in mafics. Trace of cpy and (chalc) in qtz veinlets. Some of mafics have strong mag response. One hem stained alb/ser envelope. Ser alteration envelopes and around thin gouge. Local pyr on fractures is crystalline.		
165.9-171.2	Porphyry	-	wk/loc mod	mod/stng ser chlr, carb	(carb f.f. & vnits) (qtz vnits ~ 1 cm)	(loc hem stn alb & ser)	-	-	(chlr) loc chlr loc ser (alb)	mod/ stng ser chlr carb	(loc chlr)	-	-	(chalc) (loc cpy)	(loc cpy) tr chalc	mod	Alteration increasing. Pervasive chlr and ser pick up around 170.5 m. One carb veinlet, vuggy. Hem stained ser and alb alteration envelopes towards the end of box. Alb alteration envelopes. Pervasive chalc and cpy increases as pervasive chlr increases. Chalc>cpy. A lot of the chalc has a peacock tarnish. Qtz veinlets contain cpy and chalc.	
171.2-176.0 ~~~~	Porphyry fault	172.1- 173.6 m 30° C.A.	mod/stng/loc wk, loc bkn & crush, loc fault bx	(loc cly), mod/stng ser chlr, carb	(carb f.f. & vnits) (qtz vnits 0.5-1 cm)	-	-	-	stng/ int chlr mod/ stng ser carb	(loc cly) mod/ stng ser chlr carb	-	-	-	tr pyr tr/wk cpy	(loc pyr)	tr/wk	One of carb veinlets vuggy with slender prismatic crystals fo yellow? (no reaction with HCl; can be scratched with a needle.) Chalc in thin qtz veinlets. Very weak hem stained ser alteration envelopes. Loc ser in fault breccia and gouge.	



ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	Supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
176.0-181.2	Porphyry	some slip	mod/bkn & shatt	ser, loc chlr carb	(carb f.f.) (2 qtz vnlt < 0.5 cm)	(loc hem stn ser)			ser chlr carb (cly)	ser loc chlr carb				(loc chalc) loc tr cpy		loc tr		Local pervasive ser. Carb in broken core. Hem stained ser alteration envelopes. Only mafics appear to be small specks of metallic hematite. Chalc and cpy just at beginning of box then disappear to trace amounts.
181.2-186.2	Porphyry	loc thin	mod/loc stng and shatt	loc chlr, (cly) (ser) carb	(carb f.f. & vnlt)	(loc hem stn ser)			wk/ mod carb (ser) chlr	loc chlr (cly) (ser) carb				loc cpy loc chalc	loc pyr loc tr cpy	loc wk		(Hem) stained ser alteration envelopes. Cpy and chalc in alteration envelopes.
186.2-191.7	Porphyry	some slip	wk/mod loc stng and bkn	(ser) (loc cly) carb, loc chlr	carb f.f. (carb vnlt to 1 cm)	(loc hem stn ser & alb)			wk/ mod carb (ser) (alb) chlr	(ser) (loc cly) carb loc chlr				(chalc) tr cpy	(loc cpy)	loc wk		Hem stained alb and ser alteration envelopes. Some of carb veinlets have chlr veinlet walls. Cpy and chalc in hem stained alteration envelopes around carb veinlets and in carb carb veinlets. Still getting little blobs of metallic hematite. Chalc>cpy.
191.7-196.7	Porphyry	loc thin	wk/mod/loc shatt	mod/stng ser loc chlr, loc cly, carb	(car b.f.f & vnlt) 1 5 cm qtz? vnlt	(loc hem stn ser)			ser wk/ mod carb patchy chlr (cly)	mod/ stng ser loc chlr carb								Phenocryst size variable—still small grained but patches of larger phenocrysts. Alteration increasing. Pervasive ser starts up again ~ 193.3 m. One 5 cm white qtz? veinlet with vugs lined with carb contains elongate green? (to hard to be chlorite). ***get sample cut. Two hem stained alteration envelopes.
196.7-202.1	Porphyry fault zone	200.9- 202.1 m at 15° C.A.	wk/loc bkn crush mill, fault bx	(loc ser), (loc cly), loc carb	(carb f.f. & vnlt) (qtz f.f.)	(loc hem stn ser & cly)			carb chlr ser (cly)	(loc ser) (loc cly) loc carb								Local hem stained alteration envelopes. One patch of chlr and coatings close to fault—in a shear? Local hem stained cly in gouge. Still getting blobs of hem, some look crystalline.
202.1-207.6	Porphyry fault fault fault	202.1-203.0 205.7-206.0 206.9-207.6	wk/mod	(ser) (cly) (chlr) carb	(carb f.f. & vnlt) (qtz vnlt 1-2.5 cm)	(loc hem stn cly & ser)			carb chlr ser cly	(ser) (cly) (chlr) carb				tr cpy		tr/wk		Hem stained cly in gouge. Hem stained ser alteration envelopes. Local chlr pervasive. Local chlr filled shears.
207.6-212.8	fault	207.6- 210.8 m (0-20° C.A.)	wk/fault bx & gge	(loc ser) loc qtz, carb	qtz vnlt 3 mm-1 cm at 30° C.A. (carb f.f.)	hem stn alb & ser			(carb) (loc alb) ser patchy chlr cly	(loc ser) loc qtz carb				wk/ mod chlc (loc cpy)	(loc cpy)	tr/wk		Fault has 20 cm or less intermissions of solie core. Alteration decreasing. Carb in gouge. Hem stained alb alteration envelopes, up to 1 cm across. Locally more cly than mafics. Cpy and chalc in mafic blobs. Qtz veinlets white "bull" qtz. Some of carb fractures sugary calcite.

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary				
								perv.	fract.		perv	fract	perv	fract			
212.8-218.4	Porphyry	some slip	wk/mod	(loc ser) (loc cly) (loc chlr) mod/stng carb	(carb f.f. & vnlt) qtz vnlt 3mm-1.5 cm 30° C.A.	(loc hem stn ser)	-	-	(patchy cly) patchy ser wk/ mod carb chl	(loc ser) (loc cly) (loc chl) mod/ chl	-	-	tr pyr tr cpy	loc tr cpy	tr/wk	Alteration decreasing. Some of carb on fractures. Sugary calcite. Hem stained ser alteration envelopes 1 cm across. Local cpy on slip surfaces very thin; been "plated" on. Pervasive ser varies from weak to intense. Qtz veinlets ± alb The 30° set of veinlets crosscut an older, more transparent, more irregular qtz veinlet. HCl changes colour of green on fracture surfaces.	
218.4-223.5	Porphyry fault zone	219.4- 220.9 m 30° C.A.	wk/mod loc shatt & bkn. crush & fault gge.	(ser) (loc chlr) (loc cly), wk/ mod carb	(carb f.f. & vnlt) 3 qtz vnlt ≤ 1 cm	(loc hem stn alb)	-	-	(carb) patchy ser chl (loc cly) wk/ mod carb	(ser) (loc chl) (loc cly) wk/ mod carb	(loc ep) (loc chl)	-	(chalc) tr/wk cpy	tr/ wk loc stng	Porphyry dykelet?—doesn't crosscut core, just has a slice of it parallel to the core axis from 227.4-227.8 m. May go further but alteration and hem stain disguise it. Greener, larger phenocrysts but ghost-like. Hem stained alb alteration envelopes, very faint along porphyry dykelet contact. Pervasive chl at start of box. Chalc>cpy. Chalc and cpy in mafics along contact and next to contact and in dykelet porphyry. See most of ep in dykelet porphyry, but suspect it is in other porphyry too. Local mag in unsericitized core towards end on box.		
223.5-228.6	Porphyry	loc thin	mod/loc wk loc stng & bkn	(loc ser) (loc chl) carb	(carb f.f. & 1 vnlt)	(loc hem stn alb)	-	-	(loc sil?)	(loc ser) (loc chl) carb	ep chl	-	loc tr chalc	mod/ stng	Porphyry phenocrysts have increased in size slightly. Alteration decreasing. Possibly still has original K-spar. Two aplite dykelets ( 1 & 3 cm) faint, thin local (hem) stained alb alteration envelopes.		
228.6-233.7	Porphyry	loc thin at 30° C.A.	wk/mod, loc shatt	loc ser, (loc chl) (loc cly) carb	(carb f.f.)	(loc hem stn alb & ser)	-	-	loc chl loc ser loc carb loc cly	loc ser (loc chl) (loc cly) carb	tr loc ep (loc chl)	-	loc tr chalc loc tr cpy	loc tr/ wk cpy	mod/ stng	One 1 cm aplite dykelet. Pervasive chl interval 231.3-233.5 m, with pervasive ser and carb and (cly) on fracture coated with crystalline calcite. Local thin (hem) stained alb alteration envelopes, some of which are only 2 mm. Local hem stained ser alteration envelopes. Thick, very well healed fractures. Chalc>cpy (pervasive)	
233.7-239.0	Porphyry	-	stng/bkn loc mod, loc crush	(ser) (loc chl) carb	(qtz vnlt 2-3 cm) (carb f.f.)	(loc hem stn alb & ser)	-	-	(loc carb) (chl)	(ser) (loc chl) carb	(chl?)	-	wk/ mod cpy (pyr) tr chalc	(loc mo) cpy) (pyr)	mod	Hornblende phenocrysts have increased, local sugary calcite on fractures with fine grained mo & cpy. Significant increase in fractured and pervasive cpy. Local (hem) stained ser and alb alteration envelopes on fractures. Cpy>pyr>chalc. Qtz veinlets with hem stained alb ± K-spar cores. Loc mo in qtz veinlet walls. May have 1 also completely assimilated xenolith (237.3 m). Qtz veinlets barren.	

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
		perv.			fract.				perv	fract		perv	fract				
239.0-243.7	Porphyry	loc thin at 30° C.A.	stng/shatt loc mod/bkn	(ser) (loc chlr) mod/stng carb (cly) loc sil	(carb f.f. & 1 vnlt) (qtz vnlt ≤ 0.5 cm)	loc hem stn alb	-	(loc carb) loc ser (alb?) stng carb (cly) loc sil	(ser) (loc chlir) mod/ (cly) loc sil	-	-	wk/ mod cpy (loc chalc)	(cpy) loc tr mo (pyr)	mod		Lose some of hornblende phenocrysts, local pervasive discrete ser with (carb). One 1.5 cm aplite dykelet. Hem stained alb alteration envelopes and patches. Cpy>chalc>pyr (pervasive) Cpy and chalc concentrated in alteration envelopes. Local magnetite. Fractures-cpy>pyr	
243.7-248.4	Porphyry	loc thin	mod/stng loc shatt	(ser) (cly) mod/stng carb (chlir)	(carb f.f. & vnlt) (qtz vnlt to 1 cm)	(loc hem stn alb & ser)	-	(carb) loc sil loc ser chlir stng carb (chlir)	(ser) (cly) mod/ stng carb (chlir)	-	-	(cpy) loc chalc)	(cpy) loc pyr)	wk/ mod		One 1.5 cm aplite dykelet. Hem stained alb and ser alteration envelopes. Cpy>chalc, fractures: cpy>pyr. Most of cpy in alteration envelopes.	
243.4-253.8	Porphyry	loc thin at 50° C.A.	wk/mod, loc stng /shatt	wk/mod ser loc chlir, carb	(carb f.f. & vnlt) qtz vnlt ~ 1cm ± alb 3 alb dyke- lets, <0.5 cm	-	-	chlir (loc ser) loc chlir carb (loc alb) (loc sil)	wk/ mod ser loc chlir carb (loc alb) (loc sil)	-	-	(cpy) tr/wk chalc	(cpy) tr pyr	wk		Ser alteration envelopes. Five aplite dykelet occurrences ~ 1.5 cm thick. (Pervasive) cpy>chalc. One local pyr on fracture, crystalline.	
253.8-257.0	Porphyry	-	mod, loc stng & shatt	(loc cly) ser chlir, carb	(carb f.f.) (qtz vnlt ± alb ± K-spar ≤ 1 cm)	-	-	(loc carb) (chlir alb) (loc sil) (loc ser)	(loc cly) ser loc chlir carb	-	-	(cpy) tr/wk chalc	(cpy)			Thin local ser alteration envelopes. Some of qtz veinlets contain alb and probably K-spar (light salmon pink). Cpy and chalc concentrated in mafics and in alteration envelopes. (Pervasive) cpy>chalc. Noticeable increase in hornblendes towards contact.	
257.0-258.5	Guichon	loc thin	mod/loc shatt loc ckle bx	ser, chlir, carb	(carb f.f.) qtz vnlt up to 1 cm	(loc hem stn alb)	-	(loc K-sp?) (chlir)	ser chlir carb	-	-	(cpy) loc chalc)	(cpy)	wk		Guichon at contact ckle to 257.4 m. Qtz veinlet emplaced before ckle bx. Discrete pervasive chlir. (Pervasive) cpy > chalc. Chlir healed fractures with chalc and cpy in alteration envelopes.	
258.5-264.1	Guichon	-	wk/mod loc bkn	loc ser, chlir loc cly, wk/ mod carb	(carb f.f.) (qtz/alb vnlt <1 cm)	-	-	(loc K-sp) (loc alb)	loc ep loc ser chlir loc cly wk/ mod carb	-	-	(cpy) tr chalc	(loc mo) (loc chalc) (cpy)	wk		Numerous (abundant) chlir and qtz healed fractures. Cpy concentrated in chlir/qtz healed fractures and alteration envelopes. Local mo along fracture. This Guichon does have a porphyry-like texture. Discrete chlir.	
264.1-269.1	Guichon	-	wk/mod loc bkn	ser, chlir, wk/mod carb	(carb f.f.) (qtz vnlt <1 cm)	-	-	(loc alb) chlir	ser chlir wk/ mod carb	-	-	(cpy) (chalc)	(cpy)	wk/ mod		Abundant chlir/qtz healed fractures. Several 5 cm thick patches of chlir core (alteration envelopes?) with cly patches. Discrete chlir. Cpy=chalc (pervasive). Cpy and chalc in chlir qtz healed fractures and in microfractures. Guichon looks a bit like a porphyry.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	perv.		fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
269.1-274.3	Guichon/ Hybrid?	loc thin	wk/loc mod	loc ser, (loc chlr) wk/mod carb	(carb f.f. & 2 vnits) qtz f.f. & vnits <1 cm	-	-	-	(loc alb) chlr (loc K-sp) (sil)	loc ser (loc wk/ mod carb	-	-	(cpy) (patchy chalc)	(cpy) (loc chalc)	tr/wk	Guichon loses porphyry look at 270.2 m. Some of qtz veinlets very faint-fuzzy boundaries. Chlr/qtz healed fractures decreasing. Discrete chlr Local alb alteration envelopes on qtz fracture filling and veinlets. Most of cpy in mafics, in chlr healed fractures and alteration envelopes. Possibly one xenolith, well assimilated at 272.6 m.		
274.3-279.3	Porphyry crowded plag? w/fault/shear	loc thin 55° C.A. 278.6-279.9	mod/loc stng & bkn & crush loc dis bx	wk/mod ser loc cly, carb loc qtz	(carb f.f. vnits to 0.5 cm, thick) (qtz vnits 0.5 -2 cm+)	loc hem stn ser	-	-	(cly) patchy ser chlr loc carb	wk/ mod ser loc cly loc qtz carb	-	-	(cpy) (loc chalc)	(loc pyr) (loc cpy)	loc tr	Local hem stained ser interval 278.6-279.9 m. Only a few patches with just moderate ser alteration. Can't put finger on contact-change at beginning of box. Gradational contact? Qtz veinlet offset by a carb veinlet. Many of qtz veinlets still have "fuzzy" boundaries. Porphyry crushed milled and healed in shear zone. Qtz veinlet dislocation brecciated. Pervasive discrete chlr. Small patches of Guichon-part assimilated, stopped Guichon. Large blobs of cpy ± chalc in qtz veinlets. Qtz, cly, ser healed fractures (chlr gone).		
279.3-284.4	Porphyry grading to Guichon	loc thin ~ 50° C.A. 281.7-281.9	mod/loc stng loc wk	(ser) loc cly carb, wk/mod chlr	(carb f.f. & vnits) (qtz vnits 3 mm-1 cm)	loc hem stn ser	-	-	loc cly loc ser (loc carb) loc sil loc bio loc alb	(ser) loc cly chlr carb	-	-	(cpy) loc tr/ wk chalc	(loc cpy)	-	Porphyry much more strongly altered than Guichon. Seems to be Porphyry interfingering with Guichon. Porphyry has also taken up more of the strain. Local pervasive carb in mafics in Guichon, not in porphyry. Cly ± qtz fracture filling. Hem stained ser in porphyry. Local secondary biotite. Pervasive cpy decreasing. Most chalc in alteration envelopes on qtz veinlets, appears to be more cpy in Guichon. Continuous cpy in core of one qtz veinlet in Guichon.		
284.4-289.6	Guichon (w/ "fingers" of Porphyry)	-	mod/stng loc bkn, loc crush loc crush & healed	(ser) (loc cly) carb, wk/mod chlr	(carb f.f.) (qtz vnits 3 mm-1cm)	loc hem stn ser	-	-	loc cly loc ser chlr carb (loc sil)	(ser) wk/ mod chlr (loc cly) carb	-	-	(cpy) (loc chalc) (loc pyr)	(cpy) (loc pyr)	tr/wk loc mod	Pervasive ser and cly in porphyry. Pervasive local sil in Guichon. Local hem stained ser patches mostly in porphyry but some in Guichon. Pervasive pyr and cpy in aphanitic (aplite?) porphyry (at 287.0-287.3 m)		
289.6-294.6	Guichon (one finger of porphyry at 291.2 m)	loc thin	mod/stng, loc wk, loc shatt, loc crush	loc ser, loc chlr, (carb)	(carb f.f. & vnits) (2 qtz vnits 2 mm-1 cm)	(hem stn alb)	-	-	(carb ) (chlr) loc sil (loc alb) loc ser loc cly	loc ser loc chlr (carb)	-	-	(cpy) tr chalc	(cpy) tr chalc	wk loc mod	Pervasive carb in porphyry and mafics in Guichon. Discrete (hem) stained alb. Chlr healed fractures. Discrete chlr alteration. Local sil alteration envelope on qtz veinlet. One 1 cm chlr and carb and purple fine grained hem veinlet in porphyry. Most of cpy and chalc in chlr healed fractures and microfractures. Back into porphyry-looking Guichon.		

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary				
									perv.	fract.	perv	fract	perv	fract			
294.6-299.6	Guichon (one finger of porphyry? at 297.9-298.3m)		mod/loc stng loc shatt	ser, chl, wk/mod carb	(carb f.f.) 3 qtz vnlt ~ 0.5 cm	(hem stn alb)			loc sil loc alb chl (carb) loc K-sp? loc ser loc cly	ser chl wk/ mod carb			(cpy) tr chalc	(cpy) tr chalc	tr/wk loc mod		Chl discrete halfway through box, more pervasive in last half. (Carb) in mafics. Hem stained alb--patches and discrete local ser in porphyry. Chl ± qtz healed fractures. Cpy and chalc in healed fractures and microfractures. Local thin alb alteration envelopes.
299.6-304.8	Guichon wk fault	300.1- 300.7 m at 50° C.A.	mod/stng, loc shatt, fract set at 50° C.A.	(ser) wk/mod chl, carb	(carb f.f. & vnlt)	loc hem stn ser & alb			patchy sil ser loc ser chl loc alb	(ser) wk/ mod chl carb			(cpy) tr chalc	(cpy) tr chalc	tr/wk		One section of core in weak fault. Fault/dislocation breccia with ? in matrix (looks like same stuff sampled at _____ m.) Hem stained ser patch and local discrete hem stained alb. One chl healed fracture/patch with cly patches. Cpy only in fractures in pervasive alb core.
304.8-309.8	Guichon		wk/mod, loc shatt loc ckle bx	loc ser, loc chl, carb	tr carb f.f.	(loc hem stn alb)			loc sil (alb) (chl)	loc ser loc chl carb loc ep	(chl) tr ep		tr cpy	wk/ mod cpy loc chalc loc pyr	tr/wk		Alteration decreasing. One grey brown fine grained porphyry dykelet at 307.9 m. One patch of hem stained alb around a patch of chl. Three 2 cm+ bands of chl with clay patches--healed shears? ~ 50° C.A. Discrete chl. Just about all cpy now in fractures. Chl healed fractures. Cpy decreasing. Guichon still has porphyry like appearance.
309.8-315.4	Guichon		wk, loc mod, dominant fract set ~ 40-50° C.A.	chl, wk/mod ser, wk/mod carb	(carb f.f. & 1 vnlt) (loc qtz vnlt)	(loc hem stn ser & alb)			(patchy sil) loc alb loc ser (chl)	loc ep chl wk/ mod ser & carb	chl? tr ep		tr cpy	loc mo (cpy)	mod		Molybdenite smeared on a slip surface/qtz veinlet almost parallel to the core axis. Qtz veinlet contains large blobs of cpy. One carb/ep veinlet. One patch of hem stained ser, hem stained alb alteration envelope on ep/carb veinlet. Ser alteration envelopes on qtz veinlets. Discrete chl.
315.4-320.4	Guichon		wk/mod loc shatt	loc chl, (ser) (carb)	(carb f.f. & 1 vnlt) (2 qtz vnlt ~ 1 cm, 40° C.A.)	loc hem stn ser & alb			tr carb (alb) loc sil chl loc ser	loc chl (ser) (carb)			tr cpy	cpy	wk/ mod		Pervasive trace of carb in mafics. Hem stained alb and ser alteration envelopes. Set of fractures almost parallel to 10° from C.A. healed with chl (dark green to black and is "wavy" in spots) with an impressive amount of cpy. Pervasive sil patches and alteration envelopes. Discrete chl. Discrete ser alteration envelopes. Pervasive ser patches where Guichon has almost lost its texture. Just about all cpy in fractures, microfractures or just into alteration envelope.
320.4-326.1	Guichon	some slip	wk/mod, loc bkn	ser, chl, (loc carb)	(carb f.f. & 1 vnlt)	(hem stn alb/ser)			loc sil loc alb loc ser (chl)	ser chl (loc carb) ep	(chl?) tr ep		(loc cpy)	(loc mo) (cpy)	loc mod		Guichon still has porphyry looking patches. Hem stained ser and alb more "discrete". Ep healed fractures. Local weak developed ser and alb alteration envelopes (one 1 cm thicker ser envelope) Still have 0-10° chl healed fracture set, but with much less cpy.

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
								perv.	fract.		perv	fract	perv	fract				
326.1-331.0	Guichon	some slip	mod/shatt loc bkn	ser, chlr, wk/mod carb	(carb f.f. 2 vnlt, 0.5 & 1 cm)	hem stn alb & ser	-	-	loc alb loc ser (chlr) (loc sil)	ser chlr wk/ mod carb	-	-	(loc cpy)	(cpy) (loc pyr)			Hem stained ser alteration envelopes. Discrete hem stained alb throughout box. One cm carb veinlet contains clasts of Guichon. Discrete pervasive chlr. Chlr healed fractures.	
331.0-335.6	Guichon fault	331.4- 334.8m 30° C.A.	mod/bkn crushed, loc dis bx & ckle bx	ser, (loc chlr) cly, carb	(qtz vnlt ~ 0.5 cm & vnlt frags) (carb f.f.)	(loc hem stn ser)	-	-	loc sil (carb) ser chlr cly	ser (loc chlr) cly carb	-	-	tr/wk cpy tr/wk pyr	loc mo (loc cpy) (loc pyr)	wk		Pervasive alteration increasing after fault. Local sil before fault. Hem stained ser alteration envelopes. Molybdenite in qtz veinlets. Most of cpy in or along qtz veinlets.	
335.6-339.9	Guichon	loc thin	stng/shatt & bkn, loc ckle bx	(ser) (loc chlr) (cly) wk/mod carb	(carb vnlt & f.f.)	(loc hem stn ser & alb)	-	-	(loc carb) loc sil (loc alb) loc ser chlr	(ser) (loc chlr) (cly) wk/ mod carb	-	-	tr cpy	loc pyr (cpy) loc mo	wk/ mod		Alteration decreasing. Local ser to 335.9 m. Pervasive chlr changing to discrete chlr. Just about all cpy in qtz/chlr healed fractures (still have some chlr and cpy healed 0-5° C.A. fracture set.)	
339.9-344.9 (342.0-342.1)	Guichon hbde/plag Porphyry	loc thin	mod/stng loc bkn	ser, (chlr) wk/mod carb loc cly	(carb vnlt & f.f.) (qtz vnlt <0.5 cm)	(loc hem stn alb)	(loc hem coating)	-	-	(loc sil) (chlr) loc ser (loc alb)	ser (chlr) wk/ mod carb loc cly	(loc ep)	-	(loc cpy) (loc pyr)	(loc cpy) (loc pyr)	mod, loc stng		Two of carb veinlets contain fine grained purplish red hem. One porphyry dykelet, relatively sharp contact with Guichon. Local secondary biotite. Discrete chlr. Local pervasive discrete ser in wide diffuse alteration envelopes. Just about all cpy (and pyr) in chlr + qtz healed fractures and alteration envelopes. Discrete hem stain and alb and one hem stained alb alteration envelope.
344.9-349.8 ~~~~	Guichon fault	347.0- 348.2 m	mod/stng, loc wk, loc bkn loc crush	wk/mod ser chlr, (cly) carb	(carb f.f. & vnlt)	(loc hem stn alb)	-	-	carb chlr ser loc cly loc alb carb	wk/ mod ser chlr (cly) carb	-	-	(loc mo) tr pyr (patchy cpy)	(loc cpy) (loc pyr)	loc mod		Hem stained alb alteration envelopes. Local secondary biotite. Pervasive cpy increasing slightly, but still most cpy in qtz /chlr healed fractures and microfractures and alteration envelopes.	
349.8-354.9	Guichon	loc thin	mod/stng, loc shatt/bkn loc ckle bx & gge	loc sil, (ser) (cly) chlr	(carb f.f. & vnlt)	patchy hem stn ser & alb	-	-	loc ser chlr (loc alb) (loc sil)	loc sil (ser) (cly) chlr	-	-	tr wk cpy tr pyr	(loc cpy) loc tr pyr	tr/wk loc mod		Carb veinlets contain fine grained red purple hem patches and alteration envelopes of hem stained ser and alb. Local secondary biotite. Still most of cpy in chlr healed fractures, the majority of those and those containing cpy at a shallow angle to the core axis.	
354.9-359.6 ~~~~	Guichon wk fault	355.1- 356.1 m	mod/shatt/bkn loc crush & gge	ser, loc chlr loc cly, carb	(carb f.f. & vnlt up to 1 cm)	(loc hem stn alb)	-	-	(carb ) loc ser loc chlr loc alb loc sil	ser loc chlr loc cly carb	-	-	(loc cpy)	(cpy) (loc pyr)	wk/ mod		Discrete hem stained alb. Local alb patches.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	Supergene		primary				
									perv.	fract.		perv	fract	perv				fract
359.6-364.5	Guichon	-	mod, loc shatt & bkn, loc wk, set at 0 & 70° C.A.	loc ser, loc chlr, carb	(carb f.f. & vnits up to 1 cm) 2 qtz vnits < 0.5 cm	(loc hem stn alb)	-	-	loc sil chlr (loc ser) (loc alb)	loc ser loc chlr carb	loc chlr? tr ep	-	-	(loc cpy)	(loc mo) (loc cpy) loc tr pyr	mod/ stng	Alteration decreasing. A few chlr healed fractures. The fractures with a small angle to the core axis more likely to have ser, chlr, and pyr; but, all fractures have carb coating. Pervasive sil decreases through box. Qtz and chlr veinlets/ healed fractures. One containing mo, and cpy. Local secondary biotite, ser alteration envelopes, pervasive hem stain decreasing. Cpy in alteration envelopes, and fractures. One crystalline carb veinlet with blobs fo cpy. Local alb alteration envelopes on qtz veinlets. Alb alteration more subtle.	
364.5-369.2	Guichon	some slip	mod, loc wk loc shatt/bkn	mod/stng ser (cly) loc chlr carb	(carb f.f. & 1 0.5 cm vnlt) 1 qtz/ chlr f.f.	-	-	-	tr alb (chlr)	mod/ stng ser cly loc chlr carb	chlr?	-	-	(loc cpy)	(pyr) (loc cpy)	mod/ stng	Noticeable increase of ser on fractures. A few chlr healed fractures. Local chlr on fractures with local angle to core axis and also tend to be slip surfaces. Discrete chlr alteration. Cpy in some fractures and in mafics in alteration envelopes. Pyr > cpy on fractures.	
369.2-373.7	Guichon	loc thin at 45° C.A.	mod/stng loc shatt	ser (cly) loc chlr, carb	(carb f.f.)	(loc hem stn alb)	-	-	(alb) (chlr)	ser (cly) loc chlr carb ep	chlr? tr ep	-	-	tr pyr (loc cpy)	(pyr) (loc cpy)	mod/ stng	Two ep/carb fracture filling. Discrete hem stained alb alteration envelopes. Secondary biotite. One chlr/qtz healed fracture (10° C.A.) containing cpy. Pyr>cpy pervasive and fractures.	
373.7-378.6	Guichon	some slip	mod, loc stng & shatt, loc wk fract set // to C.A.	ser (cly) chlr wk/mod carb	(carb f.f.) & 1 5 cm vnlt (qtz f.f.)	-	-	loc ser loc sil (chlr) tr/wk alb	ser (cly) chlr wk/ mod carb	chlr?	-	-	(loc cpy)	(loc cpy) (loc pyr)	mod/ stng	Fracture set and chlr and qtz healed fractures parallel to the core axis. 5 cm carb "veinlet" contains fragments of bleached Guichon and some of carb red from fine grained red-purple hematite. Loc discrete ser envelope on carb veinlet and ser alteration envelopes. Local pervasive cpy in alteration envelopes at chlr healed fractures parallel to the core axis.		
378.6-383.0	Guichon	loc thin	mod/bkn loc wk	mod/stng ser (cly) (loc sil) loc chlr	(carb f.f.)	(loc hem stn alb)	-	-	tr/wk alb (chlr) loc ser	mod/ stng ser (cly) (loc sil) loc chlr	-	-	-	(loc cpy)	(loc cpy) loc pyr	mod/ stng	One hem stained alb alteration envelope on a chlr healed fracture with cpy. Discrete weak ser alteration envelopes on fractures.	
383.0-387.8 -----	Guichon fault (weakly developed, several pieces of competent Guichon)	384.9- 386.6 m	mod/ckle bx loc crush	ser, cly (loc chlr) (carb)	(carb f.f.) & 1 vnlt < 0.5 cm)	(loc hem stn alb)	-	-	loc ser (chlr) (loc alb)	ser cly (loc chlr) (carb)	(chlr?) loc ep	-	-	(pyr) (loc cpy)	mod/ stng	Local hem stained alb alteration envelopes on chlr healed fractures. One patch of pervasive ser, still discrete chlr alteration. Still most pyr and cpy concentrated along chlr healed fractures almost parallel to the core axis. Pyr>cpy.		

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
387.8-392.7	Guichon	loc slip	wk/mod loc shatt/bkn	ser, loc chlr carb	(carb f.f.) (qtz vnlt < 0.5 cm)	(loc hem stn alb & ser)	-	-	(loc alb?) loc ser (chl)	ser loc chlr carb	(chl?)	-	-	(loc pyr)	(pyr)	mod/ stng	Chlr ± qtz healed fractures. Local hem stained alb on qtz veinlets. (Hem) stain on qtz/chlr fracture filling, one ser patch, thin discrete ser alteration on fractures. Local pervasive pyr in alteration envelopes.	
392.7-396.8	Guichon fault	~ 392.7- 396.8 m	bkn, loc mod/ stng, loc ckle bx	sil, cly, ser, loc chlr, mod/stng carb	(carb f.f.) (qtz/chlr vnlt to 0.5 cm & f.f.)	(hem stn alb /ser)	-	-	loc sil loc ser chl	loc ep sil cly ser mod/ stng carb	-	-	(loc cpy) (loc pyr)	loc cpy loc mo (loc pyr)	mod/ stng	Local secondary biotite. Hard to judge start of fault: almost all core is broken with varying amounts of gouge as well as competent sections. Chlr 4 mm "veinlet" with ep core. Qtz and chlr veinlets and fracture filling parallel to the core axis Hem stained alb and ser alteration envelopes. Ser alteration where ckled. Discrete chl—getting stronger and more pervasive at end of box. Cpy (and mo) picks up along qtz and chlr veinlets par- allel to the core axis along which have also been fractures (faulted) and filled with gouge. Cpy>pyr Competent unckled core has been moderately silicified.		
396.8-401.3	Guichon fault zone	396.8- ~ 400.8 m	stng/bkn, loc mod, loc ckled crush & gge fault bx	ser, chlr, cly (carb), loc sil	(carb f.f.) (qtz vnlt)	(loc hem stn alb) loc hem stn cly in gge	loc hem stn cly	-	chl patchy sil (carb) loc ser	ser chl cly (carb) loc sil	-	-	tr/wk pyr	(loc cpy) (pyr) (loc mo?)	loc mod	Alteration increasing. Fault zone (intervals of gouge with strongly fractures by competent core) Strong increase in pervasive chlr carb. Qtz veinlet fragments in fault bx. Pyr>cpy. Cpy along a few fractures and in fault bx. Suspect mo along carb veinlet (dark grey, very fine grained).		
401.3-405.7	Guichon	-	wk/mod loc shatt/bkn	(ser) loc chlr carb	( 1 carb vnlt)	(loc hem stn alb)	-	-	(loc sil) (loc ser)	(ser) loc chlr carb	tr ep (chl)	-	-	(pyr)	mod	Alteration decreasing. Pyr preferentially mineralized on fractures parallel to the core axis. Local hem stained alb alteration envelopes. Local ser alteration envelopes.		
EOH 405.7 m																		



Northing: 5604066.5		DDH 96-3				Azimuth: 135			
Easting: 641576.8		Elevation: 1741.2 m				Inclination: -75			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27810	11.0	12.5	0.20	0.09	-	-	-	-	Guichon/Hybrid:
27811	12.5	14.0	0.31	0.17	-	-	-	-	"
27812	14.0	15.5	0.19	0.06	-	-	-	-	"
27813	15.5	17.0	0.17	0.07	-	-	-	-	Guichon:
27814	17.0	18.5	0.75	0.55	-	-	-	-	fault
27815	18.5	20.0	0.29	0.42	-	-	-	-	"
27816	20.0	21.5	0.61	0.44	-	-	-	-	"
27817	21.5	23.0	0.67	0.46	-	-	-	-	"
27818	23.0	24.5	0.70	0.51	-	-	-	-	"
27819	24.5	26.0	1.77	1.38	-	-	-	-	"
27820	26.0	27.5	1.44	1.13	-	-	-	-	"
27821	27.5	29.0	1.49	1.14	-	-	-	-	"
27822	29.0	30.5	1.62	1.11	-	-	-	-	"
27823	30.5	32.0	0.99	0.72	-	-	-	-	fault zone (60 cm)
27824	32.0	33.5	1.18	0.87	-	-	-	-	"
27825	33.5	35.0	0.67	0.48	-	-	-	-	"
27826	35.0	36.5	0.53	0.41	-	-	-	-	fault zone
27827	36.5	38.0	0.35	0.23	-	-	-	-	"
27828	38.0	39.5	0.39	0.28	-	-	-	-	"
27829	39.5	41.0	0.47	0.34	-	-	-	-	Bethlehem?:
27830	41.0	42.5	0.62	0.48	-	-	-	-	"
27831	42.5	44.0	0.54	0.33	-	-	-	-	"
27832	44.0	45.5	0.60	0.43	-	-	-	-	Guichon:
27833	45.5	47.0	0.53	0.33	-	-	-	-	fault
27834	47.0	48.5	0.50	0.28	-	-	-	-	"
27835	48.5	50.0	0.57	0.34	-	-	-	-	"
27836	50.0	51.5	0.61	0.39	-	-	-	-	"
27837	51.5	53.0	0.53	0.28	-	-	-	-	"
27838	53.0	54.5	0.48	0.31	-	-	-	-	"
27839	54.5	56.0	0.61	0.41	-	-	-	-	Guichon/Hybrid:
27840	56.0	57.5	0.50	0.36	-	-	-	-	"
27841	57.5	59.0	0.52	0.30	-	-	-	-	"
27842	59.0	60.5	0.90	0.57	-	-	-	-	"
27843	60.5	62.0	0.51	0.29	-	-	-	-	"
27844	62.0	63.5	0.31	0.19	-	-	-	-	Porphyry (20 cm)
27845	63.5	65.0	0.44	0.26	-	-	-	-	Guichon:
27846	65.0	66.5	0.32	0.14	-	-	-	-	"
27847	66.5	68.0	0.60	0.38	-	-	-	-	fault (20 cm)
27848	68.0	69.5	0.90	0.65	-	-	-	-	"
27849	69.5	71.0	0.53	0.35	-	-	-	-	"
27850	71.0	72.5	0.58	0.37	-	-	-	-	fault
27851	72.5	74.0	0.49	0.30	-	-	-	-	fault
27852	74.0	75.5	0.54	0.35	-	-	-	-	fault
27853	75.5	77.0	0.53	0.34	-	-	-	-	"
27854	77.0	78.5	0.24	0.10	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27855	78.5	80.0	0.38	0.04	-	-	-	-	Porphyry D3 (60 cm)
27856	80.0	81.5	0.18	-	0.6	0.017	5	<.001	"
<b>Intervals 81.5-95.0 m were not split or assayed = Tertiary Volcanics</b>									"
27857	95.0	96.5	0.29	-	0.3	0.009	5	0.001	Hybrid/Guichon:
27858	96.5	98.0	0.37	-	0.3	0.009	5	0.001	"
27859	98.0	99.5	0.50	-	1.2	0.035	5	<.001	"
27860	99.5	101.0	0.38	-	0.8	0.023	5	<.001	"
27861	101.0	102.5	0.52	-	0.1	0.003	5	<.001	Porphyry (D3);
27862	102.5	104.0	0.03	-	0.1	0.003	5	<.001	wk fault
27863	104.0	105.5	0.02	-	0.1	0.003	5	<.001	Porphyry:
27864	105.5	107.0	0.03	-	0.1	0.003	5	<.001	fault zone
27865	107.0	108.5	0.03	-	0.1	0.003	5	<.001	"
27866	108.5	110.0	0.03	-	0.1	0.003	5	0.001	fault (60 cm)
27867	110.0	111.5	0.04	-	0.1	0.003	5	<.001	"
27868	111.5	113.0	0.04	-	0.1	0.003	5	0.001	"
27869	113.0	114.5	0.04	-	0.1	0.003	5	<.001	Porphyry (D3):
27870	114.5	116.0	0.02	-	0.1	0.003	5	<.001	"
27871	116.0	117.5	0.02	-	0.1	0.003	5	<.001	"
27872	117.5	119.0	0.01	-	0.1	0.003	5	<.001	"
27873	119.0	120.5	0.02	-	0.1	0.003	5	0.001	"
27874	120.5	122.0	0.02	-	0.1	0.003	5	<.001	Porphyry:
27875	122.0	123.5	0.02	-	0.1	0.003	5	<.001	fault (50 cm)
27876	123.5	125.0	0.05	-	0.1	0.003	5	<.001	"
27877	125.0	126.5	0.04	-	0.2	0.006	5	<.001	"
27878	126.5	128.0	0.10	-	0.1	0.003	5	<.001	"
27879	128.0	129.5	0.09	-	0.1	0.003	5	0.001	"
27880	129.5	131.0	0.07	-	0.2	0.006	5	<.001	"
27881	131.0	132.5	0.57	-	1.7	0.05	5	<.001	"
27882	132.5	134.0	0.58	-	1.8	0.052	5	<.001	"
27883	134.0	135.5	0.46	-	1.6	0.047	5	<.001	"
27884	135.5	137.0	0.51	-	2.0	0.058	5	<.001	"
27885	137.0	138.5	0.58	-	2.1	0.061	5	0.001	"
27886	138.5	140.0	0.38	-	1.3	0.038	5	<.001	"
27887	140.0	141.5	0.35	-	1.1	0.032	5	<.001	"
27888	141.5	143.0	0.38	-	1.0	0.029	5	<.001	"
27889	143.0	144.5	0.14	-	0.1	0.003	5	<.001	"
27890	144.5	146.0	0.05	-	0.1	0.003	5	0.001	"
27891	146.0	147.5	0.02	-	0.1	0.003	5	<.001	"
27892	147.5	149.0	0.01	-	0.1	0.003	5	<.001	"
27893	149.0	150.5	0.25	-	0.8	0.023	5	<.001	"
27894	150.5	152.0	0.31	-	1.0	0.029	5	0.001	"
27895	152.0	153.5	0.25	-	1.0	0.029	5	<.001	"
27896	153.5	155.0	0.31	-	0.9	0.026	5	<.001	"
27897	155.0	156.5	0.25	-	0.8	0.023	5	<.001	"
27898	156.5	158.0	0.18	-	0.5	0.015	5	0.001	"
27899	158.0	159.5	0.19	-	0.5	0.015	5	<.001	"
27900	159.5	161.0	0.13	-	0.2	0.006	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27901	161.0	162.5	0.12	-	0.4	0.012	5	<.001	Porphyry:
27902	162.5	164.0	0.19	-	0.6	0.017	5	0.001	"
27903	164.0	165.5	0.21	-	0.8	0.023	5	<.001	"
27904	165.5	167.0	0.26	-	0.8	0.023	5	<.001	"
27905	167.0	168.5	0.18	-	0.7	0.02	5	<.001	"
27906	168.5	170.0	0.86	-	3.6	0.105	30	0.001	"
27907	170.0	171.5	0.74	-	2.8	0.082	35	<.001	"
27908	171.5	173.0	0.26	-	0.3	0.009	5	<.001	fault
27909	173.0	174.5	0.18	-	0.2	0.006	5	<.001	"
27910	174.5	176.0	0.17	-	0.4	0.012	5	<.001	"
27911	176.0	177.5	0.07	-	0.1	0.003	5	<.001	"
27912	177.5	179.0	0.12	-	0.1	0.003	5	0.001	"
27913	179.0	180.5	0.06	-	0.1	0.003	5	<.001	"
27914	180.5	182.0	0.07	-	0.1	0.003	5	<.001	"
27915	182.0	183.5	0.09	-	0.1	0.003	5	<.001	"
27916	183.5	185.0	0.07	-	0.1	0.003	5	<.001	"
27917	185.0	186.5	0.07	-	0.1	0.003	5	<.001	"
27918	186.5	188.0	0.10	-	0.2	0.006	5	<.001	"
27919	188.0	189.5	0.08	-	0.1	0.003	5	<.001	"
27920	189.5	191.0	0.05	-	0.2	0.006	5	<.001	"
27921	191.0	192.5	0.07	-	0.1	0.003	5	<.001	"
27922	192.5	194.0	0.03	-	0.1	0.003	5	<.001	"
27923	194.0	195.5	0.06	-	0.1	0.003	5	<.001	"
27924	195.5	197.0	0.03	-	0.1	0.003	5	<.001	fault zone
27925	197.0	198.5	0.02	-	0.1	0.003	5	<.001	"
27926	198.5	200.0	0.05	-	0.1	0.003	5	0.001	"
27927	200.0	201.5	0.04	-	0.1	0.003	5	<.001	"
27928	201.5	203.0	0.06	-	0.1	0.003	5	<.001	fault
27929	203.0	204.5	0.08	-	0.1	0.003	5	<.001	"
27930	204.5	206.0	0.09	-	0.1	0.003	5	0.001	fault
27931	206.0	207.5	0.08	-	0.1	0.003	5	<.001	fault
27932	207.5	209.0	0.13	-	0.1	0.003	5	<.001	fault
27933	209.0	210.5	0.20	-	0.5	0.015	5	<.001	"
27934	210.5	212.0	0.24	-	1.2	0.035	5	<.001	"
27935	212.0	213.5	0.43	-	1.5	0.044	5	<.001	"
27936	213.5	215.0	0.14	-	0.6	0.017	5	<.001	"
27937	215.0	216.5	0.16	-	0.2	0.006	5	<.001	"
27938	216.5	218.0	0.13	-	0.1	0.003	5	0.001	"
27939	218.0	219.5	0.16	-	0.6	0.017	5	<.001	"
27940	219.5	221.0	0.08	-	0.1	0.003	5	<.001	fault zone
27941	221.0	222.5	0.20	-	0.7	0.02	5	<.001	"
27942	222.5	224.0	0.08	-	0.3	0.009	5	0.001	"
27943	224.0	225.5	0.08	-	0.2	0.006	5	<.001	"
27944	225.5	227.0	0.03	-	0.1	0.003	5	<.001	"
27945	227.0	228.5	0.02	-	0.1	0.003	5	<.001	"
27946	228.5	230.0	0.03	-	0.1	0.003	5	0.001	"
27947	230.0	231.5	0.06	-	0.1	0.003	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27948	231.5	233.0	0.07	-	0.1	0.003	5	<.001	Porphyry:
27949	233.0	234.5	0.04	-	0.2	0.006	5	<.001	"
27950	234.5	236.0	0.24	-	0.4	0.012	5	0.006	"
27951	236.0	237.5	0.27	-	0.6	0.017	5	0.003	"
27952	237.5	239.0	0.47	-	0.9	0.026	5	0.014	"
27953	239.0	240.5	0.52	-	0.1	0.01	5	0.004	"
27954	240.5	242.0	0.47	-	0.1	0.01	5	0.006	"
27955	242.0	243.5	0.47	-	0.1	0.01	5	0.005	"
27956	243.5	245.0	0.32	-	0.1	0.01	5	0.006	"
27957	245.0	246.5	0.51	-	0.1	0.01	10	0.003	"
27958	246.5	248.0	0.77	-	1.4	0.04	10	0.003	"
27959	248.0	249.5	0.53	-	0.3	0.01	5	0.002	"
27960	249.5	251.0	0.49	-	0.8	0.02	15	0.001	"
27961	251.0	252.5	0.36	-	0.2	0.01	5	0.001	"
27962	252.5	254.0	0.38	-	0.1	0.01	5	0.002	"
27963	254.0	255.5	0.40	-	0.1	0.01	5	<.001	"
27964	255.5	257.0	0.31	-	0.2	0.01	5	0.03	"
27965	257.0	258.5	0.36	-	0.2	0.01	5	0.002	Guichon:
27966	258.5	260.0	0.42	-	0.5	0.02	5	<.001	"
27967	260.0	261.5	0.64	-	0.6	0.02	5	0.003	"
27968	261.5	263.0	0.48	-	0.1	0.01	5	0.01	"
27969	263.0	264.5	0.49	-	0.3	0.01	5	0.002	"
27970	264.5	266.0	0.60	-	0.5	0.02	10	0.01	"
27971	266.0	267.5	0.37	-	0.2	0.01	5	0.002	"
27972	267.5	269.0	0.42	-	0.3	0.01	5	0.001	"
27973	269.0	270.5	0.43	-	0.1	0.01	5	0.001	Guichon/Hybrid?:
27974	270.5	272.0	0.46	-	0.1	0.01	5	0.001	"
27975	272.0	273.5	0.51	-	0.2	0.01	5	0.002	"
27976	273.5	275.0	0.50	-	0.4	0.01	5	0.001	Porphyry:
27977	275.0	276.5	0.48	-	0.2	0.02	5	0.004	(crowded plag?)
27978	276.5	278.0	0.72	-	2.2	0.06	5	<.001	"
27979	278.0	279.5	0.69	-	0.6	0.01	5	0.022	"
27980	279.5	281.0	0.43	-	0.1	0.01	5	0.005	Porphyry grading
27981	281.0	282.5	0.50	-	0.1	0.01	5	0.001	to Guichon:
27982	282.5	284.0	0.47	-	0.2	0.01	5	0.001	"
27983	284.0	285.5	0.41	-	0.2	0.01	5	<.001	Guichon w/
27984	285.5	287.0	0.44	-	0.2	0.01	5	<.001	"fingers" of
27985	287.0	288.5	0.35	-	0.1	0.01	5	0.007	Porphyry
27986	288.5	290.0	0.30	-	0.1	0.01	5	0.001	"
27987	290.0	291.5	0.33	-	0.1	0.01	5	0.001	Guichon:
27988	291.5	293.0	0.45	-	0.1	0.01	5	0.001	"
27989	293.0	294.5	0.30	-	0.1	0.01	5	0.002	"
27990	294.5	296.0	0.48	-	0.4	0.01	5	0.001	"
27991	296.0	297.5	0.57	-	0.5	0.02	5	0.001	"
27992	297.5	299.0	0.38	-	0.2	0.01	5	0.002	"
27993	299.0	300.5	0.50	-	1.0	0.03	5	0.002	wk fault (60 cm)
27994	300.5	302.0	0.36	-	0.3	0.01	5	0.004	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
27995	302.0	303.5	0.17	-	0.1	0.01	5	<.001	Guichon:
27996	303.5	305.0	0.28	-	0.5	0.01	5	0.002	"
27997	305.0	306.5	0.26	-	0.1	0.01	5	0.001	"
27998	306.5	308.0	0.22	-	0.3	0.01	5	0.001	"
27999	308.0	309.5	0.19	-	0.1	0.01	5	0.001	"
28000	309.5	311.0	0.25	-	0.4	0.01	5	0.001	"
<b>Tag #'s 28001 to 29350 were not used</b>									"
29351	311.0	312.5	0.33	-	0.3	0.01	5	0.013	"
29352	312.5	314.0	0.30	-	0.4	0.01	5	0.002	"
29353	314.0	315.5	0.22	-	0.5	0.02	5	<.001	"
29354	315.5	317.0	0.33	-	0.1	0.01	5	0.004	"
29355	317.0	318.5	0.77	-	0.2	0.01	5	0.002	"
29356	318.5	320.0	0.23	-	0.2	0.01	5	0.002	"
29357	320.0	321.5	0.17	-	0.1	0.01	5	0.001	"
29358	321.5	323.0	0.33	-	0.1	0.01	5	0.001	"
29359	323.0	324.5	0.30	-	0.3	0.01	5	0.002	"
29360	324.5	326.0	0.31	-	0.1	0.01	5	0.008	"
29361	326.0	327.5	0.48	-	0.2	0.01	5	0.004	"
29362	327.5	329.0	0.29	-	0.2	0.01	5	0.002	"
29363	329.0	330.5	0.28	-	0.1	0.01	5	0.001	"
29364	330.5	332.0	0.57	-	0.7	0.02	5	0.003	fault (40 cm)
29365	332.0	333.5	0.37	-	0.2	0.01	5	0.005	"
29366	333.5	335.0	0.40	-	0.2	0.01	5	0.005	"
29367	335.0	336.5	0.33	-	0.1	0.01	5	0.005	"
29368	336.5	338.0	0.41	-	0.2	0.01	5	0.01	"
29369	338.0	339.5	0.38	-	0.1	0.01	5	<.001	"
29370	339.5	341.0	0.49	-	0.1	0.01	5	0.032	"
29371	341.0	342.5	0.39	-	0.1	0.01	5	0.003	(Hbde/Plag Porph 10 cm)
29372	342.5	344.0	0.41	-	0.2	0.01	5	0.009	fault
29373	344.0	345.5	0.42	-	0.1	0.01	5	0.025	"
29374	345.5	347.0	0.40	-	0.1	0.01	5	0.008	"
29375	347.0	348.5	0.35	-	0.1	0.01	5	0.004	"
29376	348.5	350.0	0.31	-	0.1	0.01	5	0.006	"
29377	350.0	351.5	0.45	-	0.1	0.01	5	0.025	"
29378	351.5	353.0	0.35	-	0.1	0.01	5	0.002	"
29379	353.0	354.5	0.38	-	0.1	0.01	5	0.007	"
29380	354.5	356.0	0.41	-	0.1	0.01	5	0.006	wk fault (1 m)
29381	356.0	357.5	0.54	-	0.1	0.01	5	0.005	"
29382	357.5	359.0	0.36	-	0.1	0.01	5	<.001	"
29383	359.0	360.5	0.33	-	0.1	0.01	5	0.006	"
29384	360.5	362.0	0.24	-	0.1	0.01	5	0.032	"
29385	362.0	363.5	0.24	-	0.1	0.01	5	0.006	"
29386	363.5	365.0	0.28	-	0.3	0.01	5	0.002	"
29387	365.0	366.5	0.29	-	0.3	0.01	5	0.001	"
29388	366.5	368.0	0.18	-	0.5	0.02	5	<.001	"
29389	368.0	369.5	0.13	-	0.3	0.01	5	0.001	"
29390	369.5	371.0	0.06	-	0.1	0.01	5	0.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29391	371.0	372.5	0.05	-	0.1	0.01	5	0.001	Guichon:
29392	372.5	374.0	0.12	-	0.3	0.01	5	<.001	"
29393	374.0	375.5	0.15	-	0.2	0.01	5	0.004	"
29394	375.5	377.0	0.14	-	0.2	0.01	5	0.001	"
29395	377.0	378.5	0.24	-	0.5	0.02	5	0.002	"
29396	378.5	380.0	0.05	-	0.4	0.01	5	<.001	"
29397	380.0	381.5	0.30	-	0.6	0.02	5	0.001	"
29398	381.5	383.0	0.08	-	0.3	0.01	5	<.001	"
29399	383.0	384.5	0.11	-	0.1	0.01	5	<.001	"
29400	384.5	386.0	0.09	-	0.3	0.01	5	<.001	weakly developed
29401	386.0	387.5	0.11	-	0.2	0.01	5	<.001	fault
29402	387.5	389.0	0.10	-	0.4	0.01	5	0.007	"
29403	389.0	390.5	0.07	-	0.4	0.01	5	<.001	"
29404	390.5	392.0	0.06	-	0.5	0.02	5	0.001	"
29405	392.0	393.5	0.22	-	0.1	0.01	5	0.002	fault
29406	393.5	395.0	0.10	-	0.2	0.01	5	0.001	"
29407	395.0	396.5	0.32	-	0.4	0.01	5	0.002	"
29408	396.5	398.0	0.46	-	0.2	0.01	5	0.009	fault zone
29409	398.0	399.5	0.21	-	0.4	0.01	5	<.001	"
29410	399.5	401.0	0.10	-	0.1	0.01	5	<.001	"
29411	401.0	402.5	0.04	-	0.1	0.01	5	<.001	"
29412	402.5	404.0	0.03	-	0.2	0.01	5	<.001	"
29413	404.0	405.5	0.03	-	0.1	0.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 96-4		Date		02-Feb		Logged by		F.M											
Elevation		1741.2 m		Azimuth		-55°		Northing:		5604066.6									
Inclination		315°		Length		207.3 m		Easting:		641576.8									
ROCK TYPE		STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary						
									perv.	fract.	perv	fract	perv	fract					
0-9.1	Overburden and casing																		
9.1-13.1	Guichon		bkn, loc shatt (ckle bx)	cly, tr ser	qtz vnlt 0.5 - 2 cm		jar stn cly & coatings (loc grn- Cu oxide stn ser)	Fe (cly)	(chl (cly?)	cly tr ser						loc tr	Core ckle brecciated then broken during drilling. Discrete pervasive chl alteration. The trace amount of ser on fractures is green Cu oxide stained.		
13.1-17.6	Guichon/ Hybrid		ckle bx & bkn	(loc ser?) (cly)	qtz vnlt to 2 cm		(loc grn Cu oxide stn ser, & cly) jar stn cly & coatings	Fe (cly)	(chl (loc sil) (cly)	(loc ser?) (cly)			(loc chrys)		(loc pyr)	loc tr	Ckle breccia a little more competent. One xenolith ~ 16.5 - 16.6 m that has been brecciated with jar and some chrys and pyr in matrix. Also contains pink clay patches. Green Cu oxide stained ser and chrys increasing. Jar coatings > Jar stained cly.		
17.6-20.4	Guichon/ Hybrid		ckle bx & bkn	(cly) loc sil (loc ser?)	qtz vnlt to 1 cm		jar stn cly & coatings loc Mn stn (loc grn Cu stn ser/cly)	Fe (cly)	(chl (loc sil)	(cly) loc sil (loc ser?)			(loc chrys)				One xenolith 18.4 - 18.7 m. Local dendritic Mn stain.		
20.4-23.6	Guichon/ Hybrid		ckle bx & bkn, loc dis bx	(cly) loc sil loc tr ser	qtz vnlt to 1 cm		jar stn cly < (coating) (loc grn Cu stn ser/cly)	Fe, (cly)	(chl (loc sil)	(cly) loc sil			loc chrys				Slight decrease in jar staining and coating. Local chrys fracture filling and dislocation breccia matrix. One small xenolith. ***Nail test jar stained cly and coating--positive result.		
23.6-26.9	Guichon/ Hybrid		bkn & shatt (ckle bx)	(loc cly) (loc ser)	qtz vnlt 3 mm - 1 cm	(loc grn Cu oxide stn alb?)	jar stn cly & coatings (grn Cu oxide stn ser)	Fe	(chl)	(loc cly) (loc ser)			(loc chrys)			loc tr	One small xenolith. One 10 cm interval before contact of very bleached Guichon? Qtz, alb, ser and cly? is all that is left. Possibly pervasive alb then overprinted with qtz and ser.		

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)	FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary					
								perv.	fract.		perv	fract	perv	fract				
26.9-30.3	Bethlehem wk fault	loc thin 27.4-27.7 m	ckle bx, loc bkn	loc ser, (loc cly)	1 1.5 cm alb vnlts qtz vnlts 3 mm-1.5 cm & f.f.	loc Cu oxide stn ser	loc grn Cu oxide stn ser/ cly (jar stn cly & coating)	Fe (cly?)	loc ser (chlr)	loc ser (loc cly)	-	-	loc chrys	-	-	tr	Jar staining and coating decreasing. Local pervasive ser in weak fault. Some of fractures and veinlets have a dark grey alteration envelope ± fine grained hem ± pink clay patches.	
30.3-34.3	Bethlehem	-	ckle bx (well healed), loc shatt/mod	sil, (loc cly)	qtz vnlts 3 mm-2 cm & f.f. (2 qtz/alb vnlts)	-	(jar stn cly & coating)	Fe	loc sil (patchy alb) (chlr)	sil (loc cly)	-	-	loc chrys	-	-	tr	Ckle breccia well healed/more competent. Many of the qtz veinlets are vuggy. Chlr healed fractures, larger ones containing pink clay patches. Alb in qtz veinlets occurring as margins and core. Pervasive chlr still discrete.	
34.3-37.7	Guichon	loc slip	ckle bx (well healed) loc shatt & bkn	(loc cly) loc sil (loc ser)	(qtz vnlts 2 mm to 1.5 cm)	-	jar stn cly & coatings (loc Cu oxide stn ser)	Fe	(patchy sil/alb) (chlr)	loc sil (loc cly) (loc ser)	-	-	(loc chrys)	-	-	tr	Still jar coatings > jar stained cly.	
37.7-41.4	Guichon	-	ckle bx (well healed) loc bkn, fract set at 50° C.A. loc dis bx	sil (loc cly) (loc ser)	qtz vnlts 2 mm - 1 cm all between 30-40° C.A.	loc Cu oxide stn ser?	jar coatings (loc Mn stn) grn Cu oxide	Fe	(chlr) (loc alb) (loc sil)	sil (loc cly) (loc ser)	-	-	(chrys)	-	-	-	Chrys in some of qtz veinlets. A white, very fine crystalline mineral on fractures, sometimes Cu stained light turquoise blue. Have seen it in varying amounts in just about all boxes to date. It is soft and has a bit of a silty feel. Possibly barite? or a mineral of chrys? decomposition. Some of fractures have chlr alteration envelope also have some chlr well healed fractures cross cut by qtz veinlets. Some of chrys on fractures forming crystalline "fuzz". Local Cu oxide stain? in a small zone of dislocation breccia.	
41.4-45.4	Guichon	-	ckle bx (well healed) loc mod, loc bkn	loc sil	qtz vnlts 2 mm - 2 cm	-	jar coatings loc Mn stn grn Cu oxide	Fe	(chlr) (loc alb) (loc sil)	loc sil	-	-	(loc chrys)	-	-	tr	Chlr alteration envelopes up to 1 cm across. On fractures and well healed fractures. Dendritic Mn stain occurs on fractures with sil. alt occurs over top of chrys and coats chrys fibers. One qtz veinlet with alb core.	
45.4-48.7	Guichon	loc slip	ckle bx/bkn	(loc cly)	qtz vnlts 2 mm-1 cm	-	loc Mn stn, jar coatings (grn Cu oxide stn cly & ser) grn Cu oxide	Fe	(chlr)	(loc alb)	(loc cly) (loc sil)	-	-	(loc chrys)	-	-	tr	Local alb alteration envelopes. Some of qtz veinlets vuggy. Ser and cly on slip surfaces and are green Cu oxide stained.



ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	Supergene		primary				
									perv.	fract.		perv	fract	perv				fract
48.7-52.4	Guichon	-	ckle bx (well healed) loc dis bx, loc bkn	(loc chlr)	(qtz vnlt 2 mm to 1.5 cm)	-	grn Cu oxide, loc Mn (jar coating)	(Fe)	(alb) (chlr) (loc sil)	(loc chlr)	-	(loc chrys)	-	-	loc tr	Less qtz veinlets. Jar decreasing. Still discrete chlr. Local chlr healed fractures and alteration envelopes up to 0.5 cm thick. Dislocation breccia matrix contains voids. One fo qtz veinlets cross-cut chlr healed fracture/shear.		
52.4-55.9	Guichon	loc slip	ckle bx (well healed) loc dis bx, loc bkn	(loc sil) (loc cly and ser)	(qtz vnlt 2 mm - > 1.5 cm)	-	(jar coating)	(Fe)	(loc alb) (loc sil) (loc chlr) (loc cly) (loc ser)	(loc sil)	-	(loc chrys)	-	-	loc tr	Local cly and ser on slip surfaces. Large qtz veinlets in dislocation breccia. Still getting small patches of "fuzzy" chrys on fracture surfaces.		
55.9-59.3	Guichon	loc slip	ckle bx, loc dis bx, loc bkn	(loc cly) (loc ser) (loc sil)	(qtz vnlt ~ 2 mm)	(loc jar stn ?)	(jar stn cly coating) (loc grn Cu oxide stn ser?)	(Fe)	(patchy sil) (chlr) (loc cly)	(loc ser) (loc chlr)	-	(loc chrys)	(loc pyr)	-	-	Cly and ser on slip surfaces. Local jar stained ? (Cly?) alteration envelopes. One patch of pyr in jar alteration envelope. Local chlr healed fractures.		
59.3-63.1	Guichon	-	bkn, loc ckle bx	loc sil, (loc cly) (loc ser)	qtz vnlt to 1 cm)	-	jar stn cly & coatings loc grn Cu oxide stn ser	(Fe)	(chlr) (loc alb) (loc sil)	loc sil (loc cly)	-	(loc chrys)	-	-	-	Pervasive discrete trace of hem stained alb starting to appear.		
63.1-66.7	Guichon	-	ckle bx (well healed)/shatt & bkn	loc ser, loc sil	qtz vnlt 2 mm - 3 cm	-	(loc jar stn cly) and coatings	(loc Fe)	(chlr) (loc alb) (loc sil)	loc ser loc sil	-	(loc chrys)	-	-	tr	Increase of ser on fractures at end of box. <u>not</u> green Cu oxide stain.		
66.7-69.9	Guichon	loc slip	mod/ckle bx loc bkn loc dis bx	loc sil, (loc ser and cly)	(qtz vnlt 2 mm-2 cm) (loc carb f.f)	-	(loc jar stn cly & coating) (loc grn Cu oxide)	(loc Fe)	(chlr) (patchy alb) (loc cly)	loc sil (loc ser) (loc cly)	-	(loc chrys)	-	-	-	Jar matrix in local dislocation breccia. Local crystalline chrys fuzz on fractures. One local bleached alb and qtz, ser, cly? patch/veinlet. Jar and green Cu oxide stained ser and cly in breccia matrix and slip surfaces. Local carb in dislocation breccia, some of which is transparent-looks red from jar underneath.		
69.9-74.4	Guichon	-	ckle bx/bkn loc dis bx	(loc cly) (loc ser)	(qtz vnl to 1.5 cm) (loc carb f.f)	-	(loc jar stn cly & coating) (loc grn Cu oxide stn ser)	(Fe)	(loc alb) (chlr) (loc sil)	(loc cly) (loc ser)	-	(loc chrys)	-	-	-	Many of fracture surfaces with chrys or qtz covered in very fine transparent crystals. Look like could be qtz, but show a square/rhombohedral cross section---need to identify!! Local alb alteration envelopes. Local jar stained cly in local dislocation breccia.		

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
74.4-77.3	Guichon/ Hybrid?		ckle bx/sing loc bkn, crush and gge	cly (loc ser)	(qtz vnits up to 1.5 cm)	(loc gm Cu oxide stn ser)	(gm Cu oxide stn ser)	Fe	patchy mod/ stng ser	cly, (loc ser)	-	-	(loc chrys)	-	-	loc tr		Alteration increasing through fault zone. Chlr alteration more pervasive. Local pervasive ser Local pervasive pale turquoise coloured ser Local jar stained cly, ser alteration envelopes.
77.3-81.0	Guichon/ Hybrid?	75.1-77.3 m	ckle bx (well healed) loc shatt/bkn	loc sil (cly) (loc ser) (carb)	(qtz vnits 2 mm 1 cm) (loc carb f.f)	-	jar stn cly & coatings	(Fe)	(loc cly) (loc carb) (loc sil) wk/ mod chlr	loc sil (cly) loc ser (carb)	-	-	(loc chrys)	-	-	tr		Alteration decreasing. Ser, carb, chlr alteration dies out with fault zone. Chlr healed fractures.
81.0-84.5	Guichon		ckle bx (well healed) loc mod, shatt & bkn	(loc cly)	(loc qtz f.f?)	-	jar stn cly & coatings	(Fe)	(chlr) (loc sil)	(loc cly)	-	-	(loc chrys)	-	-	tr		Chlr ± jar ± qtz healed fractures with better developed chlr and jar alteration envelopes -- up to 0.5 cm across. Still getting local occurrence of ? crystals on fractures. On one fracture surface crystals are stained blue, some are "cross" twinned and locally are coated in chrys.
84.5-87.7	Guichon	loc thin	ckle bx (well healed)/ shatt & bkn/mod	(loc cly)	(qtz vnits 0.5 - 1 cm 1 10 cm vntt?)	-	jar stn cly	(Fe)	(patchy sil) chlr patchy ser	(loc cly)	-	-	(loc chrys) (loc cup?)	-	-	loc tr		White-cream coloured mineral on fracture surface ---very soft, fibrous frequently forms in radiating bundles **ICP**. Pervasive chlr around 10 cm qtz veinlet. Pervasive ser. Dislocation brecciated 10 cm qtz veinlet has chrys (local darker blue & harder) with red-purple metallic hem; jar stained cly and dark brown hem? patches, one of which contains pyr.
87.7-91.1	Guichon	loc thin	ckle bx/ loc mod	(loc cly) loc carb	(qtz vnits 0.5 - 1 cm) 1 1 cm alb vnt	-	jar stn cly & coatings	(Fe)	(cly) (patchy sil) ser loc chlr wk/ mod carb	(loc cly) loc carb	-	-	(loc chrys)	-	-	-		Alteration increasing. Still getting mystery mineral from last box on fractures. Pervasive chlr. Chlr healed fractures with thin jar stained cly/ser alteration envelopes. Local chrys in qtz veinlet.
91.1-95.0	Guichon		well healed ckle bx	(ser) (loc cly) (loc chlr) loc carb	(qtz vnits 3 mm-2 cm) (carb f.f.)	-	jar stn cly/ser (loc red Cu oxide)	(Fe)	(carb) loc ser (sil) (chlr)	(ser) (loc cly) (loc chlr) carb	-	-	(loc chrys) loc cup	loc tr NCu	(loc NCu)	loc tr		Jar decreasing. Local secondary biotite. Chrys decreasing. NCu starts around 93.1 m. Local NCu plated in small microfractures.

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
95.0-98.2 -----	Guichon wk fault	98.1-98.3 m	well healed ckle bx/ loc shatt	(loc cly) (loc ser)	(qtz vnlt to 0.5 cm)  (loc carb f.f.)	-	(jar stn cly & coating) (loc red Cu oxide)	(Fe)	(chl'r loc chl'r (loc carb) cly) loc ser	(loc ser)	-	(loc chrys)	loc tr pyr	-	loc tr	Local botryoidal chrys on fractures. Pervasive chl'r, discrete (chl'r). Local red Cu oxide in microfractures. Local pyr in dark brown jar and limonite blob. Soft pale blue radiating mineral on fractures.		
98.2-102.6	Guichon	-	well healed wk ckle bx/ mod, loc bkn	(loc cly) (loc sil) carb	qtz vnlt 3 mm- 1cm  (carb f.f.)	-	(jar stn cly)	(Fe)	(carb) (patchy sil) (chl'r loc ser (loc cly)	(loc cly)	-	(patchy cup)	(loc chrys)  (cup)	loc tr/ wk NCu (loc pyr)	tr	Patchy red staining in core--some of it may be hem stained alb, but red staining also caused from cuprite in mafics and cuprite and red Cu oxide in all the microfractures. Pervasive ser, chl'r, and cly increasing at end of box, loc pyr in jar and limonite filled fractures. Chrys decreasing.		
102.6-106.1	Guichon	-	mod/ckle bx loc shatt	(cly) carb	qtz vnlt 2 mm-1 cm (carb f.f. & vnlt)	patchy jar stn ser/cly	loc Mn loc red Cu oxide jar stn cly & coatings loc Cu- Mn spots	Fe	(carb) cly ser (chl'r)	(cly) carb	-	(loc cup)	(loc mal) (cup)	loc tr loc tr NCu	-	Alteration increasing, jar increasing. Lost chrys--now getting malachite on fractures. Jar, cly, carb veinlets up to 1 cm thick. Local pervasive chl'r. Pyr in mafics with limonite. Core varying patches of ochre brown, light ser green, darker chl'r green.		
106.1-109.7 ----- -----	Guichon fault zone	107.9-109.7 at 45° C.A.	mod/loc crush & heal, loc ckle bx, loc fault bx	cly, wk/mod carb	(carb f.f. & vnlt) (qtz vnlt 0.5 - 1 cm) 1.5 cm+ qtz vnlt	patchy jar stn ser/cly	jar stn cly & coatings	Fe	cly ser mod/ stng chl'r (carb)	cly wk/ mod carb	-	(mal) (loc cup)	-	-	loc tr	Alteration increasing. Local pervasive carb. Jar and carb and cly 1 cm veinlet, carb and jar matrix in fault zone and adjacent shearing, jar stained cly and ser generally occurs as alteration envelopes. 5+ cm qtz veinlet in fault zone. Mal in many of small fractures in fault zone.		
109.7-113.3 -----	Guichon fault zone	109.7-110 m	shatt/bkn, loc mod, loc crush	cly (carb)	(carb f.f.) 1 0.5 cm qtz vnlt, 1 10 cm qtz vnlt	patchy jar stn ser/cly	jar stn cly/ser loc hem stn ser	Fe	ser (cly) chl'r (carb)	cly (carb)	-	(loc mal)	(mal)	-	tr	One 4 mm jar and cly and carb veinlet. 10 cm qtz veinlet, vuggy and fractured. Local jar stained ser and cly alteration envelopes. Mal on fractures, in fractures in the 10 cm qtz veinlet, in fault zone and local pervasive.		
113.3-117.2	Guichon	loc slip	well healed ckle bx, loc shatt	ser, loc chl'r (carb)	qtz vnlt 0.5 - 1 cm (carb f.f. & vnlt)	(loc jar stn ser)	(loc red Cu oxide) (loc jar stn ser) loc Mn	(Fe)	(loc carb) (chl'r patchy ser)	ser loc chl'r (carb)	-	(loc chrys)	tr/wk NCu	(loc NCu)	tr	Large decrease in alteration. Well healed ckle breccia only weak to moderately broken. Strong reduction in jar. Local jar stained ser alteration envelopes on fractures and chl'r healed fractures. NCu plated on slip surfaces, and in microfractures. Pervasive NCu in mafics.		
117.2-120.7 -----	Guichon fault zone	117.7-120.4	ckle bx/shatt & bkn, loc crush, loc fault bx	cly, loc ser, (loc carb)	qtz vnlt 0.5 to +5 cm	jar stn ser, loc hem stn cly	loc red Cu oxide jar stn cly loc Mn	Fe	wk/ mod carb (chl'r) ser (loc cly)	cly loc ser (loc carb)	-	(loc chrys) (mal) (loc tr cup)	-	-	tr	Alteration increasing, jar increasing. Mal-chrys Local chrys in one qtz veinlet. Local hem stained cly in gge. Large 5 cm qtz veinlet fractured and contains pale green semi-transparent ser.		

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
									perv.	fract.		perv	fract	perv	fract		
120.7-124.6	Guichon	loc slip	mod/loc ckle loc shatt/bkn	loc ser, cly	(qtz vnits 0.2-0.5 cm) carb	(loc jar stn ser)	loc red Cu oxide jar stn cly	Fe	ser chl mod/ stng carb cly	loc ser cly	-	-	-	(cpy)	-	tr	Alteration decreasing to 123.0 m, then alteration increasing. Jar decreasing. One 1.5 cm apilite dykelet. After 123.0 m ser, chl, mod/stng carb, cly. Local jar stained ser alteration envelopes on some of fractures and some of the veinlets. Jar alteration envelopes. Cpy fine grained and in mafics.
124.6-128.6	Guichon fault zone	125.6- 128.9 m	mod/shatt/bkn loc ckle bx crush & gge	cly, loc ser carb	(qtz vnits 0.5-1.5 cm) (carb & jar f.f. & vnits to 1 cm)	patchy jar stn ser/cly loc hem stn ser	jar stn cly (loc Cu- Mn spots)	Fe	ser mod/ stng chl cly carb	cly loc ser carb (cly)	-	loc tr mal	(loc mal)	(pyr) tr cpy (loc mo)	-	-	Local pervasive chl. ***Nail test jar -- Positive Local fibrous, radiating mal. Qtz "veinlet" --127.2-127.6 m: pale ser green in colour, unevenly fractured, contains small fragments of cly. Carb matrix in breccia and gouge. Local pyr in jar stained ser with limonite. Pyr very fine grained; therefore, hard to tell whether cpy or pyr. Local mo in a qtz veinlet. Probably pervasive pyr>cpy.
128.6-132.6	Guichon wk fault	128.7- 128.8 m	wk/mod, loc shatt/bkn, loc ckle bx & crush	cly, (loc ser) mod/stng carb	qtz vnits 0.5-1.5 cm at 20° C. A. carb f.f. & vnits	jar stn cly/ser loc hem stn ser	jar stn cly & coatings loc tr red Cu oxide (loc Mn)	Fe	carb mod/ stng chl ser cly	cly (loc ser) mod/ stng carb	-	(loc mal)	(loc cpy)	loc cpy	-	-	**Nail test jar -- positive. Jar increasing. Qtz veinlet fragments in gouge. Jar stained ser alteration envelopes 0.5-4 cm thick. (Cpy) in healed fractures.
132.6-136.8	Guichon fault zone	134.1-136.6 20° C. A.	up to 134 m wk/mod. To end of box gge & crush & mill, loc mod	cly, loc carb	(qtz vnits 0.5 - 2.5 cm 30° C. A.) (carb vnits)	loc jar stn cly/ser loc hem stn ser	jar stn cly & coatings loc Mn	Fe	carb mod/ stng chl ser cly	cly, loc carb	-	-	(tr cpy)	(loc NCu)	loc tr	-	Gouge at start of fault zone 8 cm thick. Lot of crushed and milled qtz veinlets in fault zone. Cpy in alteration envelopes. Jar stained ser alteration envelopes. Local mal in qtz veinlet.
136.8-140.3	Guichon	loc slip at 20° C. A.	mod/stng loc shatt & bkn loc wk	(loc chl) loc cly, loc ser wk/mod carb	(carb f.f. & vnits) (qtz vnits <0.5 cm)	loc hem stn ser loc jar stn ser	loc jar stn cly & coating	(Fe)	wk/ mod carb (ser) chl	(loc chl) loc cly loc ser wk/ mod carb	-	-	(loc cpy)	(loc cpy)	loc wk	-	Strong decrease in alteration. Two apilite dykelets 1.5 cm thick. A qtz/feldspar porphyry 15 cm --- 139.0-139.1 m, has an apilite dykelet down the middle. Jar decreasing. Local jar stained ser alteration envelopes. Hem stained ser patches. Pervasive chl now more discrete. Mag increasing cpy in alteration envelopes. Cpy>pyr 2 stoped 1 cm diameter particles.
140.3-144.2	Guichon	loc gge 50° C. A.	mod, loc shatt & bkn, loc ckle bx	chl, loc cly loc ser, wk/mod carb	(carb f.f.) 1 1 cm qtz vnlt	-	(loc jar stn cly)	-	chl (ser) loc cly	chl loc cly loc ser wk/ mod carb	-	-	(cpy)	loc mo loc cpy loc tr pyr	wk/ mod	-	Alteration decreasing. One 1-1.5 cm apilite dykelet Qtz veinlet has chl alteration envelope. Cpy>pyr. Local cly patches in chl bands. Cpy mostly in chl healed fractures and weak alteration envelopes. Local mo on slip surface.

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
144.2-148.1	Guichon/ Hybrid	loc gge	wk, loc shatt/ bkn, loc ckle bx, loc gge & crush	chlr, carb (loc ser)	(carb f.f.) (qtz vnlt <0.5 cm)	(loc hem stn ser)	-	-	(loc ser) (chlr) (loc sil)	chlr carb (loc ser)	-	(loc pyr) (cpy)	loc mo loc pyr loc cpy			Alteration decreasing. One xenolith. Carb fracture filling in crush/gouge. Local mo on slip surfaces 15° C.A. One (hem) stained ser patch, cpy in chlr alteration envelopes and healed fractures.		
148.1-152.5	Guichon	-	bkn/wk loc shatt	wk/mod chlr (loc ser)	(carb f.f. & 1 vnlt (qtz ± chlr f.f./vnlt)	-	-	(carb ) (chlr)	wk/ mod chlr (loc ser) wk/ mod carb	-	-	(cpy) loc mo	(cpy) loc pyr	wk/ mod		Almost half of core is broken into small pieces that have been drill-rounded. Carb in mafics. Discrete chlr. Molybdenite in qtz ± chlr fracture filling/veinlets. Still most cpy in chlr fracture filling and chlr alteration envelopes. In broken rounded core, more fragments of porphyry. Loc pyr in crushed milled rock. Cpy>pyr.		
(150.3-150.7)	Porphyry (qtz/feldspar)	-		wk/mod carb														
152.5-155.3	Guichon/ Porphyry gradational contact?	-	stng/shatt & bkn, loc mod	(chlr) loc cly (carb)	(carb f.f.) (qtz vnlt <0.5 cm)	-	-	(chlr) loc ser (loc cly)	(chlr) loc ser (carb)	-	-	loc mo (loc cpy)	wk/ mod cpy loc tr pyr	tr		Intervals of definite pink feldspar. Qtz porphyry with intervals of Guichon looking core but with fewer mafics and a slightly porphyry looking texture. Alteration increasing. Local cly on fractures in more altered core at end of box along with more pervasive chlr and cly. Cpy decreases in porphyry. (mo) and moderated to strong cpy in qtz veinlets at bottom of box. Discrete ser alteration of plagioclase phenocrysts in porphyry		
155.3-158.5	Guichon/ Porphyry (a bit more Guichon than last box)	-	shatt/bkn loc stng loc mod	(chlr) (ser) (carb)	(carb f.f.)	-	-	(ser) loc chlr	(chlr) (ser) (carb)	-	-	(cpy) tr/wk pyr	loc mo (cpy) (loc pyr)			Local mo on slip surface. Pervasive discrete ser alteration of plagioclase phenocrysts. One pervasive chlr patch. One quarter size fragment of apite. Most of cpy in chlr healed fractures and alteration envelopes. Cpy>pyr.		
158.5-161.5	Porphyry (remnant Guichon texture)	-	mod/shatt & bkn, loc ckle bx	wk/mod chlr ser, carb	(carb f.f.) 3 qtz vnlt 1.0, 0.3 & 2.5 cm	-	-	loc chlr loc ep (patchy ser) loc sil loc alb	wk/ mod chlr ser carb	-	-	loc pyr (patchy cpy)	loc mo (cpy) loc pyr			Stronger porphyry texture starts ~ 160.5 m. Some fracture surfaces covered with a brown to clear very fine crystalline mineral can be scratched with a pin, no fizzing with HCl. One perv chlr patch. Ep in alteration envelopes, on 1.0 cm qtz veinlet, the smaller veinlet qtz and ep. Perv (ser) is discrete, more pervasive in ckle bx. One cm qtz veinlet has crystalline vugs and is ~ 20% cpy & 30° C.A. In pervasive sil patch, have a mod amount of perv pyr. Loc mo in qtz/chlr healed fract. Cpy just>pyr.		
161.5-164.5	Porphyry (with remnant Guichon texture)	-	mod/stng/ loc shatt/bkn	(chlr) (ser) carb	(carb f.f.) 0.3 - 1 cm	-	-	(alb) (carb) (loc ser) (chlr)	(chlr) (ser) carb	-	-	(cpy) tr pyr	loc mo (cpy) (tr/wk pyr)	loc wk/ mod		Crystalline mo on a fracture, healed mo in qtz and chlr fracture and slip surface. Pervasive carb in mafics. Local discrete ser alteration envelopes. One cm qtz veinlet at 40° C.A. Qtz and chlr healed fractures. ~ 2/3 cpy, 1/3 pyr on fractures Pervasive cpy still mostly in alteration envelopes. Discrete pervasive chlr.		

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.		perv	fract	perv	fract			
164.5-166.0	Porphyry (w/ remnant Guichon texture) ~~~~ wk fault zone	-	shatt /bkn loc mod	(chlr) (loc ser) wk/mod carb (cly?)	qtz f.f. & vnits < 3 mm	-	-	-	(carb) (chlr) (loc alb)	(chlr) (loc ser) wk/ mod carb (cly?)	-	-	-	(cpy)  loc mo (cpy) tr pyr	-	-	Discrete pervasive chlr. Qtz and chlr healed fractures ± mo. Fracture cpy very fine grained.
166.0-169.0	Porphyry fewer mafics very fine grained wk fault zone	166.8- 167.9 m	shatt and bkn loc mo	tr chlr, (loc ser) (carb) (cly?)	qtz f.f. & vnits <3 mm	-	-	-	(carb) tr/wk chlr (carb) (cly?)	tr chlr (loc ser) (carb) (cly?)	-	-	(cpy)  loc mo (cpy) tr pyr	tr	-	Discrete pervasive chlr. Numerous qtz ± chlr ± mo healed fractures with sil alteration envelopes to 0.5 cm thick (distinctive pattern on pinkish porphyry) Fracture cpy cpy very fine grained.	
169.0-170.7	Porphyry (w/Guichon like texture)	-	shatt and bkn loc stng	(loc chlr) (cly?)	qtz f.f. and vnits <3 mm	-	-	-	(chlr)	(loc chlr) (cly?)	-	-	(loc pyr) (cpy) (loc pyr)	loc tr	-	Molybdenite on slip surfaces and in qtz chlr healed fractures. Discrete chlr. Cpy fine grained, slightly decreasing.	
170.7-173.5	Porphyry (remnant Guichon texture)	-	shatt/bkn loc mod	loc chlr (loc ser)(cly?) carb	(carb f.f.) qtz f.f. <3 mm	-	-	-	(alb) (chlr) (loc ser)	loc chlr (loc ser) (cly?) carb	-	-	tr pyr (cpy) loc pyr loc mo	loc tr	-	Mafics increase through box. Qtz and chlr healed fractures. Local chlr at end of box. Discrete pervasive (chlr). Discrete thin ser alteration envelopes. Local mo in qtz chlr healed fractures.	
173.5-177.0	Porphyry fault ~~~~	175.7- 176.9 m	mod/stng, loc bkn/shatt, loc ckle bx, loc crush, mill and gge	cly, loc chlr loc ser, carb	(carb f.f. & vnits) qtz/carb vnits to 3 cm	-	loc hem stn cly	-	chlr loc ep mod/ stng ser (loc alb)	cly, loc chlr loc ser carb	-	-	cpy loc cpy loc mo	loc tr	-	Alteration increasing. Local pervasive chlr. Local ep along qtz veinlet, and in mafic patches. Hem stained cly in gouge. Faulting appears to be close to parallel with core axis along this fault are irregular carb veinlets and carb breccia matrix, and qtz ± chlr ± chlr veinlets. The carb fracture filling and breccia matrix contain varying amounts of very fine grained red hematite. Most of the qtz veinlets contain as much as 40% massive cpy. The gouge also contains a significant amount of cpy. ***Check assay! Should be high in Cu values. Local mo in qtz veinlet.	
177.0-179.9	Porphyry crowded grey w/patches of remnant Guichon-like porphyry	-	shatt and bkn loc mod	(loc ser) (loc chlr) carb	(carb f.f.) qtz vnits & f.f. < 3 mm	-	-	-	(carb) (patchy alb) loc ep (chlr)	(loc ser) (loc chlr) carb	-	-	(pyr) (loc cpy)	loc pyr loc cpy	loc tr	Alteration decreasing. Qtz/chlr fracture filling and alteration envelopes. Local ep in chlr alteration envelope. Pervasive chlr dies out around 177.7 m. Mostly discrete chlr but also some more pervasive chlr. One qtz/hem stained carb veinlet with 50 % cpy, 45° C.A. Pervasive pyr > cpy.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
		perv.							fract.	perv		fract	perv	fract			
179.9-183.1	Porphyry (Guichon remnant texture)	-	mod/stng loc shatt/bkn	(ser) (chl) r loc cly, carb	2-1 cm qtz vnlt (carb f.f.)	-	-	-	(carb) (ser) (loc alb) (chl) r	(ser) (chl) r carb	-	-	(pyr) (loc cpy) cpy	(loc) cpy (loc) tr/wk pyr	loc wk/ mod	Discrete pervasive ser alteration of plagioclase phenocrysts. Discrete chl alteration. Cpy tend to concentrate in alteration envelopes and in fractures. Pervasive pyr > cpy. Fracture cpy > pyr.	
183.1-186.5	Porphyry ~~~~ fault	185.2- 185.9 m	ckle bx, loc dis bx, loc stng, loc crush	loc ser (chl) r loc cly, carb	(carb f.f.) & 1 vnlt	-	-	-	loc ep (carb) (ser) (chl) r	loc ser (chl) r loc cly carb	loc ep (chl) r?	-	(pyr) (loc cpy) cpy	wk/ mod pyr loc cpy (loc mo)	loc tr	Local ep in chl alteration envelope. Carb in breccia matrix. Discrete ser alteration of plagioclase and alteration envelopes. Set of thin chl and qtz healed fractures at 40° C. A. Discrete pervasive chl and local alteration envelopes. Loc cpy and pyr in qtz chl healed fractures. pervasive and fracture pyr > cpy. Local mo on qtz veinlet margins in dislocation breccia.	
186.5-190.4	Porphyry (Guichon remnant texture) ~~~~ fault	186.5- 190.6 m	bkn, loc stng & crush & gge	cly, carb (loc chl) r	(carb?) (qtz vnlt <0.5 cm)	-	-	-	loc ser loc chl (carb)	cly carb (loc chl) r	-	-	(pyr) (loc cpy) cpy	wk/ mod pyr loc cpy	loc wk	Alteration increasing. Pervasive ser, chl at end of box. ***Mag response for past 3 boxes has been very patchy.	
190.4-194.5	Guichon? fault	190.4- 192.2 m	healed dis bx & crush, loc mod to 192.2 to end of box wk/mod	cly, (loc ser) (loc chl) r carb	carb f.f. (qtz/chl f.f.)	-	-	-	(carb) loc alb loc ser ep patchy chl loc cly	cly (loc ser) (loc chl) r carb	-	-	(patchy pyr)	wk/ mod pyr	tr, loc mod	One 0.5 cm aplite dykelet. Ser to 192.4 m. Ep in chl patches after fault. 0.5 cm ser alteration envelopes on qtz/chl healed fractures. Pyr>cpy.	
194.5-198.4	Guichon (unknown contact w/ porphyry)	loc thin	wk/mod, loc shatt/bkn, loc ckle bx	loc chl (ser) wk/mod carb	(carb f.f.)	(loc hem stn cly in gge)	-	-	(carb) (ser) loc ep (chl) r loc alb	loc chl (ser) wk/ mod arb	tr loc ep	-	(loc cpy) tr/wk pyr	(loc cpy) wk/ mod pyr	tr/loc mod	One aplite dykelet. Alteration decreasing. Discrete ser alteration envelopes. Ep in chl patches (very diffuse alteration envelopes?) Loc alb at end of box.	
198.4-202.1	Guichon (loc porphyry looking patches)	-	wk/mod, loc shatt/bkn	loc chl, (ser) carb	(carb f.f.) qtz/chl f.f.	-	-	-	(loc carb) loc ep (patchy alb) (chl) r (loc ser)	loc chl (ser) carb	loc tr ep	-	(pyr) pyr loc cpy	pyr loc cpy	tr	80% of qtz ± chl healed fractures at 40° C. A. Increase of pyr on fractures. Local ep in diffuse chl "alteration envelopes". Alb and discrete ser alteration envelopes.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.		perv	fract	perv	fract			
202.1-207.3	Guichon (loc porphyry looking patches)	loc thin	mod, loc ckle bx and bkn & crush	(ser) (loc chlr) carb	(carb f.f.) qtz/chlr f.f.	-	-	-	(loc carb)	(ser) (loc chlr) carb	-	-	(pyr)	loc cpy (pyr)	tr/wk	Local alb interval and alb alteration envelopes to 1 cm across. Increase in cpy in fractures and qtz/chlr healed fractures. Ser and alb alteration envelopes up to 1 cm across.	
(205.5-207.3)			wk/mod						(loc ser) loc alb								
EOH 207.3 m																	



Northing: 5604066.5		DDH 96-4				Azimuth: 315			
Easting: 641576.8		Elevation: 1741.2 m				Inclination: -55			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29414	9.1	10.6	0.50	0.28	-	-	-	-	Guichon:
29415	10.6	12.1	0.37	0.24	-	-	-	-	"
29416	12.1	13.6	0.45	0.30	-	-	-	-	"
29417	13.6	15.1	0.52	0.32	-	-	-	-	Guichon/Hybrid:
29418	15.1	16.6	0.79	0.59	-	-	-	-	"
29419	16.6	18.1	0.54	0.38	-	-	-	-	"
29420	18.1	19.6	0.70	0.48	-	-	-	-	"
29421	19.6	21.1	0.69	0.50	-	-	-	-	"
29422	21.1	22.6	0.88	0.69	-	-	-	-	"
29423	22.6	24.1	1.02	0.82	-	-	-	-	"
29424	24.1	25.6	0.47	0.32	-	-	-	-	"
29425	25.6	27.1	0.43	0.28	-	-	-	-	"
29426	27.1	28.6	0.54	0.27	-	-	-	-	Bethlehem:
29427	28.6	30.1	0.62	0.48	-	-	-	-	wk fault (30 cm)
29428	30.1	31.6	0.56	0.40	-	-	-	-	"
29429	31.6	33.1	0.60	0.45	-	-	-	-	"
29430	33.1	34.6	0.65	0.45	-	-	-	-	"
29431	34.6	36.1	0.65	0.53	-	-	-	-	Guichon:
29432	36.1	37.6	0.61	0.42	-	-	-	-	"
29433	37.6	39.1	0.80	0.62	-	-	-	-	"
29434	39.1	40.6	1.02	0.80	-	-	-	-	"
29435	40.6	42.1	0.78	0.61	-	-	-	-	"
29436	42.1	43.6	0.56	0.43	-	-	-	-	"
29437	43.6	45.1	0.59	0.46	-	-	-	-	"
29438	45.1	46.6	0.55	0.41	-	-	-	-	"
29439	46.6	48.1	0.47	0.33	-	-	-	-	"
29440	48.1	49.6	0.52	0.41	-	-	-	-	"
29441	49.6	51.1	0.70	0.56	-	-	-	-	"
29442	51.1	52.6	0.64	0.51	-	-	-	-	"
29443	52.6	54.1	0.47	0.34	-	-	-	-	"
29444	54.1	55.6	0.67	0.47	-	-	-	-	"
29445	55.6	57.1	0.67	0.50	-	-	-	-	"
29446	57.1	58.6	0.61	0.50	-	-	-	-	"
29447	58.6	60.1	0.67	0.55	-	-	-	-	"
29448	60.1	61.6	0.52	0.41	-	-	-	-	"
29449	61.6	63.1	0.61	0.50	-	-	-	-	"
29450	63.1	64.6	0.57	0.46	-	-	-	-	"
29451	64.6	66.1	0.48	0.37	-	-	-	-	"
29452	66.1	67.6	0.41	0.30	-	-	-	-	"
29453	67.6	69.1	0.54	0.41	-	-	-	-	"
29454	69.1	70.6	0.44	0.32	-	-	-	-	"
29455	70.6	72.1	0.36	0.26	-	-	-	-	"
29456	72.1	73.6	0.43	0.33	-	-	-	-	"
29457	73.6	75.1	0.57	0.45	-	-	-	-	Guichon/Hybrid?:
29458	75.1	76.6	0.59	0.47	-	-	-	-	fault zone

Sample number	Interval		% total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29459	76.6	78.1	0.40	0.30	-	-	-	-	Guichon/Hybrid?:
29460	78.1	79.6	0.45	0.35	-	-	-	-	"
29461	79.6	81.1	0.46	0.36	-	-	-	-	"
29462	81.1	82.6	0.64	0.51	-	-	-	-	Guichon:
29463	82.6	84.1	0.49	0.38	-	-	-	-	"
29464	84.1	85.6	0.79	0.63	-	-	-	-	"
29465	85.6	87.1	0.46	0.35	-	-	-	-	"
29466	87.1	88.6	0.35	0.28	-	-	-	-	"
29467	88.6	90.1	0.29	0.20	-	-	-	-	"
29468	90.1	91.6	0.33	0.24	-	-	-	-	"
29469	91.6	93.1	0.21	0.14	-	-	-	-	"
29470	93.1	94.6	0.18	0.10	-	-	-	-	"
29471	94.6	96.1	0.23	0.15	-	-	-	-	"
29472	96.1	97.6	0.34	0.23	-	-	-	-	"
29473	97.6	99.1	0.40	0.31	-	-	-	-	wk fault (20 cm)
29474	99.1	100.6	0.36	0.28	-	-	-	-	"
29475	100.6	102.1	0.32	0.24	-	-	-	-	"
29476	102.1	103.6	0.33	0.22	-	-	-	-	"
29477	103.6	105.1	0.45	0.31	-	-	-	-	"
29478	105.1	106.6	0.33	0.20	-	-	-	-	"
29479	106.6	108.1	0.33	0.08	-	-	-	-	fault zone (2.1 m)
29480	108.1	109.6	0.67	0.34	-	-	-	-	"
29481	109.6	111.1	1.39	0.61	-	-	-	-	"
29482	111.1	112.6	0.55	0.34	-	-	-	-	"
29483	112.6	114.1	0.35	0.10	0.2	0.01	-	<.001	"
29484	114.1	115.6	0.49	0.17	0.2	0.01	-	0.002	"
29485	115.6	117.1	0.32	0.15	0.1	<.01	-	<.001	"
29486	117.1	118.6	0.60	0.39	0.2	0.01	-	0.003	fault zone
29487	118.6	120.1	0.39	0.27	0.2	0.01	-	0.002	"
29488	120.1	121.6	0.41	0.19	0.1	<.01	-	0.002	"
29489	121.6	123.1	0.21	0.02	0.2	0.01	-	<.001	"
29490	123.1	124.6	0.45	0.03	0.1	<.01	-	0.003	"
29491	124.6	126.1	0.42	0.16	0.1	<.01	-	0.002	fault zone
29492	126.1	127.6	0.33	0.15	0.5	0.02	-	0.005	"
29493	127.6	129.1	0.38	0.10	0.1	<.01	-	0.002	wk fault (10 cm)
29494	129.1	130.6	0.43	0.19	0.1	<.01	-	0.007	"
29495	130.6	132.1	0.38	0.17	0.1	<.01	-	0.001	"
29496	132.1	133.6	0.29	0.04	0.1	<.01	-	0.004	"
29497	133.6	135.1	0.36	0.07	0.8	0.02	-	0.001	fault zone
29498	135.1	136.6	0.44	0.18	0.1	<.01	-	0.002	"
29499	136.6	138.1	0.51	0.04	0.2	0.01	-	<.001	"
29500	138.1	139.6	0.39	0.03	0.1	<.01	-	0.002	"
29501	139.6	141.1	0.49	0.04	0.1	<.01	-	0.002	"
29502	141.1	142.6	0.52	0.05	0.1	<.01	-	0.002	"
29503	142.6	144.1	0.58	0.04	0.2	0.01	-	0.004	"
29504	144.1	145.6	0.52	-	0.8	0.02	5	0.023	Guichon/Hybrid:
29505	145.6	147.1	0.41	-	0.2	0.01	5	0.003	"

Sample number	Interval		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29506	147.1	148.6	0.63	-	0.2	0.01	5	0.003	"
29507	148.6	150.1	0.46	-	0.1	0.01	5	0.006	<b>Guichon:</b>
29508	150.1	151.6	0.46	-	0.2	0.01	5	0.022	(Porphyry, qtz/feld 40 cm)
29509	151.6	153.1	0.31	-	0.1	0.01	25	0.004	<b>Guichon/Porphyry</b>
29510	153.1	154.6	0.28	-	0.1	0.01	5	0.002	<b>gradational contact?</b>
29511	154.6	156.1	0.50	-	0.2	0.01	5	0.021	<b>Guichon/Porphyry</b>
29512	156.1	157.6	0.34	-	0.2	0.01	5	0.014	"
29513	157.6	159.1	0.54	-	0.2	0.01	5	0.004	<b>Porphyry</b>
29514	159.1	160.6	0.39	-	0.2	0.01	5	0.003	(remnant Guich texture)
29515	160.6	162.1	0.40	-	0.1	0.01	5	0.006	"
29516	162.1	163.6	0.34	-	0.2	0.01	5	0.008	"
29517	163.6	165.1	0.45	-	0.5	0.02	5	0.016	wk fault zone
29518	165.1	166.6	0.46	-	0.3	0.01	5	0.036	<b>Porphyry (fewer mafics)</b>
29519	166.6	168.1	0.56	-	0.2	0.01	5	0.026	wk fault zone (1.1 m)
29520	168.1	169.6	0.35	-	0.1	0.01	5	0.02	"
29521	169.6	171.1	0.40	-	0.5	0.02	5	0.033	<b>Porphyry</b>
29522	171.1	172.6	0.34	-	0.2	0.01	5	0.005	(remnant Guich texture)
29523	172.6	174.1	0.41	-	0.3	0.01	5	0.002	"
29524	174.1	175.6	0.50	-	0.1	0.01	5	0.008	"
29525	175.6	177.1	1.56	-	0.3	0.01	5	0.005	fault (1.2 m)
29526	177.1	178.6	0.43	-	0.3	0.01	5	0.005	"
29527	178.6	180.1	0.34	-	0.2	0.01	5	0.006	"
29528	180.1	181.6	0.31	-	0.2	0.01	5	0.003	"
29529	181.6	183.1	0.33	-	0.2	0.01	5	0.003	"
29530	183.1	184.6	0.50	-	0.3	0.01	5	0.002	"
29531	184.6	186.1	0.16	-	0.2	0.01	5	0.001	"
29532	186.1	187.6	0.35	-	1.0	0.03	5	0.003	fault (3.6 m)
29533	187.6	189.1	0.40	-	0.9	0.03	5	0.003	"
29534	189.1	190.6	0.59	-	0.3	0.01	5	0.002	<b>Guichon?:</b>
29535	190.6	192.1	0.53	-	0.5	0.02	5	0.004	fault (1.8 m)
29536	192.1	193.6	0.15	-	0.3	0.01	5	0.006	"
29537	193.6	195.1	0.35	-	0.2	0.01	5	0.005	(unknown contact w/
29538	195.1	196.6	0.30	-	0.1	0.01	5	0.028	Porphyry)
29539	196.6	198.1	0.24	-	0.1	0.01	5	0.002	"
29540	198.1	199.6	0.16	-	0.2	0.01	5	<.001	<b>Guichon:</b>
29541	199.6	201.1	0.19	-	0.1	0.01	5	0.002	(loc porphyry looking
29542	201.1	202.6	0.20	-	0.1	0.01	5	0.002	patches)
29543	202.6	204.1	0.50	-	0.3	0.01	5	0.005	"
29544	204.1	205.6	0.39	-	0.2	0.01	5	0.012	"
29545	205.6	207.1	0.15	-	0.1	0.01	5	0.001	"
<b>end of hole</b>									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 96-5		Date		07-Feb		Logged by		F											
Elevation		1754.8 m		Azimuth		315°		Northing:		5604177.7									
Inclination		-45°		Length		185.9 m		Easting:		641543.4									
STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS				
ROCK TYPE	FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary							
interval (m)	GOUGE	INTENSITY	SURFACES					perv.	fract.		perv	fract	perv	fract					
0-12.2	Overburden and casing																		
12.2-18.4	Guichon/ Hybrid faulting?	stng cly content suspect gge	crush/milled loc bkn, loc ckle bx	cly		loc jar stn cly	jar stn cly & coatings loc hem stn cly	Fe, cly	ser (chlr) cly (in clasts)	cly									One xenolith seen in local ckle breccia. Discrete pervasive chlr alteration. Local white clay. Most of this box is cly and milled rock.
18.4-23.3	Guichon/ Hybrid? faulting?	stng cly content suspect gge	ckle, dis bx/ crush/mil loc mod	cly, ser		loc stn cly in gge	jar stn cly	Fe, cly	ser cly (chlr)	cly ser									Jar stained cly decreasing. Complete sericitization ---as soft as core that has been milled and semi-healed. More pervasive chlr at end of box. Probably several faults and shears to account for amount of cly, but hard to specify due to extreme alteration and milling of core.
23.3-28.1	Guichon	stng cly content suspect gge	dis bx/bkn loc mill, ckle bx	loc chlr, ser, cly	(qtz vnl frags) (carb f.f.)	loc jar stn cly in gge & dis bx	jar stn cly & coatings	Fe, cly	loc alb (chlr) loc ser loc cly	loc chlr ser cly		loc tr chrys							Alteration in broken competent core decreasing. Locally well healed dislocation breccia, matrix is carb and jar + cly ± carb. Clasts are pervasively alb altered. Strong crush and milling and cly (gouge?) ends ~ 24.1 m, then ckle and dislocation breccia, broken and locally milled. ***Nail test jar stained cly and coating--no reaction.
28.1-31.8	Guichon	stng cly content suspect gge	dsi bx/crush & mill, loc ckle bx	ser, cly	carb f.f.	jar stn cly in gge & dis bx matrix	jar stn cly	Fe, cly	cly ser (chlr)	cly ser									Discrete pervasive chlr. Carb matrix in dislocation breccia--locally the carb/calcite matrix is ~ 30% of core and is quite transparent and crystalline. (took a specimen)
31.8-36.4	Guichon	stng cly content suspect gge	crush & mill/ dis bx	cly, ser	loc carb f.f.	jar stn cly in gge & dis bx	(loc Mn) jar stn cly & coatings loc grn Cu oxide coatings	Fe, cly	ser (chlr) loc sil cly	ser cly		tr chrys			loc tr				Local complete sericitization. Discrete pervasive chlr. Carb matrix in dislocation breccia. Still can find a few calcite crystals in crush/mill/gouged rock. Some of the broken core looks silicified. **Nail test jar--got a slow weak reaction. Locally well healed dislocation breccia has jar + cly + carb clasts with a clacite matrix. Possibly rock dislocation brecciated several times. Sil fragments have mag response.

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
36.4-39.6	Guichon	-	bkn, crush mill, loc dis bx	ser, cly loc chl	-	-	jar stn cly & coatings (loc grn Cu oxide)	Fe, cly	(chl) loc cly & ser	ser cly loc chl	-	-	loc tr chrys	-	-	Locally complete sericitization. Jar stained cly is decreasing. Most clasts just chl and weak to moderately ser/cly altered.		
39.6-43.1	Guichon	mod cly content, some gge	dis bx, (loc well healed/)	ser, cly	-	jar stn cly in dis bx	jar stn cly & (loc grn Cu stn ser)	Fe, cly	(chl) chl loc ser loc cly	ser cly loc chl	-	-	(loc	-	-	Discrete pervasive chl. Chrys on fractures slightly increasing. Some of clasts in dislocation quite competent. One 0.5-1 cm "veinlet" of pale blue green chrys, ~ 70° C.A. at 41.3 m and in the middle of an incompetent dislocation breccia.		
43.1-48.3	Guichon/ Hybrid	-	dis/ckle bx: loc well healed, loc crush	ser, cly	-	(jar stn cly in dis bx)	jar stn cly & coatings loc grn stn ser	(Fe) (cly)	(chl) chl loc cly loc ser	ser cly loc chl	-	-	(loc chrys)	-	tr	Jar decreasing. Discrete chl. One xenolith.		
48.3-56.5	Guichon/ Hybrid?	-	dis/ckle bx/ crush	loc ser, cly loc sil	-	jar stn cly in dis bx loc grn Cu oxide stn ser	(loc Mn) jar stn cly & coatings loc grn Cu oxide stn ser	Fe (cly)	(chl) loc cly loc ser	loc ser cly loc sil	-	-	(loc chrys)	-	-	Locally very poor recovery. Most of the broken/crush fragments have been drill rounded. Discrete chl.		
56.5-61.0	Guichon/ Hybrid?	loc slip	ckle bx/bkn & crush, (loc well healed) loc dis bx loc fract set at 40° C.A.	loc cly (loc ser)	(qtz vnt frags in dis bx)	(loc grn Cu oxide stn ser)	loc Mn jar stn (cly) & coatings loc grn Cu oxide stn cly & ser	Fe (cly)	(ser) (chl)	loc cly (loc ser)	-	-	loc chrys	-	-	Possibly chrys in qtz veinlet. **Nail test jar--positive reaction.		
61.0-66.9	Guichon/ Hybrid	-	bkn/crush loc ckle bx	loc cly (loc ser)	-	-	jar stn (cly) & coatings (loc Mn) grn Cu oxide stn	Fe, (cly)	(loc alb) (chl)	loc cly (loc ser)	-	-	(loc chrys)	-	tr/ loc wk	Local chl patch with beige-pink cly patches. Local pervasive alb at end of box. Alteration of alb appears to be decreasing.		
66.9-72.3	Guichon/ Hybrid	-	bkn/crush loc ckle bx (well healed) loc mill	loc cly (loc ser)	-	-	loc Mn jar stn (cly) & coatings	Fe (cly)	(chl)	loc cly (loc ser)	-	-	(loc chrys)	-	tr	One xenolith 69.9-70.1 m, mostly chl patches with beige pink cly patches. Discrete chl. Slightly more chrys on fractures. Local chl healed fractures.		

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
72.3-76.4	Guichon/ Hybrid?	wk fault?	ckle bx. (from no competency to well healed) loc dis bx/ crush & mill & cly	ser, loc cly	1 1 cm qtz vnlit 25° C.A. (loc carb f.f.)	-	jar coatings jar stn cly (loc Mn)	Fe (cly)	loc ep patchy ser (chlr) (cly?)	ser loc cly	-	-	-	-	-	tr	Locally complete sericitization. Interval from 74.4-75.1 m looks like once albitized, then overprinted with ser and cly alteration. Possibly a well healed shear zone. Local jar fracture filling to 0.2 cm All green Cu staining and chrys disappears. ***Nail test jar is negative. Locally have wider jar stained alteration envelopes up to 0.5 cm wide.	
76.4-80.0	Guichon/ Hybrid	-	ckle bx (no competency) /crush/mill and cly	ser, loc cly	-	-	jar stn (cly) & coatings	Fe, cly	ser (chlr) (cly)	ser loc cly	-	-	-	-	-	tr	Locally complete sericitization. One xenolith 76.2-76.6 m. Pervasive ser alteration from weak to complete. ***Nail test jar is negative.	
80.0-83.8	Guichon/ Hybrid?	some slip	ckle bx (no to wk competency) loc dis bx	ser, cly	-	-	jar stn cly & coatings	Fe, cly	ser, cly (chlr)	ser cly	-	-	-	-	-	-	Locally core looks like it was albitized then overprinted with ser.	
83.8-87.5	Hybrid	-	ckle bx (no competency) loc dis bx (none to loc wk competency)	ser, cly	-	-	jar stn cly in dis bx	Fe, cly	ser cly (chlr)	ser cly	-	-	-	-	-	-	30% xenoliths. Ckle fracture set at ~ 50° C.A. **Nail test jar is negative.	
87.5-91.3	Guichon/ Hybrid	loc thin	ckle bx (loc competent) loc dis bx	loc ser, cly	-	-	loc jar stn ser & cly (loc hem stn cly & ser) loc hem stn cly & ser	Fe, cly	ser cly (chlr)	loc ser cly	-	-	-	-	-	loc tr	One xenolith. Jar stained cly and ser ± chlr alteration envelopes to 0.5 cm across. Locally very faint green oxide staining starting to appear on fractures. ***Nail test jar is positive. Local hem staining where several alteration envelopes converge.	
91.3-94.5	Guichon/ Hybrid	-	ckle bx (loc competent) loc thin dis bx	ser, cly	1 0.5 cm qtz vnlit	(loc grn Cu oxide stn ser)	jar stn cly & coatings (loc grn Cu oxide stn ser)	Fe, (cly)	(chlr) (ser) (cly?)	ser cly	-	(loc chrys)	-	-	-	tr	Still discrete chlr. Two 2 cm bands of dislocation breccia. Jar and chrys matrix, clasts are bleached and green Cu oxide stained jar veinlets/fracture filling up to 0.2 cm.	
94.5-97.7	Guichon/ Hybrid fault	95.2-96.1 m 45° C.A.	ckle bx (loc competent) loc fault & dis bx	cly, loc ser	-	-	loc jar stn cly	Fe, cly	(loc ep) (chlr) ser cly patchy sil	cly loc ser	-	-	-	-	-	tr	Jar stained cly in gouge, fault breccia and alteration envelopes. ***Nail test jar is negative reaction.	

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
97.7-101.5	Guichon/ Hybrid	-	ckle bx/loc bkn loc dis bx	(cly) (ser)	-	loc jar stn cly & ser	jar stn cly & coatings	Fe, cly	ep (chlr) ser cly	(cly) (ser)	-	-	-	-	tr	Patches of pervasive ep in chlr patches and purple hem stained ser. Jar fracture filling/veinlets to 0.2 cm. Jar stained ser/cly alteration envelopes, loc white to bluish white pure ser fracture filling/matrix in dis bx. Pervasive jar stained cly and ser in alteration envelopes and some of clasts in dislocation breccia.		
101.5-104.4	Guichon	-	ckle bx/bkn loc dis bx	cly (ser)	1 0.5 cm brecciated qtz vnlt	loc jar stn cly & ser	jar stn cly & coatings	Fe, cly	(loc ep) (chlr) ser cly	cly (ser)	-	-	-	-	tr	Local jar and chlr alteration envelopes to 0.5 cm **Nail test jar had trace Cu reaction.		
104.4-108.1	Guichon	-	well healed ckle bx, (wk/mod pieces)	(cly) loc ser	-	jar stn ser, loc hem stn ser	jar stn cly & coatings	Fe, (cly)	(cly?) (chlr) loc ep ser	(cly) loc ser	-	-	-	-	tr	Core becomes a lot more competent breaking into weak to moderate pieces after 104.5 m. Jar fracture filling up to 0.2 cm thick with pure ser alteration envelopes (or veinlet margins?) up to 0.5 cm across. Mottling of pervasive jar stained ser. Bleached patches look like alb alteration overprinted by ser/cly. Still pervasive discrete chlr. Pervasive hem stained "cherry" red. Possibly starts to acquire a bit of a porphyry texture.		
108.1-112.0	Guichon?	-	well healed ckle bx, (wk/ mod, loc stng pieces)	(cly) loc ser	-	jar stn ser/cly hem stn ser/cly	jar stn cly/ser loc hem stn ser/ cly	Fe, (cly)	stng/int ser cly	(cly) loc ser	-	-	-	-	tr	Significant increase in pervasive hem staining. Alteration increasing. Core covered in hard to remove red cly. Almost no mafics left. Local grey metallic hem on fractures. Bleached Guichon now mottled with orange (jar stained ser) and red (hem stained ser). Jar fracture filling up to 0.2 cm. Ser alteration envelopes 0.5-1 cm across. ***Nail test jar is negative.		
112.0-115.7	Guichon?	-	ckle bx, (mod/ stng) pieces loc competent	ser, cly	-	jar stn ser/cly hem stn ser/cly	jar stn ser/cly hem stn ser/cly	Fe, cly	ser cly	ser cly	-	-	-	-	-	Patchy complete sericitization. Same as last box--almost completely bleached Guichon with hem and jar stained ser and cly mottling. Core covered in hard to remove red cly. Local complete sericitization. ***Nail test jar and hem are negative		
115.7-119.6	Guichon?	-	ckle bx (wk to no compe- tency)	ser, cly	-	jar stn ser/cly hem stn ser/cly	jar stn ser/cly hem stn ser/cly	Fe, cly	stng/int ser cly	ser cly	-	-	-	-	-	Almost the same as last box but not as much staining. Covered in hard to remove red cly. Jar fracture filling up to 3 mm. Patchy complete sericitization. Ser alteration envelopes on jar fracture filling. This section of core probably at least moderately albitized with ser alteration envelopes, then completely overprinted with ser.		
119.6-123.6 ~~~~ ~~~~	Guichon? fault zone	121.9- 123.6 m	ckle bx/ (loc competent gge)	ser, cly	-	jar stn ser/cly hem stn ser/cly	jar stn ser/cly hem stn ser/cly	Fe, cly	ser cly	ser cly	-	-	-	-	-	Patchy complete sericitization. Since the rock here is so soft, easily faulted/ductily deformed?		

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
123.6-128.0	Guichon Fault	123.6- 124.6 m	ckle bx (stng to loc mod pieces) loc gge/ fault bx	ser, cly	-	patchy hem stn ser/cly jar stn ser/cly	jar stn cly/ser & coatings	Fe, cly	ser cly	ser cly	-	-	-	-	-	-	Alteration slightly decreasing. Cly on core slightly decreasing. Local complete sericitization. Not as bleached, less staining but still getting pure ser. Alteration envelopes to 1 cm across. Jar staining more restricted to alteration envelopes on fractures. Jar fracture filling to 2 mm.	
128.0-132.0	Guichon	loc 80° C.A.	ckle bx (stng/mod pieces)	ser, cly	-	patchy hem stn ser/cly patchy jar stn ser/cly	jar stn cly/ser & coatings loc hem stn cly	Fe, cly	ser cly	ser cly	-	-	-	-	-	-	Grey ser alteration envelopes up to 1 cm across. Guichon still very bleached.	
132.0-135.9 ~~~~	Guichon fault	134.6- 135.6 m	ckle bx (stng/ mod, loc wk pieces) loc fault bx & gge	ser, cly	-	patchy hem stn ser/cly patchy jar stn ser/cly	jar stn cly/ser & coatings loc hem stn cly	Fe, cly	stng/int ser cly	ser cly	-	-	-	-	-	-	Local complete sericitization. Grey ser alteration envelopes to 1 cm across. ***Nail test jar is negative	
135.9-140.2	Guichon wk fault	140.0- 140.2 m	ckle bx (wk/ mod pieces)	ser, cly loc carb	-	loc hem stn ser/ cly patchy jar stn ser/cly	jar stn cly/ser coatings	Fe, cly	(chlr) cly stng/ mod ser	ser cly loc carb	-	-	-	-	-	-	Alteration decreasing. Most fracture surfaces have a jar coating with patches of white waxy ser. Staining decreasing. Most jar staining in alteration envelopes. Grey ser alteration envelopes to 1 cm across. Jar fracture filling to 2 mm thick, loc Fe stained crystalline carb.	
140.2-144.1	Guichon	loc thin at 10-20° C.A.	ckle bx (stng/ mod pieces)	ser, cly	-	(loc hem stn ser & cly) patchy jar stn cly/ser	jar stn cly & coatings	Fe, cly	loc ep stng/ mod ser (chlr) cly	ser cly	-	-	-	-	-	-	Local complete sericitization. Hem stain just about disappears. Local ep in chlr band.	
144.1-148.3 ~~~~	Guichon fault	144.1- 146.7 m 20° C.A.	dis fault bx (in wk/mod pieces), ckle bx (mod pieces)	loc chlr, ser cly	-	jar stn cly in dis bx	jar stn cly	Fe, cly	chlr loc ser	loc chlr ser cly	-	-	-	-	-	-	Significant decrease in alteration after fault. Discrete but complete chlr alteration. Jar fracture filling to 2 mm. Chlr/jar fracture filling. ***Nail test jar is negative.	
148.3-152.1	Guichon	-	ckle bx/stng loc bkn	(cly) (ser) loc chlr	-	loc jar stn ser	jar stn cly & coatings	Fe (cly)	chlr	(cly) (ser) loc chlr	-	-	(loc pyr)	(loc pyr)	tr	Alteration decreasing. One 1.5 cm aplite dykelet. Local jar stained ser alteration envelope. (Jar fracture filling) to 2 mm. Discrete chlr. Pyr in jar fracture filling. Pyr very white.		
152.1-157.0 ~~~~	Guichon fault	155.2- 157.0 m	ckle bx/stng loc bkn, loc dis bx	loc chlr, cly (ser)	-	loc jar stn ser	jar stn cly & coatings	Fe (cly)	chlr	loc chlr cly (ser)	-	-	(loc pyr)	(loc pyr)	-	Local jar fracture filling 0.5 cm. Local jar stained ser alteration envelope. Pyr in jar fracture filling. ***Nail test jar: negative, dis bx with clay matrix.		



ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
157.0-160.2 ~~~~ ~~~~	Guichon fault	155.7- 156.9 m	dis bx (wk, loc mod pieces)	cl, loc ser	-	jar stn cl, in dis bx matrix	loc hem stn cl	Fe, cl	loc sil loc chl ser cl	cl	-	-	-	-	tr	Cannot define a contact as the whole box is dislocation breccia and strong alteration. Core is dislocation with cly/gouge matrix to 157.6 m, then the dislocation breccia is harder to recognize because the cly matrix has been replaced by milled porphyry and some cly.		
160.2-163.8 ~~~~	Guichon fault	160.2- 160.5 m ~ 35° C.A.	well healed ckle bx (mod pieces) loc dis bx	(cl) (ser) (chl)	1 1 cm qtz/alb & hem stn alb vnit. 1 carb vnt 2 mm, 35° C.A.	loc jar stn ser	jar stn cl & coatings	Fe, (cl)	chl loc ep	(cl) (ser) (chl)	-	-	-	loc NCu	tr	Jar stained ser alteration envelopes. One band of chl with ep patches. Jar/alteration envelopes to 0.5 cm across. The one 2 mm carb veinlet is quite transparent on the fracture surface and contains a moderate amount of NCu. ***Nail test jar is negative.		
163.8-167.2	Guichon	-	well healed ckle bx/mod loc bkn, loc well healed dis bx. fract set at 50° C.A.	loc chl (loc ser) carb	1 carb vnit frag, 2.5 cm (loc carb f.f.)	(jar stn cl & coating)	(Fe)	loc ep loc alb	loc chl (loc ser) carb	-	-	(loc NCu)	(loc NCu)	tr/loc wk	Two apite dykelets: 1.5 and 3.0 cm. Carb veinlet is discontinuous and offsets apite dykelet. Crystalline on fracture surface. Jar decreasing, NCu in microfractures. ***Nail test jar negative. Jar/chl fracture filling.			
167.2-170.0	Guichon/ Hybrid	-	ckle bx (mod/stng pieces)	loc ser, cl loc chl (carb)	(irreg carb vnits)	1 jar stn ser alt env	jar stn cl/ser & coatings	(Fe)	chl (loc ser)	loc ser cl loc chl (carb)	-	-	tr NCu (NCu)	loc tr	discrete chl. Two apite dykelets: 0.5 and 2.0 cm. One 1 cm porphyry dykelet. Probably the carb (veinlets, fracture filling and dislocation breccia matrix) brought in the NCu.			
170.0-174.6	Porphyry	-	stng/bkn loc mod	loc chl (loc ser) loc cl loc carb	(loc carb f.f.)	(jar stn cl/ser)	(Fe)	chl (loc ep) (loc ser)	loc chl (loc ser) loc cl loc carb	(chl?)	-	loc pyr tr/wk NCu	(loc NCu)	tr/wk	Local NCu in microfractures; loc ep in alteration envelope. Local ser in alteration envelopes. Jar/chl healed fractures. Porphyry close to 95-18, at 309.1 m.			
174.6-177.5	Porphyry	loc thin	shatt/bkn loc ckle bx loc stng	(loc ser) (loc cl) loc chl	-	loc red Cu oxide	tr red Cu oxide (jar stn cl)	(Fe)	(chl) (loc alb) (loc ep)	(loc ser) (loc cl) loc chl	(chl?)	(loc NCu)	(loc Ncu)	loc tr	NCu decreasing, local red Cu oxide appearing. Local chl alteration envelopes to 0.5 cm across.			
177.5-179.3	Porphyry	-	shatt and bkn loc stng	(cl) (loc ser)	1 carb f.f.	loc jar stn ser	(jar stn cl)	(Fe)	chl (loc ser) loc ep	(cl) (loc ser)	-	-	(loc tr/wk NCu)	tr	Discrete chl alteration. Local ep in alteration envelope.			
179.3-180.3	Porphyry (pink, qtz/plag)	-	shatt and bkn loc stng	loc chl, (cl) (loc ser) (loc carb)	-	(jar stn cl)	(Fe)	(ser)	loc chl (cl) (loc ser) (loc carb)	-	-	-	-	loc tr	Discrete (ser) alteration of some of plagioclase phenocrysts. One apite dykelet 1.5 cm.			

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
180.3-183.7	Porphyry (pink, qtz/plag)	-	stng/shatt & bkn, loc mod	(loc ser) (cly)	1 qtz 2 mm f.f.	-	jar coatings	(Fe)	(loc ser) (chlr)	(loc ser) (cly)	-	-	-	loc pyr	-	tr	Local discrete sericitization of plagioclase phenocrysts. Discrete chlr. A few chlr alteration envelopes to 0.5 cm across.	
183.7-185.9	Porphyry (pink, qtz/plag)	loc thin	mod/stng, loc wk, loc shatt/bkn	(loc cly) (loc chlr)	1 2 cm brecciated qtz vnl in gge	-	jar stn cly & coatings	Fe	(loc ser) (chlr)	(loc cly) (loc chlr)	chlr? (loc ep)	-	tr loc cup?	(loc pyr)	(loc NCu) (loc pyr)	-	Local discrete sericitization of plagioclase phenocrysts. Local jar alteration envelopes to 1 cm across. ***Nail test jar: negative. NCu on fractures is anhedral blobs with a few subhedral crystals.	
<b>EOH</b> <b>185.9 m</b>																		

Northing: -5604178.0		DDH 96-5				Azimuth: 315			
Easting: -641543.6		Elevation: 1754.8 m				Inclination: -45			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29546	12.2	13.7	0.12	0.02	-	-	-	-	Guichon/Hybrid:
29547	13.7	15.2	0.12	0.01	-	-	-	-	faulting?
29548	15.2	16.7	0.15	0.01	-	-	-	-	"
29549	16.7	18.2	0.18	0.01	-	-	-	-	"
29550	18.2	19.7	0.18	0.02	-	-	-	-	Guichon/Hybrid?:
29551	19.7	21.2	0.10	0.02	-	-	-	-	"
29552	21.2	22.7	0.08	0.01	-	-	-	-	"
29553	22.7	24.2	0.14	0.03	-	-	-	-	Guichon:
29554	24.2	25.7	0.08	0.03	-	-	-	-	"
29555	25.7	27.2	0.08	0.03	-	-	-	-	"
29556	27.2	28.7	0.08	0.01	-	-	-	-	"
29557	28.7	30.2	0.11	0.01	-	-	-	-	"
29558	30.2	31.7	0.08	0.01	-	-	-	-	"
29559	31.7	33.2	0.14	0.01	-	-	-	-	"
29560	33.2	34.7	0.38	0.20	-	-	-	-	"
29561	34.7	36.2	0.18	0.04	-	-	-	-	"
29562	36.2	37.7	0.28	0.06	-	-	-	-	"
29563	37.7	39.2	0.18	0.05	-	-	-	-	"
29564	39.2	40.7	0.21	0.09	-	-	-	-	"
29565	40.7	42.2	0.33	0.14	-	-	-	-	"
29566	42.2	43.7	0.41	0.20	-	-	-	-	"
29567	43.7	45.2	0.54	0.34	-	-	-	-	Guichon/Hybrid:
29568	45.2	46.7	0.39	0.24	-	-	-	-	"
29569	46.7	48.2	0.45	0.29	-	-	-	-	"
29570	48.2	49.7	0.60	0.45	-	-	-	-	Guichon/Hybrid?:
29571	49.7	51.2	0.51	0.39	-	-	-	-	"
29572	51.2	52.7	0.45	0.32	-	-	-	-	"
29573	52.7	54.2	0.41	0.28	-	-	-	-	"
29574	54.2	55.7	1.28	1.14	-	-	-	-	"
29575	55.7	57.2	0.71	0.60	-	-	-	-	"
29576	57.2	58.7	0.74	0.65	-	-	-	-	"
29577	58.7	60.2	0.75	0.62	-	-	-	-	"
29578	60.2	61.7	0.90	0.81	-	-	-	-	Guichon/Hybrid:
29579	61.7	63.2	0.61	0.49	-	-	-	-	"
29580	63.2	64.7	0.62	0.50	-	-	-	-	"
29581	64.7	66.2	0.54	0.41	-	-	-	-	"
29582	66.2	67.7	0.50	0.35	-	-	-	-	"
29583	67.7	69.2	0.41	0.26	-	-	-	-	"
29584	69.2	70.7	0.51	0.35	-	-	-	-	"
29585	70.7	72.2	0.45	0.26	-	-	-	-	"
29586	72.2	73.7	0.16	0.02	-	-	-	-	Guichon/Hybrid?:
29587	73.7	75.2	0.12	0.01	-	-	-	-	"
29588	75.2	76.7	0.25	0.04	-	-	-	-	"
29589	76.7	78.2	0.09	0.01	-	-	-	-	Guichon/Hybrid:
29590	78.2	79.7	0.11	0.01	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29591	79.7	81.2	0.10	0.02	0.70	0.02	5	0.001	Guichon/Hybrid?:
29592	81.2	82.7	0.21	0.07	0.10	<.01	15	0.008	"
29593	82.7	84.2	0.25	0.07	0.20	0.01	10	0.008	Hybrid:
29594	84.2	85.7	0.21	0.04	0.20	0.01	5	0.005	"
29595	85.7	87.2	0.24	0.06	0.30	0.01	5	0.007	"
29596	87.2	88.7	0.56	0.32	0.10	<.01	10	0.006	Guichon/Hybrid:
29597	88.7	90.2	0.59	0.37	0.10	<.01	5	0.006	"
29598	90.2	91.7	0.42	0.14	0.10	<.01	5	0.005	"
29599	91.7	93.2	0.72	0.52	0.10	<.01	5	0.004	"
29600	93.2	94.7	0.99	0.87	0.20	0.01	10	0.005	"
29601	94.7	96.2	0.68	0.40	0.10	<.01	5	0.013	fault (90 cm)
29602	96.2	97.7	0.33	0.12	0.20	0.01	10	0.015	"
29603	97.7	99.2	0.40	0.15	0.40	0.01	5	0.008	"
29604	99.2	100.7	0.59	0.31	0.30	0.01	5	0.008	"
29605	100.7	102.2	0.37	0.09	0.20	0.01	10	0.005	Guichon:
29606	102.2	103.7	0.40	0.18	0.20	0.01	5	0.004	"
29607	103.7	105.2	0.40	0.18	0.10	<.01	5	0.004	"
29608	105.2	106.7	0.12	0.02	0.10	<.01	10	0.030	"
29609	106.7	108.2	0.08	0.01	0.10	<.01	5	0.030	"
29610	108.2	109.7	0.09	0.01	0.10	<.01	5	0.004	Guichon?:
29611	109.7	111.2	0.12	0.02	0.10	<.01	5	0.005	"
29612	111.2	112.7	0.10	0.01	0.10	<.01	5	0.004	"
29613	112.7	114.2	0.11	0.01	0.10	<.01	5	0.003	"
29614	114.2	115.7	0.08	0.01	0.10	<.01	5	0.004	"
29615	115.7	117.2	0.08	0.01	0.10	<.01	5	0.004	"
29616	117.2	118.7	0.10	0.01	0.20	0.01	5	0.005	"
29617	118.7	120.2	0.10	0.01	0.10	<.01	5	0.003	"
29618	120.2	121.7	0.04	<.01	0.10	<.01	5	0.006	"
29619	121.7	123.2	0.05	<.01	0.20	0.01	5	0.012	fault zone (1.7 m)
29620	123.2	124.7	0.06	<.01	0.20	0.01	5	0.012	Guichon:
29621	124.7	126.2	0.09	<.01	0.10	<.01	5	0.008	fault (1 m)
29622	126.2	127.7	0.07	0.01	0.10	<.01	10	0.003	"
29623	127.7	129.2	0.09	0.01	0.10	<.01	5	0.003	"
29624	129.2	130.7	0.10	0.01	0.10	<.01	10	0.003	"
29625	130.7	132.2	0.09	<.01	0.10	<.01	5	0.008	"
29626	132.2	133.7	0.06	<.01	0.10	<.01	5	0.009	"
29627	133.7	135.2	0.11	0.01	0.10	<.01	5	0.050	fault (1 m)
29628	135.2	136.7	0.12	0.01	0.10	<.01	5	0.009	"
29629	136.7	138.2	0.11	0.01	0.10	<.01	5	0.006	"
29630	138.2	139.7	0.11	0.01	0.20	0.01	5	0.004	"
29631	139.7	141.2	0.10	0.01	0.10	<.01	5	0.005	wk fault (20 cm)
29632	141.2	142.7	0.10	0.01	0.10	<.01	5	0.005	"
29633	142.7	144.2	0.11	0.01	0.10	<.01	5	0.007	"
29634	144.2	145.7	0.13	0.02	0.10	<.01	5	0.005	fault (2.6 m)
29635	145.7	147.2	0.15	0.02	0.40	0.01	5	0.002	"
29636	147.2	148.7	0.28	0.03	0.20	0.01	5	0.003	"
29637	148.7	150.2	0.26	0.03	0.10	<.01	5	0.002	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29638	150.2	151.7	0.19	0.02	0.20	0.01	5	0.001	Guichon:
29639	151.7	153.2	0.14	0.02	0.30	0.01	5	0.003	"
29640	153.2	154.7	0.20	0.03	0.50	0.02	5	0.002	"
29641	154.7	156.2	0.15	0.02	0.10	<.01	5	0.004	fault (1.8 m)
29642	156.2	157.7	0.33	0.07	0.10	<.01	5	0.003	"
29643	157.7	159.2	0.22	0.02	0.20	0.01	5	0.002	"
29644	159.2	160.7	0.08	0.01	0.20	0.01	5	0.001	fault (30 cm)
29645	160.7	162.2	0.09	0.01	0.30	0.01	5	0.002	"
29646	162.2	163.7	0.08	0.01	0.30	0.01	5	0.001	"
29647	163.7	165.2	0.09	0.01	0.20	0.01	5	0.001	"
29648	165.2	166.7	0.07	0.01	0.70	0.02	5	<.001	"
29649	166.7	168.2	0.10	0.01	0.30	0.01	10	0.001	Guichon/Hybrid:
29650	168.2	169.7	0.11	0.01	0.20	0.01	5	<.001	"
29651	169.7	171.2	0.09	0.01	0.10	<.01	5	0.002	Porphyry:
29652	171.2	172.7	0.08	0.01	0.10	<.01	5	<.001	"
29653	172.7	174.2	0.05	0.01	0.10	<.01	5	0.001	"
29654	174.2	175.7	0.07	0.01	0.20	0.01	5	<.001	"
29655	175.7	177.2	0.10	0.02	0.10	<.01	15	0.002	"
29656	177.2	178.7	0.06	0.01	0.20	0.01	5	0.001	"
29657	178.7	180.2	0.06	0.01	0.10	<.01	5	0.001	(pink, qtz/plag)
29658	180.2	181.7	0.07	0.01	0.10	<.01	5	0.001	"
29659	181.7	183.2	0.04	0.01	0.10	<.01	5	<.001	"
29660	183.2	184.7	0.05	0.01	0.10	<.01	5	0.001	"
29661	184.7	185.9	0.05	0.01	0.10	<.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 96-6		Date		10-Feb-96		Logged by		F.M											
Elevation		1754.8 m		Azimuth		020°		Northing:		5604177.7									
Inclination		-45°		Length		285.6 m		Easting:		641543.4									
ROCK TYPE				STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary						
									perv.	fract.		perv	fract	perv	fract				
0-10.7		H casing																	
10.7-15.2		Tricone																	
15.2-19.8		Guichon	-	ckle bx, loc dis bx (no competency)	ser. (loc cly)	-	jar stn cly in dis bx (loc hem stn cly in dis bx)	jar stn cly & coatings	Fe, cly	chl	ser	-	-	-	-	-	-	tr	Discrete chl alteration. Local pervasive ser of clasts in dislocation breccia. ***Nail test jar: negative.
19.8-23.5		Guichon	some slip	dis bx, loc ckle bx, (loc competency)	ser, cly	loc carb f.f. 1 qtz vnl? (in dis bx) purple hem stn	jar stn cly in dis bx, loc hem stn cly in dis bx	jar stn cly & coatings	Fe, cly	ser cly chl	ser cly	-	-	-	-	-	-	tr	Alteration decreasing. Local jar fracture filling to 0.5 cm. Local carb fracture filling in dislocation breccia matrix. Local total sericitization. ***Nail test hem and jar: negative.
23.5-26.1		Guichon	some slip	stng/shatt loc dis bx	ser, cly	-	jar stn ser jar stn cly in dis bx	jar stn cly & coatings	Fe, cly	patchy ser/cl	ser cly chl	-	-	-	-	-	-	wk	Local complete ser. As pervasive alteration decreases, jar stained ser increases as wide irregular envelopes over 2 cm wide. Jar fracture filling to 3 mm thick.
26.1-31.0		Guichon wk fault	29.0-29.5 m	ckle bx/crush & milled (no comp) loc dis bx	ser, cly	-	loc jar stn cly in dis bx	jar stn cly & coatings	Fe, cly	ser cly chl	ser cly	-	-	-	-	-	-	tr	Local complete sericitization.
31.0-34.0		Guichon/ Hybrid	loc thin 50° C.A.	ckle bx/bkn & crush (no comp)	cly, loc ser loc carb	(loc carb f.f.)	jar stn cly & coatings (loc hem stn cly)	jar stn cly & coatings (loc hem stn cly)	Fe, cly	chl (loc sil) wk/mod ser/cl	cly loc ser loc carb	-	-	loc tr chrys	-	-	-	tr	***Nail test jar: negative.
34.0-37.1		Guichon/ Hybrid	-	ckle/dis bx (no comp) loc stng	loc ser, cly loc sil	(loc carb f.f.) 2-3 mm qtz vnls	loc grn Cu oxide stn ser jar stn cly (loc Mn)	(loc hem stn ser) jar stn cly (loc Mn)	(Fe) cly	chl loc cly (ser)	loc ser cly loc sil	-	-	loc tr chrys	-	-	-	tr	Local complete sericitization. Jar decreasing. Local pervasive chl interval, green Cu oxide stained ser. One fracture surface with sil and small Mn stains.

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
37.1-41.4	Guichon	-	ckle bx/bkn (loc well healed wk pieces)	ser, (cly)	(loc carb f.f.) (irreg carb vnlt)	jar stn ser & alb	jar stn cly & coatings	Fe, (cly)	chl (ser)	ser (cly)	-	-	-	-	tr/wk	Jar fracture filling to 2 mm. Jar stained ser and alb alteration envelopes < 0.5 cm. Discrete pervasive chl alteration. Alteration decreasing		
41.4-44.8	Guichon	-	ckle bx/bkn (loc well healed wk pieces) loc dis bx	ser, cly	(loc carb f.f.) (qtz & jar vnlt to 4 mm) 1 4cm vnlt	-	(loc Mn) jar stn cly & coating	Fe (cly)	chl (ser)	ser cly	-	-	-	-	tr	Jar fracture filling to 1 mm. ***Nail test jar: negative. One 4 cm qtz veinlet at top of box with a band (alteration envelope?) 10 cm of chl alteration and green Cu oxide stained cly patches. Qtz veinlets contain jar.		
44.8-48.0	Guichon	loc thin	bkn, loc ckle bx & dis bx (stng/mod pieces)	ser, cly	(loc carb f.f.)	1 jar stn ser clast in dis bx	jar stn cly & coatings	Fe, (cly)	chl (ser)	ser cly	-	-	-	-	wk	Jar fracture filling. One alb/sil alteration envelope with jar 2 cm across.		
48.0-51.6	Guichon/ Hybrid	-	ckle bx/bkn (loc mod pieces)	ser, loc ser cly	(loc carb f.f.) (loc qtz ± alb ± jar vnlt < 0.3 cm)	-	jar stn cly & coatings	Fe (cly)	(ser) chl loc alb	ser loc ser cly	-	-	loc tr chrys	-	loc tr	49.3-50.3 m rock is bleached -- probably pervasive albitized then (sericite) overprinted. Discrete pervasive chl. One irregular and carb and cly veinlet. ***Nail test jar: local weak reaction on fracture with trace chrys.		
51.6-54.9	Guichon/ Hybrid?	-	ckle bx/bkn	ser, (cly) (loc carb)	(loc carb f.f.)	-	(loc grn Cu stn ser) jar stn cly & coatings	Fe, (cly)	chl loc ser	ser cly (loc carb)	-	-	(loc chrys)	-	tr	Cu staining and chrys slowly increasing. Jar fracture filling, local chl alteration envelopes to 0.5 cm. ***Nail test jar: negative; appears that there is no Cu hiding in the jarosite		
54.9-58.3	Guichon	-	ckle bx/dis bx (no comp) loc crush/mill	ser, cly (loc carb)	-	loc jar stn cly in dis bx	jar stn cly & coatings tr/wk grn Cu oxide stn ser	Fe (cly)	loc ser chl	cly ser loc carb	-	-	-	-	tr loc wk	Local total sericitization. Alteration increasing. Local chl healed fractures.		
58.3-61.6 ~~~~	Guichon wk fault	58.7-59.2 m ~ 35° C.A.	dis bx (crush & mill, loc mod pieces)	cly, loc ser	-	-	(jar stn cly) (loc grn Cu oxide stn ser)	(Fe)	chl (loc ser)	cly loc ser	-	-	(loc chrys)	-	wk	Discrete pervasive chl.		
61.6-67.5	Guichon	loc thin	dis bx (crush & mill, loc mod pieces) loc ckle bx	cly (loc ser)	-	-	(jar stn cly) (loc grn Cu oxide stn ser)	(Fe) cly?	(chl) (loc ser)	cly loc ser	-	-	(loc chrys)	-	wk	Local high core loss.		

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
67.5-72.6	Guichon	-	bkn, loc ckle bx, (mod pieces) loc dis bx (mod pieces)	clay, (loc ser)	1 0.5 cm carb vnlt (qtz vnlt frags to 1 cm)	-	jar stn clay & coatings	(Fe) clay?	(chlrl) (loc ser)	clay (loc ser)	-	-	(loc chrys)	-	-	wk	Local high core loss. Local ser in highly fractured dislocation breccia core.	
72.6-76.7	Guichon	-	crush, loc bkn loc mill, loc ckle & dis bx	clay, loc ser	-	(loc grn Cu oxide stn ser in dis bx matrix)	jar stn clay & coatings (loc grn Cu oxide stn ser)	Fe, clay?	(chlrl) (loc ser)	clay loc ser	-	-	(loc chrys)	-	-	wk	***Nail test jar: positive reaction.	
76.7-81.7	Guichon	-	crush/bkn loc mill	ser, clay	(qtz vnlt frags <0.5 cm) (loc carb dis bx matrix)	-	jar stn clay (loc grn Cu oxide stn ser)	Fe, clay?	(chlrl) (loc sil)	ser clay?	-	-	(loc chrys)	-	-	loc tr	Local core loss. Local chrys dislocation breccia matrix filling with jar.	
81.7-85.0	Guichon	-	crush & mill loc bkn loc dis bx	ser, clay	(loc carb matrix in dis bx)	-	jar stn clay & coatings loc tr grn Cu stn ser	Fe, clay	loc ser (chlrl)	ser clay	-	-	-	-	-	loc tr	***Nail test jar: negative.	
85.0-88.1	Guichon	-	crush & mill loc bkn	ser, clay, loc carb	(carb f.f.?)	-	(jar stn clay) (loc grn Cu oxide stn ser)	(Fe) clay	loc ser chlrl	ser clay	-	-	-	-	-	loc tr	Noticeable increase in carb. Local crush fragments pervasive ser.	
88.1-90.9	Guichon	-	bkn/crush, loc ckle & dis bx	loc ser, clay	(loc carb f.f.)	(loc grn Cu oxide stn ser in dis bx) loc jar stn clay in dis bx	jar stn clay & coatings (loc grn Cu oxide stn ser)	Fe, clay	(chlrl)	loc ser clay	-	-	(loc chrys)	-	-	wk	***Nail test jar: positive.	
90.9-95.9	Guichon/ Hybrid?	-	bkn/ckle bx (loc mod pieces)	(clay)	1 irreg carb vnlt; 2 qtz/ jar vnlt < 0.5 cm	-	jar stn clay & coatings	Fe, (clay)	(chlrl)	(clay)	-	-	(loc chrys)	-	-	tr	Jar fracture filling. Local fracture surfaces coated with clear, vitreous small ( $\leq 1$ mm long) tetragonal crystals. Possibly associated with chrys?	



ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
95.5-99.2	Guichon	-	shatt & bkn loc ckle bx, loc dis bx	(loc ser) cly	1 carb f.f. (qtz + jar vnlt ≤ 0.5 cm) 2-1cm qtz vnlt	loc jar stn cly in dis bx	(grn Cu oxide stn ser) jar stn cly & coatings	Fe	(chl'r (loc ser) (cly)	(loc ser) (cly)	-	(loc chrys)	-	-	tr	Jar fracture filling (± chrys) ≤ 3 mm. Sil alteration envelopes on qtz/jar ± chrys fracture filling to 1.5 cm across.		
99.2-103.0	Guichon/ Hybrid	-	shatt & bkn loc crush loc ckle bx & dis bx	cly, (loc ser)	1-3 mm qtz vnlt, (qtz fragments) (loc carb dis bx matrix)	jar stn cly in dis bx matrix	jar stn cly & coatings (loc grn Cu oxide stn ser)	Fe	(chl'r loc sil cly)	(loc ser) cly	-	(loc chrys)	-	-	tr	Local core loss. Jar fracture filling. ***Nail test jar: local slow reaction.		
103.0-107.1	Guichon/ Hybrid	some slip	shatt/bkn loc ckle & dis bx	(cly) (loc ser)	(qtz vnlt frags)	jar stn cly in dis bx matrix	jar stn cly & coatings	Fe	(chl'r (ser) (ser)	(cly) (loc ser)	-	-	-	-	tr	Jar fracture filling		
107.1-111.2	Guichon/ Hybrid	some slip	shatt/mod/stng loc bkn, loc dis bx	loc chl'r, cly (ser)	1 qtz vnlt 0.5 cm	(loc grn Cu oxide stn ser)	(loc Mn) jar stn cly & coatings (grn Cu oxide)	Fe	(ser) (chl'r)	loc chl'r cly (ser)	-	(loc chrys)	-	-	loc wk	Jar ± (chrys) fracture filling to 2 mm.		
111.2-114.4	Guichon/ Hybrid	-	bkn/ckle bx (mod/stng pieces)	cly (loc ser)	1 carb f.f.	-	jar stn cly & coatings (loc Mn)	Fe	(chl'r (loc ser)	cly (loc ser)	-	(loc chrys)	-	-	tr/wk	Jar fracture filling to 3 mm thick. ***Nail test jar: negative.		
114.4-118.2	Guichon/ Hybrid?	-	ckle bx (wk/ mod, loc stng pieces) loc shatt/bkn	cly (loc ser)	(carb f.f.) (qtz vnlt ~ 0.5 cm)	(loc grn Cu oxide stn ser)	jar stn cly & coatings	Fe	(chl'r (ser)	cly (loc ser)	-	(loc chrys)	-	-	tr/wk	Jar fracture filling, local jar + carb fracture filling to 0.5 cm thick. Jar crosscuts qtz veinlets. Still discrete chl'r. Local qtz and jar veinlets.		
118.2-121.5	Guichon/ Hybrid	-	stnatt/bkn loc ckle bx (stng pieces)	(cly) (loc ser)	(qtz vnlt to 0.5 cm)	-	jar stn cly & coatings (loc Mn)	Fe	(chl'r (loc ser) (loc alb)	(cly) (loc ser) (ser)	-	(loc chrys)	-	-	tr/wk	Jar fracture filling. Chl'r well healed fractures, 3 mm across, one 1.0 cm chl'r band. ***Nail test jar: positive.		
121.5-124.9	Guichon/ Hybrid	-	ckle bx (mod/ well healed pieces) loc shatt/bkn	cly, (loc ser)	(qtz vnlt 0.5 - 1 cm)	loc grn Cu oxide stn ser	jar stn cly & coatings	Fe	(chl'r (ser) loc ser (loc alb)	cly (loc ser)	-	loc wk/ mod chrys	-	-	tr	Slightly more chrys on fractures. One small xenolith. One 10 cm interval, possibly a shear, at dark green chl'r (and hem) and apple green Cu oxide stained ser. Jar fracture filling.		

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
		GOUGE	INTENSITY	SURFACES					perv.	fract.		perv	fract	perv	fract			
124.9-128.4	Guichon/ Hybrid	-	ckle bx, loc dis bx, (mod/ stng pieces, loc well healed) loc bkn	cly, (loc ser) (loc chlr)	(qtz vnlt 0.5-4 cm, 4cm at 50° C.A.) loc carb matrix in dis bx	loc jar stn ser	jar stn cly & coatings	Fe	(chlr) (loc carb)	cly (loc ser) (loc chlr)	-	-	-	-	-	wk	Qtz veinlets have jar core or contain blobs of jar. Local jar stained alteration envelopes locally stronger in dislocation breccia. Jar fracture filling to 2 mm with thin sil alteration envelopes up to 0.5 cm across. ***Nail test jar: negative.	
128.4-131.6	Guichon/ Hybrid wk fault	130.2- 130.4 m	ckle/dis bx (mod/stng pieces, loc well healed) loc bkn, loc crush	loc ser, cly loc carb	(loc carb f.f.)	loc jar stn cly & ser in dis bx matrix (loc grn Cu oxide stn ser) loc hem stn cly in gge	jar stn cly & coatings	Fe	wk/ mod ser (chlr)	loc ser cly loc carb	-	-	-	-	-	wk	Alteration increasing. Jar fracture filling to 2 mm, with sill alteration envelopes or qtz veinlets with jar cores? (applies to all jar/qtz veinlets noted to date)	
131.6-135.7	Guichon/ Hybrid? fault	cly/gge thru out dis bx 131.6- 135.7 m	dis bx (fault bx?) (wk to no competency) loc ckle	cly, ser	carb f.f. (qtz vnlt frags)	jar stn cly in dis bx matrix	jar stn cly & coatings	Fe, cly	ser (chlr)	cly ser	-	-	-	-	-	wk	Carb fracture frilling and in cly in dislocation breccia matrix. ***Nail test jar: negative.	
135.7-139.3	Guichon/ Hybrid?	some slip	shatt/bkn/ckle bx (stng/mod pieces) loc dis bx	cly, loc ser	1 carb f.f.	jar stn cly in dis bx matrix (loc jar stn ser)	jar stn cly & coatings	Fe	loc sil (loc alb) chl (loc ep) patchy ser	cly loc ser	-	-	-	-	-	tr/wk	138.2-138.9 m, pervasive chl, possibly porphyry or a xenolith. Local ep along a chl healed fracture. Jar fracture filling with qtz to 0.5 cm.	
139.3-142.8	Guichon/ Hybrid	loc thin 15° C.A.	ckle bx/bkn loc stng, loc dis bx	(cly)	(loc carb f.f.)	(jar stn cly in dis bx matrix)	jar stn cly & coatings	Fe	(patchy sil) (chl) (loc ser)	(cly)	-	-	tr chrys	-	-		Jar fracture filling with qtz to 0.5 cm.	
142.8-146.5	Guichon/ Hybrid fault	144.6- 145.1 m	ckle bx (mod/ stng pieces, mod comp) loc crush/mill loc dis bx	cly, loc ser	(qtz vnlt frags)	jar stn cly in dis bx matrix, gge. loc hem stn ser	jar stn cly & coatings	Fe	loc sil loc ser ser (chl)	cly loc ser	-	-	-	-	-	loc wk	145.6 m--core is bleached. Lose mafics, pervasive sil and local pervasive ser, strongly brecciated, jar fracture filling. Alteration increasing.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	perv.		fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
146.5-150.3	Guichon	some slip // to C.A.	ckle bx (mod pieces, loc uncompetent) loc bkn	cly, loc ser	jar & qtz vnits ≤ 0.5 cm	(jar stn ser/cly)	jar stn cly & coatings	Fe	cly? ser (chlr) loc sil	cly loc ser	-	-	-	-	-	tr/wk	Mafics reappear but core still beached looking; possibly pervasive cly alteration? because core is bleached jar stained ser and cly alteration envelopes (up to 0.5 cm) quite distinctive. Local sil envelope on jar fracture filling 3 cm across. ***Nail test jar: negative.	
150.3-154.1	Guichon	some slip	ckle bx (mod pieces) loc shatt/bkn	cly, ser	-	jar stn ser/cly	jar stn cly (loc Mn)	Fe	mod/ stng ser loc ep (chlr) cly?	cly ser	-	-	-	-	-	loc wk	Local pervasive ser and complete sericitization. Alteration increasing. Local ep in 5 cm thick chlr band. Stronger bleaching than last box. Local Mn on ser on slip surface.	
154.1-157.9	Guichon	-	ckle bx, (mod pieces) loc shatt & bkn	cly (loc chlr) ser (loc carb)	(qtz + jar vnits ≤ 0.5 cm)	jar stn ser/cly	jar stn cly loc hem stn ser	Fe	ser loc ser (chlr) loc cly loc sil	cly (loc chlr) ser (loc carb)	-	-	-	-	-	wk	Mafics increase, alteration decreasing around 155.4 m. Jar fracture filling to 0.5 cm	
157.9-161.8	Guichon	loc 160.9 - 161.2 m w/milled clasts	ckle/dis bx loc crushed/ milled	cly, (ser) (loc chlr) (loc carb)	qtz + jar vnits < 0.5 cm	loc jar stn cly patchy hem	jar stn cly & coatings	Fe	ser chlr cly loc sil loc alb?	cly (ser) (loc chlr) (loc carb)	-	-	(NCu) tr chrys (chalc?)	-	-	tr	Strong jar site fracture filling and coatings; strong jarosite stained matrix in dislocation breccia. Local strong NCu in open fractures; crystalline, dendritic. Local strong bleaching. Purple/green iridescent fracture coatings with NCu. Well developed alteration envelope in dkle breccia with strong jar staining. Suspect overprinted alb/ep.	
161.8-165.5	Guichon wk fault zone	~ 10 cm at 162.3 m w/milling num slip surfaces	ckle/dis bx loc milled	loc cly, loc ser chlr, loc carb	-	loc jar stn cly	loc jar stn cly & ser	Fe	alb patchy ep hclr patchy ser	loc cly loc ser loc carb chlr	chlr	-	(NCu) (loc pyr)	(loc pyr)	(pyr)	wk/ mod	Last NCu at 162.3 m. Overall jar greatly decreased though still as local fracture filling and in breccia matrix. Pyr begins where NCu last seen. Cores of some larger clasts are relatively fresh. Pyr < 0.5%	
165.5-168.5	Guichon	loc thin 167.0 m	ckle/dis bx loc crushed	cly, loc ser loc chlr, loc carb	qtz/pyr vnits 2-3 mm ~ 10° C.A.	loc hem stn ser	loc jar coatings & in bx matrix	-	loc alb patchy ep chlr patchy ser cly?	cly loc ser loc chlr	chlr	-	(loc pyr) tr cpy	pyr	wk/ mod	0.5 - 1.0 cm bleached, qtz/ser/carb alteration envelope on pyr veinlets. Pyr 1-2%. Most pyr appears to be post-breccia.		
168.5-171.2	Guichon	-	stng, loc ckle bx	(loc cly) ser (loc chlr) loc carb	qtz/pyr vnits 1-2 mm 40-50° C.A.	speckled hem stn alb	loc jar coatings	-	loc alb chlr ser	(loc cly) ser (loc chlr) loc carb	-	-	loc pyr tr cpy	pyr	wk/ mod	0.5 - 1 cm bleached qtz/ser/carb alteration envelope on pyr veinlets. Pyr ~ 2%		

interval (m)	ROCK TYPE	FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric		supergene					primary	
									perv.	fract.	perv.	fract.	perv.	fract.				perv.	fract.
171.2-175.0	Porphyry (Bethlehem)	-	ckle bx bkn/shatt loc crushed	loc cly, ser (loc chlr) (carb)	-	patchy hem stn ser/alb	jar coatings w/pyr	-	ser cly chl	loc cly ser (loc chl) (carb)	-	-	-	loc pyr pyr	tr	Pink aplitic porphyry with strong bleached, grey alteration envelope on pyr/jar veinlets. Elongate prismatic crystals (apophyllite?) on open fracture Pyr 1-2%. Becomes somewhat crowded away from contact, possibly D6?			
175.0-178.8	Porphyry (Bethlehem) D6? wk fault zone	loc thin 178.6 m & 178.3 m	ckle bx, bkn/ shatt, loc crushed	loc cly, ser (carb) (loc chlr)	-	-	loc jar loc hem	-	ser cly chl	loc cly ser (carb) (loc chl)	-	-	(loc NCu) (loc pyr)	pyr	tr/wk	Fragments rarely larger than 7 cm. Very fine grained NCu with jar fracture coatings. Several xenoliths of strongly altered Guichon. Weakly developed alteration envelopes on pyr healed fractures			
178.8-182.2	Porphyry (Bethlehem) D6?	-	ckle/dis bx, loc crushed/ milled	loc cly, ser (loc chlr) carb	wk pyr vnlt 2-3 mm	(jar stn cly & coating)	-	ser cly chl	loc cly ser (loc chl) carb	-	-	-	tr cpy (loc pyr)	pyr	tr/wk	Pyr ~ 1% . Local tarnished (cpy) on fractures. Moderately developed alteration envelope on pyr veinlets where fracture intensity weakest. Most pyr appears to be post-breccia. Some textural variation-possibly crosscutting porphyry dykelets (fine grained)?; fracture intensity makes identification difficult			
182.2-185.9	Porphyry (Bethlehem) D6? with Guichon xenolith	-	stng/bkn, loc shatt/crushed ckle/dis bx in Guichon	loc cly (ser) (carb)	-	jar stn ser & cly loc hem	-	ser cly (chl)	loc cly (ser) (carb)	-	-	-	(pyr) tr cpy	pyr	tr/wk	Several pink more aplitic sections. Pyr/jar frequently coexist on fractures. Pyr 0.5 - 1%. Guichon xenolith 183.2-185.8 m Strongly altered and fractured; broken (sheared?) contacts with porphyry. Much stronger pyr/jar/hem as veinlets and fracture coatings in Guichon. Ser/cly/chl alteration intensity stronger in Guichon xenolith. Pyr 1-2% in Guichon.			
185.9-188.8	Porphyry (Bethlehem) D6?	loc thin	ckle bx, loc shatt/crushed	loc cly, (ser) carb (loc chl)	(pyr/jar vnlt 1-3 mm)	jar stn cly & as coatings	-	patchy ep (loc alb) ser cly chl	loc cly (ser) carb (loc chl)	-	-	-	(pyr) tr cpy	pyr	tr/wk	Several Guichon xenoliths, partially assimilated. Most ep associated with Guichon xenoliths; contact "meta" effects. Moderately developed (0.5-1 cm) bleached, qtz/ser/carb alteration envelopes on pyr/jar veinlets. Pyr 0.5-1%.			
188.8-192.3	Porphyry (Bethlehem)	-	mod/stng loc bkn	(loc cly) (loc ser) carb (loc chl)	carb f.f. qtz/pyr/carb vnlt (wk stkwk?) 1-2 mm	jar stn cly/ser and as coatings	-	ser chl (cly)	(loc cly) (loc ser) carb (loc chl)	-	-	-	(pyr)	pyr	wk	Partially assimilated Guichon xenolith at bottom. Textural change from previous; more fine grained overall, greater percentage groundmass. Grey-brown colour. Chill effects or different porphyry? consistent 0.5-1 cm alteration envelope on pyr/jar veinlets (1-2 mm) ~ 25/m.			

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.		perv	fract	perv	fract			
192.3-195.4	Porphyry (Bethlehem) D6? wk fault zone	-	stng/ckle bx, loc dis bx, loc crushed	cly, (loc ser) (loc chlr) (loc carb)	num qtz/pyr healed fracts	loc jar in bx matrix	jar stn cly & as coatings	-	ser chl (cly)	cly (loc ser) (loc chl (loc carb)	-	-	-	(pyr)	pyr	wk	Guichon for top 50 cm and bottom ~ 40 cm. Poly- micitic (porphyry/Guichon) dislocation breccia 194.5-195.0 m with jar stained matrix. Shear appears to be at ~ 30° C.A. Several clasts of dark grey, fine grained (chilled?) porphyry.
195.4-199.0	Guichon	loc thin	stng, loc ckle/ dis bx	loc ser, cly (loc carb) (loc chlr)	-	jar in bx matrix	loc jar stn cly & coatings loc hem stn cly	-	ser chl (cly)	loc ser cly (loc carb) (loc chl)	-	-	-	(loc pyr)	pyr	wk	Grey/brown fine grained porphyry dykelet 195.8- 197.2 m with many drill rounded fragments. Contact at 20° C.A. Pyr < 0.5%
199.0-203.7	Guichon wk fault zone	loc thin ~ 200.0 m	ckle/dis bx loc crushed/ milled	loc ser, loc cly carb, loc chl	(pyr healed fracts)	jar in bx matrix	loc jar stn cly & coatings	-	ser chl (cly) (loc ep) (loc alb)	loc ser loc cly carb loc chl	-	-	-	(loc pyr)	(pyr)	wk	Start of NQ-2 core. Fracture and overall alteration intensity increased - fragments rarely > 10 cm long Pyr<0.5%. Weakly developed, often jar stained alteration envelope on pyr healed fractures.
203.7-208.6	Guichon wk fault zone	205.8- 206.3 m & loc thin	stng, loc crushed/milled	loc cly, loc ser carb, loc chl	carb f.f.	loc jar stn cly & ser, (patchy hem)	loc jar stn cly & coatings	-	loc carb loc ser chl cly patchy bio	loc cly loc ser carb loc chl	-	-	-	(loc pyr)	(pyr)	loc wk/ mod	Pyr <0.5 %. Strongly bleached, milled and perv- asively jar stained 204.8-207.0 m. Secondary bio appears at 207.0 m.
208.6-212.9	Guichon wk fault zone	2 cm at 211.7 m, loc thin	stng, loc crushed/milled	loc cly, ser carb, loc chl	carb f.f.	loc jar stn cly & ser patchy hem stn ser/cly	jar stn cly & coatings	-	carb ser chl cly patchy bio	loc cly ser carb loc chl	-	-	-	(loc pyr)	pyr	loc wk	Pyr <0.5 %
212.9-218.1	Guichon wk fault zone	loc thin	stng, loc shatt/ crushed	ser, cly, carb loc chl	wk carb vnits & f.f. wk qtz/chlr/ pyr healed fracts	patchy hem/jar stn ser & cly	jar stn cly/ser & coatings loc hem stn ser & cly	-	carb ser loc sil chl (patchy bio)	cly ser carb loc chl	-	-	-	(loc pyr)	(pyr)	loc wk	Fracture and overall alteration intensity decreasing Several sections strongly bleached and cly altered with pervasive jar/hem staining. Secondary bio decreasing; possibly overprinted. Local complete ser/cly alteration.
218.1-222.6	Guichon wk fault zone	loc thin	ckle/dis bx loc crushed/ milled	cly, loc ser (loc chl) carb	num chl healed fracts, carb f.f. & frags	patchy hem/jar stn ser/ cly	jar stn cly/ser & coatings	-	carb ser (loc sil) chl patchy bio	cly loc ser (loc chl) carb	-	-	-	tr pyr	(pyr)	loc tr/wk	Where least altered and fractured earlier chl healed fractures are evident, and are weakly mineralized with pyr. Pyr <<0.5 %

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
222.6-227.5	Guichon	-	wk/mod loc ckle/dis bx loc crushed	loc cly, loc ser chl	wk chl healed fracts	loc jar in bx matrix & where	jar stn cly/ser & coatings	-	loc carb	loc cly loc ser chl	chl (ep)	-	-	tr cpy (pyr)	(loc cpy)	wk/ mod		Weak to moderate fracture intensity below 224.6 m Overall alteration and fracture intensity significantly decreased. Very fine grained pervasively disseminated cpy frequently with mafics, occas- ionally in microfractures.
227.5-231.2	Guichon	-	bkn/shatt loc stng	(cly), loc ser chl, carb	wk chl healed fracts, wk carb vnlt & f.f.	(patchy hem stn alb)	jar stn cly/ser & coatings	-	(loc carb)	(cly) loc ser chl carb	chl (ep)	-	-	pyr tr cpy	pyr	loc wk/ mod		Fine grained pervasively disseminated pyr usually with mafics. Disappearance of secondary bio.
231.2-236.3 ~~~~	Guichon fault zone	233.7- 234.7 m	ckle/dis bx loc crushed/ milled	cly, loc ser carb, loc chl	carb vnlt frags	loc jar stn ser/ chl	jar stn cly & coatings	-	loc sil chl ser cly carb	cly loc ser carb loc chl loc ep	-	(loc chrys)	(loc chrys)	loc cpy loc chal (pyr)	(loc cpy) (loc pyr)	loc wk		Locally strong cpy disseminated and as blebs in siliceous clasts. Qtz vein (or qtz healed crush zone?) contain abundant small blebs of cpy with untarnished chal rims, all encased in hem. Most clasts are strongly to completely chl/ser/cly altered, while a few are quite fresh.
236.3-240.5	Guichon	loc 238.9 & 240.0 m ~ 1 cm	stng, loc ckle/ dis bx	loc cly, loc ser chl, carb	wk qtz vnlt < 0.5 cm	loc jar stn cly/ ser patchy hem stn alb/ser	loc jar stn cly/ ser & coatings loc hem stn cly	-	carb chl ser patchy bio (cly)	loc cly loc ser chl carb	-	-	-	tr pyr	tr pyr	loc tr/wk		Sharp decrease in fracture and overall alteration intensity; all mafics chloritized, with patchy complete chloritization. Several broad, (> 4cm) bleached alteration envelopes on qtz veinlets.
240.5-245.2 ~~~~	Guichon/ Hybrid? wk fault zone	-	ckle/dis bx loc milled	cly, (loc ser) carb, loc chl (loc serp)	wk carb vnlt & f.f. wk qtz vnlt < 0.5 cm	loc hem stn ser jar stn ser/cly	jar stn cly & coatings	-	carb chl ser cly	cly (loc ser) carb loc chl (loc serp)	-	(loc cup)	tr pyr (loc cpy) (loc chal)	tr pyr (loc cpy)	loc tr		Possibly partially assimilated mafic xenolith. Reap- pearance of copper oxides; possibly oxidized NCu and fine grained cup on fractures. Jar fracture coatings give positive H <sub>2</sub> SO <sub>4</sub> .	
245.2-249.9	Guichon	-	wk/mod loc bkn/shatt	loc cly (ser) chl, carb	wk carb vnlt & f.f.	(loc jar stn ser/ chl) patchy hem stn alb	jar stn cly & coatings	-	chl patchy ser sil patchy bio carb (loc ep)	loc cly (ser) chl carb	-	-	tr cup	loc NCu (loc pyr) (loc cpy)	(loc NCu)	loc wk/ mod		Much of this interval is quite siliceous with patchy secondary bio. NCu and sulphides usually occur with mafics. Fracture and alteration intensity increase with depth. Possibly earlier propylitic assemblage with phyllic/potassic overprint. Trace crystalline cup in open fracture.

p2156Y

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
249.9-254.6	Guichon/ Hybrid loc mafic rich	loc thin 250.6 m	ckle/dis bx at top, wk/ mod at bottom	loc cly (ser) chl, carb	wk carb vnlt & f.f.	loc jar stn ser & chl	jar stn cly & coatings	chl loc ser sil bio loc carb patchy ep	loc cly (ser) chl carb loc ep	-	-	(patchy NCu) (loc pyr) (loc cpy)	(loc cpy)	wk loc mod		Fine grained mafic xenolith 253.4-254.1 m with diffuse contacts, fine grained pervasively disseminated (pyr) and (cpy). Increasingly siliceous with depth. Ep healed fractures with weak alb alteration envelopes.		
254.6-259.5	Guichon/ Hybrid loc mafic rich	loc 255.6 m ~ 2 cm	mod, loc stng/ bkn	loc cly, carb (loc ser) chl	wk qtz/carb vnlt <0.5 cm, w/jar staining	patchy hem stn ser/alb	loc jar stn cly & coatings loc hem stn chl	loc alb (patchy ep) chl (loc ser) loc sil	loc ep loc cly carb (loc ser) chl	-	-	(loc NCu)	(loc NCu)	wk/ mod		Grey-brown aplite dykelet 258.1 m ~ 20 cm. Overall alteration intensity decreases with depth. More mafic rich at top of interval with phenocrysts generally ghost-like, become much more distinct with depth.		
259.5-264.4	Guichon fault zone	261.4-261.8, 263.2 m, 264.0- 264.2 m	mod/stng loc int/crushed	cly (loc ser) chl, carb	wk carb vnlt <0.5 cm	loc jar stn cly/ ser	loc hem stn cly loc jar stn cly/ chl	chl loc alb (patchy ep) loc ser loc cly	cly (loc ser) chl carb (loc ep)	-	-	tr NCu	(loc NCu)	loc wk/ mod		Fresh Guichon at top. Several sections of moderate/strongly fractured Guichon separated by intensely fractured/gouge interval. Increasingly chloritic with depth.		
264.4-268.6	Guichon/ Hybrid? loc mafic rich fault zone	several sections 10-20 cm	int/gge, loc stng/ crushed	cly, loc ser chl carb	-	loc jar stn cly	loc jar stn cly	(loc carb) chl loc ser loc cly	carb cly loc ser chl	-	-	tr NCu	-	loc wk/ mod				
268.8-273.2	Guichon/ Hybrid loc mafic rich fault zone	loc thin	int, fault bx	cly, loc ser chl, carb	-	loc jar stn cly	loc jar stn cly	(loc carb) chl loc ser loc cly (loc ep)	carb cly loc ser chl loc ep	-	-	(loc pyr)	(loc pyr)	loc wk		Numerous mafic rich fine grained clasts; probably xenoliths.		
273.2-278.0	Guichon/ Hybrid loc mafic rich	-	mod/stng, loc ckle/dis bx	cly, loc ser carb, loc chl	wk carb vnlt & f.f.	loc jar stn cly	jar stn cly & coatings	loc alb loc chl loc ser loc cly	loc ep cly loc ser carb loc chl	chl (ep)	-	-	tr pyr	-	wk/ mod	Overall fracture and alteration intensity decreasing. Several sections of quite fresh Guichon separated by strongly altered/fractured intervals.		
278.0-282.4	Guichon/ Hybrid loc mafic rich wk fault zone	loc 280.0- 280.4 m	di sbx loc mod/stng	cly, loc ser chl, carb	carb f.f.	jar stn cly in bx matrix	jar stn cly & chl & coatings	chl loc sil loc ser (loc carb) loc cly	cly loc ser chl carb loc ep	-	-	(loc pyr) tr NCu	tr NCu	wk		Numerous fine grained mafic xenoliths. Overall fracture and alteration intensity stronger than previous interval. Aplite dykelet ~ 5 cm		

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv.	fract.	perv.				fract.
282.4-285.6	Guichon wk fault zone	-	stng/int, loc dis bx/milled	clt, loc ser chl, carb	-	jar stn clt in bx matrix, patchy hem stn alb	loc hem stn clt	-	chl loc ser loc clt loc carb loc ep	clt	loc ser chl carb	-	-	-	-	tr/wk	Fracture and alteration intensity increasing. Jar is finally beginning to decrease.	
EOH 285.6 m																		



Northing: 5614176.3		DDH 96-6				Azimuth: 045			
Easting: 641543.3		Elevation: 1754.8 m				Inclination: -45			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29662	16.7	18.2	0.13	0.01	-	-	-	-	Guichon:
29663	18.2	19.7	0.09	0.01	-	-	-	-	"
29664	19.7	21.2	0.11	0.01	-	-	-	-	"
29665	21.2	22.7	0.11	0.01	-	-	-	-	"
29666	22.7	24.2	0.12	<.01	-	-	-	-	"
29667	24.2	25.7	0.11	0.01	-	-	-	-	"
29668	25.7	27.2	0.08	0.01	-	-	-	-	"
29669	27.2	28.7	0.10	0.01	-	-	-	-	"
29670	28.7	30.2	0.10	0.01	-	-	-	-	wk fault (50 cm)
29671	30.2	31.7	0.20	0.02	-	-	-	-	"
29672	31.7	33.2	0.25	0.04	-	-	-	-	Guichon/Hybrid:
29673	33.2	34.7	0.18	0.03	-	-	-	-	"
29674	34.7	36.2	0.45	0.19	-	-	-	-	"
29675	36.2	37.7	0.33	0.15	-	-	-	-	"
29676	37.7	39.2	0.37	0.05	-	-	-	-	Guichon:
29677	39.2	40.7	0.29	0.05	-	-	-	-	"
29678	40.7	42.2	0.38	0.08	-	-	-	-	"
29679	42.2	43.7	0.33	0.07	-	-	-	-	"
29680	43.7	45.2	0.58	0.19	-	-	-	-	"
29681	45.2	46.7	0.44	0.12	-	-	-	-	"
29682	46.7	48.2	0.53	0.10	-	-	-	-	"
29683	48.2	49.7	0.39	0.11	-	-	-	-	Guichon/Hybrid:
29684	49.7	51.2	0.31	0.09	-	-	-	-	"
29685	51.2	52.7	0.24	0.08	-	-	-	-	Guichon/Hybrid?:
29686	52.7	54.2	0.29	0.08	-	-	-	-	"
29687	54.2	55.7	0.24	0.09	-	-	-	-	Guichon:
29688	55.7	57.2	0.24	0.06	-	-	-	-	"
29689	57.2	58.7	0.24	0.08	-	-	-	-	"
29690	58.7	60.2	0.38	0.19	-	-	-	-	wk fault (50 cm)
29691	60.2	61.7	0.34	0.24	-	-	-	-	"
29692	61.7	63.2	0.26	0.15	-	-	-	-	"
29693	63.2	64.7	0.27	0.17	-	-	-	-	"
29694	64.7	66.2	0.38	0.24	-	-	-	-	"
29695	66.2	67.7	0.45	0.28	-	-	-	-	"
29696	67.7	69.2	0.45	0.28	-	-	-	-	"
29697	69.2	70.7	0.37	0.23	-	-	-	-	"
29698	70.7	72.2	0.33	0.20	-	-	-	-	"
29699	72.2	73.7	0.42	0.27	-	-	-	-	"
29700	73.7	75.2	0.66	0.51	-	-	-	-	"
29701	75.2	76.7	0.76	0.61	-	-	-	-	"
29702	76.7	78.2	1.14	1.10	-	-	-	-	"
29703	78.2	79.7	0.39	0.14	-	-	-	-	"
29704	79.7	81.2	0.32	0.14	-	-	-	-	"
29705	81.2	82.7	0.30	0.10	-	-	-	-	"
29706	82.7	84.2	0.34	0.07	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29707	84.2	85.7	0.31	0.08	-	-	-	-	Guichon:
29708	85.7	87.2	0.31	0.10	-	-	-	-	"
29709	87.2	88.7	0.54	0.28	-	-	-	-	"
29710	88.7	90.2	0.38	0.23	-	-	-	-	"
29711	90.2	91.7	0.52	0.36	-	-	-	-	Guichon/Hybrid?:
29712	91.7	93.2	0.86	0.71	-	-	-	-	"
29713	93.2	94.7	0.63	0.49	-	-	-	-	"
29714	94.7	96.2	0.85	0.78	-	-	-	-	Guichon:
29715	96.2	97.7	1.04	0.99	-	-	-	-	"
29716	97.7	99.2	0.99	0.91	-	-	-	-	"
29717	99.2	100.7	0.85	0.73	-	-	-	-	Guichon/Hybrid:
29718	100.7	102.2	0.59	0.40	-	-	-	-	"
29719	102.2	103.7	0.64	0.40	-	-	-	-	"
29720	103.7	105.2	0.74	0.57	-	-	-	-	"
29721	105.2	106.7	0.51	0.35	-	-	-	-	"
29722	106.7	108.2	0.66	0.53	-	-	-	-	"
29723	108.2	109.7	0.93	0.84	-	-	-	-	"
29724	109.7	111.2	1.56	1.36	-	-	-	-	"
29725	111.2	112.7	0.62	0.42	-	-	-	-	"
29726	112.7	114.2	0.73	0.55	-	-	-	-	"
29727	114.2	115.7	1.01	0.78	-	-	-	-	Guichon/Hybrid?:
29728	115.7	117.2	0.68	0.42	-	-	-	-	"
29729	117.2	118.7	0.78	0.56	-	-	-	-	"
29730	118.7	120.2	0.85	0.67	-	-	-	-	Guichon/Hybrid:
29731	120.2	121.7	0.8	0.62	-	-	-	-	"
29732	121.7	123.2	0.84	0.66	-	-	-	-	"
29733	123.2	124.7	0.54	0.33	-	-	-	-	"
29734	124.7	126.2	0.54	0.34	-	-	-	-	"
29735	126.2	127.7	0.54	0.35	-	-	-	-	"
29736	127.7	129.2	0.41	0.21	-	-	-	-	"
29737	129.2	130.7	0.36	0.18	-	-	-	-	wk fault (20 cm)
29738	130.7	132.2	0.62	0.37	-	-	-	-	Guichon/Hybrid?:
29739	132.2	133.7	0.51	0.21	-	-	-	-	fault (4.1 m)
29740	133.7	135.2	0.49	0.27	-	-	-	-	"
29741	135.2	136.7	0.62	0.35	-	-	-	-	"
29742	136.7	138.2	0.46	0.22	-	-	-	-	"
29743	138.2	139.7	0.59	0.37	-	-	-	-	"
29744	139.7	141.2	0.46	0.27	-	-	-	-	Guichon/Hybrid:
29745	141.2	142.7	0.41	0.23	-	-	-	-	"
29746	142.7	144.2	0.49	0.23	-	-	-	-	"
29747	144.2	145.7	0.45	0.21	-	-	-	-	fault (50 cm)
29748	145.7	147.2	0.11	0.01	-	-	-	-	Guichon:
29749	147.2	148.7	0.13	0.01	-	-	-	-	"
29750	148.7	150.2	0.28	0.04	-	-	-	-	"
29751	150.2	151.7	0.10	<.01	-	-	-	-	"
29752	151.7	153.2	0.10	0.01	-	-	-	-	"
29753	153.2	154.7	0.11	<.01	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29754	154.7	156.2	0.19	0.01	-	-	-	-	Guichon:
29755	156.2	157.7	0.46	0.05	-	-	-	-	"
29756	157.7	159.2	0.68	0.08	-	-	-	-	"
29757	159.2	160.7	0.77	0.14	-	-	-	-	"
29758	160.7	162.2	0.75	0.09	-	-	-	-	"
29759	162.2	163.7	0.68	0.03	-	-	-	-	wk fault zone (10 cm)
29760	163.7	165.2	0.41	0.02	-	-	-	-	"
29761	165.2	166.7	0.33	0.02	-	-	-	-	"
29762	166.7	168.2	0.13	0.01	-	-	-	-	"
29763	168.2	169.7	0.19	0.02	-	-	-	-	"
29764	169.7	171.2	0.15	0.01	-	-	-	-	"
29765	171.2	172.7	0.13	0.01	-	-	-	-	Porphyry (Beth):
29766	172.7	174.2	0.22	0.02	-	-	-	-	"
29767	174.2	175.7	0.13	0.01	-	-	-	-	Porphyry (Beth) D6?:
29768	175.7	177.2	0.11	0.01	-	-	-	-	"
29769	177.2	178.7	0.1	0.01	-	-	-	-	wk fault zone
29770	178.7	180.2	0.09	0.01	-	-	-	-	"
29771	180.2	181.7	0.07	<.01	-	-	-	-	"
29772	181.7	183.2	0.08	-	0.1	<.01	5	0.001	Guichon xenolith
29773	183.2	184.7	0.17	-	0.2	0.01	5	0.001	"
29774	184.7	186.2	0.18	-	0.3	0.01	5	0.001	"
29775	186.2	187.7	0.16	-	0.5	0.02	5	0.001	"
29776	187.7	189.2	0.13	-	0.1	<.01	5	0.001	Porphyry (Beth):
29777	189.2	190.7	0.14	-	0.2	0.01	5	0.001	"
29778	190.7	192.2	0.11	-	0.2	0.01	5	0.001	"
29779	192.2	193.7	0.13	-	0.2	0.01	5	0.001	Porphyry (Beth) D6?:
29780	193.7	195.2	0.1	-	0.1	<.01	5	0.001	wk fault zone
29781	195.2	196.7	0.14	-	0.3	0.01	5	0.001	Guichon:
29782	196.7	198.2	0.19	-	0.7	0.02	5	0.002	"
29783	198.2	199.7	0.24	-	0.8	0.02	5	0.001	"
29784	199.7	201.2	0.17	-	0.7	0.02	5	0.001	wk fault zone (~200.0 m)
29785	201.2	202.7	0.21	-	0.8	0.02	5	<.001	"
29786	202.7	204.2	0.2	-	0.9	0.03	5	0.001	"
29787	204.2	205.7	0.14	-	0.5	0.02	5	<.001	"
29788	205.7	207.2	0.12	-	1	0.03	5	<.001	wk fault zone (50 cm)
29789	207.2	208.7	0.11	-	0.4	0.01	5	<.001	"
29790	208.7	210.2	0.1	-	0.4	0.01	5	<.001	"
29791	210.2	211.7	0.09	-	0.5	0.02	5	<.001	"
29792	211.7	213.2	0.16	-	0.4	0.01	5	0.001	wk fault zone (2 cm)
29793	213.2	214.7	0.1	-	0.4	0.01	5	<.001	wk fault zone
29794	214.7	216.2	0.11	-	0.3	0.01	5	0.001	"
29795	216.2	217.7	0.15	-	0.6	0.02	5	0.001	"
29796	217.7	219.2	0.11	-	0.4	0.01	5	0.003	wk fault zone
29797	219.2	220.7	0.15	-	0.4	0.01	5	<.001	"
29798	220.7	222.2	0.13	-	0.3	0.01	5	0.002	"
29799	222.2	223.7	0.14	-	0.4	0.01	5	0.001	"
29800	223.7	225.2	0.11	-	0.5	0.02	5	0.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29801	225.2	226.7	0.08	-	0.1	<.01	5	0.002	Guichon:
29802	226.7	228.2	0.13	-	0.1	0.01	5	0.001	"
29803	228.2	229.7	0.09	-	0.1	0.01	5	<.001	"
29804	229.7	231.2	0.13	-	0.2	0.01	10	0.004	"
29805	231.2	232.7	0.08	-	0.4	0.01	10	0.001	"
29806	232.7	234.2	0.15	-	0.1	0.01	10	0.001	fault zone (1 m)
29807	234.2	235.7	0.89	-	0.1	0.01	5	0.002	"
29808	235.7	237.2	0.20	-	0.1	0.01	10	0.001	"
29809	237.2	238.7	0.11	-	0.1	0.01	5	<.001	"
29810	238.7	240.2	0.11	-	0.1	0.01	5	0.001	Guichon/Hybrid?:
29811	240.2	241.7	0.08	-	0.1	0.01	10	<.001	wk fault zone
29812	241.7	243.2	0.12	-	0.1	0.01	5	0.002	"
29813	243.2	244.7	0.11	-	0.2	0.01	5	<.001	Guichon:
29814	244.7	246.2	0.07	-	0.1	0.01	10	0.001	"
29815	246.2	247.7	0.05	-	0.2	0.01	5	<.001	"
29816	247.7	249.2	0.05	-	0.1	0.01	10	<.001	"
29817	249.2	250.7	0.10	-	0.2	0.01	5	<.001	Guichon/Hybrid:
29818	250.7	252.2	0.09	-	0.1	0.01	5	0.001	"
29819	252.2	253.7	0.03	-	0.1	0.01	5	<.001	"
29820	253.7	255.2	0.05	-	0.1	0.01	10	<.001	"
29821	255.2	256.7	0.08	-	0.2	0.01	5	<.001	"
29822	256.7	258.2	0.04	-	0.1	0.01	5	<.001	"
29823	258.2	259.7	0.02	-	0.1	0.01	10	<.001	"
29824	259.7	261.2	0.04	-	0.1	0.01	5	<.001	Guichon:
29825	261.2	262.7	0.02	-	0.1	0.01	10	<.001	fault zone (40 cm)
29826	262.7	264.2	0.06	-	0.2	0.01	5	0.001	fault zone (263.2 m)
29827	264.2	265.7	0.03	-	0.2	0.01	5	0.001	Guichon/Hybrid?:
29828	265.7	267.2	0.03	-	0.1	0.01	10	<.001	fault zone (20 cm)
29829	267.2	268.7	0.03	-	0.1	0.01	5	0.001	"
29830	268.7	270.2	0.03	-	0.2	0.01	10	<.001	Guichon/Hybrid:
29831	270.2	271.7	0.05	-	0.1	0.01	5	0.001	fault zone
29832	271.7	273.2	0.07	-	0.1	0.01	5	<.001	"
29833	273.2	274.7	0.06	-	0.2	0.01	5	0.002	"
29834	274.7	276.2	0.07	-	0.1	0.01	10	0.001	"
29835	276.2	277.7	0.04	-	0.1	0.01	5	0.001	"
29836	277.7	279.2	0.02	-	0.1	0.01	5	<.001	"
29837	279.2	280.7	0.02	-	0.1	0.01	5	0.001	wk fault zone (40 cm)
29838	280.7	282.2	0.04	-	0.1	0.01	10	0.001	Guichon:
29839	282.2	283.7	0.05	-	0.1	0.01	5	<.001	wk fault zone
29840	283.7	285.6	0.01	-	0.1	0.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 96-7		Date		17-Feb-96		Logged by		VN											
Elevation		Azimuth		045		Northing:		5603917.2											
Inclination		Length		249 m		Easting:		641625.9											
ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS			
interval (m)	FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary							
	GOUGE	INTENSITY	SURFACES					perv.	fract.		perv	fract	perv	fract					
0-11.0	casing Overburden																		
11.0-14.0	Tertiary Volcanics/ Guichon/ Porphyry fragments																		Mostly Kamloops Volcanics, several fragments of Guichon and Bethlehem? porphyries. Fine grained fragment (possibly Witches Brook phase??) with strong pervasively disseminated mag and mag fracture filling 1-2 mm. Volcanics contain several small 1-2 cm fragments similar to this.
14.0-18.9	Guichon	int/crushed loc comp	cl <sub>2</sub> , carb (loc ser) chl <sub>r</sub>	carb f.f. & vnlt <0.5 cm	hem stn cl <sub>2</sub> /ser (alb?)	jar stn chl <sub>r</sub> /cl <sub>2</sub> (Mn-Cu spots)	Fe, cl <sub>2</sub>	carb cl <sub>2</sub> ser chl <sub>r</sub>	carb cl <sub>2</sub> (loc ser) chl <sub>r</sub>				loc pyr	loc pyr	loc tr			Strongly weathered Guichon with pervasive hem/jar staining. Several very strongly chloritized, very fine grained fragments of _____? (Nicola perhaps?) with strong pervasively disseminated pyr with hem.	
18.9-23.1	Guichon	bkn/shatt loc crushed loc comp	cl <sub>2</sub> , loc ser carb, chl <sub>r</sub>		loc jar stn cl <sub>2</sub>	Mn-Cu spots jar stn cl <sub>2</sub> & coatings	Fe, cl <sub>2</sub>	loc ep chl <sub>r</sub> (loc ser) (loc carb) (loc cl <sub>2</sub> )	cl <sub>2</sub> loc ser carb chl <sub>r</sub> loc ep	loc chl <sub>r</sub> ep?			loc pyr		loc wk/ mod		More competent sections contain fractures with weakly developed ser alteration envelopes. Recovery to this point has been fair.		
23.1-26.3	Guichon/ Hybrid loc mafic rich	mod/stng, loc bkn/crushed	chl <sub>r</sub> , ser (carb), loc cl <sub>2</sub>	wk qtz/chl <sub>r</sub> / pyr healed fracts		loc jar stn ser & chl <sub>r</sub> loc hem stn chl <sub>r</sub>		chl <sub>r</sub> patchy ser alb? (loc ep)	chl <sub>r</sub> ser (carb) loc cl <sub>2</sub> (loc ep)	chl <sub>r</sub>			(cpy) pyr	pyr	mod		Jarositic fracture staining and coating ends at ~ 25.0 m, and chl <sub>r</sub> on fractures increases from this point on. Pervasively disseminated pyr evident throughout with some stronger patches. Very fine grained disseminated (cpy) with mafic, throughout interval. Pyr 1-2%		
26.3-30.8	Guichon/ Hybrid loc mafic rich	loc, suspect some lost 29.7 m	wk, loc stng/ bkn	chl <sub>r</sub> , (ser) carb, loc cl <sub>2</sub>	num qtz/chl <sub>r</sub> / pyr healed fracts, wk qtz vnlt 1-2 mm	patchy hem stn alb		patchy alb/ep (chl <sub>r</sub> ) (loc ser) loc K-spar	(ser) chl <sub>r</sub> carb loc cl <sub>2</sub> loc ep	chl <sub>r</sub>			pyr (cpy)	(pyr) tr cpy	mod		Comminuted sulphides (mostly pyr) in cl <sub>2</sub> gouge. Strongly hem stained alb alteration envelope on qtz/chl <sub>r</sub> healed fractures. Scattered partially assimilated xenoliths. Possibly local K-spar alteration associated with qtz veinlets and healed fractures. Should be stained. Pyr ~ 0.5%		

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.		perv	fract	perv	fract			
30.8-34.5	Guichon	loc, suspect some lost 32.2 m	wk/mod, loc stng/bnkn	(chl) (ser) carb, loc cly	wk qtz vnits 1-2 mm alb vnlt ~ 1 cm	hem stn alb	-	-	patchy alb loc chl patchy ep (loc ser)	loc alb (chl) (ser) carb loc cly loc ep	chl	-	-	pyr (cpy) (loc cpy)	pyr	mod	Scattered 1-2 cm mafic xenoliths. Blue-green ser locally in healed fractures. Locally strong albite alteration associated with albite veinlet, probably alb impregnation of wallrock. Locally diffuse ep alteration envelope on healed fracture. Pyr 0.5-1.0%.
34.5-39.0	Guichon	suspect some lost	wk/mod stng/bkn loc crushed from 35-38 m	chl, loc ser carb, loc cly	wk qtz vnits num chl/ qtz/(pyr) healed fracts	hem stn alb	loc jar stn chl & carb	-	loc ep loc chl patchy alb (loc ser)	chl loc ser carb loc cly loc ep	chl ep	-	-	(pyr) tr cpy	(pyr)	mod	Significant drill rounded fragments and core loss in this interval suspect loss of fracture coatings (ie: ser, chl, sulphides?) in this interval. Pervasive alb/ep alteration increasing. Several qtz veinlets (~ 1 mm) and ep healed fractures with diffuse ep alteration envelope. Blue green ser locally in healed fractures. Pyr <0.5%.
39.0-42.5	Guichon	loc thin 39.6 & 42.0 m suspect some lost	wk, loc mod	loc cly, chl loc ser, carb	wk qtz/pyr vnits ~ 1 mm	(loc hem stn alb)	(loc jar stn chl & carb)	-	loc alb (patchy ep) (loc chl) (loc ser)	loc cly chl loc ser carb (loc ep)	chl ep	-	-	pyr tr cpy	pyr	mod	Local weakly developed foliation. Blue-green ser locally on fractures and healed fractures. Pervasive hem staining of alb nearly absent by end of interval. Scattered chloritic mafic clots 0.5 - 1 cm. Local textural/compositional variations; probably assimilated xenoliths.
42.5-44.0	Guichon	-	stng/bkn loc comp	loc cly (chl) loc ser carb	wk qtz/pyr vnits 1-2 mm	-	-	-	alb chl (loc ser)	loc cly (chl) loc ser carb loc ep	chl ep	-	-	pyr (cpy)	pyr	mod	Scattered partially assimilated xenoliths. Some drill rounding 42.7-43.6 m. Contact at 44.0 m with D3 hornblende-plagioclase crowded porphyry
44.0-46.0	Porphyry (Bethlehem) D3	-	mod/stng	ser, chl, carb (cly?)	wk qtz/pyr vnits 1-2 mm	-	(loc jar stn ser)	-	(loc ser)	ser chl carb (cly?)	ep chl	-	-	pyr	pyr	loc tr	Porphyry contains mafic blobs that contain or are surrounded by deuteric ep. Local ser and qtz alteration envelopes to 0.5 cm. Fairly fresh porphyry.
46.0-49.8	Porphyry D3	-	shatt/bkn loc mod/stng	ser, chl, loc carb	(loc carb f.f.) 1 2 mm carb vnlt	-	loc jar stn cly? and coatings	-	(loc ser)	ser chl loc carb	ep chl	-	-	pyr	pyr	tr	Local ser and qtz alteration envelopes to 0.5 cm. Local diffus, faint chl banding perpendicular to the core axis.
49.8-52.8	Porphyry D3	-	shatt/bkn loc mod, loc stng	ser, loc chl carb, loc cly?	(carb f.f.)	-	loc jar stn cly/ ser (loc hem "spots")	-	loc alb (carb) loc sil	ser loc chl carb loc cly?	ep chl	-	-	pyr	pyr	tr	Alteration increasing; mafic clots contain carb. Qtz ± ser alteration envelopes, up to 1 cm across.
52.8-55.0	Porphyry D3	-	bkn, loc mod loc crush & cly zones	ser, carb	(carb f.f.) 1 3 mm qtz vnlt	-	-	-	alb sil?	ser carb	ep chl	-	-	pyr	pyr	tr, loc wk	53.3-53.5m fragments drill rounded and broken.

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
55.0-56.8	Guichon	-	ckle bx (very well healed, mod/stng pieces) loc bkn	ser, carb, chl (loc cly) sil	qtz vnlt 3 mm 1 brecciated qtz vein 5 cm	-	-	-	ep sil? alb	ser carb chl (loc cly) sil	-	-	-	pyr	pyr	loc wk		Ckle brecciated qtz, ep, chl healed. Qtz veinlets post ckle breccia. 3 mm qtz veinlets have pyr cores. One 1 cm thick pyr veinlet 60° C.A. Local very small "freckles" of red hem in ep
56.8-61.8	Guichon	loc thin	bkn/loc shatt loc stng, loc mod, loc crush	ser, (loc chl) mod/stng carb	(loc carb f.f.)	-	-	-	alb chl patchy ep loc ser	ser (loc chl) mod/ stng carb	-	-	-	pyr tr cpy	mod/ stng pyr	wk/ mod		Pyr/qtz/carb fracture filling with sil alteration envelopes to 0.5 cm. Generally discrete pervasive chl. Local pale green ser interval pyr in mafics cpy appearing in mafics, 1% pyr.
61.8-65.2	Guichon fault	64.2-65.0 10° C.A.	shatt/stng loc mod, loc bkn & gge	ser (chl) carb, loc cly	(carb f.f.)	-	loc jar stn ser & cly in gge	-	chl loc ser loc alb (cly)	ser (chl) carb loc cly	-	-	-	pyr tr cpy	pyr tr cpy	loc wk/ mod		Local secondary biotite. Pervasive chl discrete and wash. Pyr and qtz and carb f.f. with sil alteration envelopes < 0.5 cm. 1-2% pyr Pyr>>cpy. Most of chl starting to turn to cly Lose mag as approaching fault. Local jar associated with pyr fracture filling after gge.
65.2-68.9	Guichon	-	mod, loc stng loc shatt/bkn	ser, (chl) carb, (loc cly)	qtz vnlt to 1 cm, wk stkwk (carb f.f. & irreg vnlt)	-	loc jar (stn cly) and coating	-	loc ep (loc ser) alb chl (loc sil?)	ser (chl) carb (loc cly)	-	-	-	pyr tr cpy	pyr (loc pyr)	wk loc mod		Local secondary biotite. Qtz veinlets with pyr caores. Locally diffuse ep alteration envelopes. Ser overprint on alb/ep alteration. Discrete and pervasive chl.
68.9-72.7	Guichon	some slip	mod, loc stng loc ckle bx & crush, well healed	(chl) loc ser mod/stng carb	carb f.f. & vnlt to 3 mm	-	-	-	loc cly carb (ser)	(chl) loc ser mod/ stng carb	-	-	-	pyr tr cpy	pyr	wk/ mod		Most pervasive carbin mafics and feldspars. Pervasive cpy increasing. 2 % pyr. One 2 cm pink carb alteration envelope/band.
72.7-76.5	Guichon	loc thin	mod/loc stng wk, & bkn	ser, (chl) carb, loc cly	carb f.f. & vnlt to 1cm	-	-	-	carb loc alb loc cly ser chl	ser (chl) carb loc cly	-	-	-	pyr (loc cpy)	pyr tr cpy	tr loc wk		Secondary biotite increasing. Alteration increasing Local pervasive chl towards end of box.
76.5-80.2	Guichon	some slip	wk, loc mod loc stng/shatt loc crush & very well healed	loc sil, chl, (cly) (ser)	carb f.f. & irreg vnlt to 0.5 cm	-	-	-	chl cly ser carb loc bio	loc sil chl (cly) (ser)	-	-	-	pyr (loc cpy)	pyr loc tr cpy	loc wk		Local secondary biotite. Pervasive chl, ser and carb starts to die out around 79.2 m. Qtz, carb, ser alteration envelopes 0.2-1 cm One crystalline calcite vug. One 0.5 cm pyr veinlet. Pyr>>cpy. 2% pyr.

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	Supergene		primary				
							perv.	fract.		perv	fract	perv	fract				
80.2-83.8	Guichon	some slip	mod/stng, loc shatt/bkn	chl, ser, carb	(carb f.f. & irreg carb vnits) qtz & pyr vnits to 3 mm	-	-	-	mod/ stng chl/ser patchy carb cly	chl ser carb	-	-	-	pyr (loc cpy)	pyr loc cpy	loc tr	Local open fractures. Better developed alteration envelopes. Local (pyr and qtz) stockwork. Sil alteration envelopes to 1 cm across. Cpy in carb veinlets towards end of box. Pyr>>cpy.
83.8-88.4	Guichon wk fault	87.1-88.2 m	mod, loc stng loc crush & mill, loc bkn	chl, (cly) loc ser	carb f.f. & vnits to 1cm & impreg- nations	-	-	-	ser chl cly	chl (cly) loc ser	-	-	-	pyr loc cpy	loc cpy pyr	tr	Qtz veinlet fragments with pervasive cpy blobs. Strong increase in cpy. Mostof cpy in a very pale pink opaque carb (ankerite?) Local drill rounding of qtz veinlet fragments with cpy blobs. Local open fractures and vugs. > 2% pyr. Pervasive and fracture carb just about disappears. Healed shear zone 85.3-86.0 m.
88.4-92.0	Guichon fault	89.1-92.0 m	fault bx/bkn loc mill & gge	cly, ser, chl (loc carb)	(carb frags) (qtz frags)	-	-	-	mod/ stng chl/ser (cly)	cly ser chl (loc carb)	-	-	-	pyr loc cpy	loc cpy pyr	tr	Pyr and qtz veinlets to 0.5 cm, loc ser and qtz alteration envelopes on pyr veinlets to 0.5 cm across, crushed sulphides in gouge.
92.0-95.7	Guichon	some slip	mod/stng, loc shatt/bkn loc crush & mill	chl, loc ser wk/mod carb loc cly	(loc carb f.f.) pyr vnits to 3 mm (loc wk stkwk)	loc jar stn ser	-	-	mod/ stng chl/ser (cly)	loc cly loc ser chl wk/ mod carb	-	-	-	pyr loc cpy	pyr loc cpy	tr loc wk	Ser and qtz alteration envelopes with outer jar stained ser alteration envelopes on pyr ± cpy + qtz ± carb veinlets. >1.5 % pyr.
95.7-98.8	Guichon	loc thin	stng/shatt loc bkn loc mod	loc chl, loc ser loc cly, mod/stng carb	(carb f.f. & irreg vnits)	loc hem stn ser	-	-	wk/ mod carb patchy ser (loc cly)	loc chl oc ser loc cly mod/ stng carb	-	-	-	pyr	pyr loc cpy	wk loc mod	Alteration decreasing. Cpy still appearing. Fracture pyr>pervasive pyr. Local pale pink carb veinlets with blobs of cpy.
98.8-102.3	Guichon fault	102.2- 102.3 m	bkn, loc shatt loc stng, loc wk	loc chl loc ser loc cly, carb	(carb f.f. & irreg vnits)	-	-	-	loc cly loc carb ser chl	loc chl loc ser loc cly carb	-	-	-	(loc cpy) pyr	pyr (loc cpy)	tr/wk loc mod	Alteration decreasing. ~ 2% pyr.
102.3-106.4	Guichon fault	102.3- 104.9 m	fault gge & milled, loc shatt/bkn	(chl), cly loc ser, carb	(carb f.f.)	-	-	-	(carb) ser chl loc cly	(chl) cly loc ser carb	-	-	-	pyr (cpy)	pyr (loc cpy)	wk/ mod	2% pyr



ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
106.4-109.8 ~~~~	Guichon wk fault loc gge	108.8-109.8 107.6 m	stng/shatt, loc bkn, loc	chl, carb, loc ser, cly	carb f.f. & vnits	-	-	-	loc carb	chl cly	-	-	-	pyr (cpy)	pyr loc	loc tr/wk		Possible xenolith at start of box. Local secondary biotite. Pervasive cpy increasing. Local cpy ± qtz veinlets & pyr + qtz veinlets to 2 mm with qtz/ser alteration envelopes 0.5-1 cm
109.8-113.7 ~~~~	Guichon wk fault	112.8- 113.1 m	mod/stng, loc bkn, crush & mill, loc gge	chl, cly, loc ser, wk/mod carb	(carb vnlt frags) qtz vnits to 1 cm	-	-	-	wk/ mod carb loc cly chl ser	chl wk/ mod carb loc ser cly	-	-	-	patchy cpy pyr	(loc mo) pyr	tr, loc mod		<1% cpy, 1.5 pyr. 1 cm qtz vienlet has pyr/cpy core and mo on margins. Cpy increasing.
113.7-117.9 ~~~~	Guichon fault	114.0- 117.3 m	stng/mill & gge, loc bkn & mod	chl, cly, loc ser, carb	irreg carb vnits to 2cm	-	-	-	(carb) chl ser cly	chl cly loc ser carb	-	-	-	wk/ mod pyr loc cpy	patchy pyr loc cpy	tr		>1% pyr, 1% cpy
117.9-121.2 ~~~~	Guichon fault	114.0- 117.3 m	mod/stng, loc bkn, crush & mill, loc gge	chl, cly, ser carb	irreg carb vnits & f.f. 1 irreg qtz/ carb vnlt	-	-	-	(carb) chl ser cly	chl cly ser carb	-	-	-	wk/ mod pyr loc cpy	(pyr) loc cpy	tr/wk		Carb matrix in dislocation. Qtz and ser alteration envelopes to 0.5 cm on cpy, pyr veinlets. 1% pyr. Guichon texture hard to pick out because of strong alteration.
121.2-125.2 ~~~~	Guichon fault	121.2- 121.9 m	mod/shatt & bkn, loc wk	wk/mod chl loc cly, loc ser, carb	carb f.f. & vnits to 0.5 cm, (qtz vnits 0.3-1 cm)	-	-	-	wk/ mod carb chl ser patchy cly	wk/ mod chl loc cly loc ser carb	-	-	-	patchy cpy wk/ mod pyr	pyr loc cpy	tr/wk loc mod		Alteration decreasing. Guichon texture reappears 1% pyr, <1% cpy. Weak qtz and ser alteration envelopes to 0.5 cm
125.2-129.0	Guichon	-	mod/stng loc shatt, loc bkn, loc crush	chl, (ser) (loc cly) carb	carb vnits to 2 cm & f.f. (qtz vnits to 0.5 cm)	(loc hem stn ser	-	-	wk/ mod carb mod/ stng ser & chl loc cly loc bio	chl (ser) (loc cly) carb	-	-	-	(pyr) (cpy)	pyr loc cpy	wk/ mod loc tr		Local secondary biotite. Weak local hem stained ser alteration envelopes. One bleached ser alteration envelope on a weak local thin qtz veinlet stockwork. 1% pyr, <1% cpy. Pervasive sulphides now mostly in alteration envelopes. Pervasive cpy = pervasive pyr.

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary				
								perv.	fract.		perv	fract	perv	fract			
129.0-132.9	Guichon	loc thin	mod, loc shatt & bkn, loc stng	(chlr) (ser) loc cly, carb	(carb f.f. & vnlt to 0.3 cm) (qtz vnlt 0.3-1.5 cm)	(loc hem - stn ser & alb)	-	wk/ mod carb ser chlr (patchy sil) loc alb loc bio	(chlr) (ser) loc cly carb	-	-	-	(loc pyr) loc tr cpy	loc wk/ mod pyr loc cpy	wk	Alteration decreasing. Carb veinlets>qtz veinlets. Weak local hem stained ser and alb alteration envelopes. Local secondary biotite. Cpy still concentrated in healed fractures. Pervasive cpy around healed fractures.	
132.9-135.6	Guichon	loc thin	bkn, loc shatt stng & mod	loc chlr, (ser) mod/stng carb	(carb vnlt) (qtz vnlt 0.5-1 cm)	(loc hem - stn ser & alb)	-	wk/ mod carb chlr (ser) (patchy sil)	loc chlr (ser) mod/ stng carb	-	-	-	(loc pyr) loc tr cpy	loc wk/ pyr	wk	134.8-135.2 m porphyry dykelet. Weak local hem stained ser and alb alteration envelopes. Most of pervasive cpy and pyr in alteration envelopes.	
135.6-139.5	Porphyry (contaminated with Guichon)	loc thin	bkn, loc shatt & stng, loc ckle bx	(chlr), (ser) cly, mod/stng carb	carb f.f. (& vnlt) (qtz vnlt 0.5-1 cm)	(loc hem - stn ser)	-	(carb) chlr ser (cly) (loc sil?)	(chlr) (ser) cly mod/ stng carb	-	-	-	(loc cpy) (loc pyr)	pyr (loc cpy)	-	Fourteen qtz veinlets have pyr ± cpy cores.	
139.5-143.2	Porphyry wk fault zone	141.0-143.2 m	bkn/ckle bx loc crush & mill	wk/mod chlr (ser) cly, carb	carb f.f. & vnlt (qtz vnlt 2 mm [forms wk stkwk])	loc hem - stn ser	-	chlr ser loc carb (cly)	wk/ mod chlr (ser) carb cly	-	-	-	(loc pyr) (loc cpy) pyr	(loc cpy) pyr	tr loc wk	Hard to tell rock type because of alteration and ckle breccia. Qtz and ser alteration envelopes to 1 cm across on 2 mm poorly developed qtz + pyr ± cpy veinlets. Pyr >0.5%, cpy < 0.5%.	
143.2-146.4	Porphyry	some slip	bkn/shatt loc ckle bx (mod/stng pieces)	(chlr) (ser) (cly) mod/stng carb	carb f.f. (& irreg vnlt) (qtz vnlt <2 mm [forms wk stkwk])	(loc hem - stn ser & alb)	-	chlr ser carb (cly)	(chlr) (ser) (cly) mod/ stng carb	-	-	-	tr/wk cpy (loc pyr)	(loc mo) wk/ mod (loc pyr)	tr loc wk	Molybdenite on a slip surface. Several fragments drill rounded. Cpy picking up on fractures. Cpy>pyr. cpy ≥ 1.5%. pyr >0.5%	
146.4-149.6	Porphyry	-	bkn, loc shatt loc stng	(loc chlr) (ser) mod/stng carb loc sil	qtz vnlt 0.2-1 cm	(loc hem - (LOC HEM stn alb)	-	chlr ser (carb)	(loc chlr) (ser) mod/ stng carb loc sil	-	-	-	(loc cpy) (pyr)	loc wk/ mod	wk loc mod	Ser alteration more discrete. Cpy in core of qtz veinlets. Cpy ≥ 1.5%, pyr 0.5%	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
149.6-153.2	Guichon	some slip	mod, loc stng wk & bkn	(chlr) wk/mod ser, wk/mod carb	(carb f.f. & irreg vnlt) (qtz vnlt to 0.5 cm)	-	-	-	chlr loc ser (carb)	(chlr) wk/ mod ser & carb	-	-	-	(loc cpy) loc tr pyr	(loc mo) wk/ mod cpy loc pyr	mod loc wk	Local mo in core of qtz veinlet. Local secondary biotite. Chlr healed fractures <2 mm. Cpy 1-1.5% pyr>0.5%. Cpy>pyr.	
153.2-156.7	Guichon fault	156.2- 157.6 m	mod/stng & loc shatt to 154.3 m wk, loc mod to 156.2 m	wk/mod chlr ser, wk/mod carb	(carb f.f. & irreg vnlt) (2 qtz vnlt 0.5 & 2 cm)	-	-	-	mod/ stng ser & chlr (loc cly)	wk/ mod chlr ser wk/ mod carb	-	-	-	(cpy) (loc pyr) (cpy)	(loc mo) (pyr) (cpy)	tr/wk loc mod	Local secondary biotite. Local mo in thin 2 mm qtz veinlet crosscutting another qtz veinlet. Most of cpy still in alteration envelopes. One 0.5 cm qtz veinlet with local 3 mm cpy core. Local pale pink crystalline clacite in larger irregular carb veinlet.	
156.7-160.1	Guichon	some slip	mod, loc bkn & shatt	wk/mod chlr ser, mod/stng carb	(carb f.f. , 1 0.5 cm vnlt) (qtz vnlt 2 mm-1.5 cm) 50° C.A.	-	-	-	chlr wk/ mod ser (carb) loc sil	wk/ mod chlr ser mod/ stng carb	-	-	-	loc cpy loc tr pyr	wk/ mod pyr wk/ mod cpy	wk/ mod	Local secondary biotite. Alteration decreasing. Local crystalline calcite on fractures. Qtz veinlets> carb veinlets. Cpy 1%, pyr 0.5-1% Cpy>pyr.	
160.1-163.7	Guichon	-	bkn, loc mod loc wk	chlr, ser, carb	(loc carb f.f.)	-	-	-	wk/ mod chlr (loc ser) (carb)	chlr ser carb	-	-	-	(loc cpy)	wk/ mod pyr loc cpy	wk/ mod	Most of pervasive chlr is discrete. Cpy in core of qtz veinlet. Cpy=pyr on fractures.	
163.7-164.1	Bethlehem	-	mod	chlr, ser, carb	(carb f.f. & 1 0.5 cm vnlt) (qtz vnlt 0.3- 1 cm)	-	-	-	chlr ser (carb) (loc sil)	chlr ser carb	-	-	-	patchy cpy	wk/ mod pyr loc cpy	mod		
164.1-164.6	Guichon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
164.6-165.1	xenolith	slip	bkn, loc mod	chlr, ser wk/mod carb	1 carb f.f. 1 carb vnlt	-	-	-	chlr ser cly (carb)	chlr ser wk/ mod carb	-	-	-	(loc cpy)	(loc cpy)	mod	Local pervasive chlr.	
165.1-167.6	Guichon	some slip	mod, loc stng & bkn, loc crush & wk	chlr, ser, carb	-	-	-	-	(carb) chlr (patchy alb)	chlr ser carb	-	-	-	(loc pyr)	(pyr) (loc cpy)	mod	Pyr>cpy. Pyr1%, cpy 0.5-1%.	

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL.	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract		
167.6-173.4	Guichon/ Hybrid	loc thin	mod, loc stng & bkn, loc wk	(loc chlr) (ser) carb	(carb f.f.) (qtz & pyr vnlt	loc hem stn alb	-	-	(loc ep) (loc chlr) (carb) (alb) (chlrl) (loc sil)	(loc chlr?)	-	(loc pyr) (loc mo) (cpy) (loc cpy)	pyr (loc mo) (loc cpy)	mod		Local ep in 1 cm thick hem stained alb band. Carb in mafics. Alteration decreasing. Weak discrete chlr alteration. Chlr healed fractures and alteration envelopes on pyr and qtz (<3 mm) veinlets. Local secondary biotite. 0.5 cm qtz veinlet has pyr & cpy core and mo veinlet margins. ***Check mo values. Pyr 1%, cpy 0.5%	
169.9 m = 8 cm xenolith					< 3 mm- 0.5 cm)												
~~~~~	wk fault zone	177.2- 178.3 m	loc mod, loc stng	wk/mod ser wk/mod car loc cly	(qtz vnlt	stn alb			patchy alb (chlrl) (patchy ser) loc cly	mod chlrl & ser & carb loc cly	chlrl?)		pyr (loc cpy)	(pyr)			& cpy & qtz veinlets < 2 mm with chlrl alteration envelopes to 0.5 cm. Most fo pyr and cpy contained in chlrl alteration envelopes.
179.3-184.5	Guichon fault	179.4- 181.1 m	crush, gge bkn, loc stng to 181.1 m, mod, loc stng & bkn, loc wk	chlrl, wk/mod ser, loc cly carb	irreg carb vnlt 0.5- 2 cm & carb matrix	loc hem stn carb vnlt			loc cly carb mod/ stng chlrl patchy ser patchy alb	chlrl wk/ mod ser loc cly carb	-	(loc cpy)	(pyr) (loc cpy)	tr/wk loc mod		One fracture coated with "mystery" mineral (pale yellow, transparent, tetragonal). Locally chlrl has been completely altered to clay. Pervasive cpy in alteration envelopes. Cpy <0.5%, pyr>0.5%	
184.5-189.9	Guichon fault	184.9- 185.6 m	stng/shatt & bkn, loc mod, loc gge	wk/mod chlrl (ser) loc cly wk/mod carb	(loc carb f.f.)			loc carb (chlrl)	wk/ mod chlrl	chlrl?)		(loc pyr) loc tr cpy	wk/ mod pyr (loc cpy)	mod		Local pervasive carb in gouge. Chlrl + pyr ± cpy healed fractures with bleached ser alteration envelopes up to 1 cm across. Pyr >0.5%, cpy 0.2%. 90% of pyr and cpy in fractures and chlrl healed fractures.	
187.4- 187.7 m	wk fault								loc cly (ser) wk/ mod carb								
189.9-194.1	Porphyry (med grey, 30% faint plag phenos)	loc thin (parallel to C.A.)	mod/stng loc bkn	(chlrl) wk/mod ser wk/mod carb	(carb f.f.)			(chlrl?)	(chlrl) wk/ mod ser & carb				wk/ mod pyr (loc cpy)	mod		Ser alteration envelopes on chlrl + pyr healed fractures.	
194.1-199.1	Guichon/ Hybrid	-	mod, loc stng & shatt	wk/mod chlrl ser, carb	(carb f.f.) (qtz + pyr + cpy vnlt <0.5 cm) 1 0.5 cm qtz vnlt 40° C.A.	(loc hem stn ser)		(carb) (loc alb) (chlrl) (loc ser) (loc ep)	wk/ mod chlrl ser carb	(chlrl?) (loc ep)		(loc pyr) loc tr cpy	pyr loc cpy (loc mo)	wk/ mod loc tr		Chlrl + pyr ± cpy healed fractures. Ser alteration envelopes. Pyr and cpy have increased. Pyr > 1%, cpy 0.5-1%. 90% of pyr and cpy in fractures. Local mo in blobs along 0.5 cm qtz veinlet.	

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary				
									perv.	fract.	perv	fract	perv	fract			
199.1-203.7 (200.0-200.9)	Guichon Aplite dykelet	loc thin, parallel to C.A.	bkn & shatt loc mod	wk/mod chlr wk/mod carb mod/stng ser loc cly	(carb f.f.) 1 1cm qtz vnl	-	(loc hem stn ser)	-	(carb) (chlr?) (loc sil)	wk/ mod chlr & carb mod/ stng ser loc cly	(chlr?) (loc ep)	-	(loc pyr) (loc cpy)	wk/ mod pyr loc cpy	mod		Carb in mafics. 1 cm qtz veinlet contains 30% pyr. Chlr and pyr ± healed fractures. Aplite contains some hydrothermal ep in chlr.
203.7-208.6	Guichon	some slip	bkn & shatt loc mod to 205.4 m wk/mod, loc shatt	chlr, ser, wk/mod carb (loc cly)	(carb f.f.)	-	-	-	loc ep (chlr?) (loc alb) loc ser (loc sil)	chlr ser wk/ mod carb (loc cly)	(chlr?)	-	(loc pyr) (loc cpy)	wk/ mod pyr cpy	mod loc tr		Ser alteration envelopes to 1 cm across on chlr & pyr healed fractures. Predominant set 40° C.A. Local dark mafic patches with ep
208.6-214.1 (208.8-209.6)	Guichon/ Hybrid xenolith	loc thin	wk/mod, loc stng, loc shatt	wk/mod chlr (ser) wk/mod carb	(carb f.f.) (qtz & pyr vnl 1 mm - 1.0.5 cm)	-	-	-	(loc carb) (loc chlr)	wk/ mod chlr (ser) wk/ mod carb	chlr	-	(loc pyr)	wk/ mod pyr (loc cpy)	mod		20% xenoliths. One fracture coated with yellow stained mystery mineral. Local (carb) in mafics. Chlr and pyr healed fractures with ser alteration envelopes to 1 cm across. Ser alteration envelopes in xenolith bleached and distinct. ~ 1% pyr 0.2 % cpy.
214.1-219.1	Guichon/ Hybrid	-	wk/loc mod loc stng/shatt	chlr, ser, carb	carb f.f. & 1 3mm vnl	-	loc red hem coating	-	(loc carb) (chlr?) (loc ep)	chlr ser carb	chlr?	-	loc tr cpy	pyr (loc cpy)	mod		(Local carb) in mafics. >95% pyr and cpy in fractures.
219.1-224.5	Guichon/ Hybrid	-	mod, loc stng loc shatt bkn & wk	(chlr) ser wk/mod carb	(carb f.f.) 2 4mm carb vnlt (qtz vnlt < 3 mm)	-	(loc hem stn ser)	-	(carb) (chlr?)	(chlr) ser wk/ mod carb	chlr?	-	(loc pyr)	pyr	mod loc wk		(Carb) in mafics. Local crystalline clacite on fracture. One carb veinlet 80% pyr. Ser alteration envelopes on pyr and carb veinlets 1.5 cm thick. Chlr and pyr healed fractures. ≤ 1% pyr ~ 0.1 % cpy?
224.5-229.1	Guichon	-	mod, loc bkn & shatt	(chlr) ser wk/mod carb	(carb f.f.) (qtz & pyr vnlt <3mm)	-	(loc hem stn ser)	-	(carb) (chlr?) (loc alb)	(chlr) ser wk/ mod carb	chlr?	-	(loc pyr)	loc cpy wk/ mod pyr	mod loc wk		(Carb) in mafics. Qtz and pyr veinlets with ser lateration envelopes to 1 cm across.
229.1-233.5	Guichon	loc thin	mod/bkn, loc stng & shatt loc crush & gge	(chlr), wk/mod ser, loc cly wk/mod carb	(carb f.f. & 1 vnl) (loc qtz + pyr ± cpy <3 mm vnlt)	(loc hem stn alb)	(loc hem stn ser)	-	(carb) (chlr?) (loc ser)	(chlr) wk/ mod ser loc cly wk/ mod carb	chlr? tr ep	-	(loc pyr)	loc cpy wk/ mod pyr	mod loc wk		(Carb) in mafics. One 1.5 cm aplite dykelet. Cpy reappears. Local discrete ser patches. Cpy ≥ 0.5%, 1% pyr. >90% pyr and cpy in fractures.

ROCK TYPE		STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
233.5-238.3	Guichon	-	mod, loc shatt & bkn	wk/mod chl (chl) carb	(carb f.f.)	-	loc hem stn ser & coatings	-	(chl?) (loc alb) loc ep	wk/ mod chl (ser) carb	ep	-	-	(loc pyr)	wk/ mod pyr	wk/ mod		Local crystalline calcite on fractures. Noticeable increase in deuterite ep. Local crystalline calcite on a few fractures. 1% pyr. Local hydrothermal ep in alteration envelope on a carb and chl fracture filling.
238.3-242.9	Guichon	-	mod/bkn & shatt, loc stng	wk/mod chl ser, carb	(carb f.f.) (pyr + qtz vnlt 2 mm)	-	-	-	(carb) (patchy alb) (loc sil) (chl)	wk/ mod chl ser carb	(chl) (ep)	-	-	(loc pyr)	wk/ mod pyr (loc cpy)	mod		Carb in mafics. Local crystalline calcite on fractures. Pyr and qtz ± cpy veinlets. Pyr and chl ± fracture filling with ser alteration envelopes to 1 cm
242.9-249.0	Guichon	loc thin	mod, loc bkn & shatt	(chl), loc ser carb	(carb f.f.) 1 0.5 cm vnlt. 1 0.5 cm qtz & pyr vnlt	-	-	-	(patchy sil) (carb) loc cly (chl)	(chl) loc ser carb	(chl)	-	-	(pyr) (loc cpy)	mod		Alteration decreasing? Local crystalline calcite on fractures. Carb in mafics. One 10 cm pervasive cly, chl, ser alteration core. <1% pyr, 0.2% cpy. Ser alteration envelopes to 1 cm.	
EOH 249.0 m																		

Northing: not surveyed yet		DDH 96-7		Azimuth: 045					
Easting:		Elevation:		Inclination: -45					
Au, Ag, Mo = start of 10 sample composites									
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29841	14.0	15.5	0.04	<.01	-	-	-	-	Guichon:
29842	15.5	17.0	0.01	<.01	-	-	-	-	"
29843	17.0	18.5	<.01	<.01	-	-	-	-	"
29844	18.5	20.0	0.07	0.02	-	-	-	-	"
29845	20.0	21.5	0.03	0.01	-	-	-	-	"
29846	21.5	23.0	0.04	0.01	-	-	-	-	"
29847	23.0	24.5	0.09	<.01	-	-	-	-	Guichon/Hybrid:
29848	24.5	26.0	0.13	<.01	-	-	-	-	"
29849	26.0	27.5	0.12	-					"
29850	27.5	29.0	0.06	-					"
29851	29.0	30.5	0.10	-					"
29852	30.5	32.0	0.06	-					Guichon:
29853	32.0	33.5	0.07	-	0.1	0.01	5	0.001	"
29854	33.5	35.0	0.04	-					"
29855	35.0	36.5	0.12	-					"
29856	36.5	38.0	0.11	-					"
29857	38.0	39.5	0.07	-					"
29858	39.5	41.0	0.06	-					"
29859	41.0	42.5	0.07	-					"
29860	42.5	44.0	0.15	-					"
29861	44.0	45.5	0.09	-					Porphyry (Beth) D3:
29862	45.5	47.0	0.05	-					Porphyry D3:
29863	47.0	48.5	0.08	-					"
29864	48.5	50.0	0.08	-	0.1	0.01	5	<.001	"
29865	50.0	51.5	0.12	-					"
29866	51.5	53.0	0.13	-					"
29867	53.0	54.5	0.16	-					"
29868	54.5	56.0	0.08	-					Guichon:
29869	56.0	57.5	0.15	-					"
29870	57.5	59.0	0.14	-					"
29871	59.0	60.5	0.20	-					"
29872	60.5	62.0	0.16	-					"
29873	62.0	63.5	0.12	-	0.2	0.01	5	<.001	"
29874	63.5	65.0	0.13	-					fault (80 cm)
29875	65.0	66.5	0.13	-					"
29876	66.5	68.0	0.13	-					"
29877	68.0	69.5	0.14	-					"
29878	69.5	71.0	0.12	-					"
29879	71.0	72.5	0.14	-					"
29880	72.5	74.0	0.15	-					"
29881	74.0	75.5	0.15	-					"
29882	75.5	77.0	0.08	-					"
29883	77.0	78.5	0.09	-	0.1	0.01	5	0.001	"
29884	78.5	80.0	0.10	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29885	80.0	81.5	0.13	-					Guichon:
29886	81.5	83.0	0.15	-					"
29887	83.0	84.5	0.60	-					"
29888	84.5	86.0	0.75	-					"
29889	86.0	87.5	0.66	-					wk fault (90 cm)
29890	87.5	89.0	0.74	-					"
29891	89.0	90.5	0.62	-					fault (90 cm)
29892	90.5	92.0	0.26	-					"
29893	92.0	93.5	0.20	-	0.1	0.01	5	0.005	"
29894	93.5	95.0	0.55	-					"
29895	95.0	96.5	0.74	-					"
29896	96.5	98.0	0.23	-					"
29897	98.0	99.5	0.18	-					"
29898	99.5	101.0	0.29	-					"
29899	101.0	102.5	0.30	-					fault (10 cm)
29900	102.5	104.0	0.55	-					fault (1.6 m)
29901	104.0	105.5	0.80	-					"
29902	105.5	107.0	0.31	-					"
29903	107.0	108.5	0.45	-	0.5	0.02	5	0.009	"
29904	108.5	110.0	0.60	-					wk fault (10 cm)
29905	110.0	111.5	0.97	-					"
29906	111.5	113.0	0.85	-					wk fault (30 cm)
29907	113.0	114.5	0.67	-					fault (3.3 m)
29908	114.5	116.0	0.68	-					"
29909	116.0	117.5	0.67	-					"
29910	117.5	119.0	0.81	-					"
29911	119.0	120.5	0.46	-					"
29912	120.5	122.0	0.48	-					fault (70 cm)
29913	122.0	123.5	0.52	-					"
29914	123.5	125.0	0.26	-	0.6	0.02	10	0.005	"
29915	125.0	126.5	0.39	-					"
29916	126.5	128.0	0.36	-					"
29917	128.0	129.5	0.35	-					"
29918	129.5	131.0	0.28	-					"
29919	131.0	132.5	0.15	-					"
29920	132.5	134.0	0.22	-					"
29921	134.0	135.5	0.12	-					"
29922	135.5	137.0	0.12	-					<b>Porphyry:</b>
29923	137.0	138.5	0.23	-	0.2	0.01	10	0.004	(contaminated w/Guichon)
29924	138.5	140.0	0.29	-					<b>Porphyry:</b>
29925	140.0	141.5	0.26	-					"
29926	141.5	143.0	0.36	-					wk fault zone (2.2 m)
29927	143.0	144.5	0.29	-					"
29928	144.5	146.0	0.39	-					"
29929	146.0	147.5	0.32	-					"
29930	147.5	149.0	0.46	-					"
29931	149.0	150.5	0.30	-					"



Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29932	150.5	152.0	0.40	-					Guichon:
29933	152.0	153.5	0.54	-	0.6	0.02	5	0.012	"
29934	153.5	155.0	0.61	-					"
29935	155.0	156.5	0.41	-					"
29936	156.5	158.0	0.43	-					fault (1.4 m)
29937	158.0	159.5	0.47	-					"
29938	159.5	161.0	0.41	-					"
29939	161.0	162.5	0.41	-					"
29940	162.5	164.0	0.43	-					Bethlehem:
29941	164.0	165.5	0.30	-					Guichon:
29942	165.5	167.0	0.30	-					xenolith
29943	167.0	168.5	0.33	-	0.5	0.02	5	0.006	Guichon/Hybrid:
29944	168.5	170.0	0.40	-					8 cm xenolith
29945	170.0	171.5	0.20	-					"
29946	171.5	173.0	0.22	-					"
29947	173.0	174.5	0.36	-					Guichon:
29948	174.5	176.0	0.31	-					"
29949	176.0	177.5	0.26	-					wk fault zone (1.1 m)
29950	177.5	179.0	0.33	-					"
29951	179.0	180.5	0.21	-					fault (1.7 m)
29952	180.5	182.0	0.29	-					"
29953	182.0	183.5	0.19	-					"
29954	183.5	185.0	0.11	-	0.3	0.01	10	0.004	fault (70 cm)
29955	185.0	186.5	0.14	-					"
29956	186.5	188.0	0.18	-					fault (30 cm)
29957	188.0	189.5	0.18	-					Porphyry:
29958	189.5	191.0	0.23	-					med grey, 30% faint
29959	191.0	192.5	0.11	-					plagioclase phenos
29960	192.5	194.0	0.14	-					"
29961	194.0	195.5	0.14	-					Guichon/Hybrid:
29962	195.5	197.0	0.31	-					"
29963	197.0	198.5	0.17	-	0.3	0.01	10	0.007	"
29964	198.5	200.0	0.16	-					Guichon:
29965	200.0	201.5	0.16	-					(aplite dykelet 90 cm)
29966	201.5	203.0	0.17	-					"
29967	203.0	204.5	0.29	-					"
29968	204.5	206.0	0.17	-					"
29969	206.0	207.5	0.18	-					"
29970	207.5	209.0	0.20	-					(xenolith 80 cm)
29971	209.0	210.5	0.12	-					Guichon/Hybrid:
29972	210.5	212.0	0.09	-					"
29973	212.0	213.5	0.08	-	0.4	0.01	5	0.003	"
29974	213.5	215.0	0.16	-					"
29975	215.0	216.5	0.16	-					"
29976	216.5	218.0	0.15	-					"
29977	218.0	219.5	0.07	-					"
29978	219.5	221.0	0.18	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29979	221.0	222.5	0.10	-					Guichon/Hybrid:
29980	222.5	224.0	0.08	-					"
29981	224.0	225.5	0.17	-					Guichon:
29982	225.5	227.0	0.10	-					"
29983	227.0	228.5	0.12	-					"
29984	228.5	230.0	0.08	-	0.4	0.01	5	0.001	"
29985	230.0	231.5	0.14	-					"
29986	231.5	233.0	0.21	-					"
29987	233.0	234.5	0.21	-					"
29988	234.5	236.0	0.13	-					"
29989	236.0	237.5	0.10	-					"
29990	237.5	239.0	0.11	-					"
29991	239.0	240.5	0.24	-					"
29992	240.5	242.0	0.23	-					"
29993	242.0	243.5	0.11	-	0.2	0.01		0.001	"
29994	243.5	245.0	0.08	-					"
29995	245.0	246.5	0.08	-					"
29996	246.5	248.0	0.06	-					"
29997	248.0	249.0	0.06	-	* last composite only 9 samples				"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.												
DDH # 96-8		Date		22-Feb-96		Logged by		V, F, DB														
Elevation		1718.1 m		Azimuth		045		Northing:		5603917.2												
Inclination		-65		Length		365.7 m		Easting:		641625.9												
ROCK TYPE		FAULT		FRACTURE		FRACTURE		VEINING		STAINING		ALTERATION		MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		GOUGE	INTENSITY	SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	perov.	fract.	perov.	fract.	perov.	fract.	perov.	fract.				
0-9.1	casing																					Tertiary Volcanics and Guichon
9.1-19.3	Guichon	mod	mod/stng	(chl) (cly) carb		FeOx	FeOx	mod	ser carb chl	(chl) (cly) carb									1		Qtz-bio-felds diorite/Qtz diorite. Mod/strongly broken 45-60° C.A. FeOx & chl fillings. Moderate ep and Ca. 13.6-13.8 m pale green pervasive ser-cly altered dyke with gouge at 60-80° C.A. Wallrock brecciated for 5-10 cm. 15.9-16.3 m gouge zones 30, 60-80° C.A. Chl after biotite, ser and Ca after plagioclase.	
9.1-12.6	Guichon	loc thin	mod/stng loc bkn	(chl) (cly)			(jar stn cly) loc Cu-Mn spots	(Fe) (cly)	(loc ep) chl (ser)	(chl) (cly)									1		One 1 cm apite dykelet. Chl healed fractures and bands. Discrete pervasive chl.	
12.6-16.3	Guichon fault	15.9-16.3 m	shatt & bkn loc mod, loc mill & gge	(chl) cly, carb		(loc hem stn alb)	loc jar stn cly & coatings loc hem stn	(Fe) (cly)	carb loc sil chl loc alb (ser) loc ep	(chl) cly carb									1			
16.3-19.3	Guichon	loc	mod/stng, loc bkn, loc crush	cly, carb		loc hem stn ser	jar stn cly & coatings	Fe (cly)	loc ep chl loc sil ser	cly carb									1		Local breccia/shear?, chl healed.	
19.3-25.5	Fault Guichon		gge, loc mill, loc bkn/shatt	cly, carb		FeOx	FeOx	mod	carb chl cly	cly											Gouge zone sharp 70° and subparallel to C.A. Strong Ca and chl-FeOx-clay.	
19.3-25.5	Guichon	50% gge	clasts up to 10 cm, crush mill and gge	cly, carb		jar stn cly & ser loc hem stn ser	jar stn cly	Fe, cly	carb chl cly ser?	cly carb											Local interfingering of Tertiary volcanics into Guichon (faulted in section?)	
25.5-47.3	Guichon	loc	mod/stng	(chl) (ser) carb	(carb)				chl ser (carb) (ep)	(chl) (ser) carb	(chl?)				1% pyr						Qtz-bio-felds diorite/Qtz diorite. Mod/strongly broken, local gouge: decreasing down section. Moderately pervasive chl-ser-Ca: pyr1%, trace cpy replacing chl-ser biotite and along chloritic fractures at 40-60°, 70-80° and subparallel. Moderate Ca, weak to moderated mag. Pyr in 1-2 mm veinlet.	

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		supergene		primary				
									perv.	fract.		perv	fract	perv	fract		
25.5-27.7	Guichon	loc thin 27.1 m 30° C.A.	mod/stng loc bkn, loc gge	(chl) (ser) carb	(carb f.f. & vnits to 1 cm)	-	-	-	(carb) chl ser (cly)	(chl) (ser) carb	-	-	-	(pyr)	(pyr)	1	FIRST PYR: 25.9 m. Local carb veinlet, 1 cm thick with pink calcite core and local vuggy core. Pyr < 0.5%, 80% pervasive pyr.
27.7-30.3	Guichon	loc thin	shatt/bkn loc mod/stng	chl, ser carb, (cly)	(carb f.f.) 1 0.5 cm qtz/pyr vnlt	-	-	-	(sil) (carb) (chl)	chl ser carb (cly)	-	-	-	(pyr)	tr cpy (pyr)	2	Qtz and pyr veinlet contains metallic hem and magnetite.
30.3-34.2	Guichon	-	stng/shatt & bkn	chl, ser, carb (cly)	carb f.f. & vnits to 2 mm	-	jar stn carb & coating	-	(ep) alb (carb) (chl)	chl ser carb (cly)	-	-	-	(pyr) tr cpy	tr cpy (pyr)	1	Increase in pervasive ep. Carb in mafics. Pyr 0.5-1%
34.2-37.5	Guichon	loc thin 34.8 m	stng/bkn loc mod	(chl) ser carb	(carb f.f. & vnits)	(loc hem stn alb)	-	-	(carb) (ep) (chl) (alb) (loc ser)	(chl) ser carb	-	-	-	tr cpy (pyr)	(pyr)	2	Irregular chl/ep bands. 1% pyr.
37.5-41.5	Guichon	some slip	wk, loc mod loc bkn	(chl) ser carb	(carb f.f.)	(loc hem stn alb)	(1 jar stn ?)	-	(ep) tr carb (chl) (alb) (loc ser)	(chl) ser carb	(chl?)	-	-	tr cpy (pyr)	tr cpy (pyr)	2-3	Weak chl/ep bands, one with on alb alteration envelope. Chl healed fractures - 0.5-3 mm. Pervasive pyr has decreased - 0.5% Fracture pyr > pervasive pyr.
41.5-45.2	Guichon	loc thin 41.9, 43.6 m	25% RQD wk/mod loc bkn	chl, ser, carb	(carb f.f.) 1 irreg carb vnlt	-	-	-	(alb) (ep) (chl) tr carb (ser)	chl ser carb	(chl) (ep)	-	-	(pyr) tr cpy	(pyr) tr cpy	2-3	Chl healed fractures. Blue/green ser along fractures as very thin (<5 mm) alteration envelopes. Still discrete chl. Most of trace carb in mafics. 0.5% pyr.
47.3-60.1	<b>Porphyry D3</b>	-	mod, loc stng	ser, carb	qtz & pyr vnits ≤ 2 mm	-	-	-	(carb) (ser)	ser carb	-	-	-	pyr tr cpy		0	Felds Porphyry. Crowded plagioclase phenos 2-4 mm and 0.2-0.5 mm ep phenos. Scattered clots of biotite replaced by chl-ep. Strong ser-Ca and pyr trace cpy along 20-30° C.A. fractures. Weak pervasive Ca-ser, pyr 1-2%, trace cpy replacing ep-chl mafics, and in 2-5 mm crosscutting veinlets. Non-magnetic. Top contact at 90° C.A. sharp, chilled; bottom at 45-60° C.A. rough weak chilled. 59-60 m-strong pyr-ser-Ca ± qtz stockwork.
47.3-49.7	Porphyry	-	wk/mod	(ser), carb	(qtz & pyr vnits <2 mm)	-	-	-	ep (chl) (carb)	(ser) carb	-	-	-	tr pyr	(pyr)	0	Distinctive bleached grey ser/(qtz) alteration envelopes 2 mm - 10 mm. Discrete chl alteration of mafic clots. Carb and pyr in mafic clots 0.5-1% pyr

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.		perv	fract	perv	fract			
49.7-53.1	Porphyry		mod/stng, loc shatt/bkn	ser, carb	(qtz & pyr vnits <2 mm)				tr carb (ep) (chlr)	ser carb				tr pyr (pyr)	0	White powdery ser. Distinctive bleached grey ser/(qtz) alteration envelopes 2-10 mm. Discrete chlr alteration of mafic clots.	
53.1-56.7	Porphyry	loc thin (1 cm) 54.4 m 20° C.A.	mod/loc shatt/bkn	ser, carb	(qtz & pyr vnits <2 mm)				tr carb (ep) (chlr) tr ser	ser carb				(pyr) (pyr) tr cpy	0		
56.7-60.1	Porphyry	loc thin	mod, loc shatt & bkn	ser, carb	qtz & pyr vnits < 2 mm				tr carb (ep)	ser carb				(pyr) (pyr) tr cpy	0	Local qtz and pyr stockwork. Cpy appearing in mafics. Perasive pyr ≥ fracture pyr.	
60.1-83.5	Guichon/ Hybrid or mafic Guichon		wk/mod	ser, chlr, carb	qtz, carb				wk/mod ser (carb)	ser chlr carb				2% pyr	2-3	Hornblende-bio diorite. Moderately magnetic. Weak to moderately pervasive ser-chlr after bio, plagioclase increasing down section: weak pervasive calcite, strong ser-chlr-Ca on fractures. Pyr 2%, trace cpy replacing altered mafics and along 0.3-3 mm ser-qtz-Ca veinlets crosscutting 30-60° C.A. Weak to moderately broken.	
60.1-64.7	Guichon/ Hybrid		wk/mod, loc shatt/bkn	ser, chlr, carb	(qtz & pyr & carb vnits < 0.5 cm)				(carb) (chlr) (ser) (ep) (loc sil)	ser chlr carb	(ep) (chlr?)			(pyr) (pyr) tr cpy	2-3	Carb in mafics. Hydrothermal ep in chlr healed fractures and bands. 1.5% pyr, >60% in fractures. Local alb alteration envelopes to 1 cm. Ser + qtz alteration envelopes to 1 cm. Discrete chlr alteration.	
64.7-68.7	Guichon/ Hybrid		wk, loc mod loc bkn	ser, (chlr) carb	(carb f.f.) (qtz & pyr vnits 3 mm to 1 cm)				(loc ser) (chlr) tr carb (alb)	ser (chlr) carb	(ep) (chlr?)			(pyr) (pyr) tr cpy	2-3	Trace carb in mafics.	
68.7-72.7	Guichon/ Hybrid		mod, loc shatt & bkn	ser, chlr, carb	(qtz + pyr ± carb vnits ≤ 3 mm)				(alb) tr ser tr carb (chlr) (ep)	loc ep ser chlr carb	(chlr?) (ep)			(pyr) (pyr) tr cpy	2-3	Carb in mafics. Local chlr alteration envelopes to 0.5 cm, local crosscut by qtz ± pyr veinlet. 1.5% pyr.	
72.7-76.3	Guichon/ Hybrid	loc thin (2 cm) 73.6 m	mod, loc shatt/bkn 30% RQD	ser (chlr) (carb)	qtz + pyr ± carb vnits ≤ 3 mm	(loc hem stn alb)			tr carb (chlr) tr ser (ep) (alb)	ser (chlr) (carb)	(chlr?)			(pyr) (pyr) tr cpy	2-3	Local drill rounding, local secondary biotite. One 5 cm ep band. ≥ 2% pyr.	
76.3-80.0	Guichon/ Hybrid		wk/mod loc shatt/bkn 35-40% RQD	ser, (chlr) (carb)	(carb f.f.) (qtz + pyr ± carb vnits ≤ 3 mm)	(loc hem stn alb)			(chlr) tr carb (ep) (alb)	ser (chlr) (carb)	tr ep (chlr?)			tr cpy (pyr) pyr	2-3	One faint xenolith. Local weak qtz and pyr ± carb stockwork. Ser alteration envelopes to 1.5 cm. Ep in a healed shear?. Local secondary biotite. Fracture pyr > pervasive pyr.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
80.0-83.5	Guichon/ Hybrid		mod, loc wk loc shatt 35% RQD	ser (chl) <u>carb</u>	carb f.f. (& vnlt) qtz + pyr + carb vnlt 1-10 mm				(cly) carb (alb) tr sil ser chl	ser (chl) <u>carb</u>	tr ep			(pyr) tr cpy	pyr	2-3	Pervasive <u>ser</u> and cly and chl towards Guichon/ Porphyry contact. Local crystalline calcite on fracture. Pervasive carb goes from just being trace in mafics at beginning to strong pervasive as approach contact.	
83.5-88.3	<b>Porphyry D3</b> crowded grey		stng/shatt & bkn, loc mod	ser, <u>carb</u>	carb f.f. & < 2 mm vnlt, qtz & pyr & carb vnlt < 2 mm stockwork				(carb) ser chl	ser <u>carb</u>				(pyr)	pyr	0	2% pyr, fracture pyr > pervasive pyr. Pervasive discrete ser alteration of plagioclase phenocrysts Pale green chl wash and patches of dark green plagioclase phenocrysts. Distinctive grey ser and sil alteration envelopes. Phenocrysts stand out more, pyr < 2%, ~85% in fractures. Pyr in 1-3 mm crosscutting veinlets, >25/meter. 30, 60, 90° abundant hairline fractures. Bottom contact at ~ 30° C.A.	
88.3-128.9	<b>Guichon</b>																	
88.3-93.1	<b>Guichon</b>	loc thin	mod/stng, loc bkn	ser, (chl) <u>carb</u>	qtz + pyr ± carb vnlt ≤ 3 mm				(ser) chl (carb)					2% pyr			Qtz-bio-felds diorite: moderate (3) ser-Ca matrix, pyr 2% replacing altered biotite/sericitic plagioclase and in qtz-ser-Ca veinlets 1-5 mm, 25/m	
88.3-90.7	Guichon	loc thin 3 cm at 88.9 m	mod/stng, loc bkn, loc wk	ser, (chl) <u>carb</u>	qtz + pyr + carb, (carb f.f. & vnlt 2 mm to +1 cm)				(ser) (cly) chl (carb)	ser (chl) <u>carb</u>				tr pyr	pyr	1	Local pervasive chl outer alteration envelopes. Grey ser ± sil alteration envelopes ~1 cm across. 2% pyr, >90% fracture pyr. Local secondary biotite.	
90.7-94.3	Guichon	loc thin	mod, loc stng shatt & bkn 30% RQD loc carb healed	ser, (chl) <u>carb</u>	carb f.f. & vnlt (qtz + pyr vnlt ≤ 2 mm)				ser chl cly carb	ser (chl) carb				(pyr) tr cpy	pyr	1	Carb fracture filling in dislocation breccia locally vuggy. Local white pale pink opaque hard +5 mineral in vugs with calcite. 1.5% pyr. Grey ser alteration envelopes to 1 cm.	
93.1-99.1	<b>Fault Zone</b>																	<b>Fault zone:</b> strong chl-ser-Ca-cly gouge. Pyr 2% at 94.6 m, 5 cm Ca vein breccia. At 50-60o C.A. trace cpy - 0.5%. 3% mo locally in chl smears at 30-40o C.A. Qtz vein with mo selvage at 40°. Crosscutting veinlets of qtz-Ca-pyr ± cpy ± mo with ser envelopes
94.3-97.9	Guichon fault zone	94.5-96.2 m	dis bx, crush & gge to 96.2m (loc mod pieces) mod/ stng, loc bkn & shatt, RQD 15%	chl, ser, <u>carb</u>	(carb.f.f. & vnlt) (qtz + pyr ± carb vnlt < 2 mm)				carb chl ser cly	chl ser <u>carb</u>				tr cpy (pyr)	pyr tr mo	0-1	1% pyr, fracture pyr > pervasive pyr. Trace of mo on black comminuted sulphide slip surfaces.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
(94.3-96.2)	possible Porphyry dykelet in fault zone																	
99.1-102.0																	Pyr decreasing to 1%, cpy increasing to 1%. Secondary biotite, moderate to strong (3-4) ser- Ca-chlr. Strong microfracturing. Pyr, cpy replac- ing ser + secondary biotite. Qtz-ser-Ca veinlets 1-5 mm, 40-100/m. Mo along chlr slickensides (left lateral displacement) 30-60° C.A.	
96.2-102.0	Guichon	loc thin	bkn & shatt loc mod RQD 15%	chlr, ser, carb	carb f.f. & vnits, (qtz + pyr vnits to 3 mm) 1 1cm qtz vnt	-	-	-	carb chlr ser cly	chlr ser carb	-	-	-	tr cpy (pyr) pyr tr cpy	tr mo	0-1	One 1 cm qtz veinlet - no alteration envelope, a continuous margin of mo (mo selvage) with blobs of cpy 40° C.A. crosscuts pyr fracture filling. 1% pyr; fracture pyr > pervasive pyr.	
102.0-128.9	Cpy Zone																Pyr decreasing to 0.5-1%, trace mo and cpy 1-2% disseminated and fracture fillings with ser-Ca-qtz, crosscutting, 1-5 mm, locally 1 cm, 40-100/m. Weak Ca matrix, hem stained (orange) secondary biotite locally. Qtz stockwork with cpy and mo down section Ser-cly + Ca + pyr + cpy + mo fractures at 30-45° C.A. Strong ser + secondary biotite matrix.	
102.0-105.2	Cpy zone wk fault	loc thin 104.8- 105.0 m 40° C.A.	mod/stng, loc shatt & bkn loc dis bx	chlr, (cly) carb	carb f.f. & vnits	-	-	-	carb chlr ser cly	chlr (cly) carb	-	-	-	(cpy) (pyr)	(pyr) tr cpy	0-1	One of carb veinlets 0.5 cm. Subparallel to C.A. for 60 cm. Pyr 1%	
105.2-108.8	Cpy zone wk fault zone	105.5- 108.8 m	bkn, loc shatt mod, loc crush & gge	chlr, ser, (cly), carb	(carb f.f.) & irreg vnits (qtz + pyr vnits <2 mm)	-	-	-	carb chlr ser cly	chlr ser (cly) carb	-	-	-	(cpy) (pyr)	(pyr) tr mo (cpy)	0-1	Local drill rounding. Qtz and pyr veinlets disap- pearing. Secondary phlogopite. One 3 mm qtz veinlet with cpy core and mo. 0.5% pyr. Fracture pyr > pervasive pyr.	
108.8-112.9	Cpy Zone (cont'd)	some slip (movement ⊥ to C.A., surface subparallel to C.A.)	mod/stng, loc bkn & shatt 10% RQD	chlr, ser, carb	(carb f.f. & irreg vnits) 2 qtz vnits ~50° C.A. 0.5-1 cm	-	-	-	tr ep chlr ser (carb) tr cly	chlr ser carb	-	-	-	(cpy) tr pyr	tr mo (cpy) tr mo tr pyr	2	Local secondary biotite. Local fractures coated with crystalline calcite, locally 0.5 cm long crystals Alteration decreasing. 0.5% pyr. Cpy > pyr Chlr healed fractures. Molybdenite in qtz veinlets and slip surfaces.	
112.9-116.1	Cpy zone	loc gge 30° C.A. at 114.2 m	bkn/shatt loc mod/stng RQD = 0% loc crush & gge	chlr, ser, carb	irreg carb vnits & f.f.	(loc hem stn alb & ser)	-	-	chlr ser (carb)	chlr ser carb	-	-	-	tr pyr (cpy)	tr mo cpy	2	Local core loss. Qtz veinlet 1 cm mo selvages. Cpy core, 60° C.A. Cpy now on most fracture surfaces. Pervasive discrete chlr. Carb in mafics >0.2% pyr, 1.5% cpy. Fracture cpy > pervasive cpy	

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
									perv.	fract.		perv	fract	perv	fract		
116.1-119.9 ~~~~	Cpy zone wk fault zone	117.0- 119.5 m subparallel	stng/shatt & bkn, loc crush & gge. RQD 0%	cl. (ser) (chlr) carb	carb f.f. & irreg vnlt qtz vnlt & frags to 1cm	(loc hem stn ser & alb)	-	-	(carb) chlr ser	cl. (ser) (chlr) carb	-	-	-	cpy tr pyr	loc mo	2	Local pale pink carb veinlet. Local secondary biotite and phlogopite. Qtz veinlets have no margin Pyr <0.2%. Cpy>>pyr. Pervasive cpy=fract cpy.
119.9-123.0	Cpy zone	loc thin	stng/shatt loc bkn, RQD 0%	ser, chlr, carb	qtz vnlt 2-5 mm (carb vnlt to 1 cm)	(hem stn ser)	-	-	(carb) (sil) (ser) (chlr)	ser chlr carb	-	-	-	(cpy) tr pyr	tr mo cpy	1-2	Trace mo on selvage and cpy core of qtz veinlet. Qtz veinlets increasing. Carb in mafics. Pyr <0.2% Fract cpy > pervasive cpy.
123.0-128.9 ~~~~	Cpy zone wk fault	loc thin 125.0, 125.8 m 20° C.A.	mod/stng, loc shatt/bkn loc crush/mill RQD 6%	ser, chlr, carb	(carb f.f.) qtz vnlt 3-10 mm	(hem stn ser & alb)	-	-	(carb) ser (chlr)	ser chlr carb	-	-	-	(cpy)	tr mo cpy	1-2	Alteration increasing. Molybdenite on selvages of qtz veinlets. Local secondary biotite. 70% fract- ure cpy. 30% pervasive cpy. Pyr <0.2%. Qtz and ser alteration envelopes on fractures, 0.5-1 cm
128.9-140.1	Porphyry qtz-plag	local	stng/shatt & bkn	ser, carb, chlr	qtz, carb	(hem stn ser)	-	-	ser (chlr) (carb)	ser chlr carb	-	-	-	0.5% pyr 1-2% cpy	tr mo	1	(Qtz) plagioclase porphyry. Orange stained, strongly sericitic matrix, with pale white plagi- oclase phenos. Pale green diffused ser. 0.5% pyr 1-2% cpy, trace mo disseminated and in qtz ± ser-Ca veinlets. 1 mm-1 cm crosscutting, 10-20/m 30-50° C.A. Top contact at 60-45°, bottom at 45°.
128.9-129.8	Porphyry qtz-plag (cont'd)	loc slip	stng/shatt & bkn, loc crush and healed 0% RQD	ser, carb, chlr	(carb f.f.) qtz vnlt ≤ 0.5 cm	(hem stn ser)	-	-	(ser) (chlr) (carb)	ser chlr carb	-	-	-	(cpy)	(cpy) tr mo	1	One qtz veinlet contains chlr.
129.8-132.7 ~~~~	Porphyry fault ~~~~ wk fault	129.9- 130.7 m 131.2- 131.4 m	shatt/bkn, loc stng, loc mill & gge, 0% RQD	ser, carb, chlr	qtz vnlt 3 mm-1cm carb f.f. & vnlt to 0.5 cm	(hem stn alb/ser)	-	-	(carb) (ser) (chlr) (sil)	ser chlr carb	-	-	-	(cpy)	tr mo (cpy)	1-2	Pervasive (ser) and local discrete ser. Chlr healed fractures. Cpy blobs in carb veinlets. Fracture cpy> pervasive cpy. Molybdenite scattered throughout some of qtz vienlets. Local weak stockwork.
132.7-136.7 ~~~~	Porphyry fault	134.6- 135.0 m bottom 55° C.A.	stng/loc shatt & bkn, loc crush mill & gge. RQD 0%	chlr, ser, (cly) carb	(carb f.f.) & vnlt to 1 cm) qtz vnlt to 1 cm 50° C.A.	(hem stn ser)	-	-	(carb) ser (chlr)	chlr ser (cly) carb	-	-	-	(cpy)	tr mo cpy	1-2	Local drill rounding. (Pervasive) and discrete ser. Qtz veinlets form weak stockwork. Fracture cpy >> pervasive cpy.
136.7-140.1	Porphyry	some slip	mod, loc stng & shatt, loc bkn, RQD 11%	ser, carb, chlr	carb f.f. (& vnlt) qtz vnlt	(hem stn ser/alb)	-	-	carb (ser) (chlr)	ser chlr carb	-	-	-	(cpy)	tr mo (cpy)	1-2	Slip: surface 45° C.A. Cpy < 1%. Fracture cpy> pervasive cpy.



ROCK TYPE interval (m)	FAULT GOUGE	STRUCTURE			VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
		FRACTURE INTENSITY	FRACTURE SURFACES	perv.		fract.	weath.	hydrothermal		deuteric		supergene		primary				
								perv.	fract.	perv.	fract.	perv.	fract.	perv.				fract.
140.1-187.1	Guichon	loc	mod, loc stng loc bkn	ser, chlr, carb	carb & qtz	-	-	-	(ser) (chlr) (carb)	ser chl carb	loc	-	-	1-2% cpy tr pyr tr mo	1-2	Qtz-bio-felds diorite. Moderately pervasive sericitic plag and chlr-ser mafics. 1-2% cpy, tr pyr replacing altered plagioclase and biotite, and in ser-Ca-qtz veinlets 1mm - 1 cm crosscutting, 20-50/m 10-45° C.A. Moderately broken core, local gouge/clay aplite dykelets 1-3 cm.		
140.1-143.7	Guichon	loc thin (1cm) 60° C.A.	mod, loc stng loc shatt & bkn RQD 9%	ser, chlr, carb	carb f.f. & vnits to 0.5 cm, qtz vnits 0.5-1 cm	-	-	-	carb ser (sil) chl tr cly	ser chl carb	-	-	(cpy) tr mo (cpy)	1-2	Local secondary biotite and phlogopite. Two aplite dykelets, 2 and 2.5 cm. Cpy ≤ 1%. One 1 cm qtz veinlet has a continuous core of fine grained mo.			
143.7-147.3	Guichon (cont'd) ~~~~ wk fault	145.1- 145.4 m 30° C.A.	stng, loc mod shatt/bkn loc crush mill and gge RQD 6%	ser, (chl) (cly), cly	carb f.f. (& vnits to 0.5 cm) qtz vnits 0.5-1.5 cm 1.5 cm at 50° C.A.	(hem stn ser)	-	-	carb ser (chl) tr cly	ser (chl) (cly) carb	-	-	(cpy) (cpy)	2- loc 3	One 0.5 cm qtz cutting irregular carb veinlets/ fracture filling, being cut by 0.5 cm carb veinlet. Qtz veinlets contain a little cpy but seem to have lost mo. Cpy 0.5-1%.			
147.3-150.2	Guichon ~~~~ fault	149.2- 150.0 m	mod/stng, loc shatt & bkn to 149.2 m	ser, cly, (chl) carb	(carb f.f.) (qtz vnits 0.5 cm)	(loc hem stn ser)	-	-	sil carb (ser) (chl)	ser cly chl carb	-	-	(cpy) (cpy)	2-3	Secondary biotite and phlogopite. Most cpy in fractures or microfractures. 0.5-1% cpy. Porphyry strongly fractured with carb fracture filling. Local chl fracture filling.			
(149.2-149.6)	Porphyry (aplitic)		bkn, loc crush mill & gge. both RQD 0%															
149.6-154.0	Guichon ~~~~ fault	149.9- 151.5 m	mod/stng/bkn loc crush & heal, gge ckle & dis bx. RQD 0%	ser, chl, (cly) carb	carb f.f. (qtz vnits 3-5 mm & frags)	-	-	-	carb (chl) (sil) tr alb (ser)	ser chl (cly) carb	-	-	tr pyr (cpy) tr pyr tr mo	2-3	Pyr <0.2%. Cpy 0.5-1%. Fracture cpy>>pervasive cpy. Chl healed fractures to 1 mm. Local chl patches			
154.0-157.9	Guichon	-	mod, loc stng shatt & bkn RQD 17%	ser, (chl) carb	(carb f.f.) 1 0.5 cm vnit) (qtz vnits 0.5-1 cm)	-	-	-	(carb) tr ser (chl)	carb ser (chl)	(chl?)	-	tr cpy tr pyr (cpy)	2-3	One 1 cm aplite dykelet. Local crystalline calcite on fractures. Pyr <0.2%. Local drill rounding. Fract cpy>>pervasive cpy. Chl healed fracture.			
157.9-162.9	Guichon start of NQ2 core	loc thin	mod/stng, loc mod, shatt & bkn RQD 26%	chl, ser, carb (cly)	carb f.f. 1 0.5 cm vnit, qtz vnits 0.5- 1.5 cm (1.5 cm at 40° C.A.)	-	-	-	(carb) (chl) (ser)	chl ser carb (cly)	-	-	tr wk cpy tr pyr tr mo (cpy)	2-3	Carb in mafics. Local chl bands and patches; one with beige clay patches. Molybdenite in fracture filling. Fracture cpy>>pervasive cpy. Cpy 0.5-1%			

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
162.9-168.1	Guichon (cont'd)	some slip	stng/shatt & bkn, loc mod RQD 10%	ser, carb, chl	carb f.f. & vnlt to 3 mm qtz vnlt 0.5-1 cm	-	loc hem stn ser	-	(carb) (chl)	ser carb chl	-	-	-	tr pyr (cpy)	tr mo (cpy)	3 loc 2		Local crystalline calcite on fractures. One 4 cm apite dykelet. (Carb) in mafics. Local bright orange? in carb veinlets (quite soft, possibly some sort fo Fe stain?) Pervasive cpy slightly increasing Local chl bands and alteration envelopes to 1 cm thick.
168.1-173.5	Guichon	loc thin 1 cm	stng, loc mod bkn & shatt RQD 23%	ser, chl, carb	(carb f.f. & vnlt to 0.5 cm) (qtz vnlt 0.5-1 cm)	-	loc hem stn ser	-	(carb) (chl)	ser chl carb	-	-	-	(cpy)	tr mo (cpy)	3		Molybdenite locally in blobs along qtz veinlet margin Carb in mafics. One >2 cm apite dykelet, cross-cut by a 0.5 cm qtz veinlet with mo. Fracture cpy> pervasive cpy. ≤ 1% cpy. Local chl patches.
173.5-178.2	Guichon		wk, loc mod/stng, loc shatt/bkn RQD 33%	ser, chl, carb	(carb f.f.) (qtz vnlt 3 mm-2.5 cm)	-	-	-	(carb) (chl)	ser chl carb	-	-	-	(cpy)	(cpy) tr mo	2-3		Local fracture with coating of "mystery" mineral. Fracture cpy>pervasive cpy.
178.2-182.3	Guichon		stng/shatt/bkn stng/shatt/bkn to 180.8 m RQD 0%	(chl) loc cly (chl) loc cly ser, carb	(carb f.f.) - qtz vnlt 3 mm - 1.5 cm	-	-	(carb)	(carb) (chl)	ser (chl)	-	-	cpy	(cpy)	tr mo (cpy)	3		One 1 cm apite dykelet, mo in blobs in qtz veinlet. Local secondary phlogopite. Pervasive cpy≥ fracture cpy. 1% cpy.
178.2-182.3	fault zone	178.8- 180.3 m	wk, loc mod RQD 94%						tr ser	loc cly carb								
182.3-187.1	Guichon wk fault	183.9- 184.1 m	stng/loc mod bkn, loc crush & mill, gge RQD 10%	chl, ser, loc cly, carb	carb f.f. (qtz vnlt 0.5-1 cm)	-	-	-	chl (carb)	chl ser loc cly carb	-	-	-	(cpy)	tr mo (cpy)	2-3		Two apite dykelets; 10 and 12 cm. Alteration increasing. Apite dykelets strongly fracture with carb fracture filling. Concentration of mo in shear zone. Pervasive cpy> fracture cpy; 0.5-1% cpy Local green ser alteration envelope.
182.3-187.1	shear	186.1- 186.5 m							(cly)	carb								
187.1-197.1	Porphyry hornblende- quartz		mod, loc stng bkn/shatt	ser, carb	carb	-	-	-	tr carb	ser carb	-	-	-	1% cpy tr pyr tr mo				Hornblende-feldspar porphyry, aphanitic grey groundmass. Dominant fracture set ~45° C.A.. Little pervasive alteration, just a trace amount of carb in some of hornblende phenocrysts. Crosscut by a 20 cm Fp-1 dykelet, 80° C.A.
187.1-193.1	Porphyry hbde-qtz		mod, loc stng loc shatt/bkn RQD 29%	(chl) ser carb	(carb f.f.) 3 qtz vnlt 0.5-1 cm	-	-	-	tr carb tr ser tr chl	(chl) ser carb	-	-	-	tr cpy	tr mo (cpy)	2		The 0.5 cm qtz veinlet has mo margins and is cross cut and slightly offset by the 1 cm qtz veinlet Pervasive cpy very fine grained. 1% cpy, fracture cpy>>pervasive cpy. Local chl healed fractures. Local discrete ser and chl alteration of plagioclase phenocrysts and mafic patches.
193.1-197.1 (193.3-193.5)	Porphyry hbde-qtz Fp-1 dykelet		mod, loc stng loc shatt/bkn RQD 40%	chl, ser, carb	(carb f.f. & 1 vnlt) 2 0.5 cm qtz vnlt	-	-	-	tr carb tr chl	chl ser carb	-	-	-	tr cpy	(cpy) tr mo tr pyr	2		Fp-1 dykelet contact (top and bottom) at 80o C.A. Two "xenoliths" of Guichon, 20 and 10 cm between 196.0 and 196.6 m. Sharp contact, little alteration of Guichon. Trace carb in hornblende phenocrysts, local discrete ser alteration envelopes to 0.5 cm; mo in qtz veinlet margins, cpy in core.

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION			MAG.	FL	REMARKS		
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene					primary	
									perv.	fract.		perv	fract				perv	fract
197.1-214.0	Guichon	loc	mod, loc stng shatt/bkn	ser, (chl) carb	carb (qtz)	-	-	-	(ser) (chl)	ser (chl) (carb)	(chl?)	-	-	1 % cpy tr pyr	2-3	Qtz-biotite qtz diorite. Guichon cut by aplite and Fp-1 and hornblende feldspar porphyry. Fracture sets 30 to 50° C.A. Local secondary biotite and phlogopite. Local drill rounding and core loss.		
197.1-203.1	Guichon	some slip	mod, loc stng shatt/bkn	ser, chl, carb	(carb f.f. & irreg vnits)	-	-	-	(chl) (carb)	ser carb	-	-	-	tr pyr (cpy)	2	Seven apite dykelets 0.5-30 cm. Carb in mafics. Fracture cpy>pervasive cpy. Trace ep in chl band. Pyr <0.5 %, Cpy~1%		
(200.0-200.5)	Fp-1 porphyry		RQD 26%		(qtz vnits 0.5-1.5 cm)				(ser) tr ep	chl				tr mo				
203.1-208.2	Guichon cont'd		mod, loc stng shatt/bkn	ser, chl, carb	carb f.f. & vnits, (qtz vnits 0.5- 1 cm)	(hem stn ser/alb)	loc hem stn ser	-	(carb) (chl) (ser)	ser chl carb	-	-	-	(cpy) tr pyr	tr mo (cpy)	2	Local core loss, carb in mafics. cpy ~ 1%. Fracture cpy>pervasive cpy.	
207.7-210.1	Porphyry fault	207.2- 208.2 m	stng & bkn loc mod, RQD 5%	ser, (chl) carb	carb f.f.	-	-	-	tr ep tr chl	ser (chl) carb	-	-	-	tr cpy tr pyr	(cpy)	2-3	Local coarse crystalline alcite on fractures. 0.5-1% cpy.	
210.1-214.0	Guichon/ Hybrid		mod/stng, loc mod, loc shatt & bkn RQD 25%	ser, chl, carb	(carb f.f. & vnits)	-	-	-	tr ep (carb) (ser) (chl)	ser chl carb	-	-	-	(pyr) (cpy)	(pyr) (cpy)	2-3	One xenolith. Ep in chl bands. Cpy >0.5%, pyr 0.5-1%. Locally 4 mag.	
214.8-223.7	Porphyry Fp-1		stng/bkn	ser, carb (chl)	(carb)	(loc hem stn ser)	-	-	ser (carb) (chl)	ser carb (chl)	-	-	-	0.5-1% cpy	-	0-1	Feldspar porphyry, discrete pervasive ser, fracture sets at 60, 30° C.A.	
214.8-218.3	Porphyry Fp-1 wk fault zone? (most of gge lost)	217.7 m	shatt & bkn loc stng RQD 0%	ser, (chl) (cly) carb	(carb f.f.)	-	-	-	ser (carb) (chl)	ser (chl) (cly) carb	-	-	-	(cpy) (pyr)	(cpy) (pyr)	0-1	One 5 cm apite dykelet. Grey sil ± ser alteration envelopes/veinlets 305 mm. Cpy ± pyr. (≥ 0.5%) Pervasive=fracture cpy and pyr.	
218.3-223.1	Porphyry Fp-1	loc thin	shatt/bkn loc stng RQD 0%	ser, (chl) carb	(qtz vnits 1-5 mm)	-	-	-	carb ser chl (cly)	ser (chl) carb	-	-	-	(cpy) (pyr)	tr mo (cpy) (pyr)		mo on fractures. Discrete ser alteration. Sil ± ser alteration envelopes on well healed fractures, contain most of cpy and pyr. Cpy=pyr (≥ 0.5%) Fracture>pervasive cpy and pyr.	
223.7-248.9	Porphyry wk fault zone	~ 10-15% gge	stng, loc bkn & mod	cly, ser, chl carb	carb & qtz	-	-	-	(carb) ser chl (cly)	cly ser chl carb	-	-	-	0.5-1% cpy >0.2% pyr	-	0-1	Feldspar porphyry. Fracture sets at 60 & 45° C.A. Local weak stockwork 2 mm - 0.5 cm veinlets Pyr increasing in last box, possibly going out of cpy?	
223.1-226.6	Porphyry fault zone		bkn, loc stng & shatt & crush, RQD 0%	cly, chl, ser carb	(carb f.f. & vnits) qtz vnits 3 mm	-	-	-	(carb) ser chl cly	cly chl ser carb	-	-	-	(pyr) (cpy)	(pyr) (cpy)	0-1	Qtz veinlet/shear zone with blobs of cpy (loc +3%) Intervals of different plagioclase, aphanitic matrix porphyry (so broken up hard to tell contacts). Cpy >pyr. Pyr ≥ 0.5%	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
226.6-231.0 ~~~~~	Porphyry wk fault zone	226.6- 229.8 m	bkn, loc stng loc gge to 229.8 m shatt, RQD 0%	clt, ser, (chl) <u>carb</u>	(qtz vnits <0.5 cm)	-	-	-	carb ser chl	clt ser (chl)	-	-	-	(pyr) (cpy) (cpy)	tr mo (pyr) (cpy)	0-1	Grey qtz + ser alteration envelopes 0.5 cm. Weak secondary phlogopite. Fracture > pervasive Pyr 0.5%	
231.1-235.8 ~~~~~	Porphyry fault zone	232.8- 235.8 m	bkn, loc mod gge & ckle bx RQD 0%	clt, ser, chl carb	(carb f.f. & 1 vnit) (qtz vnits 0.5 cm)	-	-	-	carb ser chl clt	clt ser chl carb	-	-	-	(pyr) (pyr) (cpy)	(pyr) (pyr) (cpy)	0-1	Pyr > cpy. Pyr 0.5-1%, cpy 0.5%	
235.8-240.4 ~~~~~	Porphyry qtz-feldspar fault	235.8- 236.4 m	stng/shatt & bkn, loc mod, crush & gge RQD 12%	ser, (chl) carb	(carb f.f. & vnits) (qtz vnits 2 mm)	-	-	-	(carb) clt ser (chl)	ser (chl) carb	-	-	-	(pyr) (pyr) (cpy)	(pyr) (pyr) (cpy)	0	Core becoming quite bleached - losing chl, picking up clt? Qtz + ser alteration envelopes 2-5 mm Two 10 cm aplite dykelets - bleached chl, mottled overprinted. Pyr 1%, cpy 0.5%	
240.4-245.3 ~~~~~	Porphyry qtz-feldspar wk fault	241.4- 241.9 m	mod/stng loc shatt & bkn loc gge RQD 25%	(chl) (carb) (ser)	(carb f.f.) 1 1 cm qtz vnit	-	-	-	carb ser (chl) clt	(chl) (ser) (carb)	-	-	-	(pyr) (pyr) (cpy)	tr mo (pyr) (cpy)	0-1	Most of core quite bleached and hard to recognize as porphyry, texture caused by wide, diffuse alteration envelopes of just ser and qtz. Grey qtz + ser alteration envelopes 3-10 mm Cpy <0.5%, pyr 0.5-1%. Fracture pyr> pervasive pyr.	
245.3-250.3 ~~~~~	Porphyry qtz-feldspar cont'd fault zone	245.3- 248.9 m	bkn & shatt loc mod, RQD 4% conj fract set 70 & 40° C.A.	(chl) clt sil, carb, (ser)	(qtz vnits 3 mm)	-	-	-	carb chl ser clt	sil carb clt (chl) (ser)	-	-	-	(pyr) (pyr) tr cpy	(pyr) (pyr) tr cpy	1	Amount of qtz has increased in this box and last box - all the plagioclase has gone to ser, yet only get a moderate scratch. Could now be locally a feldspar-qtz porphyry with feldspar & qtz approximately equal. Pyr 1%, fracture>pervasive	
250.3-258.2	Porphyry qtz-feldspar	loc thin ( < 1 cm)	mod/stng, loc shatt & bkn fracture sets at 70-75, 40, and 15° C.A.	(chl), ser, carb	(carb) (qtz)	-	-	-	carb chl ser (clt)	(chl) ser carb	-	-	-	1% pyr tr cpy	(pyr) (pyr)	0-1	Same qtz-feldspar porphyry, still bleached but out of fault zone.	
250.3-255.0	Porphyry qtz-feldspar	loc thin ( < 1 cm)	mod/stng loc shatt & bkn RQD 12%	(chl), ser <u>carb</u>	(qtz vnits 3 mm)	(loc hem stn ser)	-	-	carb (chl) ser (clt)	(chl) ser <u>carb</u>	-	-	-	(pyr) (pyr)	(pyr) (pyr)	0-1	Local cross cutting qtz veinlets (weak stockwork) One 0.5 cm brown porphyry dykelet. Alteration decreasing. Bleached and locally hem stained alteration envelopes. Grey qtz + ser alteration envelopes on fractures.	
255.0-258.2	Porphyry qtz-feldspar		stng/bkn loc mod, loc crush & heal RQD 8%	(chl), ser, carb	(qtz vnits < 3 mm)	(loc hem stn alb)	-	-	(alb) (chl) (ser) (carb)	(chl) ser carb	-	-	-	(pyr) (pyr)	(pyr) (pyr)	0-1	Grey qtz alteration envelopes on fractures. 0.5-2 cm. forms "local stockwork". 1% pyr, 60% in fractures.	

ROCK TYPE interval (m)	FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION			MAG.	FL	REMARKS			
		FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric		supergene				primary		
								perv.	fract.			perv				fract	perv	fract
258.2-322.4	Porphyry RED qtz-plag	mod/stng, fract sets at 15-20, 40 & 60° C.A.	(chl), ser carb	(qtz)	hem stn abl	-	-	-	(chl) ser carb	-	-	-	-	1% pyr tr cpy	-	Biotite-qtz-plagioclase porphyry with K-spar matrix (30-40% of porphyry is K-spar). Overall red colour with cream to green sericitized (+ chl) plagioclases. Decrease of alteration from last interval of porphyry. Pervasive pyr in mafics. ***K-spar data from Krain drill hole samples that have been stained.		
258.2-265.9	Porphyry red qtz-felds	mod/stng, loc shatt & bkn RQD 11%	(chl) (sil) ser, carb	(qtz vnits 3 mm)	hem stn alb	-	-	-	(ser) tr carb (chl) ser carb	(chl) (sil) ser carb	-	-	(pyr) tr cpy	(pyr)	0-1	One 1 cm apite dykelet. Grey qtz ± ser alteration envelopes 0.5-2 cm (locally forms stockwork). > 1% pyr, fracture>pervasive		
265.9-268.9	Porphyry qtz-red felds cont'd	mod/stng, loc shatt & bkn RQD 22%	(chl), ser carb	qtz vnits 3-5 mm	hem stn alb	-	-	-	(ser) tr carb (chl) ser carb	(chl) ser carb	-	-	(pyr) tr cpy	(pyr)	1	Form weak stockwork. Discrete ser alteration. Sil ± ser alteration envelopes.		
268.9-273.8	Porphyry qtz-red felds	mod, loc stng loc shatt/bkn RQD 32%	(chl), ser carb	qtz vnits 3-5 mm	hem stn alb	-	-	-	(ser) tr carb (chl) ser carb	(chl) ser carb	-	-	(pyr) tr cpy	(pyr)	0-1	Form weak stockwork. sil ± ser alteration envelopes 0.5-1.5 cm. 1% pyr, fracture>pervasive. Discrete ser alteration.		
273.8-278.3 (277.3-277.6)	Porphyry qtz-red felds Porphyry dykelet (brown, felds- qtz porphyry aphanitic matrix)	mod, loc bkn & shatt RQD 28%	(chl), ser carb	(qtz vnits < 3 mm) (loc carb f.f.)	hem stn alb	-	-	-	(ser) tr carb (chl) ser carb	(chl) ser carb	-	-	tr pyr tr cpy	(pyr)	0-1	Trace carb in mafics. Discrete ser alteration. Sil ± ser alteration envelopes 0.5-3 cm. >0.5 % pyr Porphyry dykelet has chilled qtz rich margin 2 cm.		
277.6-283.0	Porphyry qtz-red felds	mod, loc stng shatt & bkn RQD 26%	ser, carb, re chl	qtz vnits < 3 mm	hem stn alb	-	-	-	tr carb (ser) (chl) ser carb tr chl	ser carb tr chl	-	-	(pyr) tr cpy	(pyr)	1	Carb in mafics. Qtz ± ser alteration envelopes 0.5-2 cm. Forms weak "stockwork". Discrete ser. Pyr > 0.5%		
283.0-287.4	Porphyry qtz-red felds	mod, loc stng bkn & shatt RQD 37%	(ser), carb tr chl	qtz vnits < 3 mm	hem stn alb	-	-	-	tr carb tr ser tr chl	(ser) carb tr chl	-	-	tr pyr tr cpy	(pyr)	1	Carb in mafics. Qtz ± ser alteration envelopes 0.5-2 cm. Forms local weak "stockwork". Plagioclase phenocrysts in core towards end of box are cream coloured vs. green, alteration decreasing. Pyr <0.5%		
287.4-292.1	Porphyry qtz- felds	some slip stng/shatt & bkn, loc mod & wk RQD 17%	ser, tr chl, carb	(qtz vnits < 3 mm)	(hem stn alb)	-	-	-	tr carb (ser) tr chl loc alb	ser carb tr chl	-	-	tr cpy (pyr)	(pyr)	1-2	Hem stained alb starts to die out ~ 291.4 m. Carb in mafics. Discrete alteration of plagioclases increasing. Local weak secondary biotite. Fracture pyr>> pervasive pyr. Qtz + ser alteration envelopes 0.5-1.5 cm. One 10 cm interval of alb alteration.		

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
292.1-296.5	Porphyry qtz-felds cont'd	some slip	stng, loc shatt & bkn, loc crush, RQD 0%	ser, (chl) r carb	(qtz vnits < 2 mm)	(hem stn alb)	-	-	(carb) (ser) (chl) (alb)	ser (chl) carb	-	-	(pyr)	(pyr)	1-2		Weak secondary biotite. Discrete (ser) alteration. Patches of alb alteration. Qtz ± ser alteration envelopes 1-3 cm. Cpy starting to reappear. Pyr < 1 %, fracture>pervasive.	
296.5-300.7	Porphyry qtz- felds	-	stng, loc mod shatt/bkn loc crush, loc ckle bx RQD 11%	(ser) tr chl r loc sil, carb	(qtz vnits < 2 mm)	(hem stn alb)	-	-	(carb) (ser) (alb) (chl)	(ser) tr chl r loc sil carb	-	-	tr pyr	(pyr)	1		Local weak secondary biotite. Pyr 0.5%. Qtz + ser alteration envelopes 0.5-1 cm.	
300.7-305.9	Porphyry qtz felds	loc thin 302.6 m	mod/stng, loc stng, loc bkn & crush RQD 25%	(ser) tr chl r (carb)	(qtz vnits < 2 mm)	(hem stn alb)	-	-	(carb) (ser) (chl) tr alb	(ser) tr chl r (carb)	-	-	tr pyr	(pyr)	2		Weak secondary biotite. Qtz + ser alteration 0.5-2 cm. Most are 30° C.A. Pyr 0.5%	
305.9-310.3	Porphyry qtz-felds	loc thin (<1 cm) at 30° C.A.	mod, loc stng & bkn, loc wk RQD 26%	ser, chl r, carb loc sil	qtz vnits < 5 mm (carb f.f.)	(hem stn alb)	-	-	(carb) ser (chl) loc sil	ser chl r carb loc sil	-	-	tr pyr	(pyr) tr cpy	0-1		Three apite dykelets, 1, 1.5 and 0.3 cm. Pyr 1% (pyr increased in qtz veinlets and fracture filling with qtz + ser alteration envelopes). One of the apite dykelets overprinted and bleached by a qtz ± ser alteration envelope on a fracture.	
310.3-315.0	Porphyry qtz-felds	loc thin < 1 cm	mod, loc stng loc shatt/bkn loc gge & crush. RQD 31% (subparallel fract set)	ser, (chl) r carb, loc sil	(qtz vnits < 2 mm)	hem stn alb	-	-	(ser) (chl) (carb)	ser (chl) carb loc sil	-	-	(pyr) tr cpy		1-2		Weak to moderate secondary biotite. Just about all pyr in qtz veinlets and sil ± ser alteration envelopes. Porphyry locally gets finer grained.	
315.0-320.2	Porphyry qtz-felds	-	mod, loc stng loc wk & bkn, RQD 47%	(ser), tr chl r (carb)	(qtz vnits < 3 mm)	(hem stn alb)	-	-	(ser) (chl) (carb)	(ser) tr chl r (carb)	-	-	(pyr)		2		Strong apite dykelets, 1.5 and 3 cm. Discrete ser. Weak to moderate secondary biotite. Qtz ± ser alteration envelopes 0.5-3 cm. All pyr in veinlets, fractures and sil ± ser alteration envelopes.	
320.2-322.4	Porphyry qtz-felds cont'd	-	mod, loc stng shatt/bkn RQD 30%	(ser) tr chl r (carb)	(qtz vnits <3 mm)	hem stn alb	-	-	(ser) (chl) (carb)	(ser) tr chl r (carb)	-	-	(pyr)		2		Three apite dykelets 0.5, 0.5 and 1 cm. Secondary biotite.	
322.4-365.8	Porphyry qtz-felds (alteration increased)	loc thin	mod, loc stng fracts sets 20, 35 & 80° C.A.	chl r, ser, carb	(qtz)	(hem stn ser/alb)	-	-	chl r ser carb	(chl) r ser carb	-	-	1% pyr tr cpy		0-1		Overall alteration intensity increased, intervals of chl r-washed core and an increase in pervasive ser and chl r.	
322.4-324.8	Porphyry (qtz-felds)	loc thin < 1 cm at 30° C.A.	stng, loc mod bkn, loc wk RQD 23%	ser, (chl) r carb	(qtz vnits < 3 mm)	tr hem stn ser	-	-	chl r ser carb cly (cly)	(chl) r ser carb	-	-	(pyr)		1		(Hem) stained ser alteration envelopes to 0.5 cm makes distinctive pattern against chl r core. Sil ± ser alteration envelopes, 0.5-2 cm	
----	wk fault	324.4- 324.4- 325.0 m																Most of fractures and veinlets 30° C.A. Pyr 0.5-1%

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
									perv.	fract.		perv	fract	perv	fract		
324.8-329.0	Porphyry (qtz-felds)		mod, loc shatt & bkn & wk	ser, (cly) (chlr) carb	(qtz vnits < 3 mm) (carb f.f.)	(tr hem stn ser)			chlr	ser				tr pyr	(pyr)	1	(Hem) stained ser alteration envelopes to 1 cm on fractures and outside fo sil ± ser alteration envelopes (1-3 cm). Cpy ≤ 0.5%, pyr > 1 %. Cpy in carb veinlet.
~~~~	wk fault	328.0-328.3 m	RQD 43%						ser	(cly)				tr cpy	(cpy)		
329.0-333.9	Porphyry (qtz felds)		mod/stng, loc mod & bkn	tr chlr, (ser) carb	1 0.5 cm carb vnlt (& f.f.)	hem stn alb			ser	(ser)				tr pyr	(pyr)	1	Weak secondary biotite. Two 1 cm dykelets. Alteration decreasing. Local chlr wash and dis-
~~~~	wk fault	329.1-	RQD 26%		(& f.f.)				chlr	tr chlr				tr cpy			crete chlr, Pyr < 1%, fracture>pervasive
~~~~	wk fault	329.1-329.4 m	RQD 26%		(qtz vnits < 2 mm)				c	(carb)	carb						
333.9-338.5	Porphyry (qtz felds)	loc thin 1 cm at 80° C.A.	mod, loc stng shatt/bkn RQD 23%	ser, (chlr) carb, loc sil	(carb f.f.) (qtz vnits < 5 mm)	(hem stn alb)			(carb)	ser				tr pyr	(pyr)	1-2	Carb concentrated in matrix and alteration rim on sericitized plagioclase phenocrysts. One 1.5 cm aptite dykelet. Local qtz veinlets without qtz & ser alteration envelopes (0.5-1 cm). (Hem) stained alb and ser alteration envelopes. Weakly developed. Local secondary biotite. Two aptite dykelets, 90 cm and 10 cm.
338.5-343.8	Porphyry (qtz felds) cont'd	loc thin 1 cm, 80° C.A.	mod, loc stng wk, loc bkn RQD 39%	(ser), (chlr) carb	(qtz vnits < 2 mm)	(hem stn alb)			(carb)	(ser)					(pyr)	1-2	90 cm aptite is bleached and chlr-green mottled. Pyr < 0.5%. Pyr in 3 mm qtz veinlets in bleached aptite dykelet.
(339.3-340.2)	bleached aptite dykelet								ser	(chlr) carb							
340.2-348.4	Porphyry (qtz felds)	loc gge/ shears, 30 & 40° C.A.	mod/stng, loc mod & wk, loc bkn/shatt RQD 15%	ser, (chlr) carb	(qtz vnits < 5 mm)	(hem stn alb)			(carb)	ser				tr cpy	tr mo	1	Three aptite dykelets: 15, 3 and 0.5 cm. 15 cm aptite dykelet pervasive chlr wash with distinctive bleached hem stained ser 3 mm alteration envelopes. Carb in alteration rims of sericitized plagioclases. One grain of mo seen, cpy picking up. Cpy 0.5%, pyr 0.5-1 %
348.4-353.6	Porphyry (qtz felds)	loc thin & crush	wk/mod, loc stng & shatt RQD 54%	ser, (chlr) loc sil, carb	(qtz vnits < 5 mm)	(hem stn alb)			carb	ser				tr pyr	(pyr)	1	Local weak secondary biotite. Hem stained alb alteration envelopes to 1 cm. Pyr >0.5%.
353.6-358.9	Porphyry (qtz felds)	loc thin, gge & shear 356.3-356.6 m 75° C.A.	wk, loc mod RQD 67% loc crush & heal/dis bx	ser, (chlr) carb	(carb f.f.) 1 qtz vnits 0.5 cm	(hem stn alb)			carb	ser				tr pyr	tr cpy (pyr)	1-2	Two aptite dykelets: 1 and 4 cm. Visible K-spar and qtz grains. Concentration of cpy in shear zone, > 3% cpy over 30 cm. Patchy weak secondary biotite. Pyr 0.5 %, cpy ~ 0.2%. Hem stained alb alteration envelopes.
358.9-364.2	Porphyry (qtz felds)	loc thin < 1 cm 40° C.A.	mod, loc stng & wk; loc shatt/bkn RQD 32%	ser, (chlr) carb	(carb f.f.) 1 qtz ( + K-spar?) vnlt 1 cm	(hem stn alb)			(carb)	ser				tr chalc	(pyr)	1-2	Weak secondary biotite. One 1.5 cm aptite dykelet. Cpy and pyr in microfractures. Pyr> 0.5%. cpy > 0.2%. Hem stained alteration envelopes 0.5-1 cm
									ser	(chlr) carb				tr cpy	tr cpy		
									chlr	(cly)				tr pyr			

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract				
364.2-365.8	Porphry (qtz felds)	loc thin < 1 cm 55° C.A.	mod, loc bkn loc crush/heal RQD 36%	ser, (chlr) carb	(carb f.f.) (qtz vnit frags)	-	-	-	carb ser (chlr) cly	ser (chlr) carb	-	-	-	(pyr)	(pyr)				Pyr < 0.5%. At 365.0 m: chalc (0.5%) with trace of pyr.
EOH 365.8 m																			



Northing:		DDH 96-8				Azimuth: 045			
Easting:		Elevation:				Inclination: -65			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
29998	9.1	10.6	0.03	-					Guichon:
29999	10.6	12.1	0.03	-					"
30000	12.1	13.6	0.02	-					fault (40 cm)
Tag #'s 30001 to 30200 not used									
30201	13.6	15.1	0.02	-	0.1	0.01	5	0.001	"
30202	15.1	16.6	0.02	-					"
30203	16.6	18.1	0.03	-					"
30204	18.1	19.6	0.03	-					"
30205	19.6	21.1	<.01	-					fault (19.3-25.5 m)
30206	21.1	22.6	<.01	-					"
30207	22.6	24.1	<.01	-					"
30208	24.1	25.6	0.04	-					"
30209	25.6	27.1	0.10	-					Guichon:
30210	27.1	28.6	0.15	-					"
30211	28.6	30.1	0.06	-					"
30212	30.1	31.6	0.08	-	0.1	0.01	5	0.001	"
30213	31.6	33.1	0.13	-					"
30214	33.1	34.6	0.12	-					"
30215	34.6	36.1	0.12	-					"
30216	36.1	37.6	0.13	-					"
30217	37.6	39.1	0.09	-					"
30218	39.1	40.6	0.10	-					"
30219	40.6	42.1	0.07	-					"
30220	42.1	43.6	0.12	-					"
30221	43.6	45.1	0.09	-					"
30222	45.1	46.6	0.11	-					"
30223	46.6	48.1	0.08	-	0.1	0.01	5	0.001	Porphyry D3:
30224	48.1	49.6	0.05	-					"
30225	49.6	51.1	0.06	-					"
30226	51.1	52.6	0.08	-					"
30227	52.6	54.1	0.07	-					"
30228	54.1	55.6	0.08	-					"
30229	55.6	57.1	0.07	-					"
30230	57.1	58.6	0.07	-					"
30231	58.6	60.1	0.09	-					"
30232	60.1	61.6	0.15	-	0.1	0.01	10	0.001	Guichon/Hybrid:
30233	61.6	63.1	0.13	-					"
30234	63.1	64.6	0.14	-					"
30235	64.6	66.1	0.14	-					"
30236	66.1	67.6	0.11	-					"
30237	67.6	69.1	0.09	-					"
30238	69.1	70.6	0.10	-					"
30239	70.6	72.1	0.11	-					"
30240	72.1	73.6	0.08	-					"
30241	73.6	75.1	0.09	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30242	75.1	76.6	0.09	-	0.2	0.01	10	0.001	Guichon/Hybrid:
30243	76.6	78.1	0.08	-					"
30244	78.1	79.6	0.07	-					"
30245	79.6	81.1	0.09	-					"
30246	81.1	82.6	0.09	-					"
30247	82.6	84.1	0.11	-					Porphyry D3:
30248	84.1	85.6	0.04	-					(crowded grey)
30249	85.6	87.1	0.04	-					"
30250	87.1	88.6	0.06	-					"
30251	88.6	90.1	0.11	-					Guichon:
30252	90.1	91.6	0.10	-	0.3	0.01	5	0.021	"
30253	91.6	93.1	0.10	-					"
30254	93.1	94.6	0.08	-					Fault zone:
30255	94.6	96.1	0.09	-					possible Porph dykelet
30256	96.1	97.6	0.22	-					Guichon:
30257	97.6	99.1	0.28	-					"
30258	99.1	100.6	0.23	-					"
30259	100.6	102.1	0.14	-					"
30260	102.1	103.6	0.38	-					Cpy Zone:
30261	103.6	105.1	0.24	-					wk fault (20 cm)
30262	105.1	106.6	0.53	-	0.2	0.01	5	0.01	wk fault zone (3.3 m)
30263	106.6	108.1	0.57	-					"
30264	108.1	109.6	0.75	-					"
30265	109.6	111.1	0.56	-					"
30266	111.1	112.6	0.48	-					"
30267	112.6	114.1	0.66	-					"
30268	114.1	115.6	0.57	-					"
30269	115.6	117.1	0.84	-					"
30270	117.1	118.6	0.66	-					"
30271	118.6	120.1	0.66	-					wk fault
30272	120.1	121.6	0.68	-					"
30273	121.6	123.1	0.61	-	0.2	0.01	10	0.029	"
30274	123.1	124.6	0.70	-					"
30275	124.6	126.1	0.81	-					"
30276	126.1	127.6	0.73	-					"
30277	127.6	129.1	0.63	-					Porphyry qtz/plag:
30278	129.1	130.6	0.54	-					fault (80 cm)
30279	130.6	132.1	0.41	-					fault (20 cm)
30280	132.1	133.6	0.36	-					"
30281	133.6	135.1	0.45	-					fault (40 cm)
30282	135.1	136.6	0.38	-	0.1	0.01	5	0.014	"
30283	136.6	138.1	0.31	-					"
30284	138.1	139.6	0.41	-					"
30285	139.6	141.1	0.39	-					Guichon:
30286	141.1	142.6	0.65	-					"
30287	142.6	144.1	0.54	-					"
30288	144.1	145.6	0.48	-					wk fault (30 cm)

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30289	145.6	147.1	0.53	-					Guichon:
30290	147.1	148.6	0.35	-					"
30291	148.6	150.1	0.30	-					fault (80 cm)
30292	150.1	151.6	0.35	-					aplitic porphyry (40 cm)
30293	151.6	153.1	0.40	-	0.1	0.01	5	0.009	fault (1.6 m)
30294	153.1	154.6	0.40	-					"
30295	154.6	156.1	0.32	-					"
30296	156.1	157.6	0.34	-					"
30297	157.6	159.1	0.35	-					"
30298	159.1	160.6	0.38	-					"
30299	160.6	162.1	0.48	-					"
30300	162.1	163.6	0.57	-					"
30301	163.6	165.1	0.43	-					"
30302	165.1	166.6	0.65	-					"
30303	166.6	168.1	0.30	-	0.3	0.01	5	0.016	"
30304	168.1	169.6	0.41	-					"
30305	169.6	171.1	0.31	-					"
30306	171.1	172.6	0.49	-					"
30307	172.6	174.1	0.54	-					"
30308	174.1	175.6	0.53	-					"
30309	175.6	177.1	0.42	-					"
30310	177.1	178.6	0.29	-					fault zone (1.5 m)
30311	178.6	180.1	0.49	-					"
30312	180.1	181.6	0.41	-	0.1	0.01	5	0.055	"
30313	181.6	183.1	0.32	-					"
30314	183.1	184.6	0.38	-					wk fault (20 cm)
30315	184.6	186.1	0.33	-					"
30316	186.1	187.6	0.34	-					shear (40 cm)
30317	187.6	189.1	0.22	-					Porphyry hbde/qtz:
30318	189.1	190.6	0.33	-					"
30319	190.6	192.1	0.39	-					"
30320	192.1	193.6	0.44	-					"
30321	193.6	195.1	0.34	-					"
30322	195.1	196.6	0.36	-	0.1	0.01	5	0.005	"
30323	196.6	198.1	0.44	-					Guichon:
30324	198.1	199.6	0.38	-					"
30325	199.6	201.1	0.42	-					Fp-1 Porphyry (50 cm)
30326	201.1	202.6	0.60	-					"
30327	202.6	204.1	0.58	-					"
30328	204.1	205.6	0.52	-					"
30329	205.6	207.1	0.42	-					"
30330	207.1	208.6	0.37	-					Porphyry:
30331	208.6	210.1	0.26	-					fault (1 m)
30332	210.1	211.6	0.45	-	0.1	0.01	5	0.002	Guichon/Hybrid:
30333	211.6	213.1	0.44	-					"
30334	213.1	214.6	0.35	-					"
30335	214.6	216.1	0.28	-					Porphyry Fp-1:

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30336	216.1	217.6	0.25	-					Porphyry Fp-1
30337	217.6	219.1	0.48	-					wk fault zone?
30338	219.1	220.6	0.37	-					"
30339	220.6	222.1	0.44	-					"
30340	222.1	223.6	0.48	-					fault zone
30341	223.6	225.1	1.10	-					"
30342	225.1	226.6	0.40	-	0.1	0.01	5	0.004	"
30343	226.6	228.1	0.37	-					wk fault zone (3.2 m)
30344	228.1	229.6	0.29	-					"
30345	229.6	231.1	0.17	-					"
30346	231.1	232.6	0.21	-					"
30347	232.6	234.1	0.28	-					fault zone (3 m)
30348	234.1	235.6	0.25	-					Porphyry qtz/feldspar:
30349	235.6	237.1	0.22	-					fault (60 cm)
30350	237.1	238.6	0.23	-					"
30351	238.6	240.1	0.09	-					"
30352	240.1	241.6	0.10	-	0.1	0.01	5	0.002	wk fault 50 cm)
30353	241.6	243.1	0.10	-					"
30354	243.1	244.6	0.14	-					"
30355	244.6	246.1	0.22	-					fault zone (3.6 m)
30356	246.1	247.6	0.28	-					"
30357	247.6	249.1	0.14	-					"
30358	249.1	250.6	0.03	-					"
30359	250.6	252.1	0.07	-					"
30360	252.1	253.6	0.07	-					"
30361	253.6	255.1	0.06	-					"
30362	255.1	256.6	0.18	-					"
30363	256.6	258.1	0.04	-	0.1	0.01	5	<.001	"
30364	258.1	259.6	0.02	-					Porph, RED qtz/plag:
30365	259.6	261.1	0.06	-					RED qtz/feldspar:
30366	261.1	262.6	0.03	-					"
30367	262.6	264.1	0.04	-					"
30368	264.1	265.6	0.04	-					"
30369	265.6	267.1	0.03	-					"
30370	267.1	268.6	0.03	-					"
30371	268.6	270.1	0.04	-					"
30372	270.1	271.6	0.03	-	0.1	0.01	5	<.001	"
30373	271.6	273.1	0.02	-					"
30374	273.1	274.6	0.04	-					"
30375	274.6	276.1	0.02	-					"
30376	276.1	277.6	0.03	-					"
30377	277.6	279.1	0.02	-					Porphyry dykelet (30 cm):
30378	279.1	280.6	0.08	-					brown, felds/qtz porph
30379	280.6	282.1	0.05	-					aphanitic matrix
30380	282.1	283.6	0.02	-					"
30381	283.6	285.1	0.02	-					"
30382	285.1	286.6	0.02	-	0.1	0.01	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30383	286.6	288.1	0.02	-					Porphyry qtz/feldspar:
30384	288.1	289.6	0.03	-					"
30385	289.6	291.1	0.04	-					"
30386	291.1	292.6	0.04	-					"
30387	292.6	294.1	0.05	-					"
30388	294.1	295.6	0.03	-					"
30389	295.6	297.1	0.01	-					"
30390	297.1	298.6	0.06	-					"
30391	298.6	300.1	0.02	-					"
30392	300.1	301.6	0.03	-	0.1	0.01	5	<.001	"
30393	301.6	303.1	0.02	-					"
30394	303.1	304.6	0.01	-					"
30395	304.6	306.1	0.01	-					"
30396	306.1	307.6	0.14	-					"
30397	307.6	309.1	0.22	-					"
30398	309.1	310.6	0.03	-					"
30399	310.6	312.1	0.02	-					"
30400	312.1	313.6	0.02	-					"
30401	313.6	315.1	0.02	-					"
30402	315.1	316.6	0.03	-	0.1	0.01	5	<.001	"
30403	316.6	318.1	0.02	-					"
30404	318.1	319.6	0.02	-					"
30405	319.6	321.1	0.02	-					"
30406	321.1	322.6	0.02	-					"
30407	322.6	324.1	0.04	-					"
30408	324.1	325.6	0.10	-					"
30409	325.6	327.1	0.10	-					"
30410	327.1	328.6	0.03	-					wk fault (30 cm)
30411	328.6	330.1	0.04	-					wk fault (30 cm)
30412	330.1	331.6	0.02	-					"
30413	331.6	333.1	0.03	-	0.1	0.01	5	<.001	"
30414	333.1	334.6	0.02	-					"
30415	334.6	336.1	0.02	-					"
30416	336.1	337.6	0.02	-					"
30417	337.6	339.1	0.03	-					"
30418	339.1	340.6	0.05	-					bleached aplite dykelet
30419	340.6	342.1	0.04	-					(90 cm)
30420	342.1	343.6	0.02	-					"
30421	343.6	345.1	0.04	-					"
30422	345.1	346.6	0.05	-	0.1	0.01	5	<.001	"
30423	346.6	348.1	0.04	-					"
30424	348.1	349.6	0.03	-					"
30425	349.6	351.1	0.02	-					"
30426	351.1	352.6	0.02	-					"
30427	352.6	354.1	0.01	-					"
30428	354.1	355.6	0.03	-					"
30429	355.6	357.1	0.23	-					"

Sample Number	Interval (m)		% Total	% Non-	Ag	Ag	Au	% Mo	Lithology
	from	to	Cu	Sulphide Cu	(g/t)	(oz/t)	(ppb)		
30430	357.1	358.6	0.01	-					Porphyry qtz/feldspar:
30431	358.6	360.1	0.03	-	0.1	0.01	5	<.001	"
30432	360.1	361.6	0.04	-					"
30433	361.6	363.1	0.02	-					"
30434	363.1	364.6	0.02	-					"
30435	364.6	365.8	0.05	-	*last composite 8 samples				"
<b>end of hole</b>									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 96-9		Date		29-Feb-96		Logged by		F.M											
Elevation		1714.2 m		Azimuth		045		Northing:		5603998.5									
Inclination		-45		Length		277.7 m		Easting:		641683.7									
STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS			
ROCK TYPE		FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary						
interval (m)		GOUGE	INTENSITY	SURFACES					perv.	fract.		perv	fract	perv	fract				
0-27.1	overburden & casing																		
27.1-87.2	Porphyry	faulting throughout	stng/bkn/ckle bx, fract set 70, 60, 25-30° C.A.	(chl) carb (cly) (ser)	carb, (qtz)				ser (chl) chl carb cly tr carb					2% pyr tr mo 0.5-1% cpy		0-1	Probably the D3 hornblende plagioclase crowded porphyry but hard to tell because of alteration intensity. Moderated amounts of pervasive pyr and fracture pyr. Grey to pale green colour. Locally carb fracture filling and dislocation breccia matrix. Qtz and ser alteration envelopes of fractures and veinlets.		
27.1-32.0	Porphyry (feldspar?) fault zone	27.1-32.0 m	ckle dis bx (loc comp ckle bx) loc crush & mill & gge	cly, ser, carb	carb f.f. pyr + (qtz) vnits	loc jar stn cly	loc jar stn cly	(Fe) cly	ser chl carb cly					pyr (cpy)		0-1	Carb in dislocation breccia matrix and gouge. Pyr (and qtz) veinlets to 1 cm across. Pyr > 4%		
32.0-35.7	Porphyry fault	33.5-35.1 m	ckle bx (stng to loc mod pieces) 1 fault bx & gge (no comp) RQD 2%	(chl), ser (cly) carb	carb f.f. vnits & (dis bx matrix) pyr + qtz ± cpy vnits < 3 mm				carb ser chl cly	(chl) ser (cly) carb				pyr (cpy) tr mo			Ser and qtz alteration envelopes. 0.5 cm. Most of pyr in veinlets and not on fracture surfaces. Molybdenite in pyr and qtz veinlet. Fracture pyr> pervasive pyr. Cpy ≥ 0.5%		
35.7-39.6	Porphyry fault	36.0-39.6 m	bkn/crush loc stng/ckle bx, RQD 0%	ser, (chl) (cly) carb	(carb f.f.)				carb ser chl cly	(chl) (cly) carb				pyr (cpy)	pyr (cpy)	0-1	2 % pyr (fracture=pervasive). >0.5% cpy.		
39.6-43.2	Porphyry	loc thin	bkn, loc stng/shatt, RQD 0%	(ser) tr chl carb	carb f.f. qtz + pyr + cpy vnits < 3 mm				carb ser chl (cly)	(ser) tr chl carb				pyr (cpy) tr mo (cpy) pyr		1	Qtz ± ser alteration envelopes 0.5-1 cm across, forms local "stockwork". Trace mo in qtz veinlets.		
43.2-47.1	Porphyry cont'd	loc thin	ckle bx (stng pieces) loc bkn & shatt loc crush/mill RQD 0%	ser (cly) carb	carb f.f. (& vnits) qtz + cpy vnits 2-5 mm				carb ser chl (cly)	carb ser (cly)				pyr (cpy) cpy tr mo		0-1	Noticeable increase in cpy. Qtz and ser alteration envelopes 0.5-1 cm. Cpy 1%, pyr 2%. Fracture cpy> pervasive cpy. Fracture pyr≥ pervasive pyr. Local pale pink carb.		

ROCK TYPE	FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene					primary	
									perv.	fract.		perv	fract				perv	fract
interval (m)																		
47.1-50.7 ~~~~	Porphyry fault	49.1-50.7 m	ckle bx (mod /stng pieces) loc bkn crush gge & fault bx RQD 0%	ser, cly, carb (chlr) carb	carb f.f. (& irreg vnits) qtz + pyr + cpy vnits 1-5 mm	-	-	-	carb ser chlr cly	ser cly (chlr) carb	-	-	-	pyr (cpy) pyr cpy	(mo)	0-1	Local comminuted sulphides on fractures, increase in pervasive chlr, overall have a freckling of bleached spots. Qtz + ser alteration envelopes 0.5-1 cm, loc "stockwork". Qtz veinlets crosscut by carb veinlets.	
50.7-54.0 ~~~~	Porphyry fault	50.7-54.0 m	ckle bx (stng/shatt) loc fault bx crush & gge, RQD 0%	ser, cly, carb (chlr)	carb f.f. qtz + pyr vnits < 3 mm	-	-	-	carb ser chlr cly	ser cly (chlr) carb	-	-	-	pyr (cpy) tr cpy pyr	(mo)	0-1	Local bleached spot freckling. Pervasive sulphides strong decrease. Pyr 1.5%, cpy ≤ 1%. Sil ± ser alteration envelopes 0.5-1 cm	
54.0-57.8 ~~~~	Porphyry fault	54.0-57.8 m	mill & gge loc healed, loc dis & ckle bx (stng pieces) RQD 0%	cly, carb, ser (chlr)	carb f.f. & irreg vnits qtz + pyr ± cpy ± mo vnits < 3 mm	-	-	-	(carb) ser chlr cly	cly ser (chlr) carb	-	-	-	pyr (cpy) tr mo pyr (cpy)	(mo)	1	1.5% pyr (fracture>pervasive), < 1% cpy. Qtz + ser alteration envelopes 0.5-1 cm. Local weak "stockwork".	
57.8-61.6 ~~~~	Porphyry fault	57.8-61.6 m	bkn & crush loc gge/shatt & loc stng RQD 0%	(cly), ser carb	qtz + pyr vnits < 3 mm	-	-	-	sil (ep) (ser)	(cly) (ser) carb	(ep?)	-	-	pyr (cpy) tr mo (cpy)	(mo)	0-1	Pyr ≥ 2%, fracture >pervasive. Little drill rounding considering how broken up core is. One 1 cm pyr (+ qtz) veinlet. Pervasive cpy and pyr have picked up again.	
61.6-64.9 ~~~~	Porphyry fault	61.6-62.4 m loc thin 55° C.A.	bkn/shatt, loc stng to 62.5 m ckle bx (mod/stng pieces)/ stng, loc shatt/ bkn, RQD 12%	(chlr), ser cly, carb	(carb f.f. & vnits ) qtz vnits 0.2-1 cm	-	-	-	ser chlr cly carb (sil) (ep)	(chlr) ser cly carb	(ep?)	-	-	pyr tr mo pyr (cpy)	(mo)	0-1	Pervasive sil (& ep) ends ~63.6 m. Qtz ± ser alteration envelopes 0.5-1 cm; mo on selvages of qtz veinlets and local weak "stockwork". Pyr 2%, cpy <1%	
64.9-68.0 ~~~~	Porphyry fault	64.9-67.4 m	bkn/shatt, loc crush & gge ckle bx RQD 0%	ser, cly, carb	(qtz vnits < 2 mm)	-	-	-	sil ser	ser cly carb	-	-	-	pyr (cpy) pyr cpy	(mo)	0-1	Cpy > pyr, more veinlets contain cpy than pyr. Cpy > 1%, pyr 1%	
68.0-72.8	Porphyry	loc thin	bkn/crush loc shatt & stng, RQD 0%	ser, carb	(carb f.f.)	-	-	-	(sil) (alb) (ser) (ep)	ser carb	(ep)	-	-	(pyr) (cpy) tr mo cpy (pyr)	(mo)	0-1	Local drill rounding. Alteration decreasing. Pervasive sil to 70.1 m, then alteration decreasing or alb alteration with deuteric ep. Cpy 1.5%, pyr > 1%. Qtz± ser alteration envelopes, 0.5 cm. Pervasive cpy = pervasive pyr. Pyr concentrated in mafics.	
72.8-76.2	Porphyry		shatt/bkn loc stng, loc mod, RQD 5%	ser, carb	qtz vnits 0.5-1 cm	-	-	-	(sil) ser (alb) tr ep	ser carb	tr ep	-	-	pyr (cpy) tr mo cpy (pyr)	(mo)	1	Local drill rounding. Alteration decreasing. Pyr 1%, cpy 1%	



ROCK TYPE	FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
		FAULT GOUGE	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene					primary	
			INTENSITY	SURFACES					perv.	fract.		perv	fract				perv	fract
interval (m)																		
76.2-81.1 ~~~~	Porphyry fault	78.1-81.4 m	bkn, loc shatt crush & gge loc dis bx, (well healed) RQD 4%	ser, cly, carb	qtz vnits 1 mm-1 cm frags	-	-	-	(chlr) ser	ser cly carb	-	-	-	pyr tr mo cpy (pyr)	1	Qtz ± ser alteration envelopes 0.5-1 cm Pyr 1%, cpy1%		
81.1-84.5 ~~~~	Guichon fault	81.4-84.5 m	bkn, loc crush & gge, loc stng/mod RQD 0%	cly, ser (chlr) carb	qtz vnits 0.5-1.5 cm (carb f.f. & vnits)	-	-	-	ser chlr cly carb	cly ser (chlr) carb	-	-	(cpy) (pyr) (cpy)	tr mo (pyr) (cpy)	1	Pervasive cpy> pervasive pyr. Cpy 1.5 %, >1% pyr. Core of one qtz veinlet 1-2 mm outer mo "selvage" with inner cpy.		
84.5-87.2	Porphyry	loc thin	mod/stng, loc shatt & bkn RQD 7%	cly, ser, chlr carb	(qtz vnits 0.5-1.5 cm)	-	-	-	ser chlr cly carb	cly ser chlr carb	-	-	cpy (pyr)	cpy (pyr)	1	Alteration increasing. contact hard to pin down because of alteration intensity. Cpy 1.5-2% Pyr 1%, cpy >pyr.		
87.2-140.0	Guichon intervals of Guichon/ Hybrid and Porphyry	loc throughout	mod/stng fracts sets 30, 55, 20, 70° C.A.	ser, cly, carb (chlr)	qtz (carb)	-	-	-	carb ser chlr cly	ser cly (chlr) carb	-	-	> 1% cpy 0.5% pyr			Qtz-biotite diorite. Cpy> pyr. Local secondary biotite. Alteration decreases down hole.		
87.2-88.4	Guichon	loc thin, 35° C.A.	stng, loc mod & bkn RQD 17%	ser, (chlr) carb	(carb f.f.) qtz vnits 0.5-2.5 cm (2 cm at 40° C.A., 2.5 cm at 30° C.A.)	loc hem stn alb	loc hem stn cly	-	carb ser chlr cly	ser (chlr) carb (cly)	-	-	cpy (pyr)	(cpy) (pyr)	0-1	2.5 cm qtz veinlet offset an unknown amount by a shear at 40° C.A. Pervasive cpy> pervasive pyr. Pyr 0.5%, cpy > 1.5%		
88.4-91.9	Guichon	loc thin (< 1 cm) 30° C.A.	shatt & bkn loc stng, ckle bx, loc crush RQD 0%	ser, (chlr) carb	(carb f.f.) qtz vnits 3 mm-1.5 cm (1.5 cm vnits at 15 & 30° C.A.)	-	loc hem stn cly	-	(carb) ser chlr (cly)	ser (chlr) carb	-	-	cpy (pyr)	(pyr) (cpy)	0-1	Local qtz veinlet stockworks. Pyr >0.5% Cpy >1.5%. Qtz ± ser alteration envelopes ≤ 0.5 cm.		
91.9-95.5	Guichon/ Hybrid? xenolith	loc thin, 15° C.A.	stng/shatt, loc bkn, loc fault bx	ser, chlr, cly carb	carb f.f. (& vnits) (qtz vnits 3 mm & frags, [+2 cm])	-	-	-	ser chlr cly carb	ser chlr cly carb	-	-	(cpy) (pyr)	(pyr) (cpy)	0-1	cpy 1-1.5%, pyr 0.5-1%. Pervasive cpy>fracture cpy. Pervasive pyr> fracture cpy.		
95.5-97.5 ~~~~	Guichon fault	97.2-97.5 m	mod/stng ckle & dis bx, loc crush & gge RQD 0%	cly, ser, chlr carb	carb f.f.	-	-	-	ser chlr cly (carb)	cly ser chlr carb	-	-	(cpy) (pyr)	(pyr)	0-1	Pervasive cpy very fine grained. cpy 0.5-1% Pyr 0.5%.		

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
interval (m)																		
97.5-100.2	Porphyry (plag-?) fault	97.5-100.2 m (bottom 50° C.A.)	stng/ckle & dis bx, loc crush & gge. RQD 0%	ser, chlr, carb cly	carb f.f. (qtz vnits 0.5-1.5 cm [1.5 cm at 30° C.A.])	-	-	-	ser chlr cly (carb)	cly ser chlr carb	-	-	-	(cpy) (pyr)	0-1	Difficult to tell what's what because of high lateration intensity. Cpy >0.5%, Pyr 0.5%		
100.2-102.8	Guichon	loc thin < 1 cm	mod/stng loc shatt/bkn RQD 9%	chl. (ser) (cly), carb	(carb f.f.) (qtz vnits 1-5 mm)	-	-	-	bio chl. chl. ser cly carb	chl. (ser) (cly) carb	-	-	-	(cpy) (pyr) tr cpy	0-1 loc 2	Cpy seems to be following very faint healed fractures. Cpy >0.5%, Pyr >0.5%		
102.8-106.2	Guichon	loc thin 65, 70° C.A.	stng/shatt loc mod, loc crush & gge RQD 18% conj fract set 30 & 40° C.A.	chl. ser, (cly) carb	(carb f.f. & vnits) (qtz vnits 1-5 mm)	-	-	-	(bio) chl. chl. ser carb	chl. ser (cly) carb	-	-	-	(cpy) (pyr) tr pyr (cpy)	1-2	Alteration decreasing. Cpy 1%, Pyr 0.5-1 % Pervasive cpy> fracture cpy.		
106.2-109.6	Guichon	-	shatt/bkn loc mod/stng loc ckle bx RQD 0%	ser, (chl) (cly), carb	(carb vnits to 1 cm) (qtz vnits ≤ 3 mm)	-	-	-	(phlog) (bio) tr rp (chl) (ser) tr sil carb	ser (chl) (cly) carb	tr ep?	-	-	(cpy) (cpy) (pyr)	1-2	Alteration decreasing. Cpy 1%, pervasive cpy> fracture cpy. Pervasive cpy not evenly distributed and occurs in patches and around chl healed fractures.		
109.6-112.8	Guichon fault zone	111.0-112.4 m (bottom at 70° C.A.)	stng/shatt, loc bkn, loc crush & gge RQD 0%	ser, carb (chl), (cly)	(carb f.f. & vnits)	-	-	-	carb (bio) tr sil ser (chl) (cly)	ser (chl) (cly) carb	-	-	-	(cpy) (pyr) tr cpy	1-2	Ser and chl intervals. Pervasive cpy in alteration envelopes on chl healed fractures and fractures Pyr ≥ cpy. Cpy 0.5-1%, pyr <1%. Pyr on fractures increasing.		
112.8-116.5	Guichon	slip surfaces	stng, loc mod shatt/bkn RQD 11% loc crush/heal	ser, chl, carb (cly)	(carb f.f. & vnits & in a healed shear) (qtz vnits 1 mm-1 cm)	-	loc hem stn cly & ser	-	(sil) (ep) carb (bio) (phlog)	ser chl (cly) carb (ep)	-	-	-	(cpy) tr mo (pyr) (cpy)	1-2	Ep in bands and patches. Movement on subparallel fracture 45° slickensides to C.A. Most of cpy in fractures and around chl healed fractures. Trace mo in 1 cm qtz veinlet margin with pyr in core. Cpy in shear zone. 1% cpy, 1% pyr.		
116.5-120.1	Guichon	-	mod, loc wk & stng, bkn RQD 26%	(chl), ser carb	(carb f.f. & vnits to 0.5 cm) (qtz & pyr vnits <2 mm)	-	-	-	carb (sil) (bio) tr alb (chl) (ep)	(chl) ser carb	(ep?)	-	-	(pyr) (cpy) (pyr) (cpy) tr mo	2-3	Most of carb in mafics. Discrete (chl) alteration. >0.5 % cpy, 1% pyr. Trace of mo along chl healed fracture. Pervasive cpy associated with chl healed fractures.		

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
120.1-124.2	Guichon fault	123.6-123.8 m	stng/shatt & bkn, RQD 0%	ser, chlr, carb	(carb f.f. & vnlt, 1, 1.5 cm)	-	-	-	carb (sil) (bio) (chl) (ep) (phlog)	ser (chl) carb	(ep?)	-	-	(cpy) (pyr)	(pyr) (cpy)	2-3		Chlr healed fractures, Cpy <1%, pyr < 1%.
124.2-130.4	Porphyry	-	stng/shatt loc bkn	ser, (chl) carb	(carb f.f. & vnlt to 1.5 cm) (qtz & pyr < 2 mm)	-	-	-	carb ser (chl) chl (cly)	ser (chl) carb	-	-	-	(pyr) (cpy)	(pyr) (cpy)	0-1		Fracture pyr>>pervasive pyr. Qtz and ser envelopes to 0.5 cm. 1% pyr, <0.5% cpy. Patches of pervasive chl. Qtz and ser alteration envelopes 0.3-1.5 cm. Carb veinlets are locally vuggy and hem stained.
130.4-133.9	Porphyry	loc thin	stng, loc shatt & bkn, (fault bx), loc healed dis bx RQD 0%	chl, ser, carb cly	(carb f.f. & vnlt)	-	-	-	ser chl chl ser cly (carb)	chl ser carb cly	-	-	-	(pyr) (cpy)	pyr (cpy)	0		Difficult to tell what's what because of alteration intensity --- possibly short intervals of Guichon. Fragments in dislocation breccia quite bleached Polymictic healed breccia with cpy blobs. Pervasive chl interval. Pervasive cpy very fine grained. ~ 2% cpy.
133.9-137.2	Porphyry	loc thin 40-50° C.A.	bkn, loc stng RQD 0%	chl, ser, carb cly	(qtz & pyr < 3 mm) (carb f.f. & vnlt)	-	-	-	(alb) (ep) ser chl carb	chl ser carb cly	-	-	-	(pyr) tr cpy	pyr tr cpy	1		136.0-137.4 m drill rounding. Aplitic porphyry fragments with ep and pyr. Overall alteration intensity decreases with depth. Possible contact with Guichon quartz diorite at ~ 137.2 m -- drill rounded fragments make location uncertain.
137.2-161.0	Guichon	loc thin 1 fault & 2 wk faults	mod/stng, loc bkn, fract at 30-50 & 80° C.A.	ser, carb (chl) (cly)	carb	-	-	-	ser (chl) (carb) (sil) (bio) (ep) (alb)	ser (chl) (cly) carb	(ep?)	-	-	1% pyr <0.5% cpy		2-3		Qtz-biotite diorite - granodiorite. Core mostly pervasive (sil) with intervals of more altered ser core, increasing towards fault zone. Pyr > cpy Fract > > perv. Now more into a pyr shell?
137.2-141.2	Guichon	-	shatt & bkn loc mod & ckle bx RQD 5%	ser, (chl) carb	-	-	-	-	(carb) (sil) (ser) (chl) (alb)	ser (chl) carb	-	-	-	(pyr) (cpy)	(pyr)	2-3		Moderate pervasive ser in ckle breccia. Discrete chl. Pyr 1.5%, >0.5% cpy. Local crystalline calcite on fractures.
141.2-144.6	Guichon	-	shatt/bkn loc stng RQD 0%	ser, carb. (chl) (cly)	(carb f.f.) qtz + pyr vnlt < 5 mm	-	-	-	carb (ser) (sil) (chl) (alb) tr bio	ser carb (chl) (cly)	-	-	-	(pyr) tr cpy	pyr (cpy)	2-3		Ser and chl intervals. Cpy in chl healed fractures > 0.5% cpy, 1.5% pyr. Qtz and ser alteration envelopes 1 cm on pyr and qtz veinlets.

ROCK TYPE	FAULT	STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
interval (m)																		
144.6-148.3 ~~~~	Guichon fault/shear	144.9- 145.5 m bottom 20° C.A.	stng, loc mod shatt/bkn, loc crush/gge	ser, carb, chr	(carb f.f. & vnits to 1 cm) (qtz + pyr vnits ≤ 0.5 cm [3 0.5 cm vnits ~ ⊥ to C.A.]	-	-	-	carb ser tr sil chr (cly) (bio) (phlog)	ser carb chr	(ep?)	-	-	(pyr) tr cpy	(pyr) (cpy)		> 60% of core pervasive ser. 1 cm carb veinlet 30o C.A. >30% cpy on blobs throughout. Pyr in selvages. One 4 cm diffuse ep band. 0.5-1% cpy. 1.5% pyr.	
148.3-151.9	Guichon	some slip	mod, loc shatt & bkn, loc wk RQD 16%	ser, chr, carb	(carb f.f.) (qtz + pyr vnits <5 mm)	-	-	-	carb (ep) (bio) (sil) (alb) (phlog)	ser chr carb (ep)	(ep?)	-	-	tr cpy (pyr) tr cpy	(pyr) tr cpy	2-3	Pyr > 1.5%. Qtz and pyr veinlets ~ perpendicular to core axis. Fracture pyr>> pervasive pyr Ep bands and fracture filling. Qtz and ser alteration envelope on pyr and qtz veinlets to 1 cm with outer chr alteration envelopes.	
151.9-155.8	Guichon		shatt & stng loc bkn, mod RQD 12%	ser (chr) carb	(carb f.f.) (qtz + pyr vnits ≤ 5 mm)	-	-	-	carb (ser) tr sil	ser (chr) carb	-	-	(pyr) tr cpy	pyr (cpy)		One 30 cm interval of ser and chr. Pyr >1.5% cpy < 0.5%		
155.8-159.4 ~~~~ ~~~~	Guichon wk fault ~~~~ wk fault	155.8- 156.0 m 158.3- 159.0 m 10° C.A.	stng/shatt & bkn, loc crush mill & gge. RQD 0%	cly, chr, carb ser	(carb f.f. & vnits to 0.5 cm) (qtz + pyr vnits ≤ 2 mm)	-	-	-	carb ser (chr) (cly) (phlog)	cly ser chr carb	-	-	(pyr) tr cpy	(pyr) tr cpy	2-3	Pervasive cpy and pyr in mafics. 1-1.5% pyr, 0.2-0.5% cpy.		
159.4-161.0	Guichon		stng/shatt & bkn, loc mod RQD 10%	ser, (chr) cly, carb	(carb f.f. & vnits < 0.5 cm) qtz + pyr vnits < 3 mm	-	-	-	ser carb chr (phlog)	ser (chr) cly carb	-	-	(pyr)	pyr tr cpy	2-3	Qtz and ser alteration envelopes and outer chr alteration envelopes. Local pervasive carb. 1.5% pyr and 0.2-0.5% cpy.		
161.0-182.6	Guichon Fault Zone	throughout	stng/shatt & bkn, loc gge fracts at 60- 70° and sub- parallel C.A. RQD 0%	cly, (chr) ser, carb	carb (qtz)	-	-	-	(chr) (ser) (alb) (sil)	cly (chr) ser carb	-	-	-	1% pyr		Qtz-biotite diorite - Granodiorite. The faulting has remobilized cpy resulting in a significant increase in cpy through gouge and milled core. Fracture pyr > pervasive pyr.		
161.0-162.6 ~~~~	Guichon cont'd fault/shear zone	161.0- 162.6 m	fault bx, loc mill & gge RQD 0%	cly, ser, carb chr	carb f.f. & matrix	-	-	-	ser chr carb	cly ser chr carb	-	-	cpy (pyr)	cpy pyr	0	~ 10% cpy, >2% pyr. Fault breccia/shear zone containing pervasive cpy and at least 20% carb as matrix.		
162.6-166.0 ~~~~	Guichon fault	162.6- 164.7 m	stng/shatt & bkn, loc crush mill and gge RQD 0%	cly, ser, carb (chr)	(carb f.f. & vnits to 0.5 cm) (qtz + pyr vnits <3mm)	-	-	-	(carb) (bio) (chr) ser	cly ser (chr) carb	-	-	tr cpy (pyr)	cpy pyr	2-3	Cpy in carb veinlet. Local sil patches with cpy blobs. ~ 10% cpy. Overall > 2% cpy (distribution of cpy irregular, therefore hard to tell) Fracture pyr > pervasive pyr. 1-1.5% pyr.		

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
166.0-169.1	Guichon	loc thin	shatt/bkn/ckle bx (loc well carb healed) loc stng RQD 0%	ser, carb, cly chl	carb f.f. 1 irreg vnit	-	-	-	carb (alb) (chl)	ser cly chl carb (bio)	-	-	-	tr cpy (pyr)	tr cpy	2-3		Pervasive cpy associated with fractures and alteration envelopes. Cpy < 0.5%, pyr 1%
169.1-172.2	Guichon wk fault	169.1- 169.5 m	bkn/shatt, loc stng RQD 0%	ser, carb chl, cly	(carb f.f.) 1 irreg vnit	-	-	-	(chl) (alb) carb (bio)	ser chl (cly)	-	-	-	(pyr) tr cpy	(pyr)	2-3		1% pyr, cpy <0.5%
172.2-175.9	Guichon fault	174.0- 174.9 m	bkn, loc shatt & stng, loc crush, mill & gge. RQD 0%	ser, cly, chl carb	(carb f.f. & irreg vnits)	(hem stn alb)	-	-	carb (alb) (chl) (bio)	ser cly chl carb	-	-	-	tr pyr	(pyr)			Local drill rounding and core loss. Carb in mafics. Fracture >>pervasive pyr, 0.5-1 % pyr.
175.9-182.6	Guichon	loc slip	stng/shatt & bkn RQD 0%	ser, chl, carb, cly	(carb f.f.) 1 qtz + pyr vnt 0.5 cm	(hem stn alb)	-	-	carb (alb) tr sil (chl) (ser)	ser chl (cly) carb	-	-	-	tr pyr	(pyr)	2-3		Discrete pervasive chl.
182.6-211.7	Guichon	some slip	mod, loc stng & bkn, fracts at 20, 30, 50, subparallel & 70-80° C.A.	ser, carb, (chl)	(carb) (qtz)	-	-	-	(chl) tr alb (sil)	ser carb (chl)	-	-	-	0.5-1% pyr 0.2-0.5% cpy		2-3		Biotite - Granodiorite (much more siliceous looking). Discrete pervasive chl. Alteration has decreased, getting into fairly fresh rock. Mafics half original biotite, half chl. Fracture pyr >> pervasive pyr. Local ser intervals; carb > qtz.
182.6-185.0	Guichon	some slip	mod/stng, loc shatt & bkn loc wk RQD 29%	ser, chl, carb	(carb f.f.) (qtz + pyr vnits <3 mm)	-	-	-	(chl) (carb) tr rp (phlog) (bio?) (ser)	ser chl carb	-	-	-	tr cpy (pyr)	(pyr)	2-3		Carb in mafics. >0.2% cpy, 0.5-1 % pyr
185.0-188.7	Guichon/ Hybrid?		wk/mod, loc stng & shatt RQD 36%	ser, (chl) carb	(carb f.f.)	-	-	-	tr carb (chl) tr ser	ser (chl) carb	-	-	-	tr pyr tr cpy	(pyr)	2-3		Pyr >0.5% pyr, <0.2% cpy.
188.7-192.6	Guichon/ Hybrid	loc slip	mod, loc ckle bx & shatt RQD 42%	ser, (chl) carb	(carb f.f. & vnits) 1 3 cm vnt at 20° C.A.	-	-	-	(carb) (chl) (ep) (phlog) (tr alb)	ser (chl) carb	-	-	-	tr cpy (pyr)	(pyr)	2-3		Local crystalline calcite on fractures, carb in mafics. 3 cm carb veinlet is crystalline and contains parallel "selvages" 1 cm thick; pale green ser? kind of looks like it could be Guichon ground down to its constituent particles and healed. Fracture pyr > pervasive pyr. 0.2% cpy. 1.5 cm ep band with sharp contacts.

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.		perv	fract	perv	fract			
192.6-196.2	Guichon	-	shtgn/shatt & bkn, loc mod RQD 6%	ser, (chl) r carb	(carb f.f.) (qtz + pyr vnits <3 mm)	-	-	-	(ser) (chl) r carb	ser (chl) r carb	-	-	-	tr cpy (pyr)	2-3	< 1% pyr, 0.2-0.5% cpy. Pervasive pyr and cpy associated with chl healed fractures and veinlets	
196.2-199.6	Guichon	loc slip	mod, loc stng. & shatt RQD 15%	ser, chl, carb	(carb f.f. & vnits to 0.5 cm) (qtz & pyr vnits <3 mm)	-	-	-	carb (alb) (chl) r	ser chl carb	-	-	-	(cpy) (pyr)	2-3	cpy 0.5%, pyr <1%. slightly more cpy but still associated with fractures and veinlets. Qtz and ser alteration 0.3-1 cm with outer chl envelopes.	
199.6-202.9	Guichon	-	stng/shatt loc mod & wk RQD 30%	ser, chl, carb	(carb f.f.) (qtz & pyr vnits <3 mm)	-	-	-	(carb) (alb) (chl) r	tr ep ser chl carb	-	-	-	(cpy) (pyr)		Carb in mafics. Cpy 0.5%, pyr ≥ 1%	
202.9-206.3	Guichon	-	mod/stng, loc shatt/bkn RQD 0%	ser, carb, chl	(carb f.f.)	-	-	-	(carb) (alb) (chl) r	ser chl carb	tr ep	-	-	(cpy) (pyr)	2-3	0.5% cpy, < 1% pyr	
206.3-211.7	Guichon wk fault	207.9- 208.1 m	mod/stng, loc mod, shatt/bkn loc ckle bx RQD 8%	ser, carb, chl	(carb f.f.)	-	-	-	(carb) (alb) (chl) r	ser carb chl	-	-	-	(cpy) (pyr)	2-3	One 30 cm interval of ser, chl and cly.	
211.7-220.0	<b>Porphyry (Bethlehem) crowded plag</b>	loc thin	mod, loc stng & shatt, frags at 20-30, 45 and 50° C.A.	ser, chl, carb	(carb f.f.)	-	-	-	(alb) tr ep (carb) tr chl	ser chl carb	-	-	-	0.5-1% pyr	0-1	Upper contact with Guichon fairly sharp, ~80° C.A. Crowded plagioclase porphyry phenocrysts 2-3 mm long and zoned; dotted with mafic clots - looks like Bethlehem but with larger with phenocrysts.	
211.7-213.5	Porphyry (Bethlehem)	loc thin < 1 cm	stng, loc shatt mod, RQD 0%	ser, chl, carb	(carb f.f.) 1 0.5 cm qtz vnlt	-	-	-	(carb) tr chl (alb) (ep)	ser chl carb	-	-	-	tr pyr (pyr) tr cpy	1	Local carb fracture filling, red hem stained. Pyr > 0.5%, cpy <0.2%.	
213.5-217.0	Porphyry (Bethlehem) cont'd	loc slip	mod, loc stng shatt bkn & wk, RQD 45%	ser, (chl) r carb	(carb f.f.) (qtz & pyr vnits <3 mm)	-	-	-	(carb) tr chl (ep)	ser (chl) r carb	-	-	-	tr pyr (pyr) tr cpy	2-3	Carbin mafics. Two 5 cm bands of ep and local ep alteration envelope. Pyr >0.5%, cpy <0.2%	
217.0-220.0	Porphyry (Bethlehem)	-	wk/mod, loc shatt & bkn RQD 45%	chl, ser, carb	(carb f.f. & vnits) (carb + pyr vnits: 1 - 1 mm 1- 1 cm vnlt 1 - 0.5 cm vnlt	-	-	-	(carb) (ep) tr chl (alb)	chl ser carb (ep)	-	-	-	tr pyr (pyr) tr cpy	2-3 loc 3-4	Carb + pyr ± qtz veinlets have chl veinlet margins. Cpy in carb veinlets. Cpy 0.5%, pyr 0.5-1%.	

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
220.0-221.4 ~~~~	Guichon wk fault	221.3- 221.4 m	stng/shatt & bkn, RQD 0%	(cly) (ser) <u>carb</u>	carb f.f.	-	-	<u>ser</u> chl cyl <u>carb</u>	(cly) (ser) <u>carb</u>	-	-	-	(cpy) (pyr)	(pyr)	0	Top contact with porphyry quite sharp. 85° C.A. marked by a 1 cm qtz veinlet containing cpy. 0.5% cpy, < 1% pyr. Bottom contact with porphyry hard to tell because of a fault and alteration intensity.		
221.4-243.9	Porphyry	several intervals	mod/stng, loc shatt & bkn fracts 25-30, 60 & 80° C.A.	chl (ser) (cly) <u>carb</u>	carb f.f. & vnlt (qtz)	-	-	<u>ser</u> <u>chl</u> (cly) <u>carb</u>	chl (ser) (cly) <u>carb</u>	-	-	-	-	-	0-1	Biotite-feldspar Bethlehem porphyry. Overall stronger altered porphyry with intervals of fresher porphyry. Contains intervals of Guichon.		
221.4-224.7 ~~~~	Porphyry fault zone	223.8- 224.7 m	wk/mod, loc fault bx mill & gge RQD 37%	ser, (chl) <u>carb</u>	(carb f.f.) & bx matrix (qtz vnlt 0.5 cm)	-	-	<u>ser</u> cyl chl <u>carb</u>	ser (chl) <u>carb</u>	-	-	(cpy) (pyr)	(pyr)	0	Carb matrix/fracture filling locally vuggy (a hole through one piece of core)			
224.7-228.7 ~~~~	Porphyry fault zone	224.7- 227.1 m	mod, loc stng ckle & dis bx (no comp) mill crush & gge RQD 14%	cyl, ser, chl <u>carb</u>	(carb f.f.)	-	-	<u>ser</u> cyl <u>carb</u> <u>chl</u> (bio)	cyl ser chl <u>carb</u>	-	-	tr cpy tr pyr	(pyr)	0	Alteration decreases to fresh porphyry ~ 227.8 m Pyr >0.5%, cpy 0.2%			
228.7-232.3 ~~~~	Porphyry cont'd fault zone	231.6- 232.3 m	mod, loc stng & shatt, fault bx, crush & mill & gge. RQD 36%	chl, (ser), (cly), <u>carb</u>	(carb f.f.) (qtz vnlt & frags 0.5 cm) (carb + pyr ± qtz vnlt < 2 mm)	-	-	<u>carb</u> (bio) ser chl cyl (phlog)	chl (ser) (cly) <u>carb</u> tr ep	-	-	tr pyr tr cpy	(pyr) tr pyr	0	Alteration picks up again at 230.1 m. Cpy appearing in microfractures. Chl and pyr healed fractures. One 2 mm ep and carb veinlet with hem stain ser alteration envelope 1 cm across. Carb + pyr ± qtz veinlets have ser alteration envelopes to 1 cm with outer chl.			
232.3-235.7 ~~~~	Porphyry fault zone	232.3- 232.2 m	stng, loc shatt & bkn, crush & heal. RQD 0%	chl, ser, (cly), <u>carb</u>	carb f.f. 1 cpy + carb + qtz vnlt 1 cm	loc hem stn ser	loc hem stn cly & ser	<u>carb</u> ser (cly) chl	chl ser (cly) <u>carb</u>	-	-	tr cpy (pyr)	(pyr) (cpy)	0-1 loc 2	Three aplite dykelets, 2, 10 and 20 cm. >1% cpy cpy remobilized in healed crush and shear in carb/ qtz veinlet. 1.5% pyr. Pervasive cpy - fracture cpy; pervasive pyr < fracture pyr.			
235.7-239.2 (236.1-237.8)	Porphyry Guichon	loc slip	mod/stng, loc shatt RQD 16%	ser, chl, <u>carb</u>	carb f.f. & vnlt	(loc hem stn ser)	loc hem stn ser	<u>carb</u> ser chl	ser chl <u>carb</u>	-	-	tr cpy tr pyr	(pyr)	2-3	Guichon (biotite feldspar granodiorite) less altered than porphyry (pervasive carb, (chl) (ser)). Pyr >0.5%, cpy <0.2%			
239.2-243.9	Porphyry	loc slip	mod, loc stng & wk loc bkn RQD 27% loc crush mill & heal	chl, (ser) <u>carb</u>	carb f.f. & irreg vnlt (irreg qtz & carb vnlt 0.5-1 cm) 1 1.5 cm qtz + ep vnlt	(loc hem stn ser)	-	<u>ser</u> <u>chl</u> cyl carb (ep)	(ep) <u>chl</u> (ser) carb	-	-	tr cpy tr pyr	tr pyr		Ep/qtz veinlet contains small blobs of pyr being replaced by cpy with chalc and hem on rims. Pervasive cpy very fine grained. Three pervasive chl alteration aplite porphyry dykelets ~ 2, 10 & 10 cm. Concentration fo pervasive pyr and cpy in Porphyry next to aplite porphyry contact. Pyr >0.2%, cpy ~0.2%			

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
									perv.	fract.		perv	fract	perv	fract		
243.9-277.7	Guichon	2 faults +30 cm & +50 cm	wk/mod fracts 30, 50-60 & 75° C.A.	chl, ser, carb	(carb) (qtz)	-	-	-	(chl)	chl	(chl?)	-	-	<0.5% pyr <0.2% cpy		2-3	Qtz biotite diorite, locally qtz-biotite granodiorite Aplite dykelets 0.5 - > 60cm. Ser, chl, (cly) intervals, but mostly fairly fresh Guichon. Dis- crete pervasive chl. Aplites approximately perp- pendicular to core axis. Locally slip surfaces with calcite-chatter marks sharing right lateral movement. Boundary with porphyry slightly fuzzy ( 1 cm mixed zone). Contact ~ 50° C.A.
243.9-246.9	Guichon cont'd	-	stng/shatt, loc mod & wk & bkn, RQD 22%	chl, (ser) carb	(carb f.f.) (qtz & carb?) vnlt 0.5-1 cm)	(loc hem stn ser)	-	-	carb (bio) ser chl cly	chl (ser) carb	(chl?)	-	-	tr cpy tr mo tr cpy		2	Alternating fresh Guichon with ser, chl, carb, cly Guichon. Cpy 0.2%
246.9-250.4	Guichon fault	247.2- 248.5 m	stng/shatt & bkn, loc crush mill & gge to 248.5 m; wk/ mod RQD 30%	chl, ser, cly carb	1 3 mm qtz vnlt, qtz vnlt frags	-	-	-	(carb) tr ser (chl) tr alb	chl ser cly carb	(chl?)	-	-	tr mo tr cpy tr chalc		2-3	Guichon in fault zone pervasive ser, carb, chl, cly altered. mo and cpy on slip surfaces. Cpy blobs being replaced by chalc in carb veinlet and surrounding fault brecciated rock in fault zone.
250.4-254.1	Guichon	-	mod, loc wk & stng. RQD 39 %	chl, ser, carb	(carb f.f.) 1 1 cm qtz vnlt. 1 0.5 cm qtz & K-sp? vnlt. 1 2mm chl & carb vnlt	(hem stn alb)	-	-	carb (bio)	chl ser carb	(chl) tr ep	-	-	tr cpy (pyr) (cpy)		2-3	Most of biotite probably original but some patches where it looks secondary (core more siliceous) Qtz and K-spar? veinlet contains cpy. Cpy and pyr between trace and weak on fractures. Pyr < 0.2%, cpy ~ 0.2%. 1 cm qtz veinlet contains pyr and is surrounded by a dark red hem stained alteration zone 6 cm across. Outer alteration envelope of (hem) stained alb ~ 3 cm each side.
254.1-257.6	Guichon fault	254.6- 255.4 m	mod/stng, loc mod, shatt/bkn loc mill & gge RQD 29%	ser, chl, carb	(carb f.f.) 1 0.5 cm carb vnlt 1 irreg qtz/ carb vnlt/ dis bx	loc hem stn alb	-	-	carb (phlog) ser cly chl tr bio	ser chl carb	(loc chl)	-	-	(pyr)		2-3	Vuggy qtz/carb "veinlet" looks like it was a qtz veinlet that was dislocation brecciated by an irreg- ular carb veinlet, or was filled in with calcite matrix Many of qtz "fragments" have hexagonal outline. Hem stained alb alteration envelope on fault. Strong alteration to 256.6 m. Pyr < 0.2%
257.6-261.7	Guichon	some slip	mod, loc shatt RQD 41%	ser, chl, carb	(carb f.f.) & 1 irreg vnlt)	-	-	-	(carb ) (chl) (alb) (ep)	ser chl carb (ep)	(chl)	-	-	tr pyr tr cpy	(pyr)	2-3	Three aplite dykelets: 0.5, 1 and 15 cm. Carb in mafic. Ep and pervasive cpy and pyr in a more mafic and albitic interval. Pyr ~ 0.2%, fract- ure pyr = pervasive pyr. Pervasive pyr associated with fractures.
261.7-266.1	Guichon cont'd	-	wk, loc mod loc bkn RQD 69%	chl, ser, carb	1 3 mm carb + chl vnlt	-	-	-	tr carb (chl) tr alb tr ep	chl ser carb (ep)	(chl)	-	-	tr pyr tr cpy tr mo tr pyr		2-3	Fairly fresh Guichon. Three aplite dykelets: 1, 4 and 0.5 cm. Ep in pervasive (alb) intervals. Cpy in microfractures, mo in chl healed fractures. Pyr < 0.2%



ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
								perv.	fract.		perv	fract	perv	fract				
266.1-269.8	Guichon	loc slip	wk/mod, loc shatt & bkn RQD 56%	ser, chlr, carb	(carb f.f.)	(loc hem stn alb)	-	tr carb (chlir) (alb) (ep)	ser chlir carb (ep)	(chlir) tr ep	-	-	tr pyr tr cpy	(pyr) tr cpy	2-3		Blue-green chlir healed fractures. One 18 cm aplite dykelet; actually 3 separated dykelets each becoming more aphanitic losing mafics and thinner in order of emplacement. Ep alteration envelopes on fractures. Pyr 0.2%, cpy <0.2%	
269.8-273.5	Guichon	-	wk, loc mod/ slng, shatt & bkn, RQD 44%	chlir, ser, carb	(carb f.f.)	-	-	(carb) (chlir) (alb) (ep)	chlir ser carb (ep)	(chlir) tr ep	-	-	tr cpy tr pyr	(pyr)	2-3		One 40 cm qtz-K-spar aplite porphyry dykelet, with local graphic texture. Carb in mafics. Perv- asive ep in alteration envelopes and chlir bands. More fracture pyr and ep in porphyry. Pyr 0.2 %	
273.5-277.7	Guichon	-	wk/mod, loc shatt/bkn RQD 59%	(ser) (ep) chlir, carb	(carb f.f.)	-	-	tr carb (ep) tr alb (chlir)	(ser) (ep) chlir carb	(chlir) tr ep	-	-	tr pyr tr cpy	(pyr)			Ep "veinlets" 1-5 mm. Pyr < 0.2%. Pervasive cpy and pyr in an (alb) interval.	
EOH 277.7 m																		

Northing:		DDH 96-9				Azimuth:			
Easting:		Elevation:				Inclination:			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30436	27.1	28.6	0.22	-					Porphyry:
30437	28.6	30.1	0.14	-					fault zone (4.9 m)
30438	30.1	31.6	0.13	-					"
30439	31.6	33.1	0.15	-					"
30440	33.1	34.6	0.21	-	0.1	0.01	5	0.003	fault (1.6 m)
30441	34.6	36.1	0.23	-					"
30442	36.1	37.6	0.41	-					fault (3.6 m)
30443	37.6	39.1	0.29	-					"
30444	39.1	40.6	0.27	-					"
30445	40.6	42.1	0.28	-					"
30446	42.1	43.6	0.34	-					"
30447	43.6	45.1	0.33	-					"
30448	45.1	46.6	0.39	-					"
30449	46.6	48.1	0.41	-					"
30450	48.1	49.6	0.37	-	0.1	0.01	5	0.016	fault (1.6 m)
30451	49.6	51.1	0.84	-					fault (3.3 m)
30452	51.1	52.6	0.32	-					"
30453	52.6	54.1	0.31	-					"
30454	54.1	55.6	0.30	-					"
30455	55.6	57.1	0.30	-					"
30456	57.1	58.6	0.37	-					fault (3.8 m)
30457	58.6	60.1	0.27	-					"
30458	60.1	61.6	0.41	-					"
30459	61.6	63.1	0.42	-					fault (80 cm)
30460	63.1	64.6	0.27	-	0.1	0.01	5	0.010	"
30461	64.6	66.1	0.48	-					fault (2.5 m)
30462	66.1	67.6	0.64	-					"
30463	67.6	69.1	0.68	-					"
30464	69.1	70.6	0.48	-					"
30465	70.6	72.1	0.46	-					"
30466	72.1	73.6	0.41	-					"
30467	73.6	75.1	0.56	-					"
30468	75.1	76.6	0.58	-					"
30469	76.6	78.1	0.47	-					fault (3.3 m)
30470	78.1	79.6	0.54	-	0.2	0.01	10	0.003	"
30471	79.6	81.1	0.82	-					Guichon:
30472	81.1	82.6	0.41	-					fault (3.1 m)
30473	82.6	84.1	0.51	-					Porphyry:
30474	84.1	85.6	0.46	-					"
30475	85.6	87.1	0.67	-					Guichon:
30476	87.1	88.6	0.44	-					"
30477	88.6	90.1	0.59	-					"
30478	90.1	91.6	0.39	-					Guich/Hyb xenolith
30479	91.6	93.1	0.38	-					"
30480	93.1	94.6	0.23	-	0.1	0.01	5	0.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30481	94.6	96.1	0.29	-					Guichon:
30482	96.1	97.6	0.17	-					fault (30 cm)
30483	97.6	99.1	0.23	-					Porphry (plag?)
30484	99.1	100.6	0.19	-					fault (2.7 m)
30485	100.6	102.1	0.23	-					Guichon:
30486	102.1	103.6	0.15	-					"
30487	103.6	105.1	0.24	-					"
30488	105.1	106.6	0.14	-					"
30489	106.6	108.1	0.73	-					"
30490	108.1	109.6	0.17	-	0.1	0.01	5	0.003	"
30491	109.6	111.1	0.21	-					"
30492	111.1	112.6	0.16	-					fault zone (1.4 m)
30493	112.6	114.1	0.16	-					"
30494	114.1	115.6	0.23	-					"
30495	115.6	117.1	0.11	-					"
30496	117.1	118.6	0.13	-					"
30497	118.6	120.1	0.12	-					"
30498	120.1	121.6	0.14	-					"
30499	121.6	123.1	0.19	-					"
30500	123.1	124.6	0.20	-	0.1	0.01	5	0.004	fault (20 cm)
30501	124.6	126.1	0.18	-					Porphry:
30502	126.1	127.6	0.14	-					"
30503	127.6	129.1	0.38	-					"
30504	129.1	130.6	0.36	-					"
30505	130.6	132.1	0.76	-					"
30506	132.1	133.6	0.64	-					"
30507	133.6	135.1	0.20	-					"
30508	135.1	136.6	0.11	-					"
30509	136.6	138.1	0.09	-					Guichon:
30510	138.1	139.6	0.15	-					"
30511	139.6	141.1	0.19	-	0.1	0.01	5	<.001	"
30512	141.1	142.6	0.11	-					"
30513	142.6	144.1	0.10	-					"
30514	144.1	145.6	0.47	-					fault/shear (60 cm)
30515	145.6	147.1	0.15	-					"
30516	147.1	148.6	0.19	-					"
30517	148.6	150.1	0.13	-					"
30518	150.1	151.6	0.11	-					"
30519	151.6	153.1	0.13	-					"
30520	153.1	154.6	0.12	-	0.1	0.01	5	0.004	"
30521	154.6	156.1	0.19	-					wk fault (20 cm)
30522	156.1	157.6	0.10	-					"
30523	157.6	159.1	0.16	-					wk fault (70 cm)
30524	159.1	160.6	0.09	-					"
30525	160.6	162.1	0.94	-					fault/shear (1.6 m)
30526	162.1	163.6	1.19	-					fault (2.1 m)
30527	163.6	165.1	0.51	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30528	165.1	166.6	0.09	-					Guichon:
30529	166.6	168.1	0.08	-					"
30530	168.1	169.6	0.36	-	0.3	0.01	10	0.002	"
30531	169.6	171.1	0.06	-					wk fault (40 cm)
30532	171.1	172.6	0.33	-					"
30533	172.6	174.1	0.08	-					"
30534	174.1	175.6	0.29	-					"
30535	175.6	177.1	0.05	-					fault (90 cm)
30536	177.1	178.6	0.07	-					"
30537	178.6	180.1	0.05	-					"
30538	180.1	181.6	0.08	-					"
30539	181.6	183.1	0.07	-					"
30540	183.1	184.6	0.08	-	0.1	0.01	10	<.001	"
30541	184.6	186.1	0.09	-					Guichon/Hybrid?:
30542	186.1	187.6	0.04	-					"
30543	187.6	189.1	0.07	-					Guichon/Hybrid:
30544	189.1	190.6	0.05	-					"
30545	190.6	192.1	0.06	-					"
30546	192.1	193.6	0.09	-					Guichon:
30547	193.6	195.1	0.10	-					"
30548	195.1	196.6	0.08	-					"
30549	196.6	198.1	0.09	-					"
30550	198.1	199.6	0.11	-	0.1	0.01	5	<.001	"
30551	199.6	201.1	0.08	-					"
30552	201.1	202.6	0.10	-					"
30553	202.6	204.1	0.08	-					"
30554	204.1	205.6	0.07	-					"
30555	205.6	207.1	0.11	-					"
30556	207.1	208.6	0.07	-					wk fault (20 cm)
30557	208.6	210.1	0.11	-					"
30558	210.1	211.6	0.10	-					"
30559	211.6	213.1	0.11	-					Porphyry (Beth)
30560	213.1	214.6	0.11	-	0.1	0.01	5	<.001	crowded plag:
30561	214.6	216.1	0.09	-					"
30562	216.1	217.6	0.07	-					"
30563	217.6	219.1	0.14	-					"
30564	219.1	220.6	0.19	-					"
30565	220.6	222.1	0.10	-					Guichon: wk fault (10 cm)
30566	222.1	223.6	0.06	-					Porphyry:
30567	223.6	225.1	0.06	-					fault zone (90 cm)
30568	225.1	226.6	0.06	-					fault zone (2.5 m)
30569	226.6	228.1	0.04	-					"
30570	228.1	229.6	0.07	-	0.1	0.01	10	0.001	"
30571	229.6	231.1	0.07	-					"
30572	231.1	232.6	0.11	-					fault zone (70 cm)
30573	232.6	234.1	0.36	-					fault zone (1 m)
30574	234.1	235.6	0.14	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30575	235.6	237.1	0.05	-					Guichon (1.7 m)
30576	237.1	238.6	0.10	-					"
30577	238.6	240.1	0.07	-					"
30578	240.1	241.6	0.07	-					"
30579	241.6	243.1	0.09	-					"
30580	243.1	244.6	0.04	-	0.1	0.01	5	0.001	Guichon:
30581	244.6	246.1	0.04	-					"
30582	246.1	247.6	0.04	-					"
30583	247.6	249.1	0.11	-					fault (1.3 m)
30584	249.1	250.6	0.04	-					"
30585	250.6	252.1	0.03	-					"
30586	252.1	253.6	0.04	-					"
30587	253.6	255.1	0.07	-					fault (80 cm)
30588	255.1	256.6	0.04	-					"
30589	256.6	258.1	0.02	-					"
30590	258.1	259.6	0.03	-	0.1	0.01	5	<.001	"
30591	259.6	261.1	0.02	-					"
30592	261.1	262.6	0.03	-					"
30593	262.6	264.1	0.02	-					"
30594	264.1	265.6	0.02	-					"
30595	265.6	267.1	0.02	-					"
30596	267.1	268.6	0.02	-					"
30597	268.6	270.1	0.02	-					"
30598	270.1	271.6	0.02	-	0.1	0.01	10	<.001	"
30599	271.6	273.1	0.02	-					"
30600	273.1	274.6	0.02	-					"
30601	274.6	276.1	0.02	-					"
30602	276.1	277.7	0.03	-	*last composite 7 samples				"

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.													
DDH # 96-10		Date		07-Mar-96		Logged by		F.M		Northing: 5603977.2		Easting: 641592.2		MAG.		FL		REMARKS					
Elevation	1712.1 m	Azimuth	050	Inclination	-45	Length	286.5 m	ROCK TYPE	FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene	primary	MAG.	FL	REMARKS	
interval (m)	GOUGE	INTENSITY	SURFACES																				
0-3.0	overburden & casing																						
3.0-39.5	Guichon oxide	loc thin 2 fault zones	bkn/ckle bx fracts 45-50° C.A.	cly, ser			jar stn gge	jar stn cly & coatings	Fe, cly (cly) (ser) (chlr)	cly ser												Jar and locally chlr fracture filling. Hard to tell amount of ser (& cly) on fractures because of jar Discrete chlr alteration.	
3.0-8.7	Guichon		bkn/ckle bx (loc stng pieces) RQD 0%	cly, ser			loc jar stn alb	jar stn cly & coatings	Fe, cly (cly) (chlr) (ser)	cly ser												Jar fracture filling to 2 mm. One 3 cm qtz/feldspar porphyry dykelet. Jar stained ser and cly/qtz alteration envelopes on jar fracture filling to 1 cm ***Nail test jar: negative. Local drill rounding and foreign volcanics to 4.5 m.	
8.7-12.8	Guichon		bkn & shatt ckle bx (loc stng pieces) RQD 0%	cly, ser	(qtz & jar vnits to 2 mm)		loc jar stn alb	jar stn cly & coatings	Fe, cly (cly) (chlr) (ser)	cly ser												Some intervals look like they were pervasive alb and locally (ep) altered but now partially over-printed by ser and cly. Jar fracture filling to 0.5 cm	
12.8-17.5	Guichon/ Hybrid fault zone	14.8-16.7 m	bkn/shatt ckle bx (loc stng pieces) RQD 0%	cly, ser	(qtz & jar vnits to 1 cm)		(loc jar stn alb)	jar stn cly & coatings	Fe, cly (cly) (chlr) ser	cly ser												Local complete sericitization. One small xenolith only way to tell that it is Guichon Hybrid since core was pervasively albitized. ***Nail test jar: negative	
17.5-21.3	Guichon		bkn/shatt ckle bx (loc stng pieces) RQD 0%	cly, ser, tr chlr	(qtz & pyr & jar vnits <2 mm)		(loc jar stn alb)	jar stn cly & coatings tr grn Cu oxide stn ser	Fe, cly (cly) (chlr) (ser)	cly ser tr chlr							(pyr)	(pyr)	0-1		Qtz and ser alteration envelopes 0.5-1.5 cm ***Nail test jar: a trace reaction where there is trace green Cu oxide stained ser. 0.5-1% pyr. Fracture>pervasive.		
21.3-24.8	Guichon cont'd	loc thin	ckle bx (loc stng pieces)/ bkn, RQD 0%	ser, cly tr chlr	(qtz + pyr + jar vnits to 2 mm)		(jar stn gge)	jar stn cly & coatings	Fe, (cly) (cly) (ser) (chlr)	ser cly tr chlr								tr pyr	(pyr)	0-1	Local complete sericitization. One 2 mm chlr fracture filling/veinlet. 0.5% pyr		
24.8-28.8	Guichon wk fault	26.5-26.6 m	ckle bx (loc mod/stng pieces), loc shatt/bkn RQD (on mod ckle bx) =14%	ser, cly, tr chlr	(qtz + pyr + jar vnits < 2 mm) (chlr + ser + ? vnits 2-5 mm)		jar stn gge	jar stn cly & coatings	Fe, cly (cly) (ser) (chlr)	ser cly tr chlr								(pyr)	(pyr)	0-1	Jar stained ser ± qtz alteration envelopes to 1.5 cm Chlr and ser and veinlets? contain pyr. Fracture>pervasive pyr. >0.5% pyr.		

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
28.8-32.5 ~~~~	Guichon fault	31.1-32.5 m	ckle bx (mod/ stng pieces)  loc shatt & bkn fault bx/gge	ser. cly	(qtz and jar vnits <2 mm)	jar stn gge	jar stn cly & coatings	Fe, cly	ser cly (chlr) (ep)						0-1	some intervals not totally overprinted with cly and ser, still have patches of unaltered ep. Pervasive ser increases towards fault.		
32.5-36.6 ~~~~	Guichon fault zone	32.5-36.6	ckle bx (no comp)/crush mill and gge RQD 0%	ser. cly. (chl)		jar stn gge	jar stn cly	Fe, cly	ser cly (chl)			(pyr)	(pyr)		0	Jar fracture filling. 0.5-1% pyr.		
36.6-39.5 ~~~~	Guichon/ Hybrid fault zone	36.6-39.5 m	bkn, RQD 0%	cly, ser, tr chl			jar stn cly & coatings	Fe, cly	ser cly (chl)			(pyr)	(pyr)		0-1	One small xenolith. Fracture>pervasive pyr. 0.5-1% pyr		
39.5-87.5	Guichon fault zone	loc	bkn/stng ckle bx, fract at 50 & 65° C.A.	ser, tr chl carb	carb, qtz			(cly?)	ser (chl)							Out of oxide zone. Cpy appears immediately Discrete pervasive chl. Qtz-biotite diorite to granodiorite.		
39.5-45.1 ~~~~	Guichon fault zone	39.5-45.1 m	bkn/loc crush ckle bx (no comp) RQD 0%	ser, tr chl (carb)	pyr + qtz vnits < 2 mm				ser (chl)			(pyr) (cpy)	pyr (cpy)		0 loc 2	2% cpy. Pyr>cpy, fracture>pervasive pyr. Fracture>pervasive cpy.		
45.1-48.4 ~~~~	Guichon fault zone cont'd	45.1-45.7	bkn/ckle bx (no comp) RQD 0%	ser, tr chl (carb)	carb f.f. (cpy + qtz vnits <2 mm)				(carb) ser (chl) tr ep			(pyr) (cpy)	cpy (pyr) tr mo		0-1	cpy > pyr (fractures). 1% pyr, 1.5% cpy. Ep probably from previous alteration.		
48.4-52.4 ~~~~	Guichon fault fault	49.3-49.8 m 51.6-51.8 m	ckle bx (loc stng pieces) loc bkn & gge RQD 0%	ser. (chl) tr carb	(carb f.f.) qtz + cpy ± pyr, qtz & mo vnits to 0.5 cm				tr sil (chl) ser			(pyr) (cpy)	tr mo cpy (pyr)		0-1	Chlr healed fractures. 1.5-2% cpy. <1% pyr.		
52.4-56.4 ~~~~	Guichon fault zone	53.1-56.5 m	ckle bx/bkn loc mill/gge mod/stng RQD 4%	ser. (chl) (carb)	(carb f.f. & vnits)				(chl) ser			cpy (pyr)	cpy (pyr)		1-2	> 2% cpy, 0.5% pyr. 52.4-52.7 m >5% cpy.		
56.4-59.6	Guichon	-	bkn, loc shatt & stng & ckle bx RQD 0%	ser. chl (carb)	(carb f.f.) qtz vnits 3-5 mm				(sil) (chl) tr ser tr alb			(cpy)	tr mo (cpy) (pyr)		1-2	Cpy decreasing. 1-1.5%. Pyr ≤ 0.5%. A couple of alb patches.		
59.6-63.6	Guichon	loc thin < 1 cm 20° C.A.	bkn, loc shatt stng & ckle bx RQD 0%	ser. (chl) carb	(carb f.f.) qtz vnits 3 mm-1.5cm				(chl) (ser) tr sil tr alb			cpy (chal)	tr mo (cpy)		0	Set of fractures (breaking core into 1 cm fractures) 40° C.A. Cpy 1.5%, pervasive>fractures		

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
63.6-67.4	Guichon	loc thin < 1 cm	bkn, loc ckle bx (loc stng pieces) RQD 0%	ser. (chlr) carb	(carb f.f.) qtz vnlt 2 mm-1.5cm	-	-	-	ser (chlr)	ser (chlr) carb	-	-	-	cpy (chalc)	(cpy)	0	Pervasive cpy> fracture cpy. >2.5% cpy, 1% chalc. Should get high Cu assay!	
67.4-71.6	Guichon cont'd cont'd fault	68.6-69.1 m	bkn/ckle bx (stng pieces) (stng pieces) RQD 0% loc crush mill & heal	ser. (chlr) carb	(carb f.f.) qtz vnlt qtz vnlt 2 mm-4 cm (4 cm at 75° C.A.)	-	-	-	ser (chlr)	ser (chlr) carb	-	-	-	cpy (chalc)	(cpy)	0	Cpy in core of one qtz veinlet. Cpy > 2%.	
71.6-75.0	Guichon/ Hybrid	loc thin > 1 cm 74.7 m	shatt & bkn/ ckle bx (mod/ stng pieces) RQD 11%	ser, chlr, carb	(carb f.f. & vnlt to 0.5 cm) (qtz vnlt 0.5-1 cm)	-	-	-	(alb) tr carb (ser) (chlr)	ser chlr carb	-	-	-	cpy (pyr) (chalc)	(cpy)	loc 2	Alteration decreasing. Three chlr bands with cly patches. One small xenolith. 1.5-2% cpy.	
75.0-78.5	Guichon/ Hybrid	-	bkn & shatt/ mod, loc stng & ckle bx RQD 25%	ser, chlr, carb	(carb f.f.) qtz vnlt 2 mm-1.5cm	-	-	-	(alb) (carb) (chlr) (ser)	ser chlr carb	-	-	-	(cpy) (chalc)	(cpy) (pyr)	1-2	One 1.5 cm long xenolith. Alteration decreasing. Chalc ≥ cpy. cpy >1.5%, < 0.2% pyr.	
78.5-82.7	Guichon wk fault	82.3-82.5 m	stng/ckle bx loc shatt/bkn mod, loc mill & gge RQD 10%	ser, chlr, carb	(carb f.f. & 2 irreg vnlt) qtz vnlt 2 mm-1 cm	-	-	-	(alb) (carb) (chlr) (ser) tr phlog	ser chlr carb	-	-	-	(cpy) (chalc)	(cpy)	1-2	Carb in mafics. Cpy and chalc in local qtz veinlets. Cpy > 1%. Pervasive>fracture cpy.	
82.7-87.5 (84.6-85.1)	Guichon/ Hybrid xenolith	-	mod/stng, loc shatt/bkn, mod ckle bx RQD 13%	ser, chlr, carb	(carb f.f.) qtz vnlt 3 mm-1.5 cm (1.5 cm at 30° C.A.)	-	-	-	(alb) (chlr) (carb) (ser) tr phlog	ser chlr carb	-	-	-	(cpy) (chalc)	trmo (cpy) (chalc)	1-2	Cpy ≤ 1%. mo in fractures. Most of pervasive cpy and chalc associated with veinlets and fractures.	
87.5-146.5	Porphyry crowded plag D3	-	stng, loc shatt bx, fract at sub-parallel, 40-50 & 70° C.A.	ser, carb	qtz vnlt vnlt	-	-	-	(ser)	ser	-	-	-	tr chalc >0.5% pyr			Grey hornblende-plagioclase crowded porphyry with intervals of pervasive ser and chlr. Cpy (& pyr) in mafic clots. Pervasive cpy > fracture cpy. Most of porphyry looks "ckled" to some extent, probably fairly brittle rock.	
87.5-90.0	Porphyry D3	-	bkn/ckle bx (loc stng pieces) RQD 0%	ser, tr chlr carb	(carb f.f.) (qtz vnlt 2 mm-1 cm)	-	-	-	tr chlr	ser tr chlr carb	-	-	-	(cpy) tr chalc	(cpy) (pyr)	1-2	Fracture cpy>fracture pyr. <0.2% pyr. >0.5% cpy. Fracture cpy<pervasive cpy.	
90.0-93.4	Porphyry D3	-	stng/ckle bx loc shatt/bkn loc mod RQD 5%	ser, tr chlr carb	carb f.f. qtz vnlt 3-8 mm	-	-	-	tr chlr tr carb (alb) tr ser	ser tr chlr carb	tr ep	-	-	(cpy) tr pyr tr chalc	(cpy) (pyr)	1-2	One 50 cm section of pervasive ser alteration. Fracture cpy> fracture pyr. Most fo pervasive cpy associated with fractures.	



ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
93.4-97.3	Porphyry D3		mod loc stng & ckle bx RQD 27%	ser, carb	(carb f.f.) (qtz vnits 5-8 mm)	-	-	-	(ser) (carb) tr chl (alb)	ser carb	-	-	(cpy) (pyr)	(cpy)	1-2	ser interval 96.0-97.3 m. <1% cpy, pervasive> fracture cpy.		
97.3-101.1	Porphyry D3	loc thin < 1 cm, subparallel to C.A.	stng, loc shatt/ bkn, well healed, dis bx carb matrix. RQD 0%	ser, carb	carb f.f. & bx matrix, (qtz vnits 1-5 mm)	-	-	-	carb ser chl	ser carb	-	-	(cpy) tr chalc (pyr)	(cpy) (pyr) tr mo	0-1	Alteration starts to decrease at 100.2 m (after dislocation breccia). Dislocation breccia well carb healed, angular fragments of altered porphyry. Carb matrix locally vuggy. < 0.5%, 1% cpy. Trace mo in thin qtz veinlet with cpy and chalc.		
101.1-104.9	Porphyry D3		mod/stng, loc shatt/bkn ckle bx RQD 16%	ser, carb	carb f.f. qtz vnits 0.5-1 cm	-	-	-	tr carb (chl)	ser carb	-	-	cpy (chalc)	(cpy) (chalc)	1-2	1.5% cpy. Chalc has peacock tarnish. One vuggy qtz veinlet.		
104.9-109.1	Porphyry D3 cont'd		stng/ckle bx loc bkn RQD 0%	ser, carb	(carb f.f.) qtz vnits 2 mm-2.5 cm (2.5 cm at 30° C.A.)	-	-	-	tr carb (chl)	ser carb	-	-	(cpy) (chalc)	(cpy)	1-2	1% cpy.		
109.1-112.7	Porphyry D3		stng, loc shatt & bkn RQD 0%	ser, carb	(carb f.f.) qtz vnits 1-8 mm	(loc hem stn alb)	-	-	(carb) (chl)	ser carb	-	-	(cpy) (chalc)	(cpy) (pyr) tr mo	1-2	Local crosscutting qtz veinlets slightly offset. Pervasive chalc decreasing (trace to weak). One 40 cm interval of pervasive ser alteration Very faint hem stained alb alteration envelopes.		
112.7-116.0	Porphyry D3		stng/shatt & bkn	ser, carb	(carb f.f. & vnits to 2 cm) qtz vnits 2mm-1.5 cm	(loc hem stn alb)	-	-	carb ser (chl)	ser carb	-	-	(cpy) (chalc) tr pyr	tr cpy tr chalc tr mo	1-2	Local hem stained alteration envelopes on fract- ures and a qtz veinlets, 1 cm across. Cpy and chalc in one qtz veinlet. Fracture cpy and chalc trace to weak; mo in 2 mm qtz veinlet.		
116.0-119.8	Porphyry D3	loc thin	shatt/bkn loc mod, stng loc crush & healed RQD 18%	ser, carb (chl)	(carb f.f. & irreg vnits) qtz vnits 2 mm-1.5cm	(loc hem stn ser)	-	-	carb ser chl	ser (chl) carb	-	-	(cpy) (chalc)	tr mo tr cpy tr chalc	1	Local qtz veinlet (with green thin selvage? of porphyry incore). Crosscut and off set by another qtz veinlet.		
119.8-123.6	Porphyry	loc thin (>1 cm)	stng, loc shatt & bkn, crush & heal, mod RQD 15%	ser, carb (cly)	(carb f.f. & irreg vnits) (qtz vnits 0.5-1.5 cm [1.5 cm at 40° C.A.]	(loc hem stn ser)	-	-	carb ser chl	ser carb (cly)	-	-	(cpy) tr chalc	tr mo tr cpy tr chalc	0-1	Trace of mo in fractures. ≥ 1.5% cpy.		

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.		perv	fract	perv	fract			
123.6-127.5 ~~~~	Porphyry fault	123.6- 123.9 m	stng, loc shatt & bkn, ckle bx loc gge, RQD 0%	ser, carb	carb f.f. & vnlt to 1cm (qtz vnlt 3 mm-1 cm)	-	-	carb ser (chlr) (alb)	ser carb	-	-	-	(cpy) (chalc) tr pyr	(cpy) tr chalc	0-1	Alteration decreasing. One qtz veinlet offset 1 cm by crosscutting carb veinlet. ≤ 1% cpy.	
127.5-131.5	Porphyry cont'd	loc thin < 1 cm	sing/mod, loc shatt/bkn RQD 24%	ser, carb	(carb f.f. & irreg vnlt) qtz vnlt 3-5 mm	tr hem stn alb	-	carb ser tr chlr tr cly	ser carb	-	-	-	(cpy) tr chalc tr chalc	tr mo (cpy) tr chalc	0-1	Three apilite dykelets 2, 2 and 5 mm. Intervals of pervasive ser, locally discrete ser alteration. Trace mo in qtz veinlets and fracture surfaces. Trace hem stained alb alteration envelopes.	
131.5-134.9	Porphyry	loc thin < 1 cm 40° C.A.	sing, loc shatt & bkn, mod RQD 5%	ser, carb	carb f.f. & vnlt to 1cm qtz vnlt 3 mm-1.5cm	loc tr hem stn alb/ser	-	carb ser (chlr)	ser carb	-	-	-	(cpy) (chalc) (chalc)	tr mo (cpy) (chalc)	1	Local discrete pervasive ser. Cpy > chalc. Peacock tarnish on chalc. 1% cpy.	
134.9-138.3	Porphyry	-	shatt/bkn loc stng RQD 0%	ser, carb	(carb f.f. & vnlt to 0.5 cm) (qtz vnlt 3mm-1 cm)	loc tr hem stn alb/ser	-	carb ser tr alb tr chlr	ser carb	-	-	-	(cpy) tr pyr	tr mo tr pyr (cpy) tr chalc	0-1	Discrete ser alteration. Cpy 0.5-1%, pyr <0.2% One vuggy carb veinlet, mo in fractures.	
138.3-141.3	Porphyry	loc thin < 1 cm	bkn/shatt loc shtn RQD 0%	ser, carb	(carb f.f. & vnlt to 3 mm) (qtz vnlt 1-5 mm)	-	-	ser carb chlr	ser carb	-	-	-	(cpy) tr pyr	tr mo (cpy)	0-1	0.5% cpy. Fracture cpy = pervasive cpy. Local spots of hem staining.	
141.3-146.5 ~~~~ ~~~~ ~~~~	Porphyry fault wk fault	141.4- 141.6 m 142.3- 143.9 m	bkn, loc shatt & stng, crush mill, gge & fault bx. RQD 0%	(cly), (chlr) ser, carb	carb f.f. & (irreg vnlt) (qtz vnlt 3 mm - 1 cm)	-	-	ser carb chlr	(cly) (chlr) ser carb	-	-	-	(cpy) tr chalc	(cpy) tr chalc	0-1	< 0.5% cpy. Qtz veinlet offset 1 cm by carb fracture filling/veinlets.	
146.5-249.6	Guichon /Guichon/ Hybrid	loc, a few wk faults & fault zones	stng, loc shatt & bkn RQD 0% fracts: 40, 55 & 65° C.A. & subparallel	ser, (cly)	carb, qtz	-	-	(bio) ser (chlr)	ser (cly)	-	-	-	tr mo	tr mo		Qtz-biotite-diorite. Overall strongly altered Guichon.	
146.5-148.1	Guichon/ Hybrid	-	stng, loc shatt & bkn RQD 0%	ser, carb	(carb f.f. & irreg vnlt) (qtz vnlt 2 mm-1 cm)	(loc hem stn ser)	-	carb ser (chlr) tr bio	ser carb	-	-	-	(cpy)	(cpy) tr mo	1-2	One small xenolith. Cpy in qtz veinlet. Fracture cpy = pervasive cpy.	
148.1-151.7 ~~~~	Guichon wk fault	1551.4- 151.7 m	stng, loc shatt stng, loc shatt & bkn, loc crush mill & gge, RQD 0%	ser, carb	(carb f.f.) (qtz vnlt to 0.5 cm)	(loc hem stn ser)	-	carb tr bio ser (chlr) (phlog)	ser carb	-	-	-	(cpy) tr chalc	tr mo (cpy) tr chalc	1-2	Molybdenite on fractures and in qtz veinlet core	

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
									perv.	fract.		perv	fract	perv	fract		
151.7-155.2	Guichon/ Hybrid		stng, loc bkn & shatt, loc	(cly), ser tr chl, carb	(carb f.f. & vnlt)	(loc hem stn ser)			carb	(cly)				(cpy)	tr mo	1-2	One 30 cm xenolith. Hem stained "spots" - especially in more bleached intervals. Trace mo in qtz veinlet core. <0.2% pyr, 0.5-1% cpy. Fracture cpy ≈ pervasive cpy.
~~~~	fault	151.7-152.0 m	crush, mill & gge. RQD 0%		qtz vnlt 0.2-1.5 cm				ser	ser				tr pyr	(cpy)		
155.2-159.2	Guichon	loc thin < 1 cm	bkn/shatt loc stng RQD 0%	ser, chl, carb	(carb f.f.) (qtz vnlt 3 mm-1cm) (2 1 cm vnlt 70° C.A.)	(loc hem stn ser)			(bio)	ser				(cpy)	tr mo	2	Molybdenite on margins of qtz veinlets. Pervasive cpy ≥ fracture cpy. One dark green 3 cm chl "band".
159.2-162.7	Guichon cont'd		shatt/bkn loc stng, mod	(cly) ser, chl, carb	(carb f.f. & vnlt to 0.5 cm)				carb	(cly)				(cpy)	(cpy)	0-1	One 10 cm aplite dykelet. Local crystalline calcite on fractures.
~~~~	wk fault	160.7-161.6 m (subparallel) loc thin ~ 1 cm, 55° C.A.	crush & heal gge, RQD 6%		(qtz vnlt 3mm-1 cm)				(bio)	ser				tr chalc	tr pyr		
162.7-166.1	Guichon/ Hybrid		bkn/shatt loc stng, crush, mill & gge, RQD 0%	ser, chl, carb (cly)	(carb f.f.) (qtz vnlt 3 mm-1 cm)				carb	ser				(cpy)	tr mo	0-1	One xenolith? -- hard to tell because of alteration 165.0-165.5 m. 1% cpy.
~~~~	fault zone	162.8-164.6 m							ser	chl				tr pyr	(cpy)		
~~~~	wk fault	166.0-166.1 m							chl	carb							
166.1-169.4	Guichon/ Hybrid		stng, loc bkn & shatt, loc crush & gge RQD 0%	(cly), ser, carb, chl	(carb f.f. & irreg vnlt) (qtz vnlt to 0.5 cm)				carb	(cly)				(cpy)	(cpy)	0-1	Most of pervasive cpy associated with fractures. Pyr ≥ 0.2%, cpy 0.5-1%. Fracture cpy ≥ pervasive cpy. Xenolith? - 166.6-170.0 m
~~~~	wk fault	166.1-166.4 m							ser	ser				tr pyr			
~~~~	wk fault								chl	chl							
~~~~	wk fault								(cly)	carb							
169.4-173.0	Guichon/ Hybrid		stng, loc bkn loc crush, mill & gge RQD 0%	cly, ser, carb chl	(carb f.f. & vnlt to 0.5 cm) (qtz vnlt 3mm-2.5 cm [2.5cm at 10° C.A.])				ser	cly				(cpy)	(cpy)	0-1	Fracture cpy > pervasive cpy. Cpy in one qtz veinlet, mo in qtz veinlet.
~~~~	fault zone	169.9-173.0 m							chl	ser				tr mo			
~~~~	fault zone								carb	chl							
~~~~	fault zone								(cly)	carb							
~~~~	fault zone								tr bio								
173.0-176.8	Guichon		bkn, loc mod/ stng, crush/ mill & gge RQD 0%	(cly) (chl) ser, carb	carb f.f. (qtz vnlt 0.5-1 cm)	loc hem stn chl			carb	(cly)				(cpy)	tr mo	1-2	Dark red, hem stained chl patch. <0.2% pyr, 0.5% cpy. Faint chl healed fractures.
~~~~	fault zone	173.0-175.2 m							ser	ser				tr pyr	(cpy)		
~~~~	fault zone								(chl)	(chl)				tr pyr			
~~~~	fault zone								tr bio	carb							
~~~~	fault zone								(phlog)								

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
									perv.	fract.		perv	fract	perv	fract		
176.8-180.0	Guichon cont'd		bkn, loc stng gge, RQD 0%	(cly) ser, carb (chlr)	(carb f.f. & irreg vnits)	-	-	-	carb	(cly)	-	-	-	(cpy)	(cpy)	1-2	Molybdenite in core of qtz veinlet. 178.6-178.8 m core pervasively (alb) altered. One small xenolith (1.5 cm). Fracture cpy > pervasive cpy. Most of pervasive cpy associated with fractures.
~~~~	wk fault	179.5-179.7 m			(qtz vnits 3mm-1.5 cm [1.5 cm at 45° C.A.])				ser	ser					tr mo		
									(chlr)	(chlr)							
									tr alb	carb							
									(cly)								
180.0-182.6	Porphyry		bkn, loc shatt	ser, carb	(carb f.f.)	-	-	-	(carb)	ser	-	-	-	tr cpy	tr mo	1-2	Feldspar porphyry, aphanitic matrix; mo in qtz veinlet and on slip surface. Cpy in qtz veinlet. Local 2 cm offset of qtz veinlet by fracture (fault) Pervasive cpy very fine grained.
~~~~	fault zone	180.8-182.6 m	crush and gge RQD 0%	(cly) (chlr)	(qtz vnits 0.5-1cm)				ser	(cly)				(cpy)			
									chlr	(chlr)				tr pyr			
									carb								
182.6-186.9	Guichon		bkn/stng, loc	ser, chlr, carb	(carb f.f. & vnits to 3 mm)	-	-	-	(carb)	ser	-	-	-	tr cpy	(cpy)	1-2	Alteration decreasing. Much more siliceous looking Guichon - qtz-biotite granodiorite? Discrete chlr alteration. Weakly developed ser + qtz alteration envelopes. Mo and margins of qtz veinlets. Pyr <0.2%, cpy >0.5%. Locally vuggy qtz veinlet.
~~~~	fault	182.6-183.6 m	mod & gge RQD 9%		(qtz vnits to 0.5 cm)				(ser)	chlr				(pyr)			
									(chlr)	carb				tr mo			
									tr ep								
									tr bio								
~~~~	fault	187.5-188.7 m	loc bkn	carb					(carb)	chlr				(cpy)	(pyr)		
~~~~	fault	191.0-191.1 m							(chlr)	(cly)							
									ser	carb							
191.1-194.4	Guichon		bkn, loc stng	cly, ser, carb	(carb f.f.)	-	-	-	ser	cly	-	-	-	(pyr)	tr mo		Qtz veinlet has cpy and mo. Cpy ≥ pyr. Ser ± chlr ± qtz alteration envelopes to 0.5 cm.
~~~~	fault zone	191.1-194.4 m	crush mill and gge	(chlr)	1 0.5 cm qtz vnlt				(chlr)	ser				(cpy)	(cpy)		
									(carb)	(chlr)				(pyr)			
										carb							
194.4-198.5	Guichon		bkn, loc crush	ser, (chlr)	(carb f.f.)	loc hem	-	-	(carb)	ser	-	-	-	(pyr)	tr mo	1	Hem stained ser patches have shar boundaries. Pervasive pyr > pervasive cpy. Trace mo on margins of qtz veinlet and cpy in core. 0.5-1% pyr, 0.5-1% cpy. Fracture cpy > pervasive cpy.
~~~~	fault	194.4-196.2 m	mill & gge, fault bx to 196.2 m. mod/ stng, loc shatt	(cly) carb	(qtz vnits 3-5 mm)	stn ser			ser	(chlr)				tr cpy	(cpy)		
									(chlr)	(cly)				(pyr)			
									(cly)	carb							
198.5-201.9	Guichon		stng/shatt, loc	ser, chlr, carb	(carb f.f. & vnits)	-	-	-	ser	ser	-	-	-	(pyr)	(pyr)	1	Most of cpy (and pyr) in fractures or associated with fractures.
~~~~	fault	199.2-199.3	bkn, loc crush	(cly)					(chlr)	chlr				(cpy)	(cpy)		
~~~~	fault	199.7-200.2	mill & gge.						(carb)	(cly)							
~~~~	fault	201.4-201.5 m	RQD 0%						tr bio	carb							
201.9-205.3	Guichon		bkn/shatt loc	ser, chlr, carb	(carb f.f.)	-	-	-	(ser)	ser	-	-	-	(pyr)	(cpy)	1-2	Alteration decreasing. Aplitic dykelet fragments (<1 cm). Guichon more siliceous looking - alteration effect, or more granodioritic in composition. slip surfaces contain comminuted sulphides. Pyr > cpy, >0.5% cpy, 1.5% pyr; mo and pyr in qtz veinlet.
~~~~	fault zone	204.5-205.3 m	stng, fault bx RQD 0%		(qtz vnits to 0.5 cm)				(chlr)	chlr				(cpy)	tr mo		
									carb	carb				pyr			
									tr bio								
									(phlog)								

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
205.3-209.1	Guichon wk fault	207.7- 207.9 m	stng/bkn, loc gge, RQD 0%	(chlrl, ser, carb	(carb f.f.) (qtz and pyr vnltls < 5mm)	-	-	-	carb chlrl ser tr cly	(chlrl) ser carb	-	-	-	pyr tr cpy pyr tr cpy	tr mo pyr tr cpy	1-2	Trace mo on slip surface. Cpy 0.2-0.5% (cpy really starting to drop off). Pyr > cpy, fracture pyr >> pervasive pyr. Qtz and ser alteration envelopes to 1 cm across.	
209.1-214.0	Guichon fault	213.3- 214.0 m	stng/bkn, loc gge RQD 0%	chlrl, ser, carb	(carb f.f.) (qtz & pyr vnltls to 2 mm)	-	-	-	carb chlrl ser carb	chlrl ser carb	-	-	-	(pyr) tr cpy	Pyr	1-2	Local drill rounding. >1.5% pyr, fracture pyr > pervasive pyr. Qtz and ser alteration envelopes to 1 cm.	
214.0-218.7	Guichon cont'd fault	214.3- 214.7 m	stng/bkn loc mod, loc gge RQD 3%	chlrl, (ser) carb	(carb f.f.) (qtz & pyr vnltls <3mm)	(loc hem stn alb)	loc hem stn chlrl	-	chlrl carb (ser)	chlrl (ser) carb	-	-	-	(pyr) tr cpy	pyr	1	CAVE at 214.0 m. Qtz and ser alteration envelopes to 1 cm. One 10 cm porphyry dykelet (218.2 m). <1.5% pyr, 0.2% cpy. One hem stained chlrl and chlrl and carb. 0.5 cm "veinlet" with apple green ser in local (hem) stained alb interval.	
218.7-223.5 (219.5-219.9)	Guichon wk fault Porphyry dykelet	222.9- 223.2 m	mod/stng loc bkn RQD 5%	chlrl, ser, carb	(carb f.f. & irreg vnltls to 1 cm) (qtz + pyr ± chlrl vnltls < 3 mm)	(loc hem stn ser)	loc hem stn chlrl	-	tr bio chlrl carb (ser)	chlrl ser carb	-	-	-	(cpy) (pyr)	(cpy) pyr	1-2	Carb veinlets vuggy. Remobilized cpy in blebs in carb veinlets/shear? ~20° C.A. ~219.6 m 1.5% pyr, 0.5-1% cpy. Fracture pyr >> pervasive cpy.	
223.5-228.2	Guichon fault zone	224.1- 228.2 m	stng/bkn, loc crush & gge RQD 0%	cly, chlrl, ser carb	(carb f.f.) (qtz & pyr < 3 mm)	-	-	-	carb chlrl ser (cly)	cly chlrl ser carb	-	-	-	(cpy) (pyr) (pyr) (cpy)	(pyr) (cpy)	1-2	Alteration increasing. One 1 cm green aplite dykelet. Cpy blebs in thin irregular carb veinlet and chlrl healed fractures 30° C.A. Fracture pyr >> pervasive pyr. 0.5-1% cpy, <1.5% pyr.	
228.2-233.1	Guichon	loc thin at 35° C.A.	stng, loc bkn & mod RQD 8%	chlrl, ser, (cly)	(carb f.f.) (qtz and pyr < 3 mm)	-	-	-	carb chlrl ser (cly)	chlrl ser (cly)	-	-	-	(pyr) (cpy)	(pyr) (cpy)	1-2	Fracture pyr > pervasive pyr > fracture cpy > pervasive cpy. Qtz and ser alteration envelopes to 0.5 cm.	
233.1-237.4	Guichon fault zone	236.1- 237.4 m	shatt & bkn loc stng, crush, mill & gge, RQD 0% gge RQD 0%	(chlrl), ser (cly) carb	(carb f.f.) (qtz & pyr vnltls < 3 mm) < 3 mm)	-	-	-	carb chlrl ser (cly)	(chlrl) ser (cly)	-	-	-	pyr tr cpy	pyr	2	Pyr in mafics. 1.5% pyr. Comminuted sulphides on slip surfaces. Local shear 236.9-237.1 m.	
237.4-242.7	Guichon fault zone fault	237.4-232.3 239.6- 242.2 m	crush, mill & gge/stng loc bkn RQD 0%	cly, (chlrl) ser carb	carb shear zone matrix (qtz & pyr < 2 mm)	-	-	-	(cly) carb chlrl ser (cly)	carb cly (chlrl) ser carb	-	-	-	tr cpy (pyr)	pyr tr cpy		239.6-240.2 gouge and milled clasts. 240.2-240.7 m rock has been crushed milled and sheared and "healed" with carb "fracturing" in this interval is parallel to core axis, with half of core being pure gouge; also see slip surfaces in shear, parallel and perpendicular to core axis. One interval shows S & C fabric 3 cm thick. Most of pyr in fractures or associated with fractures. Comminuted sulphides on local slip surfaces. Qtz and ser alteration envelopes to 0.5 cm. Cpy < 0.2% pyr 1%	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
242.7-249.2	Guichon fault	244.4-244.7 246.3-246.9 top 55° C.A bottom 20° C.A.	mod/stng loc shatt & bkn to crush/mill & gge. RQD 30%	ser, cly, (chlr) carb	(carb f.f. & vnits to 1 cm) (qtz & pyr vnits < 2mm)	-	-	-	carb chlr ser cly tr bio	ser cly (chlr) carb	-	-	-	tr cpy (pyr)		Fracture pyr>>pervasive pyr. Most of pervasive pyr (and cpy) associated with fractures. < 0.2% cpy, < 1% pyr.		
249.2-286.5	Porphyry	loc thin	mod, loc stng fracts at: 80, 40 & 20° C.A.	(ser) (chlr) carb	qtz and pyr	-	-	-	ser (ser) (chlr) carb		-	-	-			Plagioclase porphyry. Contact with Guichon hard to find because of alteration intensity approximately over 1-2 cm, ~ 30° C.A. Phenocrysts averaging 1-3 mm long, often stand-out because they have been discreetly ser and chlr altered and are now green. Some are hem stained red. Local aplite dykelets. Bleached qtz ± ser alteration envelopes.		
249.2-253.4	Porphyry	-	wk/mod, loc stng, RQD 50%	(ser), carb	(carb f.f.) qtz and pyr vnits to 2 mm	-	-	-	ser carb chlr	(ser) carb	-	-	-	tr pyr (pyr)	0	Qtz ± ser alteration envelopes 0.5-1 cm. One 2.5 cm aplite dykelet: bleached and overprinted by ser alteration and qtz ± ser alteration envelopes. Cross cut by qtz and pyr veinlet. Trace pyr in alteration envelopes. 1% pyr.		
253.4-258.5	Porphyry cont'd	loc thin < 1 cm subparallel	mod, loc stng wk & bkn RQD 27%	ser, carb	(carb vnits 1 cm & sub- parallel) qtz & pyr to 2 mm	-	-	-	ser (chlr) carb tr cly	ser carb	-	-	-	(pyr) tr cpy (pyr)	0	One crystalline pale pink calcite veinlet, locally vuggy. Cpy 0.2%, pyr >1%. Fracture pyr> pervasive pyr.		
258.5-263.8	Porphyry	-	mod, loc stng & bkn RQD 32% conj set at 30 & 60° C.A.	ser, carb	(carb f.f.) (qtz & pyr vnits <2mm)	hem stn alb	-	-	carb ser (chlr) (cly)	ser carb	-	-	-	(pyr) tr cpy (pyr)	0-1	Pervasive pyr: fine grained. Fracture pyr > pervasive pyr. 1% pyr, <0.2% cpy. Qtz ± ser alteration envelopes 3 mm-1 cm, "outer" weakly hem stained alb alteration envelopes.		
263.8-269.1	Porphyry	-	mod, loc stng & bkn RQD 26%	ser, carb	(carb f.f.) (qtz & pyr vnits < 2mm 1 0.5 cm qtz vnlt)	-	-	-	carb ser chlr	ser carb	-	-	-	(pyr) tr cpy tr chalc (pyr)	0-1	Aplite dykelets 3 mm-70 cm sharp to fuzzy contacts, some porphyritic (green sericitized phenocrysts). Local pink set marked by dark green chlr fracture filling to 3 mm. One small bleb of chalc with cpy seen. Fracture cpy >> pervasive pyr. Qtz ± ser alteration envelopes to 0.5 cm		
269.1-274.0	Porphyry	loc thin 2 cm at 270.6 m at 40° C.A. 272.4 m at 65° C.A.	stng, loc mod wk, bkn, loc gge RQD 19%	ser, carb	(irreg carb & qtz vnits 0.5-1.5 cm) (qtz & pyr < 1 mm)	(hem stn alb)	-	-	carb ser (cly) chlr	ser carb	-	-	-	(pyr) (cpy) (pyr)	0-1	Carb/qtz veinlets are vuggy, qtz is microcrystalline. These veinlets contain remobilized blebs of cpy and (chalc) both in qtz and carb. Local comminuted sulphides in gge. Cpy 0.5%, pyr 1%. Faint hem stained alb alteration envelopes.		

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
274.0-279.4	Porphyry	loc thin <1 cm 30° C.A.	mod, loc stng & bkn RQD 26%	ser, tr chl carb	(carb vnits 3 mm-1 cm) (qtz ± pyr vnits < 2mm)	(hem stn alb)	-	-	carb	ser	-	-	-	(pyr)	(pyr)	0-1		One bleached 4 cm aplite dykelet. Fracture pyr-> pervasive pyr. cpy < 0.2%, pyr 0.5-1% Carb veinlets locally vuggy.
279.4-284.3	Porphyry cont'd	loc thin < 1 cm 80° C.A.	mod, loc stng wk & bkn RQD 28%	ser, tr chl carb	(carb f.f.)	tr hem stn alb	-	-	carb	ser	-	-	-	tr cpy	(pyr)			Fault gouge contains comminuted sulphides. One pink 2 cm aplite dykelet, 1 green (chl) 10 cm aplite dykelet (hard to recognize because of alter- ation) Also local faint aplitic looking patches. One 20 cm unaltered porphyry Fp-1 (279.6- 279.8 m)
284.3-286.5	Porphyry Fp-1	-	mod/stng, loc shatt & bkn	ser, carb	-	-	-	-	carb	ser	-	-	-	tr pyr	(pyr)	1-2		Alteration decreasing. 0.5% pyr.
EOH 286.5 m																		

Northing:		DDH 96-10				Azimuth: 050			
Easting:		Elevation:				Inclination: -45			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30603	4.5	6.0	0.08	0.02	-	-	-	-	Guichon Oxide:
30604	6.0	7.5	0.06	0.02	-	-	-	-	"
30605	7.5	9.0	0.09	0.02	-	-	-	-	"
30606	9.0	10.5	0.10	0.02	-	-	-	-	"
30607	10.5	12.0	0.07	0.02	-	-	-	-	"
30608	12.0	13.5	0.15	0.03	-	-	-	-	Guichon/Hybrid:
30609	13.5	15.0	0.12	0.02	-	-	-	-	fault zone (1.9 m)
30610	15.0	16.5	0.05	0.01	-	-	-	-	"
30611	16.5	18.0	0.08	0.02	-	-	-	-	Guichon:
30612	18.0	19.5	0.10	0.03	-	-	-	-	"
30613	19.5	21.0	0.08	0.02	-	-	-	-	"
30614	21.0	22.5	0.12	0.02	-	-	-	-	"
30615	22.5	24.0	0.10	0.02	-	-	-	-	"
30616	24.0	25.5	0.13	0.02	-	-	-	-	"
30617	25.5	27.0	0.12	0.01	-	-	-	-	wk fault (1.1 m)
30618	27.0	28.5	0.13	0.02	-	-	-	-	"
30619	28.5	30.0	0.07	0.01	-	-	-	-	"
30620	30.0	31.5	0.11	0.01	-	-	-	-	fault (1.4 m)
30621	31.5	33.0	0.17	0.02	-	-	-	-	fault (4.1 m)
30622	33.0	34.5	0.22	0.06	-	-	-	-	"
30623	34.5	36.0	0.35	0.06	-	-	-	-	"
30624	36.0	37.5	0.52	0.06	-	-	-	-	Guichon/Hybrid:
30625	37.5	39.0	0.54	0.16	-	-	-	-	fault zone (2.9 m)
30626	39.0	40.5	0.69	0.03	-	-	-	-	Guichon:
30627	40.5	42.0	0.38	-					fault zone (5.6 m)
30628	42.0	43.5	0.56	-					"
30629	43.5	45.0	0.53	-					"
30630	45.0	46.5	0.54	-					fault zone (60 cm)
30631	46.5	48.0	0.70	-	0.1	0.01	5	0.010	"
30632	48.0	49.5	0.92	-					fault (50 cm)
30633	49.5	51.0	0.84	-					fault (20 cm)
30634	51.0	52.5	1.24	-					"
30635	52.5	54.0	1.07	-					fault zone (3.4 m)
30636	54.0	55.5	0.83	-					"
30637	55.5	57.0	0.81	-					"
30638	57.0	58.5	0.78	-					"
30639	58.5	60.0	0.46	-					"
30640	60.0	61.5	0.96	-					"
30641	61.5	63.0	1.11	-	0.1	0.01	5	0.015	"
30642	63.0	64.5	0.99	-					"
30643	64.5	66.0	1.27	-					"
30644	66.0	67.5	1.06	-					"
30645	67.5	69.0	1.15	-					fault (50 cm)
30646	69.0	70.5	0.77	-					"
30647	70.5	72.0	0.53	-					Guichon/Hybrid:



Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30648	72.0	73.5	0.80	-					Guichon/Hybrid:
30649	73.5	75.0	0.55	-					"
30650	75.0	76.5	0.44	-					"
30651	76.5	78.0	0.31	-	0.1	0.01	5	0.003	"
30652	78.0	79.5	0.42	-					Guichon:
30653	79.5	81.0	0.49	-					"
30654	81.0	82.5	0.56	-					"
30655	82.5	84.0	0.36	-					wk fault (20 cm)
30656	84.0	85.5	0.38	-					Guichon/Hybrid:
30657	85.5	87.0	0.58	-					xenolith
30658	87.0	88.5	0.42	-					Porphyry D3:
30659	88.5	90.0	0.24	-					"
30660	90.0	91.5	0.25	-					"
30661	91.5	93.0	0.38	-	0.1	0.01	5	0.003	"
30662	93.0	94.5	0.34	-					"
30663	94.5	96.0	0.28	-					"
30664	96.0	97.5	0.54	-					"
30665	97.5	99.0	0.23	-					"
30666	99.0	100.5	0.36	-					"
30667	100.5	102.0	0.30	-					"
30668	102.0	103.5	0.45	-					"
30669	103.5	105.0	0.49	-					"
30670	105.0	106.5	0.45	-					"
30671	106.5	108.0	0.33	-	0.1	0.01	5	0.004	"
30672	108.0	109.5	0.38	-					"
30673	109.5	111.0	0.27	-					"
30674	111.0	112.5	0.29	-					"
30675	112.5	114.0	0.35	-					"
30676	114.0	115.5	0.39	-					"
30677	115.5	117.0	0.20	-					"
30678	117.0	118.5	0.21	-					"
30679	118.5	120.0	0.23	-					Porphyry:
30680	120.0	121.5	0.25	-					"
30681	121.5	123.0	0.30	-	0.1	0.01	5	0.004	"
30682	123.0	124.5	0.25	-					fault (30 cm)
30683	124.5	126.0	0.22	-					"
30684	126.0	127.5	0.20	-					"
30685	127.5	129.0	0.19	-					"
30686	129.0	130.5	0.23	-					"
30687	130.5	132.0	0.14	-					"
30688	132.0	133.5	0.49	-					"
30689	133.5	135.0	0.23	-					"
30690	135.0	136.5	0.27	-					"
30691	136.5	138.0	0.29	-	0.1	0.01	5	0.013	"
30692	138.0	139.5	0.26	-					"
30693	139.5	141.0	0.17	-					"
30694	141.0	142.5	0.15	-					fault (20 cm)

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30695	142.5	144.0	0.23	-					<b>Porphyry:</b>
30696	144.0	145.5	0.26	-					wk fault (60 cm)
30697	145.5	147.0	0.35	-					<b>Guichon/Hybrid:</b>
30698	147.0	148.5	0.36	-					<b>Guichon:</b>
30699	148.5	150.0	0.42	-					"
30700	150.0	151.5	0.40	-					wk fault (30 cm)
30701	151.5	153.0	0.36	-	0.1	0.01	5	0.024	<b>Guichon/Hybrid:</b>
30702	153.0	154.5	0.41	-					wk fault (30 cm)
30703	154.5	156.0	0.49	-					<b>Guichon:</b>
30704	156.0	157.5	0.45	-					"
30705	157.5	159.0	0.48	-					"
30706	159.0	160.5	0.50	-					wk fault (90 cm)
30707	160.5	162.0	0.47	-					"
30708	162.0	163.5	0.43	-					<b>Guichon/Hybrid:</b>
30709	163.5	165.0	0.52	-					fault zone (1.8 m)
30710	165.0	166.5	0.37	-					wk fault (10 cm)
30711	166.5	168.0	0.52	-	0.1	0.01	5	0.012	wk fault (30 cm)
30712	168.0	169.5	0.54	-					"
30713	169.5	171.0	0.60	-					fault zone (3.1 m)
30714	171.0	172.5	0.36	-					"
30715	172.5	174.0	0.42	-					<b>Guichon:</b>
30716	174.0	175.5	0.38	-					fault zone (2.2 m)
30717	175.5	177.0	0.39	-					"
30718	177.0	178.5	0.67	-					"
30719	178.5	180.0	0.39	-					wk fault (20 cm)
30720	180.0	181.5	0.49	-					<b>Porphyry:</b>
30721	181.5	183.0	0.79	-	0.1	0.01	5	0.008	fault zone (1.8 m)
30722	183.0	184.5	0.70	-					<b>Guichon:</b>
30723	184.5	186.0	0.54	-					fault (1 m)
30724	186.0	187.5	0.49	-					"
30725	187.5	189.0	0.66	-					fault (1.2 m)
30726	189.0	190.5	0.67	-					
30727	190.5	192.0	0.75	-					fault (10 cm)
30728	192.0	193.5	0.71	-					fault zone (30 cm)
30729	193.5	195.0	0.44	-					fault (2.2 m)
30730	195.0	196.5	0.49	-					"
30731	196.5	198.0	0.54	-	0.1	0.01	5	0.009	"
30732	198.0	199.5	0.85	-					fault (10 cm)
30733	199.5	201.0	0.55	-					fault (50 cm)
30734	201.0	202.5	0.40	-					fault (10 cm)
30735	202.5	204.0	0.19	-					"
30736	204.0	205.5	0.59	-					fault zone (80 cm)
30737	205.5	207.0	0.31	-					"
30738	207.0	208.5	0.24	-					wk fault (20 cm)
30739	208.5	210.0	0.13	-					"
30740	210.0	211.5	0.14	-					"
30741	211.5	213.0	0.17	-	0.1	<.01	5	0.002	fault (70 cm)

Sample Number	Interval (m)		% Total	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to	Cu						
30742	213.0	214.5	0.10	-					Guichon:
30743	214.5	216.0	0.12	-					fault (40 cm)
30744	216.0	217.5	0.21	-					"
30745	217.5	219.0	0.12	-					"
30746	219.0	220.5	0.34	-					Porphyry dykelet (40 cm)
30747	220.5	222.0	0.05	-					"
30748	222.0	223.5	0.04	-					wk fault (30 cm)
30749	223.5	225.0	0.05	-					fault zone (4.1 m)
30750	225.0	226.5	0.14	-					"
30751	226.5	228.0	0.12	-					"
30752	228.0	229.5	0.21	-	0.1	<.01	10	0.001	"
30753	229.5	231.0	0.34	-					"
30754	231.0	232.5	0.16	-					"
30755	232.5	234.0	0.07	-					"
30756	234.0	235.5	0.18	-					"
30757	235.5	237.0	0.07	-					fault zone (1.3 m)
30758	237.0	238.5	0.13	-					fault zone (90 cm)
30759	238.5	240.0	0.05	-					fault (2.6 m)
30760	240.0	241.5	0.04	-					"
30761	241.5	243.0	0.10	-					"
30762	243.0	244.5	0.06	-	0.2	0.01	5	0.001	fault (30 cm)
30763	244.5	246.0	0.05	-					"
30764	246.0	247.5	0.08	-					fault (60 cm)
30765	247.5	249.0	0.09	-					"
30766	249.0	250.5	0.04	-					Porphyry:
30767	250.5	252.0	0.04	-					"
30768	252.0	253.5	0.04	-					"
30769	253.5	255.0	0.06	-					"
30770	255.0	256.5	0.07	-					"
30771	256.5	258.0	0.05	-	0.1	<.01	5	0.002	"
30772	258.0	259.5	0.13	-					"
30773	259.5	261.0	0.04	-					"
30774	261.0	262.5	0.04	-					"
30775	262.5	264.0	0.06	-					"
30776	264.0	265.5	0.04	-					"
30777	265.5	267.0	0.03	-					"
30778	267.0	268.5	0.06	-					"
30779	268.5	270.0	0.07	-					"
30780	270.0	271.5	0.31	-					"
30781	271.5	273.0	0.06	-	0.1	<.01	5	0.003	"
30782	273.0	274.5	0.06	-					"
30783	274.5	276.0	0.05	-					"
30784	276.0	277.5	0.03	-					"
30785	277.5	279.0	0.05	-					"
30786	279.0	280.5	0.04	-					"
30787	280.5	282.0	0.05	-					"
30788	282.0	283.5	0.05	-	0.1	<.01	5	0.002	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	from	to			(g/t)	(oz/t)	(ppb)		
30789	283.5	285.0	0.04	-					Porphyry Fp-1:
30790	285.0	286.5	0.05	-	*last composite 4 samples				"

GETTY NORTH PROJECT

Gower Thompson & Associates Ltd.

DDH # 96-11		Date	12-Mar-96		Logged by		FM										
Elevation	1711.5 m	Azimuth	050		Northing:		5603910.1										
Inclination	-45	Length	190.2 m		Easting:		641663.1										
ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary				
		GOUGE	INTENSITY	SURFACES					perv.	fract.	perv	fract	perv	fract			
0-16.8	Overburden and casing																
16.8-90.7	Guichon fault zone	> 20% gge	mod/stng loc bkn/gge fracts at: 40, 55-60° C.A.	cly, ser	carb f.f. and vnlt	(loc hem stn ser)			carb ser cly chl tr bio	cly ser			1% pyr <0.2% cpy			0	Qtz-biotite granodiorite (judging by one less altered interval). Strong alteration overall, locally interval with secondary biotite. Once was deuterically altered (ep blebs in mafics) but overprinted. Py rin mafics. Local pervasive ser alteration. Most of mafics now cly but have a chl wash. Locally has Fp-1 looking intervals. Possibly Fp-1 interfering or just an alteration effect.
16.8-18.9 ~~~~	Guichon fault	16.9-17.3 m	bkn, loc stng RQD 0%	cly, ser	(carb vnlt & f.f.)				ser cly chl	(ep) cly ser			pyr tr cpy			-	No oxide zone. Rounded volcanic and Guichon? clasts, brown gouge to 17.0 m. Sharp contact in gouge from brown gouge to pale green. Local thin pistachio green (ep) gouge. Pyr 1-1.5 %
18.9-22.9 ~~~~	Guichon fault zone	21.9-22.9 m 40° C.A. at top	stng, loc shatt bkn & gge. RQD 0%	cly, ser	(carb f.f. & vnlt to 3 mm)	(loc hem stn ser)			carb ser cly chl (bio)	cly ser (ep)			(pyr) tr cpy			0	One pink calcite veinlet. Local hem stained ser alteration envelopes to 0.5 cm.
22.9-27.4 ~~~~	Guichon fault	22.9-25.8 m	stng, loc bkn & gge	cly, ser, carb chl	carb f.f. & vnlt				carb ser cly chl	carb ser cly chl			(pyr)			0	Intervals of pervasive ser.
27.4-30.6 ~~~~	Guichon cont'd fault	27.6-28.8 m	mod/stng, loc bkn, crush and gge RQD 21%	(cly) (chl) (ser) carb	carb f.f. & vnlt to 4cm qtz/pyr m microvnlt (< 1mm) 80 & 55° C.A. 1 1cm qtz vnlt 40° C.A.				carb ser cly chl tr bio	carb (ser) (cly) (chl)			tr pyr tr cpy			0	Carb veinlets locally vuggy. Qtz and pyr microveinlets at 80° C.A. before 28.8 m, after: 50° C.A. Locally a strong amount of these microveinlets. Bleached ser alteration envelopes 1-5 mm.
30.6-34.2 ~~~~	Guichon fault	30.6-31.2 m 30° C.A. at bottom	mod/stng, loc wk and gge loc bkn	cly, (chl) (ser) carb	(carb f.f. & vnlt to 0.5 cm) (qtz & pyr vnlt <1 mm)				ser chl cly carb	cly chl (ser) carb			(pyr) (pyr)			-	Alteration increasing. Qtz and pyr veinlets have qtz and ser alteration envelopes to 0.5 cm, locally offset 1 cm by carb veinlet. Many carb fragments in gouge - possibly at one point a carb healed shear?

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.			perv	fract	perv	fract		
34.2-38.1 ~~~~~	Guichon wk fault	35.0-35.3 m	stng, loc mod bkn & shatt loc gge	(ser) (chlr) <u>carb</u>	carb f.f. qtz & pyr vnits to 0.5 cm	-	-	-	tr bio <u>ser</u> <u>chlr</u> cly carb tr ep	(ser) (chlr) <u>carb</u>	-	-	-	(pyr) tr cpy	(pyr)	0	0.2% cpy, 1.5% pyr. Hydrothermal pervasive ep probably just remnant from previous alteration.
38.1-42.2	Guichon/ Hybrid	loc thin > 1 cm 45° C.A.	mod, loc stng wk & bkn RQD 31%	(cly), (chlr) ser, <u>carb</u>	carb f.f. & irreg vnits (qtz & pyr vnits <3 mm)	-	-	-	<u>ser</u> <u>chlr</u> cly <u>carb</u>	(cly) <u>carb</u> (chlr) ser	-	-	-	(pyr) tr cpy	(pyr)	0	Xenolith?---38.7-40.0 m. Finer grained tna surrounding Guichon, hard to tell because of alteration intensity.
42.2-45.0 ~~~~~	Guichon fault	43.9-45.2 m bottom 40° C.A.	mod, loc stng bkn & shatt laoc crush/mill & gge RQD 27%	(cly) (ser) chlr, carb	carb f.f. & (vnits to 0.5 cm) (qtz & pyr microvnits < 1 mm)	-	-	-	<u>ser</u> <u>chlr</u> <u>carb</u> cly	(cly) (ser) chlr carb	-	-	-	(pyr) tr cpy	(pyr)	0	Hard to tell chlr on fractures since pervasive chlr is strong. Contact with porphyry probably in fault zone. 1.5% pyr, 0.2% cpy.
45.0-49.2	Porphyry (plag?)	loc thin 40 cm at 48.1 m	stng, loc shatt & bkn, RQD 0%	(cly) (ser) carb	carb f.f. qtz & pyr < 2 mm	-	-	-	<u>ser</u> <u>chlr</u> <u>carb</u> (cly)	(cly) (ser) carb	-	-	-	(pyr) (pyr)	(pyr)	0	Hard to tell type of porphyry because fo alteration intensity. (can make out phenocrysts, lost pale pink clay altered mafics). Qtz and pyr veinlets locally. Crosscutting sil and ser alteration envelopes on qtz and pyr veinlets 0.5-1 cm.
49.2-53.5 ~~~~~	Guichon fault	loc thin 51.1-51.8 m	stng, loc mod & wk, crush & heal, RQD 16%	(ser) (chlr) carb	(carb f.f. & vnits to 2 cm) (qtz & pyr < 3 mm)	-	-	-	<u>ser</u> <u>chlr</u> <u>carb</u> cly	(ser) (chlr) carb	-	-	-	(pyr) tr cpy	(pyr) tr cpy		Carb veinlets are locally very vuggy. Cpy very fine grained. Fracture pyr-pervasive pyr. 1-1.5%.
53.5-57.3	Guichon	-	mod/stng, loc shatt/bkn RQD 16% conj set at 40 & 50° C.A.	chlr (ser) carb	carb f.f. & vnits to 0.5 cm & irreg vnits qtz & pyr vnits 3mm-1 cm	-	-	-	<u>ser</u> <u>chlr</u> <u>carb</u> cly	carb (ser) chlr	-	-	-	(pyr) (pyr)	(pyr)		>0.2% cpy, >1.5% pyr. Qtz and ser alteration envelopes on qtz and pyr veinlets ~ 1 cm.
57.3-61.1 ~~~~~	Guichon fault/shear zone	57.3-60.6 m	mod, loc stng shatt & bkn loc crush/gge RQD 27%	chlr, carb (cly) (ser)	carb f.f. & vnits to 0.5 cm. (dol? & carb vnits & shear zone matrix) (qtz & pyr vnits to 0.5 cm)	-	-	-	carb <u>ser</u> <u>chlr</u> cly	chlr (cly) (ser) carb	-	-	-	(pyr) (cpy)	(pyr) tr cpy	0	One 1 cm veinlet and some shear zone/fault breccia matrix that only fizzes when powdered - dolomite or another carb? contains blebs of cpy Cpy 0.2-0.5%. Local ridges on core.

ROCK TYPE		STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
61.1-64.8	Guichon		mod, loc stng	chl, carb	carb vnlt	-	-	-	carb	carb	-	-	-	(pyr)	(pyr)	0		Local ridges on core. 0.5% cpy, local pervasive cpy = pervasive pyr. Qtz and ser alteration envelopes 0.5-1 cm. 62.5-62.7 m: half Guichon and half porphyry looking core.
~~~~	wk fault zone	63.0-64.8 m	shatt & bkn	(cly) (ser)	3 mm & f.f.				ser	(ser)				(cpy)	tr cpy			
			loc crush/gge		(qtz & pyr				chl	chl								
			RQD 27%		< 2 mm)				cly	(cly)								
64.8-68.5	Guichon	-	stng/shatt	(ser) (chl)	(carb f.f. &	-	-	-	ser	(ser)	-	-	-	(pyr)	pyr	0-1		≥ 2% pyr (several qtz & pyr veinlets ≥ 3 mm)
			loc bkn	carb	vnlt to				chl	(chl)				(cpy)	tr cpy			Local qtz and pyr veinlet "stockwork". Alteration decreasing. One qtz/pyr veinlets offset 1 cm by carb veinlet. 67.8 m: 10 cm interval 30% pyr blebs and 5% cpy blebs. > 0.5% cpy, 2-2.5 % pyr.
			RQD 0%		0.5 cm)				(cly)	carb								
					qtz and pyr				carb									
					vnlt 3-5mm													
68.5-72.4	Guichon	-	mod/stng, loc	tr ser, carb	carb f.f. &	-	-	-	(bio)	tr ser	tr ep	-	-	(pyr)	pyr	1-2		Alteration decreasing. 0.2-0.5% cpy, 2% pyr
			shatt		vnlt to				carb	carb				(cpy)				Qtz and ser alteration envelopes 1 cm.
			RQD 20%		0.5 cm				ser									
					qtz & pyr				chl									
					vnlt ≤ 3mm				(cly)									
									tr alb?									
									tr ep									
72.4-75.9	Guichon		stng, loc shatt	(ser), tr chl	carb f.f.	-	-	-	carb	(ser)	tr ep	-	-	(pyr)	pyr	1-2		Green-grey porphyry dykelet (top contact ~ 30°
~~~~	wk fault	73.8-74.2 m	& bkn RQD 0%	carb	qtz & pyr				(ep)	tr chl				(cpy)				bottom ~ 40° C.A.) Plagioclase phenocrysts,
(74.4-75.0)	Porphyry				< 2 mm				ser	carb								aphanitic matrix. Locally Guichon looks like Fp-1
									chl									porphyry contains deuteric ep. >0.2% cpy.
									tr alb									Qtz and ser alteration envelopes 0.5-1 cm with
																		outer chl alteration envelopes.
75.9-79.9	Guichon/ Hybrid		stng, loc wk	ser, (chl)	(carb f.f.)	-	-	-	(alb)	ser	tr ep?	-	-	(pyr)	pyr	2		One 3 cm xenolith. ~ 25 % pyr. Fracture pyr>
~~~~	fault zone	78.5-79.2 m	shatt/bkn, loc	carb	qtz & pyr				(ser)	(chl)				tr cpy				pervasive pyr. >0.2% cpy.
			gge, RQD 9%		< 2 mm				chl	carb								
									(ep)									
									tr bio									
79.9-83.7	Guichon	loc thin	mod, loc stng	(ser) (chl)	(carb f.f. &	tr hem	-	-	carb	(ser)		-	-	(pyr)	pyr	1-2		Alteration picks up ~ 83.2 m. 0.2-0.5% cpy.
		2 cm at	loc bkn/shatt	carb	vnlt to	stn alb			chl	(chl)				(cpy)				Qtz and ser alteration envelopes 0.5-1 cm
		81.6 m at	& gge		0.5 cm)				(bio)	carb								
		30° C.A.	RQD 15%		(qtz & pyr				(alb)									
		& at 81.9 m			vnlt ≤ 3mm)				ser									
		at 45° C.A.																
83.7-87.9	Guichon (?)	loc thin	mod, loc stng	(chl) (ser)	carb f.f. &	-	-	-	ser	(chl)	-	-	-	(pyr)	(pyr)	0-1		Local comminuted sulphides on slip surface. Hard
		< 1 cm		carb	irreg vnlt				chl	(ser)				tr cpy	tr cpy			to tell amount of fracture chl because of alteration
		25° C.A.			(qtz & pyr				cly	carb								Intervals of Guichon look like Fp-1 porphyry.
					vnlt <2mm)				carb									Appears to be finer grained, fewer mafics (hard
																		to tell because of alteration). Fracture pyr>>
																		pervasive pyr. 0.2% cpy, 1/5% pyr. Cpy blebs
																		in carb veinlet

ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
87.9-90.7	Guichon	-	mod/stng RQD 8%	ser, (chlr) carb, loc cly	carb f.f. & irreg vnlt  < 1 cm (qtz/carb/ pyr vnlt 1-5 mm)	-	-	-	ser chlr cly carb	ser chlr carb loc cly	-	-	-	(pyr) tr cpy	pyr (cpy)	0		Moderately developed (~ 0.5-1 cm) sericitic alteration envelope on pyr veinlets. Fracture pyr >> pervasive pyr. 1.5-2% pyr.
90.7-100.2	Guichon Fault zone	~ 40% cly gge/fault bx w/milled clasts shear at 20-30° C.A.	stng/bkn loc fault bx RQD 0%	ser, chlr, cly carb	num qtz & carb vnlt & frags in fault bx & gge. (qtz/carb/ pyr vnlt 1-5 mm)	-	-	-	cly loc chlr ser carb	ser chlr cly carb	-	-	-	(pyr) tr cpy	pyr tr cpy	0		Several sections more fine grained and chloritic; may be porphyritic. Several grey qtz veinlet fragments in gouge and breccia with pyr and cpy blebs; probably remobilized. ~ 2% pyr Several cpy veinlets 1-2 mm perpendicular to the core axis.
100.2-121.7	Guichon w/ interval of Porphyry	116.9- 117.3 m at 20° C.A. 121.5- 121.9 m at 20° C.A.	wk/mod, loc stng/crushed	ser, carb, chlr loc cly	(irreg carb vnlt < 1cm & f.f.) pyr f.f. & vnlt 1-2 mm	loc hem stn alb	-	-	ser chlr (carb) (cly) (bio)	ser chlr carb loc cly	-	-	-	(pyr) tr cpy	pyr (cpy)	2-3		Qtz-biotite diorite. Out of main fault zone; much more competent weaker overall alteration. Numerous pyr veinlets and qtz/chlr/pyr healed fractures (~ 10-15/m) with weak to moderate developed bleached, ser/carb alteration envelopes. Pyr and cpy with mafics. Fracture pyr >> pervasive pyr. 2% pyr. Cpy <0.5%. Local secondary biotite. Chlr after biotite.
100.2-103.7	Guichon	-	wk, RQD 50% sets at 20, 40-50° C.A.	ser, (chlr) carb	qtz/pyr vnlt 1-3 mm qtz vnlt 2 cm 40° C.A. w/pyr	-	-	-	ser chlr (loc carb) (bio) (cly?)	ser (chlr) carb	-	-	-	(pyr) (cpy)	pyr (cpy)	2-3		Numerous cross cutting pyr veinlets (1-3 mm) and qtz/chlr/pyr healed fractures with sericitic alteration envelopes and chlr selvages. Discrete chloritization of mafics, chlr after biotite. Patchy black secondary biotite.
103.7-107.8	Guichon	-	wk, loc mod/ stng, RQD 37% sets at 20-70° C.A.	ser, (chlr) carb	wk irreg carb vnlt < 0.5 cm num qtz/chlr /pyr healed fracts	loc hem stn alb	-	-	ser (chlr) (loc carb) (bio) tr ep loc sil	ser (chlr) carb	-	-	-	(pyr) tr cpy	pyr (cpy) tr mo	2-3		Weakly developed bleached, sericitic alteration envelopes on veinlets and healed fractures. Several intervals quite siliceous with ghost-like phenocrysts and secondary biotite. Pyr 1-1.5 % Strongest cpy on fractures at 70° C.A.
107.8-111.5	Guichon	-	wk, loc stng/ bkn RQD 35%	ser, (chlr) carb	(carb vnlt & f.f.) (qtz/chlr/pyr healed fracts)	(loc hem stn alb)	-	-	ser chlr (carb) (bio) loc alb	ser (chlr) carb	-	-	-	(pyr) (cpy)	pyr (cpy) tr mo	2		Pyr ~ 1%. Weak cpy occurs with pyr in fractures and pervasively disseminated with mafics. Weakly developed sericitic alteration envelopes on fractures and veinlets. Locally appears siliceous with ghost-like phenos. Thin section for alteration required.



interval (m)	ROCK TYPE	FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric		supergene					primary	
									perv.	fract.	perv.	fract.	perv.	fract.				perv.	fract.
111.5-115.0	Guichon	loc thin	mod/stng loc bkn/ crushed RQd 5%	ser, chlr, carb loc cly	(carb vnlt 0.5-1 cm) num qtz/chlr healed fracts w/ pyr & (cpy) (pyr vnlt 1-2 mm)	-	-	-	ser chl carb (bio)	ser chl carb loc cly	-	-	-	(pyr) tr cpy	pyr (cpy)	0	Pyr ~ 1%. Cpy 0.5%. More strongly chloritic overall than previous interval. Cross cutting healed fractures and veinlets with moderate developed alteration envelopes. Pyr is generally fine grained to very fine grained.		
115.4-121.7	Porphyry wk fault zone  w/interval of Guichon Qtz diorite 120.0-121.7 m	116.9- 117.3 m ~ 40° C.A.	wk, loc stng/ crushed RQD 38%	ser, carb (chl), loc cly	num qtz/pyr healed fracts & pyr vnlt 1-2 mm	-	-	-	ser chl (carb) (bio)	ser (chl) carb loc cly	-	-	-	(pyr) (cpy) tr mo	pyr (cpy)	0	Uncertain of exact location of contact - obscured by very strong alteration and fracturing. Not sure which porphyry this is (due to alteration); possibly Fp-1. Pyr ~ 1%, cpy 0.5-1%. Fracture pyr > pervasive pyr. Cpy occurs with mafics and with pyr in fractures. Melt contact at 60o C.A. with Guichon qtz diorite 120.0 m. Guichon is less chloritic than porphyry. Lower contact is shattered		
121.7-134.5	Porphyry Fp-1 (Bethlehem)	at the top contact w/ Guichon	mod, loc bkn sets at 40-50o C.A.	(ser) carb	qtz & pyr vnlt < 3 mm irreg carb vnlt & to 1 cm & f.f.	(hem stn alb)	-	-	tr carb ser (chl)	(ser) carb	-	-	-	1.5-2% pyr 0.2-0.5% cpy	-	2-3	Bottom contact fo Fp-1 with Guichon chilled contact. Qtz-feldspar crowded porphyry Ser ± qtz alteration envelopes, moderate to well developed, 0.5-1 cm.		
121.7-123.4	Porphyry Fp-1 wk fault	121.5- 121.9 m ~ 30° C.A.	bkn & shatt loc stng, wk ckle bx RQD 0%	(ser) carb	(carb f.f.) (qtz & pyr < 2 mm)	tr hem stn alb	-	-	tr carb ser (chl)	(ser) carb	-	-	-	tr pyr tr cpy	tr mo pyr (cpy)	1-2	Molybdenite selvage on qtz and pyr veinlet with cpy in core.		
123.4-127.0	Porphyry	-	stng, loc shatt & bkn RQD 0%	(ser) carb	(carb f.f.) qtz & pyr vnlt <2 mm 1 6 mm qtz vnlt	(hem stn alb)	-	-	tr carb ser (chl)	(ser) carb	-	-	-	tr pyr tr cpy	pyr (cpy)	2	One vuggy qtz veinlet. Qtz and pyr veinlets locally cross cutting 6 mm qtz and pyr veinlet with pyr core and chlr selvages. Qtz and ser alteration envelopes 0.5-1 cm. 1.5-2% pyr, 0.2% cpy Pervasive cpy and pyr associated with fractures and veinlets.		
127.0-131.0	Porphyry	-	mod, loc stng & bkn RQD 24%	(ser) (chl) carb	(carb f.f. & 1 1 cm carb vnlt); 1 2mm qtz vnlt qtz & pyr 1 mm	(hem stn alb)	-	-	tr carb ser (carb)	(ser) carb (chl)	-	-	-	tr pyr tr cpy	(pyr) (cpy) tr mo	1-2	2 mm qtz veinlets has carb in core. 1-1.5% pyr. Pervasive cpy and pyr associated with qtz and pyr veinlets.		

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL.	REMARKS			
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract				
131.0-134.5	Porphyry	loc thin < 1 cm	mod, loc stng shatt/bkn RQD 26%	ser, chl, carb	(carb f.f. & irreg vnlt to 3 mm) qtz & pyr vnlt 1 mm; 1 3 mm qtz vnlt	(hem stn alb)	-	-	ser (chl)	ser chl	-	-	tr pyr tr cpy	(pyr) tr cpy			1-2		1% pyr. Fracture pyr >> pervasive pyr.
134.5-190.2	Guichon w/intervals of Grey Porphyry & Bethlehem Quartz Diorite	147.2- 147.8 m and loc thin	mod	ser, chl, carb loc cly	(carb f.f. & irreg vnlt to 3 mm) qtz/pyr vnlt 1-2 mm	-	-	-	ser (chl) tr carb (ep)	ser chl carb loc cly	chl	-	tr pyr tr cpy	pyr (cpy)			2-3		Qtz-biotite diorite: Qtz diorite. Overall alteration intensity decreases with depth. Chl after biotite. Several intervals of gouge/shearing 134.5-153.6m increasingly competent below to EOH Bethlehem Quartz Diorite 134.5-137.1 m; Crowded? grey hornblende-plagioclase. Porphyry (probably D3 variety) at 168.1-171.8 m; Pink pink aplitic felspar porphyry 180.9-181.2, 181.5-181.9 m; all porphyry dykes are premineral. 90% of sulphides in fractures/veinlets. Sericitic alteration envelopes 0.5-1 cm.
134.5-137.1	Bethlehem Quartz Diorite	loc thin < 1 cm	wk/mod loc shatt RQD 21%	ser, carb, chl loc cly	(qtz/pyr vnlt 1-2 mm)	-	-	-	(ser) (chl) tr ep (loc alb)	ser chl carb loc cly	chl	-	tr pyr	pyr tr cpy			2		Upper contact shar 10-20o C.A., lower contact broken, possibly fault offset. 0.5-1% pyr, 0.2% cpy.
137.1-142.7	Guichon wk fault zone	137.2 m ~ 20° C.A. 5 cm, several sections thin [<1 cm] at 20° C.A.	mod, loc bkn/crushed RQD 21%	ser, carb, chl loc cly	(carb f.f. & irreg vnlt < 0.5 cm) qtz vnlt 1cm w/pyr 70° C.A.	-	-	-	ser (chl) (chl) (loc cly)	ser chl carb loc cly	-	-	(cpy) tr pyr	(pyr) tr cpy			2		Trace of pervasively disseminated pyr and cpy associated with fractures - usually within alteration envelope. Local cross cutting qtz/chl healed fractures ! 2 mm. Pyr ~ 1%, cpy < 0.2%. Fracture pyr >> pervasive pyr.
142.7-146.4	Guichon	loc thin < 1 cm	stng, loc shatt/bkn RQD 14%	ser, chl, carb loc cly	(carb f.f.) qtz/carb/pyr vnlt 1-2mm	(loc hem)	-	-	tr ep loc alb (ser) chl (carb)	ser chl carb loc cly	-	-	(cpy) (pyr)	(cpy) (pyr)			2-3		40 cm interval of strong cpy as blebby veinlets 0.5-1 cm. Fracture pyr >> pervasive pyr. Weak pervasive carb in mafics.
146.4-150.6	Guichon wk fault zone	147.3 m 147.1-147.8 148.5- 148.7 m	mod/stng loc shatt/ crushed RQD 4%	ser, chl, carb loc cly	(qtz vnlt < 0.5 cm) (qtz/pyr vnlt < 3mm) (qtz/chl healed fracts)	-	-	-	tr carb tr ep (ser) (chl) (loc alb)	ser chl carb loc cly	-	-	tr pyr tr cpy	tr cpy tr mo pyr			2-3		Alteration intensity decreasing. Chl after biotite. Trace of mo as selvage on qtz veinlet. Pyr 1.5% Fracture pyr >> pervasive pyr. Pyr in core of qtz veinlet. Sericitic alteration envelopes 0.5-1 cm

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
150.6-154.3	Guichon	153.3 m ~ 5 cm 45° C.A.	mod, loc stng/ bkn, loc crushed RQD 10% sets at 30-45° C.A.	ser, (chlr) carb, loc cly	(irreg carb vnlt < 0.5 cm) (qtz/chlr/pyr healed fracts)	-	-	-	(carb) (ser) (chlr) (loc alb) tr ep	ser (chlr)	chlr	-	-	(cpy) (pyr) (cpy)	pyr tr mo (cpy)	3		Partially assimilated xenolith. Weak pervasive carb in mafics. Pink speckled Guichon Quartz Diorite. Pyr ~ 1.5%, 0.2% cpy. Weak pervasive sulphides associated with fractures; usually within alteration envelopes. Fracture pyr >> pervasive pyr.
154.3-158.0	Guichon	loc thin < 1 cm	stng, loc wk mod, shatt/bkn RQD 21%	chlr, carb chlr, loc cly	(carb f.f. & vnlt < 3mm) 1 qtz/pyr 2 mm	-	-	-	(ser) (chlr) (carb) tr ep tr alb	ser chlr	chlr	-	-	tr pyr tr cpy	pyr tr cpy	2-3		0.2% cpy, 1-1.5% pyr.
158.0-161.8	Guichon	loc thin	mod, loc stng loc bkn/crush RQD 21%	ser, (chlr) loc cly, carb	(carb f.f. & vnlt to 0.5 cm) (qtz/pyr < 2 mm) 1 8 mm qtz vnlt	-	-	-	tr ser (chlr) (carb) tr ep tr alb	ser (chlr)	chlr	-	-	(cpy) tr pyr	tr mo pyr (cpy)	2-3		Qtz veinlet offset by carb veinlet ~ 1 cm. Pervasive cpy and pyr associated with fractures and veinlets. > 0.2% cpy, 1-1.5% pyr. One of carb veinlets (20° C.A.) has rhomb-graben structure; formation of carb veinlet during right lateral movement?
161.8-166.1	Guichon	loc thin < 1 cm	mod, loc bkn stng RQD 23%	ser, chlr, carb	(carb f.f.) qtz/pyr ± carb vnlt < 3 mm	-	-	-	tr carb (chlr) (ser) tr alb tr ep	ser chlr carb	chlr	-	-	(cpy) tr pyr	pyr (cpy)	2-3		Fracture pyr >> pervasive pyr. Fracture cpy ≥ pervasive cpy. Pervasive cpy ( and pyr) associated with fractures and veinlets.
166.1-172.0 (166.9-168.2)	Porphyry dykelet Guichon	-	stng, loc mod loc shatt/bkn RQD 14%	ser, carb (chlr)	(carb f.f.) qtz/pyr/carb 1 mm. 1 pyr (+ carb) + ep vnlt 0.5 cm, 20° C.A.	-	-	-	(carb) (chlr) tr ser	ser carb (chlr) (ep)	(chlr)	-	-	-	(pyr)	2		Hornblende-feldspar porphyry. Carb in mafics. Bleached ser alteration envelopes 0.5 cm Ep in some of carb veinlets. 4 contacts in interval starting with Guichon (top) to porphyry: irregular melt contact appears to be at a low angle to sub-parallel. Second contact Porphyry to Guichon irregular appears to be close to perpendicular to core axis. Third contact Guichon to Porphyry: contact is broken, some slip. Probably close to perpendicular to core axis. Fourth contact porphyry to Guichon: broken and crushed, appears to be melt contact with a broken off piece of Guichon in Porphyry.
172.0-177.8	Guichon	loc thin < 1 cm	mod, loc stng loc shatt/bkn RQD 23%	ser, carb (chlr)	carb f.f. (qtz/pyr/ carb vnlt < 3 mm)	-	-	-	tr ser (chlr) tr carb tr alb	(ep) ser (chlr) carb	chlr	-	-	tr pyr tr cpy	pyr tr cpy	2-3		Ep in carb veinlets. Pyr 1-1.5%, cpy < 0.2%. Ser alteration envelopes 0.5-1 cm. Chlr healed fractures.

ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
								perv.	fract.		perv	fract	perv	fract				
177.8-181.5	Guichon	-	mod, loc bkn/ stng. RQD 13%	<u>ser, carb</u> (chlr)	(carb f.f.)	tr hem stn alb	-	-	tr ep (carb) (chlr) (alb)	<u>ser</u> <u>carb</u> (chlr)	chlr tr ep	-	-	tr cpy tr pyr	pyr (cpy)	2-3 loc 1	Three apilite porphyry dykelets (all broken) - 10, 10 and 20 cm. On e 5 cm vuggy interval, looks like it was silicified. pyr 1-1.5%, cpy 0.2%.	
181.5-185.2	Guichon/ Hybrid	loc slip	stng, loc mod shatt/bkn RQD 15%	<u>ser, carb</u> (chlr)	(carb f.f. & 1 irreg 5 cm vnlit)	tr hem stn alb	-	-	(carb) tr ser (chlr) (alb)	<u>ser</u> (chlr) <u>carb</u>	chlr	-	-	(cpy) tr pyr	pyr (cpy)	2-3	One 3 cm xenolith. 0.2-0.5% cpy, 1-1.5% pyr. Qtz and ser alteration envelopes, 1 cm chlr alteration envelopes or outer envelopes (contains most of pervasive cpy.)	
185.2-190.2	Guichon	loc thin < 1 cm	wk/mod, loc stng, shatt/ bkn RQD 43%	<u>ser, chlr, carb</u>	(carb f.f.) (qtz & pyr vnlit 1-5 mm) 1 0.5 cm qtz vnlit	tr hem stn alb	-	-	(carb) tr ep (chlr) tr alb	ser chlr <u>carb</u>	chlr	-	-	tr pyr tr cpy	pyr	2-3	Carb in mafics. 2% pyr. 5 cm chlr well healed shear zone with discontinuous ep, pyr and cpy bands 65° C.A.	
EOH 190.2 m																		

Northing:		DDH 96-11				Azimuth: 045			
Easting:		Elevation:				Inclination: -50			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
30791	16.8	18.3	0.06	-					Guichon:
30792	18.3	19.8	0.04	-					fault (40 cm)
30793	19.8	21.3	0.08	-					"
30794	21.3	22.8	0.05	-					fault zone (1 m)
30795	22.8	24.3	0.08	-	0.1	<.01	5	<.001	fault (2.9 m)
30796	24.3	25.8	0.12	-					"
30797	25.8	27.3	0.07	-					fault (1.2 m)
30798	27.3	28.8	0.08	-					"
30799	28.8	30.3	0.08	-					"
30800	30.3	31.8	0.11	-					fault (60 m)
31501	31.8	33.3	0.09	-					wk fault (30 cm)
31502	33.3	34.8	0.10	-					"
31503	34.8	36.3	0.19	-					"
31504	36.3	37.8	0.15	-					"
31505	37.8	39.3	0.15	-	0.1	<.01	5	0.001	"
31506	39.3	40.8	0.14	-					"
31507	40.8	42.3	0.15	-					"
31508	42.3	43.8	0.13	-					"
31509	43.8	45.3	0.32	-					fault (1.3 m)
31510	45.3	46.8	0.10	-					Porphyry (plag?):
31511	46.8	48.3	0.09	-					"
31512	48.3	49.8	0.13	-					Guichon:
31513	49.8	51.3	0.19	-					fault (70 cm)
31514	51.3	52.8	0.11	-					"
31515	52.8	54.3	0.13	-	0.1	<.01	5	0.002	"
31516	54.3	55.8	0.14	-					"
31517	55.8	57.3	0.14	-					"
31518	57.3	58.8	0.14	-					fault/shear zone (3.4 m)
31519	58.8	60.3	0.12	-					"
31520	60.3	61.8	0.12	-					"
31521	61.8	63.3	0.18	-					"
31522	63.3	64.8	0.10	-					wk fault zone (1.8 m)
31523	64.8	66.3	0.12	-					"
31524	66.3	67.8	0.17	-					"
31525	67.8	69.3	0.19	-	0.1	<.01	5	0.001	"
31526	69.3	70.8	0.11	-					"
31527	70.8	72.3	0.10	-					"
31528	72.3	73.8	0.11	-					"
31529	73.8	75.3	0.13	-					wk fault (40 cm)
31530	75.3	76.8	0.17	-					Porphyry (74.4-79.2 m)
31531	76.8	78.3	0.11	-					"
31532	78.3	79.8	0.15	-					fault zone (70 cm)
31533	79.8	81.3	0.12	-					"
31534	81.3	82.8	0.14	-					"
31535	82.8	84.3	0.14	-	0.2	0.01	5	0.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
31536	84.3	85.8	0.15	-					"
31537	85.8	87.3	0.12	-					"
31538	87.3	88.8	0.14	-					"
31539	88.8	90.3	0.24	-					"
31540	90.3	91.8	0.27	-					fault zone (90.7-100.2 m)
31541	91.8	93.3	0.28	-					"
31542	93.3	94.8	0.31	-					"
31543	94.8	96.3	0.25	-					"
31544	96.3	97.8	0.25	-					"
31545	97.8	99.3	0.24	-					"
31546	99.3	100.8	0.47	-	0.2	0.01	5	0.006	"
31547	100.8	102.3	0.31	-					"
31548	102.3	103.8	0.37	-					"
31549	103.8	105.3	0.17	-					"
31550	105.3	106.8	0.26	-					"
31551	106.8	108.3	0.26	-					"
31552	108.3	109.8	0.15	-					"
31553	109.8	111.3	0.24	-					"
31554	111.3	112.8	0.37	-					"
31555	112.8	114.3	0.25	-					"
31556	114.3	115.8	0.25	-	0.2	0.01	5	0.002	"
31557	115.8	117.3	0.30	-					<b>Porphyry:</b>
31558	117.3	118.8	0.22	-					wk fault zone (40 cm)
31559	118.8	120.3	0.21	-					"
31560	120.3	121.8	0.14	-					<b>Guichon:</b>
31561	121.8	123.3	0.21	-					<b>Porphyry Fp-1:</b>
31562	123.3	124.8	0.27	-					wk fault (40 cm)
31563	124.8	126.3	0.18	-					"
31564	126.3	127.8	0.18	-					"
31565	127.8	129.3	0.20	-	0.1	<.01	5	0.003	"
31566	129.3	130.8	0.23	-					"
31567	130.8	132.3	0.27	-					"
31568	132.3	133.8	0.20	-					"
31569	133.8	135.3	0.19	-					<b>Bethlehem Q.D.:</b>
31570	135.3	136.8	0.24	-					"
31571	136.8	138.3	0.29	-					<b>Guichon:</b>
31572	138.3	139.8	0.34	-					wk fault zone
31573	139.8	141.3	0.28	-					"
31574	141.3	142.8	0.25	-					"
31575	142.8	144.3	0.30	-					"
31576	144.3	145.8	1.30	-	0.5	0.02	5	0.005	"
31577	145.8	147.3	0.30	-					"
31578	147.3	148.8	0.28	-					wk fault zone (70 cm)
31579	148.8	150.3	0.19	-					wk fault zone (20 cm)
31580	150.3	151.8	0.18	-					"
31581	151.8	153.3	0.18	-					"
31582	153.3	154.8	0.20	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
31583	154.8	156.3	0.13	-					"
31584	156.3	157.8	0.20	-					"
31585	157.8	159.3	0.18	-	0.2	0.01	5	0.003	"
31586	159.3	160.8	0.16	-					"
31587	160.8	162.3	0.12	-					"
31588	162.3	163.8	0.21	-					"
31589	163.8	165.3	0.31	-					"
31590	165.3	166.8	0.18	-					"
31591	166.8	168.3	0.09	-					1.3 m section of
31592	168.3	169.8	0.08	-					Guichon within a
31593	169.8	171.3	0.08	-					Porphyry dykelet (5.9 m)
31594	171.3	172.8	0.15	-					"
31595	172.8	174.3	0.22	-	0.1	<.01	5	0.002	Guichon:
31596	174.3	175.8	0.10	-					"
31597	175.8	177.3	0.18	-					"
31598	177.3	178.8	0.15	-					"
31599	178.8	180.3	0.16	-					"
31600	180.3	181.8	0.14	-					"
31601	181.8	183.3	0.39	-					Guichon/Hybrid:
31602	183.3	184.8	0.09	-					"
31603	184.8	186.3	0.05	-	0.1	<.01	5	0.001	Guichon:
31604	186.3	187.8	0.09	-					"
31605	187.8	190.2	0.07	-	*last composite 5 samples				"

GETTY NORTH PROJECT

Gower Thompson & Associates Ltd.

DDH # 96-12		Date	15-Mar-96		Logged by		F.M										
Elevation		1711.5 m	Azimuth	050		Northing:		5603910.1									
Inclination		-80	Length	297.2 m		Easting:		641663.1									
ROCK TYPE		FAULT	STRUCTURE		STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract		
0-14.9	casing & overburden																
14.9-25.9	Guichon	several intervals 2-30 cm	mod/stng fract at 65, 30 & 50° C.A.	loc cly, tr chl ser, carb	carb f.f. & vnits	loc hem stn ser		loc Fe	ser carb cly	loc cly tr chl ser carb							Qtz-biotite-diorite. Not much of an oxide zone just some jar staining. Overall strongly altered.
14.9-17.3	Guichon fault	16.6-17.3 m	stng/shatt & bkn, loc mod crush & gge RQD 8%	cly, chl, carb (ser)	(carb f.f.)	hem stn ser/alb	jar stn cly & coatings	Fe, cly	ser carb cly (ep?)	cly chl carb (ser)						0-1	Mostly discrete pervasive chl. Local pervasive ep; core probably pervasive alb and ep altered but now overprinted. Chl healed fractures. ***Nail test jar: negative.
17.3-21.0	Guichon wk fault	18.7-18.9 m	mod/stng, loc shatt/bkn gge, RQD 15%	cly, ser, (chl), carb	carb f.f. & irreg vnits 1 irreg qtz vnlt; 1 8mm qtz/cpy vnlt 40° C.A.	loc hem stn ser	loc jar stn cly & coatings	loc Fe (cly?)	carb ser cly chl	cly ser (chl) carb				tr cpy tr pyr	(cpy) tr chalc pyr	0	Jar on fractures ends at 19.0 m. Hem stained ser ends at 18.5 m. Carb veinlets have locally dislocated brecciated Guichon. Carb also appears to have remobilized cpy (local blebs in veinlets) Carb is patchy, some places is strong and other places none at all. Qtz veinlet has cpy and chalc. Alteration increases. 0.5% pyr, 0.2-0.5% cpy.
21.0-25.9	Guichon	loc thin < 1 cm 20° C.A.	mod/stng, loc bkn, crush & heal RQD 24%	cly, ser, carb	carb f.f. & vnits, some irreg to 2 cm	loc jar stn cly in crush/heal & gge	loc jar stn cly & coating	loc Fe	ser cly carb chl	cly ser carb				tr cpy tr pyr	(pyr) tr cpy	0	Jar reappears at 21.6-21.7 m and 24.7-25.2 m. Cpy remobilized in carb veinlet as blebs. Intervals and patches of pervasive chl.
25.9-35.7	Guichon fault zone	throughout	mod/stng loc bkn/gge	cly, ser, (chl) carb	carb f.f. & vnits				ser cly chl carb	cly ser (chl) carb						0	Qtz-biotite-diorite. Overall strong alteration.
25.9-29.2	Guichon fault	25.9-27.7 m	mod/stng, loc crush/gge/ bkn, RQD 12%	cly, ser, carb	carb f.f. & vnits to 2 cm & irreg vnits (qtz/pyr vnits <2 mm)	(loc hem stn ser)			carb ser cly chl	cly ser carb				tr pyr tr cpy	(pyr) tr cpy	0	Pyr < 0.5%, cpy < 0.2%. A small amount of cpy remobilized in carb in crush/gouge interval.



ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
29.2-33.0	Guichon		stng/shatt	cly, ser, carb	carb f.f. &	-	-	-	ser	cly	-	-	-	tr pyr	(pyr)	0		0.2-0.5% pyr. Irregular carb veinlets locally vuggy.
~~~~	fault zone	29.6-33.0 m	loc bkn/gge & crush RQD 0%		irreg vnlt & frags (irreg qtz vnlt in carb)				chl cyl carb	ser								
33.0-35.7	Guichon		shatt/bkn	loc cly, ser	carb f.f. &	-	-	-	ser	loc cly	-	-	-	(pyr)	(pyr)			One "rhomb-graben" carb veinlet 20° C.A. showing right lateral movement. One 10 cm section of plagioclase porphyry (same as next interval)
~~~~	Fault zone	33.0-34.8	loc stng, mod crush & gge RQD 7%	chl, carb	vnlt to 0.5 cm qtz/pyr qtz/pyr vnlt				chl cyl (carb)	ser chl carb				(cpy)				chilled bottom contact at 40° C.A. top contact ~ 80° C.A (just nicked a dykelet). 1% pyr, 0.5% cpy. Pervasive pyr > fracture pyr.
35.7-40.6	Porphyry		stng, loc mod RQD 21%	ser, chl, carb	carb f.f. & 0.5 cm & irreg vnlt qtz/pyr vnlt 1 mm	loc hem			ser (cyl) carb	ser carb				(pyr)	(pyr)	0-1		Local irregular carb veinlets brecciated porphyry. lopes on fractures and veinlets. Qtz ± ser alteration envelopes 3-10 mm. 0.5-1% pyr, 0.2% cpy. Fracture pyr > pervasive pyr. Feldspar porphyry. Irregular melt contact w/ Guichon. Feldspars have been sericitized & are green (stand out when core is dry).
40.6-44.2	Porphyry (crowded feldspar?)	loc slip	stng, loc mod shatt & bkn RQD 11%	ser, cly, carb (chl?)	carb f.f. & irreg vnlt (qtz/pyr vnlt < 1 mm)				(bio) carb chl ser cyl (phlog)	ser cyl carb (chl?)				tr cpy tr pyr	(pyr)	0-1		Type of porphyry hard to tell because alteration is quite strong. Crowded Feldspar? porphyry. Bottom and top probably fault contact. HCl quickly starts to bleach core to a brighter green. pervasive cpy > pervasive pyr. Pyr > 0.5%, < 0.2% cpy.
44.2-121.6	Guichon	local intervals	stng, loc mod & bkn 20, 50-60-70° C.A	ser, cly, (chl), carb	carb f.f. & vnlt				tr ep ser chl cyl carb	ser cyl (chl) carb				1% pyr				Qtz-biotite-diorite. Fracture pyr > pervasive pyr. Overall strongly altered with a few less altered intervals. May be interfingering of porphyry (like last interval) but difficult to tell because of alteration. Pervasive chl is an overall wash.
44.2-47.4	Guichon	1 cm at 44.2 m, 3 cm at 46.5 m	stng, loc mod & shatt, loc gge, RQD 8%	cly, ser, carb	carb f.f. & irreg vnlt				carb ser cyl chl (phlog)	cyl ser carb				tr pyr tr cpy	(pyr)	0-1		Qtz and ser envelopes 0.5 cm. 0.2% cpy. >0.5% pyr.
47.4-51.2	Guichon wk fault	48.4-50.0 m	stng, loc bkn loc crush & gge, ckle bx RQD 0%	cly, ser, carb	carb f.f. & irreg vnlt	loc hem stn alb			carb ser cyl chl	cyl ser carb				tr cpy (pyr)	(pyr)	0-1		Qtz and ser alteration envelopes are vague, 3 mm to +1 cm.

ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	Gouge	FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
51.2-54.8	Guichon	loc thin ~ 1 cm, 25° C.A.	stng, loc bkn loc crush/gge RQD 0%	cl, ser, carb	carb f.f. (& vnlt) (qtz/pyr 1 mm)	-	-	-	carb ser cl chl	cl	-	-	-	-	tr cpy (pyr) tr pyr	1	Local chl intervals. >0.5% pyr, 0.2% cpy.	
54.8-58.4	Guichon ~~~~ wk fault	56.7-56.9 m 30° C.A.	mod/stng, loc bkn, RQD 0%	(chl), ser, carb, loc cl	carb f.f. (& vnlt 0.3cm) (qtz/pyr 1-3 mm)	-	-	-	carb chl ser cl	(chl) ser carb loc cl	-	-	-	-	tr cpy (pyr) tr cpy	0-1	One patch of blebby pyr.	
58.4-62.0	Guichon	-	shatt/bkn loc stng RQD 0%	ser, carb	qtz + pyr ± cpy vnlt to 1 cm	-	-	-	(alb) (ep) (ser) chl (carb) tr bio	ser carb	-	-	-	(pyr) tr cpy	pyr	0-1	Drill rounded fragments. Pyr picks up on fractures. Alteration decreasing. Qtz and ser alteration envelopes (more strongly developed) to 1 cm. 2% pyr, 0.2% cpy.	
62.0-65.4	Guichon	-	stng/shatt & bkn, loc mod RQD 6%	ser, carb	(carb f.f.) (qtz & pyr 2 mm)	-	-	-	(alb) (ser) (chl) tr ep (carb) tr bio	ser carb	-	-	-	tr cpy tr pyr	pyr (cpy)	2-3	Local brick red hem spots. 1.5% pyr, 0.2% cpy.	
65.4-69.1	Guichon	loc slip	stng, loc bkn loc mod RQD 0% fract set at 20° C.A.	ser, carb, (chl)	(loc carb f.f. & irreg vnlt)	-	-	-	(carb) (alb) ser (chl) tr ep tr bio tr phlog cl	ser carb (chl)	-	-	-	(pyr) tr cpy	pyr tr cpy	0-1	Local drill rounding. Qtz and pyr veinlets locally crosscutting qtz and ser alteration envelopes 1 cm. Alteration increasing. Alb and ep drops off at approximately 66.8 m	
69.1-72.9	Guichon w/possible intervals of porphyry	-	mod/stng loc bkn RQD 20%	ser, carb (chl)	(carb f.f. & vnlt to 0.5 cm) (qtz & pyr to 3 mm)	-	-	-	tr bio chl ser carb cl tr phlog	ser carb (chl)	-	-	-	tr pyr tr cpy	pyr tr cpy	1	Sil ± ser alteration envelopes 0.5-1.5 cm. 1.5% pyr, 0.2% cpy.	
72.9-77.2	Guichon? ~~~~ fault zone!	72.9-77.7 m	crush & gge loc bkn, loc stng, RQD 0%	cl, ser, carb	carb frags	-	-	-	cl ser chl carb	cl ser carb	-	-	-	(pyr) tr cpy	(pyr)	0-1	Fracture pyr > pervasive pyr.	

ROCK TYPE interval (m)	FAULT GOUGE	STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
		FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric		supergene		primary				
								perv.	fract.	perv.	fract.	perv.	fract.	perv.				fract.
77.2-81.7	Guichon		mod, loc stng & bkn RQD 26%	ser, carb	(carb f.f. & irreg vnits) (qtz/pyr vnits to 2mm) 1 2 cm qtz/ pyr vnlt 45° C.A.				ser chl (carb) (cly) (phlog)	ser carb				(pyr) tr cpy	pyr	0-1	Two cm qtz and pyr veinlet > 60% pyr. Qtz and ser alteration 0.5-1 cm. 0.2-0.5% cpy, >1.5% pyr	
81.7-85.1	Guichon	loc slip	mod/stng, loc shatt/bkn RQD 22%	ser, tr chl carb	(carb f.f. & 2 0.5 cm vnits) (qtz & pyr/ cpy vnits 2-5 mm)				tr carb (chl) (ser) (phlog) tr bio	ser tr chl carb				(pyr) tr cpy	pyr (cpy)	2-3	Discrete pervasive chl. Alteration decreasing. Core looks more siliceous - more of a granodiorite composition? Cpy <0.5%, pyr > 1.5%	
85.1-88.7 ~~~~	Guichon wk fault	86.1-86.4 m	stng, loc shatt & bkn, loc mod RQD 0%	ser, tr chl carb	(carb f.f. & vnits to 0.5 cm) (qtz & pyr ± cpy 2-10mm)				tr alb (chl) (ser) tr ep (phlog)	ser tr chl carb				(pyr) tr cpy	pyr tr cpy	2-3	Mostly discrete pervasive chl, a couple of pervasive chl, and ser intervals. 0.2% cpy, 1.5% pyr. Qtz and ser alteration envelopes 0.5-1.5 cm.	
88.7-92.0	Guichon	loc thin 1 cm	stng/shatt & bkn, RQD 0%	ser, tr chl, carb	(carb f.f.) (qtz & pyr vnits < 2 mm)				(alb) tr carb (chl) tr ser tr bio (phlog)	ser tr chl carb				tr pyr tr cpy	tr mo (pyr)	2-3	One 0.5 cm qtz veinlets with mo on margins and cpy blebs in core.	
92.0-95.8 ~~~~	Guichon fault zone	94.2-95.5 m	stng, loc mod & bkn RQD 5%	ser, carb tr chl	carb f.f. & vnits to 2 mm) (qtz & pyr vnits ± cpy to 2 mm)				(chl) tr ep tr carb tr ser	ser carb tr chl				tr pyr tr cpy	tr mo (cpy) (pyr)	2	Local total sericitization (in fault zone). Trace of mo in qtz and pyr and cpy veinlet. Pervasive pyr and cpy associated with fracture and veinlets.	
95.8-99.4 ~~~~	Guichon wk fault	loc thin 1 cm 99.0-99.2 m	stng, loc bkn & shatt, mod RQD 8%	ser, carb	(carb f.f. & 1 irreg vnlt) qtz/pyr/cpy & chl vnits? or partings?	tr hem stn alb			tr ep (alb) (chl) (ser) tr carb tr bio	ser carb				(pyr) tr cpy	pyr (cpy)	1-2	Cpy increasing. Still have siliceous patches and intervals. 0.5% cpy, 1-1.5% pyr.	
99.4-103.6 ~~~~	Guichon fault zone	101.1- 103.8 m	stng/bkn, loc crush/gge mod, RQD 4% fract set at 30° C.A.	ser, carb loc cly	(carb f.f. & vnits to 3 mm) qtz/pyr vnits to 3 mm				(chl) ser (cly) (carb) tr ep	ser loc cly carb				tr cpy (pyr)	tr mo pyr (cpy)	1	Local crss cutting veinlets. Ser increases to strong ~ 102.1 m. Local moderate fracture controlled cpy. 0.5% cpy, 1-1.5% pyr. Fracture pyr> pervasive pyr.	

ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)	FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
								perv.	fract.		perv	fract	perv	fract			
103.6-107.5	Guichon	loc thin ~ 1 cm	mod, loc stng loc shatt & bkn RQD 21%	ser, carb	qtz/pyr/cpy vnits	-	-	-	(chlr) (carb) tr alb tr ser (phlog) tr bio	ser carb	tr ep chlr?	-	-	tr pyr tr cpy	(pyr) (cpy)	1-2	Fracture cpy ≥ fracture pyr. Pervasive pyr and cpy in envelopes. 0.5-1% cpy, 0.5-1% pyr.
107.5-111.4	Guichon	loc thin 3 cm	mod, loc stng loc bkn RQD 28% fracts 20-70° C.A.	ser, carb (chlr)	1 2mm carb vnlt/ qtz & carb vnlt (qtz vnits to 0.5 cm)	loc hem	-	-	tr carb (chlr) tr alb	ser (chlr) carb	-	-	-	tr pyr tr cpy tr mo	(pyr) (cpy)	2-3	One porphyritic aplite dykelet 3 cm. Trace of mo in carb/qtz veinlets in streaks throughout, cpy in core. Qtz and chlr healed fractures. 1% cpy, 0.5-1% pyr.
111.4-114.9	Guichon fault	113.6- 114.3 m	stng/shatt loc bkn & mod loc gge RQD 7%	ser, tr chlr carb, loc cly	(carb f.f. & irreg vnits) (qtz vnits 3-5 mm) 1 1 cm qtz vnlt	-	-	-	tr carb (chlr) (bio) (ser) (sil?) (phlog)	ser chlr carb loc cly	(chlr?)	-	-	tr cpy tr pyr	cpy (pyr)	2-3	Qtz/chlr healed fracture decreased from last box. < 1% cpy, 0.5% pyr.
114.9-118.9	Guichon wk fault	116.1- 116.4m	mod, loc stng loc shatt/bkn RQD 20% fracts 40-60° C.A.	ser, (chlr)	(carb f.f. 1 2cm carb vnlt 1 3mm qtz vnlt	-	-	-	(alb) (chlr) (bio) tr carb (ser)	ser (chlr)	(chlr?)	-	-	tr cpy tr pyr	(cpy) (pyr)	2-3	Carb in mafics. Cpy > pyr. Qtz and chlr healed fractures. 1% cpy, 0.5% pyr. One chlr alb well healed shear.
118.9-121.6	Guichon	loc thin 1 cm & 2 cm	mod/stng, loc shatt/bkn RQD 17%	ser, chlr, carb loc cly	(qtz vnits 0.3-0.5 cm) (carb f.f.)	-	-	-	tr carb (chlr) tr alb tr ser	ser chlr carb loc cly	(chlr?)	-	-	tr pyr tr cpy	(pyr) (cpy) tr mo	2-3	Local drill rounding. Trace of mo in fractures.
121.6-133.8	Porphyry (Fp-1)	loc thin	mod, loc stng & bkn, fracts at 30-70° C.A.	ser, (chlr) carb	carb f.f. & vnits	-	-	-	(chlr) (ser)	ser (chlr) carb	-	-	-	(pyr) (cpy)	1-2	Qtz-feldspar crowded porphyry. Chilled melt contact with Guichon, almost perpendicular to the core axis. Bottom contact marked by an aplite dykelet. Discrete pervasive chlr. Abundance of qtz/chlr healed fractures, 30-50° C.A. Pyr and cpy in chlr/qtz healed fractures. Overall cpy > pyr	
121.6-126.5	Porphyry Fp-1 wk fault	124.9- 125.1 m	bkn to 125.3 m mod RQD 14%	ser, carb (chlr)	(carb f.f.)	-	-	-	tr carb tr alb (chlr)	ser (chlr) carb	-	-	-	tr pyr tr cpy	(cpy) tr pyr	1-2	Pervasive and fracture cpy > pervasive and fracture pyr. Qtz and ser + chlr alteration envelopes 2-5 mm
126.5-130.3	Porphyry	loc thin 5 cm at 128.4 m	mod/stng, loc shatt/bkn RQD 21%	ser, (chlr) carb	(carb f.f. & vnits to 1 cm) (qtz vnits 3-10 mm)	-	-	-	tr carb chlr ser	ser (chlr) carb	-	-	-	(cpy) tr pyr	tr mo (cpy) (pyr)	0-1	Alteration increasing. Qtz veinlet offset by carb veinlet 3 cm. Pervasive cpy very fine grained. Losing texture because fo increase in alteration.

ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary				
									perv.	fract.	perv	fract	perv	fract			
130.3-134.1	Porphyry Fp-1	-	wk/mod, loc stng, loc bkn RQD 34%	ser, chlr, carb	(carb f.f. & vnlt) 1 3 mm qtz vnlt	-	-	-	(carb) (chl) (ser)	ser chl carb	-	-	tr cpy (cpy) tr pyr		1-2		Approximately 5 aplite dykelets (~ 2 cm). Local patches that look finer grained. Chlr and qtz well healed fractures.
134.1-176.5	Guichon	loc thin	mod, loc stng & bkn	ser, chl, carb	(carb f.f. & vnlt) (qtz to ?)	-	-	-	tr bio (chl) (ser)	ser chl carb	(chl?)	-	0.5% pyr 0.5% cpy		2-3		Qtz-biotite-granodiorite. Overall weak alteration with stronger sections. Local aplite dykelets. One Fp-1 (1 m) dyke.
134.1-140.0	Guichon	loc thin	stng, loc bkn & shatt RQD 0%	ser, (chl) carb	carb f.f. 1 2mm qtz vnlt	-	-	-	(chl) (ser) (carb)	ser (chl) carb	-	-	tr cpy tr pyr tr mo	(cpy) (pyr)	1-2		Local drill rounding. Two aplite dykelets at 2 cm each. One Fp-1 dykelet at +5 cm. Cpy>pyr ≥ 0.5% cpy, <0.2% pyr.
140.0-143.4	Guichon	loc thin 1 cm	stng, loc mod & bkn RQD 0%	ser, chl, carb	(carb f.f. & vnlt) (qtz vnlt to 0.5 cm)	loc hem stn alb	loc hem coating	-	tr ep (chl)	ser chl carb	-	-	tr cpy tr pyr	loc mo (cpy) (pyr)	2		Molybdenite on fractures and in qtz veinlet. One aplite dykelet (cross cut by fracture containing cpy). Hem stain associated with ep.
143.4-147.6	Guichon	loc thin < 1 cm	wk, loc mod loc stng/bkn RQD 45%	ser, (chl) carb	(carb f.f.) qtz vnlt 1-4 mm	-	-	-	(chl) (carb) tr alb (ser)	ser (chl) carb	(chl?)	-	tr pyr tr cpy	tr mo tr pyr (cpy)	2-3		One 2 cm aplite dykelet; mo in qtz veinlets. Two xenoliths 146.7-147.1 m and 2 cm. Pyr < 0.2% and >0.5% cpy. Cpy still fine grained.
147.6-151.6	Guichon	loc thin 5 cm at 148.4 m	mod, loc wk loc stng/bkn RQD 17%	ser, (chl) carb	1 irreg carb vnlt	loc hem stn gge	-	-	(chl) (carb) tr bio tr alb	ser (chl) carb	tr ep (chl?)	-	tr cpy	tr mo (cpy) tr pyr	2		Interval where there is hem stained gouge contains pervasive hem. Locally rimming cpy. Trace of mo in qtz veinlet. Chlr, chl and qtz healed fractures. 0.5% cpy, <0.2% pyr.
151.6-155.6	Guichon wk fault zone	154.1- 154.5 m (bottom 30° C.A.)	wk/mod, loc stng/bkn RQD 22%	loc cly, ser, chl, carb	(carb f.f. & vnlt) 1 3 mm qtz vnlt	loc hem stn alb & ser	-	-	carb chl ser (cly) tr phlog tr bio	loc cly ser chl carb	(chl?)	-	tr cpy tr pyr	(cpy) tr pyr	1		153.8 m alteration increases to pervasive chl, ser carb and cly. Carb in shear/fault zone.
155.6-159.3	Guichon	loc thin < 1 cm	mod/stng, loc wk/bkn RQD 23%	ser, (chl) carb	carb f.f. & vnlt 1 0.5 cm qtz vnlt	-	-	-	(bio) carb (chl) ser	ser (chl) carb	-	-	tr cpy	tr mo (cpy) tr pyr	2		Molybdenite on slip surface. Alteration decreasing strong alteration decreases ~ 157.0 m. One 2 mm aplite dykelet. Qtz veinlets as cpy in core with trace of mo. > 0.5% cpy, <0.2% pyr.
159.3-163.0 (159.7-160.4)	Guichon Fp-1 dykelet	-	stng, loc mod loc bkn	ser, tr chl carb	(carb f.f.) (qtz vnlt < 0.5 cm)	-	-	-	(carb) ser chl (ep) tr cly tr alb tr bio	ser tr chl carb	-	-	(cpy) tr pyr	(cpy) tr pyr	2		Several aplite dykelets 0.5-2.5 cm. 0.5-1% cpy, 0.2% pyr.

ROCK TYPE		STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
163.0-166.0	Porphyry	loc thin 5 cm at 164.4 m 35° C.A.	stog/shatt bkn, bkn RQD 28% 20° C.A.	ser, chl chl (cly)	(carb f.f.) & diffuse qtz & bkn 2.0-3.0 cm qtz vnlt	tr hem stn alb	-	-	ser chl (carb) (sil) tr bio	(ser) chl (carb) carb	-	-	(cpy) (cpy) tr mo tr pyr	(cpy) tr mo tr pyr	001		Microcline bleaching in core of 0.5-1% cpy. with locally vuggy carb matrix. 0.5-1% cpy.	
166.0-200.5	Porphyry	loc thin < 1 cm	stog, loc stog bkn RQD 38%	(ser) chl (carb), carb	(carb f.f.) & diffuse qtz 2.0-3.0 mm	tr hem stn alb	-	-	ser chl (carb) (sil) carb	(ser) chl (carb) (sil) carb	-	-	(cpy) tr pyr (cpy) tr pyr	(cpy) tr pyr (cpy) tr pyr	0		Local drill rounding. Qpy and thin plates of fractures. Microcline bleaching in core of 0.5-1% cpy. One pervasive ser interval. Discrete chl alteration.	
200.5-204.7 170.5-176.5	Porphyry Gneiss	201.7- 201.9 m	mod, loc stg bkn stng & bkn RQD 31%	loc cly, ser (ser) chl carb	(carb f.f.) & diffuse qtz vnlt 2-3 mm (qtz vnlt 3-5 mm)	tr hem stn alb	-	-	ser (chl) (carb) (sil) ser	loc cly ser (chl) carb	-	-	(cpy) tr cpy tr pyr	tr mo (cpy) (cpy)	0 1		Cpy blebs in core of qtz veinlet. Carb in phenocrysts and in qtz veinlet. One thin plate of carb. Carb still predominantly in fractures and chl healed fractures. > 0.5% cpy, < 0.2% pyr.	
204.7-208.7 176.5-297.2	Porphyry Porphyry qtz feldspar	- loc intervals	mod, loc stg bkn RQD 28% 60° C.A.	ser, carb (ser) chl carb, loc cly	(carb f.f.) & (diffuse qtz & irreg vnlt)	tr hem stn ser (alt envs)	-	-	carb (ser) bio (sil) loc cly	ser (chl) chl carb	-	-	(pyr) tr cpy <0.5% cpy tr pyr	(pyr) (cpy)	0		Pyr > cpy. 0.5-1% pyr, 0.5% cpy. Fracture pyr > cpy. Discrete ser alteration of phenocrysts increases with depth but fracture intensity decreases. Diffuse qtz veinlets/qtz alteration envelopes with cpy and chl; probably have some pervasive sil added.	
208.7-212.6 176.5-182.6	Porphyry Porphyry qtz-feldspar fault	- 176.7- 177.3 m 180.1- 180.6 m	mod/stng, loc bkn wk bkn/gge RQD 9%	ser, (chl) sercarb	(carb f.f. & (diffuse qtz 2.0-2.5 cm)	tr hem stn alb	-	-	ser chl chl (carb) (sil?)	ser (chl) carb	-	-	(cpy) (pyr) tr pyr	(cpy) (pyr) (cpy)	0 0		Core quite bleached other than green sericitized plagioclase phenocrysts; mo on fractures. Diffuse qtz veinlets locally cross cutting. 0.2-0.5% cpy. Pervasive cpy fine grained. One irregular qtz + ? carb (fizzes when powdered)	
212.6-216.5	Porphyry	180.6 m	wk/mod, loc shatt/bkn RQD 28% & bkn, RQD 0% fracts 30° C.A.	ser, carb (chl) (ser), tr chl carb	(carb f.f. & irreg vnlt) (diffuse qtz 1-1.5 mm)	(loc hem stn alb)	-	-	ser chl (carb) (chl) (sil?) ser	ser (chl) (ser) tr chl carb	-	-	(cpy) tr pyr tr cpy tr pyr	(cpy) (pyr) tr mo (cpy) tr pyr	0		Local hem stained alb alteration envelopes, bleached phenocrysts. Diffuse qtz veinlets locally cross cutting. Pervasive cpy fine grained. Fracture cpy > fracture pyr. 0.2-0.5% pyr, > 0.5% cpy.	
216.5-219.6	Porphyry qtz-feldspar	loc thin 2.0 m 221.0 m (top at 15° C.A.)	mod, loc stg bkn RQD 28% 50 & 70° C.A.	ser, carb carb	(carb f.f.) & diffuse qtz vnlt (old diffuse qtz shatt?) 1.0-5.0 cm	tr hem stn alb	-	-	ser chl (carb) chl cly	(ser) ser chl carb	-	-	(cpy) (pyr) (cpy) tr mo tr pyr	tr mo (cpy) (pyr)	0		Microcline bleaching in core of 0.5-1% cpy. Fracture cpy > fracture pyr. 0.2-0.5% pyr, > 0.5% cpy.	
189.6-193.2	Porphyry qtz-feldspar	loc slip	stng/shatt & bkn, loc mod	ser, carb	(carb f.f.) & diffuse qtz vnlt 1.0-5.0 cm	(hem stn alb)	-	-	(carb) ser	ser carb	-	-	(cpy) (pyr)	tr mo (cpy)	0		Pervasive discrete ser is patchy. One 1 cm apilite dykelet. Cross cut by diffuse qtz veinlets	
221.0-225.2	Porphyry fault	221.0- 222.4 m (bottom 20° C.A.)	mod, loc stng and bkn RQD 18%	loc cly, ser, chl, carb	vnlt 1.0-5.0 cm diffuse qtz vnlt <0.5 cm)	-	-	(ser) chl chl (cly) (alb)	loc cly ser chl carb	-	-	(cpy) tr pyr (cpy) tr pyr	tr mo (cpy) (pyr)	0-2		Microcline bleaching in core of 0.5-1% cpy. Fracture cpy > fracture pyr. 0.2-0.5% pyr, > 0.5% cpy.		

ROCK TYPE		STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
225.2-228.8	Porphyry	loc thin < 1 cm	mod/stng, loc shatt/bkn RQD 19%	ser, carb (chlr)	(carb f.f. & vnits to 0.5 cm) (diffuse qtz vnit to 0.5 cm)	(loc hem stn alb)	-	-	(alb) (chlr) ser (carb) (bio)	ser (chlr) carb	-	-	-	tr cpy tr pyr	(cpy) (pyr)			Fracture cpy > fracture pyr. >0.5% cpy, 0.2-0.5% pyr. Chlr and qtz well healed fractures.
228.8-232.6	Porphyry	-	mod/stng loc shatt/bkn RQD 11%	ser, tr chl carb	(carb f.f.)	-	-	-	(carb) ser (chlr)	ser tr chl carb	-	-	-	(cpy) tr pyr	(pyr) (cpy)	2-3		Diffuse qtz veinlets are now more like qtz and chl well healed fractures. One 0.5 cm aplite dykelet More pyr on actual fracture surfaces, more ep in chl and qtz healed fractures. >0.5% cpy, 0.5% pyr.
232.6-236.0	Porphyry	loc slip	stng, loc mod shatt/bkn RQD 0%	ser, carb	(carb f.f. & vnits to 0.5 cm)	(loc hem stn alb)	-	-	carb ser chl tr alb	ser carb	-	-	-	tr pyr tr cpy	(cpy) (pyr)	2		Three aplite dykelets 0.3-1 cm. Local weak hem stained alb alteration envelopes. Pyr>0.5% Cpy < 0.5%. Fracture pyr> pervasive pyr. Pervasive pyr and cpy associated with fractures and qtz and chl healed fractures.
236.0-240.1	Porphyry	loc thin < 1 cm	mod, loc wk stng & shatt RQD 24%	(ser) tr chl carb	(carb f.f. & vnits to 1 cm) (qtz & pyr vnits <1 mm)	-	-	-	carb ser chl (cly)	(ser) tr chl carb	-	-	-	tr pyr tr cpy	(cpy) (pyr)	1		Alteration increasing, (pervasive ser, chl and cly ~ 237.3 m) 1 cm carb veinlet contains remobilized blebs of cpy, bleached ser alteration envelopes on qtz and pyr veinlets/healed fractures. Pyr 0.5% cpy > 0.2%. (Cpy > 0.5% with remobilized cp)
240.1-243.6	Porphyry	loc thin < 1 cm	mod, loc wk & stng, shatt & bkn RQD 42%	(ser) tr chl carb	(carb f.f. & irreg vnits) qtz & pyr ± cpy vnits < 2 mm	-	-	-	ser chl (cly) (carb)	(ser) tr chl carb	-	-	-	tr pyr tr cpy tr mo	(pyr) (cpy)	0-1		Siliceous alteration envelopes on qtz and pyr ± cpy veinlets 1 - 2 cm. Cpy blebs in carb veinlet. Pyr 0.5-1%, cpy 0.5%. Pyr > cpy. mo with ep in sil alteration envelope. One 2 mm chl fracture filling "veinlet".
243.6-247.5	Porphyry	loc thin 1 cm 65° C.A.	mod/stng, loc wk, loc shatt & bkn, RQD 15%	ser, tr chl (carb)	qtz ± pyr ± cpy vnits < 2 mm	(loc hem stn alb)	-	-	(carb) ser chl tr cly	ser tr chl (carb)	-	-	-	tr pyr tr cpy	(cpy) (pyr)	0-1		Numerous aplite/aplite porphyry dykelets, 3-70 cm (244.9-245.6 m). Locally overprinted by chl with bleached or siliceous alteration envelopes. Sil alteration envelopes on qtz ± pyr ± cpy veinlets 3 mm-> 2 cm. Most of pervasive pyr in sil altera- tion envelope. Pyr>>cpy. cpy >0.2%, pyr0.5-1%
247.5-251.4	Porphyry	-	mod/stng, loc shatt/bkn loc crush & heal, RQD 20%	ser, tr chl (carb)	qtz + pyr vnits < 2 mm	(loc hem stn alb)	-	-	(carb) ser chl	ser (carb) tr chl	-	-	-	tr pyr tr cpy	(pyr)	0-1		Most of fractures have no carbon them. Siliceous alteration envelopes 0.5-1.5 cm. Several aplite dykelets 2-20 cm. cpy < 0.2%, pyr 0.5-1%.
251.4-255.0	Porphyry	loc slip	mod/stng, loc shatt/bkn RQD 19%	ser, tr chl carb	(qtz & pyr vnits < 2mm)	(loc hem stn alb)	-	-	ser (chl) (carb)	ser tr chl carb	-	-	-	tr pyr	(pyr)	0-1		Two aplite dykelets 1 and 2 cm. Weak hem stained alb alteration envelopes. Qtz ± ser alteration envelopes. 3 m - 2 cm. 0.5-1% pyr.

ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary					
								perv.	fract.		perv	fract	perv	fract				
255.0-259.1	Porphyry	loc thin < 1 cm	stng, loc mod shatt/bkn	ser, carb tr chlr	carb f.f. (& vnlt to 3 mm) (qtz & pyr < 1 mm)	-	-	-	(ep) (carb) chl ser tr alb tr bio	ser carb tr chlr	-	-	tr pyr tr cpy	(pyr) tr cpy	0-1		Cpy picking up at end of box in carb veinlet/heaed shear. Cpy < 0.2%, pyr 0.5-1%.	
259.1-263.2	Porphyry wk fault	261.2- 261.5 m 40° C.A.	wk/mod, loc crush & gge. RQD 52%	(ser) (carb) loc cly	(carb f.f. & irreg vnlt) (qtz + pyr ± cpy vnlt 1-5 mm)	-	-	-	(carb) ser chl tr cly	(ser) (carb) loc cly	-	-	tr pyr	(pyr) (cpy)	0-1		Carb veinlets are vuggy and contain fine grained hem. 261.3-262.0 m apite dykelet overprinted by ser and chl. Remobilized cpy blebs. Qtz and pyr ± cpy veinlets 20-30° C.A. Croiss cut by carb veinlets with cpy. Cpy 0.5-1%, pyr 0.5-1%, start of apite looks very siliceous; possibly a shear/qtz veinlet with cpy?	
263.2-267.1	Porphyry	loc thin < 1 cm 20° C.A.	mod, loc wk loc stng/bkn RQD 27% fracts at 30 & 60° C.A.	ser, (chl) (carb)	(carb f.f. & 2 0.5 cm & vnlt) (qtz & pyr vnlt 1-5 mm)	(loc hem stn alb)	-	-	(carb) ser chl	(chl) (carb) ser	-	-	tr pyr	(pyr) (cpy)	0-1		One 3 mm apite dykelet. Local weak hem stained alb alteration envelopes. Sil ± ser alteration envelopes. 0.5-3 cm	
267.1-270.9	Porphyry	2.5 cm ~ 10° C.A. 267.2- 267.9 m	mod/stng, loc shatt, loc crush & gge RQD 13%	ser, loc cly carb	(carb f.f.) (qtz & pyr 1 mm)	(hem stn alb)	-	-	carb ser chl tr cly	ser loc cly carb	-	-	tr pyr tr cpy	(pyr) (cpy)	0-1		Several chl and ser alteration apite dykelets 1.5-5 cm. 2.5 cm fault looks like it followed along a qtz and cpy veinlet with carb fracture filling and crushed the veinlet. 267.2-267.9 m >5% cpy. Cpy < 1%, pyr 0.5-1%.	
270.9-274.8	Porphyry	loc thin < 1 cm 20° C.A.	mod/stng, loc shatt/bkn	ser, carb (chl) (loc cly)	carb f.f. (qtz & pyr < 2 mm)	(loc hem stn alb)	-	-	ser carb tr cly chl	ser (chl) carb (loc cly)	-	-	tr pyr	tr mo (pyr)	0-1		Trace of mo on slip surface. Qtz ± ser alteration envelopes 0.5-3 cm. Local weak hem stained alb. One broken (ckled) qtz veinlet, carb fracture filling, cpy blebs (20° C.A.). Cpy > 0.2%, pyr > 0.5%.	
274.8-278.6	Porphyry	loc slip	mod/stng, loc shatt/bkn RQD 0%	carb, ser	(carb f.f.) (qtz & pyr 1 mm)	tr hem alb	-	-	ser (chl) carb tr alb	ser carb	-	-	tr pyr	tr mo (pyr) tr cpy	0-1		Qtz ± ser alteration envelopes 3 mm-1 cm. Pyr 0.5%, cpy < 0.2%	
278.6-282.4	Porphyry	loc thin < 1 cm 30° C.A.	mod, loc stng shatt & bkn RQD 19%	ser, carb	(carb f.f.) (qtz & pyr vnlt 1 mm) 1 2 cm irreg qtz vnlt	-	-	-	(ser) tr chl (carb) tr alb	ser carb	tr ep (chl?)	-	-	tr pyr	(pyr)	0-1		Alteration decreasing (locally Fp-1 "tombstone") Sil ± ser alteration envelopes to 1 cm. One 2 cm chl band associated with qtz veinlet with pervasive pyr blebs. Core locally bleached and pitted. 0.2-0.5% pyr.
282.4-286.3	Porphyry	loc thin < 1 cm	mod, loc stng, loc shatt/bkn RQD 31%	ser, carb (chl)	(carb f.f.)	-	-	-	(ser) tr chl (carb)	ser (chl) carb	chl?	-	-	tr pyr	(pyr)	2		Overall tombstone Fp-1. Chl and qtz healed fractures with pyr.



ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
								perv.	fract.		perv	fract	perv	fract			
286.3-289.9	Porphyry	loc thin < 1 cm 15° C.A.	mod, loc stng & bkn RQD 31%	ser, tr chl carb	(carb f.f.) (qtz & pyr & chl vnlt to 0.5 cm)	(loc hem stn alb)	hem stn cly in gge	ser (chl)	ser tr chl carb	-	-	-	tr pyr tr cpy	(pyr)	1-2		0.5% pyr. Porphyry around fault zone contains very green ser and contains pervasive red hem and a few blebs of cpy. Qtz and ser alteration envelopes, 1 cm.
289.9-293.9	Porphyry	loc thin < 1 cm 55° C.A. (along a 4 cm carb healed shear?)	wk/mod, loc stng RQD 47%	ser, carb (chl)	(carb f.f.) 1 0.5 cm vnlt & healed shear) (qtz & pyr & chl vnlt <3 mm)	(loc hem stn alb)	-	(carb) ser chl	ser (chl) carb	-	-	-	tr pyr	(pyr)	1-2		One 0.5 cm apite dykelet. Qtz and ser alteration envelopes 0.5-1 cm.
293.9-297.2	Porphyry	-	mod, loc stng RQD 34%	ser, (chl) (carb)	(carb f.f.)	-	-	(ser) tr chl (carb) (bio) (alb)	ser (chl) (carb)	tr ep	-	-	tr pyr	(pyr)	2		One 2.5 cm apite dykelet. >0.2% pyr.
EOH 297.2 m																	

Northing:		DDH 96-12				Azimuth: 045			
Easting:		Elevation:				Inclination: -80			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
31606	14.9	16.4	0.03	-					Guichon:
31607	16.4	17.9	0.04	-					fault (70 cm)
31608	17.9	19.4	0.40	-					wk fault (20 cm)
31609	19.4	20.9	0.09	-					"
31610	20.9	22.4	0.05	-	0.1	<.01	5	<.001	wk fault (20 cm)
31611	22.4	23.9	0.04	-					"
31612	23.9	25.4	0.07	-					"
31613	25.4	26.9	0.12	-					fault (1.8 m)
31614	26.9	28.4	0.07	-					"
31615	28.4	29.9	0.08	-					"
31616	29.9	31.4	0.07	-					fault zone (3.6 m)
31617	31.4	32.9	0.11	-					"
31618	32.9	34.4	0.20	-					fault zone (1.8 m)
31619	34.4	35.9	0.17	-					Porphyry Feldspar
31620	35.9	37.4	0.11	-	0.1	<.01	5	<.001	"
31621	37.4	38.9	0.12	-					"
31622	38.9	40.4	0.06	-					"
31623	40.4	41.9	0.14	-					Porphyry:
31624	41.9	43.4	0.13	-					(crowded feldspar?)
31625	43.4	44.9	0.10	-					Guichon:
31626	44.9	46.4	0.12	-					"
31627	46.4	47.9	0.11	-					"
31628	47.9	49.4	0.09	-					wk fault (20 cm)
31629	49.4	50.9	0.14	-					"
31630	50.9	52.4	0.13	-	0.1	<.01	5	0.001	"
31631	52.4	53.9	0.10	-					"
31632	53.9	55.4	0.11	-					"
31633	55.4	56.9	0.09	-					"
31634	56.9	58.4	0.09	-					"
31635	58.4	59.9	0.10	-					"
31636	59.9	61.4	0.10	-					"
31637	61.4	62.9	0.11	-					"
31638	62.9	64.4	0.12	-					"
31639	64.4	65.9	0.10	-					"
31640	65.9	67.4	0.11	-	0.1	<.01	5	0.003	"
31641	67.4	68.9	0.13	-					"
31642	68.9	70.4	0.09	-					"
31643	70.4	71.9	0.08	-					"
31644	71.9	73.4	0.13	-					fault zone (4.8 m)
31645	73.4	74.9	0.13	-					"
31646	74.9	76.4	0.11	-					"
31647	76.4	77.9	0.13	-					"
31648	77.9	79.4	0.10	-					"
31649	79.4	80.9	0.08	-					"
31650	80.9	82.4	0.08	-	0.1	<.01	5	0.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
31651	82.4	83.9	0.07	-					Guichon:
31652	83.9	85.4	0.10	-					"
31653	85.4	86.9	0.09	-					wk fault (30 cm)
31654	86.9	88.4	0.12	-					"
31655	88.4	89.9	0.14	-					"
31656	89.9	91.4	0.21	-					"
31657	91.4	92.9	0.11	-					"
31658	92.9	94.4	0.14	-					fault zone (1.3 m)
31659	94.4	95.9	0.19	-					"
31660	95.9	97.4	0.16	-	0.1	<.01	5	0.002	"
31661	97.4	98.9	0.36	-					"
31662	98.9	100.4	0.21	-					wk fault (20 cm)
31663	100.4	101.9	0.34	-					"
31664	101.9	103.4	0.68	-					wk fault (2.7 m)
31665	103.4	104.9	0.36	-					"
31666	104.9	106.4	0.55	-					"
31667	106.4	107.9	0.35	-					"
31668	107.9	109.4	0.56	-					"
31669	109.4	110.9	0.35	-					"
31670	110.9	112.4	0.36	-	0.1	<.01	5	0.002	"
31671	112.4	113.9	0.36	-					"
31672	113.9	115.4	0.43	-					fault (70 cm)
31673	115.4	116.9	0.54	-					wk fault (30 cm)
31674	116.9	118.4	0.36	-					"
31675	118.4	119.9	0.29	-					"
31676	119.9	121.4	0.43	-					"
31677	121.4	122.9	0.42	-					Porphyry Fp-1:
31678	122.9	124.4	0.45	-					"
31679	124.4	125.9	0.59	-					wk fault (20 cm)
31680	125.9	127.4	0.62	-	0.1	<.01	5	0.006	"
31681	127.4	128.9	0.66	-					"
31682	128.9	130.4	0.55	-					"
31683	130.4	131.9	0.39	-					"
31684	131.9	133.4	0.32	-					"
31685	133.4	134.9	0.54	-					"
31686	134.9	136.4	0.74	-					Guichon:
31687	136.4	137.9	0.12	-					"
31688	137.9	139.4	0.39	-					"
31689	139.4	140.9	0.37	-					"
31690	140.9	142.4	0.39	-	0.1	<.01	5	0.008	"
31691	142.4	143.9	0.55	-					"
31692	143.9	145.4	0.42	-					"
31693	145.4	146.9	0.40	-					"
31694	146.9	148.4	0.58	-					"
31695	148.4	149.9	0.49	-					"
31696	149.9	151.4	0.42	-					"
31697	151.4	152.9	0.56	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
31698	152.9	154.4	0.43	-					<b>Guichon:</b>
31699	154.4	155.9	0.51	-					wk fault zone (40 cm)
31700	155.9	157.4	0.61	-	0.1	<.01	5	0.004	"
31701	157.4	158.9	0.44	-					"
31702	158.9	160.4	0.51	-					Fp-1 dykelet (70 cm)
31703	160.4	161.9	0.53	-					"
31704	161.9	163.4	0.42	-					"
31705	163.4	164.9	0.45	-					"
31706	164.9	166.4	0.52	-					"
31707	166.4	167.9	0.40	-					"
31708	167.9	169.4	0.27	-					"
31709	169.4	170.9	0.50	-					"
31710	170.9	172.4	0.45	-	0.1	<.01	5	0.005	"
31711	172.4	173.9	0.50	-					"
31712	173.9	175.4	0.43	-					"
31713	175.4	176.9	0.47	-					<b>Porphyry qtz/felds:</b>
31714	176.9	178.4	0.32	-					fault (60 cm)
31715	178.4	179.9	0.34	-					"
31716	179.9	181.4	0.45	-					fault (50 cm)
31717	181.4	182.9	0.24	-					"
31718	182.9	184.4	0.28	-					"
31719	184.4	185.9	0.29	-					"
31720	185.9	187.4	0.31	-	0.1	<.01	5	0.005	"
31721	187.4	188.9	0.30	-					"
31722	188.9	190.4	0.30	-					<b>Porphyry:</b>
31723	190.4	191.9	0.35	-					"
31724	191.9	193.4	0.30	-					"
31725	193.4	194.9	0.20	-					"
31726	194.9	196.4	0.21	-					"
31727	196.4	197.9	0.17	-					"
31728	197.9	199.4	0.31	-					"
31729	199.4	200.9	0.19	-					"
31730	200.9	202.4	0.29	-	0.1	<.01	*	0.004	wk fault (20 cm)
31731	202.4	203.9	0.28	-					"
31732	203.9	205.4	0.32	-					"
31733	205.4	206.9	0.23	-					"
31734	206.9	208.4	0.30	-					"
31735	208.4	209.9	0.37	-					"
31736	209.9	211.4	0.20	-					"
31737	211.4	212.9	0.22	-					"
31738	212.9	214.4	0.22	-					"
31739	214.4	215.9	0.18	-					"
31740	215.9	217.4	0.20	-	0.1	<.01	*	0.002	"
31741	217.4	218.9	0.18	-					fault (3.3 m)
31742	218.9	220.4	0.22	-					"
31743	220.4	221.9	0.35	-					fault (1.4 m)
31744	221.9	223.4	0.49	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
31745	223.4	224.9	0.13	-					Porphyry:
31746	224.9	226.4	0.19	-					"
31747	226.4	227.9	0.32	-					"
31748	227.9	229.4	0.19	-					"
31749	229.4	230.9	0.10	-					"
31750	230.9	232.4	0.31	-	0.1	<.01	*	0.001	"
31751	232.4	233.9	0.20	-					"
31752	233.9	235.4	0.09	-					"
31753	235.4	236.9	0.12	-					"
31754	236.9	238.4	0.18	-					"
31755	238.4	239.9	0.13	-					"
31756	239.9	241.4	0.16	-					"
31757	241.4	242.9	0.13	-					"
31758	242.9	244.4	0.17	-					"
31759	244.4	245.9	0.11	-					"
31760	245.9	247.4	0.18	-	0.1	<.01	*	0.001	"
31761	247.4	248.9	0.10	-					"
31762	248.9	250.4	0.10	-					"
31763	250.4	251.9	0.08	-					"
31764	251.9	253.4	0.06	-					"
31765	253.4	254.9	0.06	-					"
31766	254.9	256.4	0.04	-					"
31767	256.4	257.9	0.04	-					"
31768	257.9	259.4	0.26	-					"
31769	259.4	260.9	0.31	-					"
31770	260.9	262.4	0.40	-	0.1	<.01	*	0.001	wk fault (30 cm)
31771	262.4	263.9	0.14	-					"
31772	263.9	265.4	0.05	-					"
31773	265.4	266.9	0.21	-					"
31774	266.9	268.4	1.21	-					"
31775	268.4	269.9	0.02	-					"
31776	269.9	271.4	0.02	-					"
31777	271.4	272.9	0.14	-					"
31778	272.9	274.4	0.11	-					"
31779	274.4	275.9	0.03	-					"
31780	275.9	277.4	0.03	-	0.1	<.01	*	<.001	"
31781	277.4	278.9	0.05	-					"
31782	278.9	280.4	0.02	-					"
31783	280.4	281.9	0.02	-					"
31784	281.9	283.4	0.04	-					"
31785	283.4	284.9	0.03	-					"
31786	284.9	286.4	0.03	-					"
31787	286.4	287.9	0.03	-					"
31788	287.9	289.4	0.03	-					"
31789	289.4	290.9	0.04	-	0.1	<.01	*	<.001	"
31790	290.9	292.4	0.03	-					"
31791	292.4	293.9	0.04	-					"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	from	to			(g/t)	(oz/t)	(ppb)		
31792	293.9	295.4	0.04	-					Porphyry:
31793	295.4	296.9	0.02	-	*last composite 8 samples				"
<b>end of hole</b>									

**Diamond Drill Log**

<b>Project:</b>	Getty North Property	<b>Location:</b>	1 = background/fresh	4 = strong	<b>Core:</b>	HQ	<b>Azimuth</b>	
<b>Hole #:</b>	96-13	<b>Northing:</b>	2 = weak	5 = intense			<b>Dip</b>	
<b>Date:</b>	5-Apr-96	<b>Easting:</b>	3 = moderate				<b>Collar</b>	087
<b>Logged by:</b>	VN	<b>Elevation:</b>						-45

Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

Depth (m)		Description	%Py	%Cpy	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays							
From	To													Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
0	4.6	Casing, Overburden												31801	16.8	19.8	0.01	0.01	-	-	-
														31802	19.8	21.3	0.03	0.03	-	-	-
4.6	16.8	Casing, 5% Recovery. Tertiary Volcanics and Hbde-Bio-Qtz Diorite. Guichon boulders												31803	21.3	23.5	0.02	0.02	-	-	-
														31804	23.5	24.7	0.03	0.02	-	-	-
														31805	24.7	25.3	0.03	0.02	-	-	-
16.8	24.7	Bio-hornblende needle; feldspar porphyry (probably D4) Feldspar phenos 1-5 mm. Fine grained pink groundmass probably Fe stained. Casing to 18.3 m.	-1	-1	-1	-1	-1	2	2	2	-1	0	2	31806	25.3	26.2	0.02	0.02	-	-	-
														31807	26.2	27.7	0.03	0.02	-	-	-
														31808	27.7	29.6	0.03	0.02	-	-	-
														31809	29.6	30.8	0.02	0.01	-	-	-
24.7	93.0	Fault Zone. Hbde-bio-qtz Diorite. Guichon with bio-hbde-feldspar crowded porphyry (probably D4); finer grained than D4 interval above and slightly more mafic, from 30.8-33.5 m. Most of interval is crushed/milled and brecciated. First non-Sx Cu appears at ~ 51.0 m (chrys) as fracture coatings. Weak to moderate Fe-Ox staining and fracture coating. Significant drill rounding and core loss from 65.5-85.3 m (~ 50%). Weak qtz veinlets 3-4 per metre, ~ 1 cm, usually broken. Chl after bio. Hem after mag. Weak Mn dendrites and Mn-Cu spots on fractures. Weak green Cu stained ser/clay 89.6-93.0 m. End of main shear zone.	-1	-1	-1	-1	2	3	2	3	4	0	2	31810	30.8	32.6	0.02	0.02	-	-	-
														31811	32.6	34.7	0.05	0.02	-	-	-
														31812	34.7	36.3	0.11	0.06	-	-	-
														31813	36.3	37.8	0.07	0.05	-	-	-
														31814	37.8	39.3	0.09	0.05	-	-	-
														31815	39.3	40.8	0.15	0.07	-	-	-
														31816	40.8	42.7	0.15	0.12	-	-	-
														31817	42.7	43.9	0.11	0.09	-	-	-
														31818	43.9	45.4	0.14	0.09	-	-	-
														31819	45.4	47.2	0.19	0.11	-	-	-
														31820	47.2	48.8	0.20	0.10	-	-	-
														31821	48.8	50.3	0.42	0.06	-	-	-
														31822	50.3	51.8	0.40	0.31	-	-	-
														31823	51.8	53.3	0.49	0.41	-	-	-
														31824	53.3	54.9	0.66	0.61	-	-	-
														31825	54.9	56.1	0.61	0.54	-	-	-
														31826	56.1	57.9	0.29	0.26	-	-	-
														31827	57.9	59.4	0.37	0.34	-	-	-
														31828	59.4	61.0	0.43	0.32	-	-	-
														31829	61.0	62.5	0.41	0.32	-	-	-

Depth (m)		Description	%Py	%Cpy	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
93.0	120.4	Granodiorite after bio-qtz-diorite. Guichon/Hybrid. Locally mafic-rich, fine grained otherwise medium grained. Crackle/dislocation breccia (autobreccia), locally with rounded clasts, some open spaces. Chrys stronger, as veinlets (1-2 mm), fracture and void filling. Moderate to strong Fe-Ox staining and fracture coating. Weak qtz veinlets 3-4 per metre, 0.5-1.5 cm ~ 45° C.A. Chl after bio, NCu subordinate on fractures and with chrys. Possible tenorite with chrys.	-1	-1	-1	-1	2	4	2	3	4	0	4	31830	62.5	64.0	0.42	0.37	-	-	-
														31831	64.0	65.5	0.56	0.52	-	-	-
														31832	65.5	67.1	0.49	0.47	-	-	-
														31833	67.1	68.5	0.40	0.33	-	-	-
														31834	68.5	70.1	0.43	0.41	-	-	-
														31835	70.1	71.6	0.37	0.35	-	-	-
														31836	71.6	73.2	0.38	0.34	-	-	-
														31837	73.2	75.0	0.75	0.75	-	-	-
														31838	75.0	75.9	0.75	0.70	-	-	-
														31839	75.9	77.0	0.52	0.45	-	-	-
														31840	77.0	78.9	0.53	0.40	-	-	-
120.4	144.8	Granodiorite after bio-qtz-diorite. Guichon/Hybrid. Locally mafic-rich and fine grained. Crackle breccia, local weak carb = qtz healed. Increasingly competent with depth. Some open spaces in breccia. Chrys decreasing with depth. Weak to moderate Fe-Ox fracture coatings (probably ex-py) and in breccia matrix. Weak qtz veinlets 1-2 per metre, 0.5-2 cm, ~ 45° C.A. Stronger NCu on fractures, locally strong dendritic. Chrys with tenorite? in fractures. Mafics completely chloritized; chl after bio. End of oxide zone. Shear with gouge at 30° C.A. at 143.4 m (~ 5 cm gouge)	-1	-1	-1	-1	2	4	2	4	3	20	3	31841	78.9	80.0	0.51	0.46	-	-	-
														31842	80.0	81.1	0.59	0.80	-	-	-
														31843	81.1	82.6	0.54	0.46	-	-	-
														31844	82.6	83.8	0.31	0.22	-	-	-
														31845	83.8	85.3	0.44	0.37	-	-	-
														31846	85.3	86.9	0.66	0.58	-	-	-
														31847	86.9	88.1	0.66	0.52	-	-	-
														31848	88.1	89.6	0.88	0.82	-	-	-
														31849	89.6	91.4	0.77	0.71	-	-	-
														31850	91.4	93.0	0.69	0.65	-	-	-
														31851	93.0	94.5	0.96	0.89	-	-	-
														31852	94.5	96.0	0.66	0.54	-	-	-
														31853	96.0	97.5	0.79	0.65	-	-	-
144.8	157.0	Bio-qtz-diorite. Guichon/Hybrid. Locally mafic rich and fine grained. Crackle breccia/shattered, locally crushed. Very fine grained py and cpy disseminated on fractures and weakly disseminated pervasively replacing mafics. Patchy ep and chl clots, ep as fracture filling and disseminated. Fracture py> pervasive py. Mafics completely chloritized. Chl after bio.	1.5	0.5	tr	tr	1	4	3	4	3	3	-1	31854	97.5	99.1	1.17	1.16	-	-	-
														31855	99.1	100.5	0.82	0.73	-	-	-
														31856	100.5	102.1	0.71	0.63	-	-	-
														31857	102.1	103.6	0.72	0.64	-	-	-
														31858	103.6	105.1	0.59	0.52	-	-	-
														31859	105.1	106.7	0.76	0.68	-	-	-
														31860	106.7	108.2	1.34	1.34	-	-	-
														31861	108.2	109.7	0.96	0.89	-	-	-
														31862	109.7	111.3	0.52	0.43	-	-	-
														31863	111.3	112.7	0.37	0.17	-	-	-
														31864	112.7	114.3	0.48	0.20	-	-	-
														31865	114.3	115.8	0.43	0.24	-	-	-



Depth (m)		Description	%Py	%Cpy	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD	Ox	Sample Number	Interval (m)		% Cu Total	% Cu Non-Sx	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
157.0	190.5	Granodiorite after bio-qtz-diorite. <u>Guichon/Hybrid</u> locally mafic rich and fine grained. <u>Fault Zone</u> with competent section 177.6-184.0 m. Fe-Ox on fractures 177.0-184.0 m. Crushed/milled sections with rounded clasts, locally crackle to dislocation breccia. Strong shear (probably reactivated) with abundant qtz vein fragments (184.0-189.0 m) and blebby, remobilized cpy and subordinate cpy on fractures. Few blebs of remobilized cpy. Shear with 1-3 cm clay gouge at 177.0, 184.5, 188.5 and 190.0 m, all at 30° C.A. Sense of slip is vertical not lateral. Trace disseminated ep. Mafics completely chl/clay altered. Chl after bio. Fracture py > pervasive py. Patchy secondary bio.	1.5	0.5	-1	tr	1	4	3	4	4	3	-1	31866	115.8	117.5	0.52	0.38	-	-	-
														31867	117.5	118.9	1.47	1.17	-	-	-
														31868	118.9	120.4	1.05	0.85	-	-	-
														31869	120.4	121.9	1.04	0.90	-	-	-
														31870	121.9	123.4	1.10	1.01	-	-	-
														31871	123.4	124.9	0.94	0.79	-	-	-
														31872	124.9	126.5	0.91	0.83	-	-	-
														31873	126.5	128.0	1.10	1.01	-	-	-
														31874	128.0	129.5	0.86	0.68	-	-	-
														31875	129.5	131.6	0.84	0.54	-	-	-
														31876	131.6	132.6	0.80	0.65	-	-	-
														31877	132.6	134.1	0.67	0.57	-	-	-
														31878	134.1	135.6	0.49	0.37	-	-	-
														31879	135.6	137.2	0.83	0.42	-	-	-
														31880	137.2	138.7	0.41	0.29	-	-	-
190.5	210.3	Bio-qtz-diorite. <u>Guichon/Hybrid</u> , locally mafic-rich & fine grained. Bethlehem Quartz diorite with aplite dykelets 192.0-194.5 m. Dykelets are brecciated with open spaces and crosscut by py veinlets 0.5-1 mm with 0.5-1 cm bleached envelopes. Several other aplites 5-12 cm, pink, porphyritic, cut Guichon; all at 40-50° C.A. Moderate to strong fracturing, local crackle breccia with open spaces. Numerous irregular carb veinlets and fracture filling 1-5 mm, vuggy. Numerous crosscutting qtz + py ± carb ± cpy veinlets. 0.5-3 mm; py is frequently beaded or disseminated within the veinlet. Fracture py > > pervasive py. Ep disseminated around fractures and veinlets. Fracture sets at 30-60° C.A. Earthy hem locally on fractures. MoS <sub>2</sub> on slips.	1.5	0.2	-1	tr	2	2	3	3	2	7	-1	31881	138.7	140.2	0.67	0.44	-	-	-
														31882	140.2	141.7	0.35	0.09	-	-	-
														31883	141.7	143.2	0.70	0.16	-	-	-
														31884	143.2	144.8	1.84	0.09	-	-	-
														31885	144.8	146.3	3.54	-	0.003	5	0.1
														31886	146.3	147.8	2.33	-	0.003	5	0.1
														31887	147.8	149.3	1.49	-	0.003	5	0.1
														31888	149.3	150.9	0.89	-	0.003	5	0.1
														31889	150.9	152.4	1.04	-	0.003	5	0.1
														31890	152.4	153.9	0.78	-	0.003	5	0.1
														31891	153.9	155.4	0.47	-	0.003	5	0.1
														31892	155.4	157.0	0.42	-	0.003	5	0.1
														31893	157.0	158.8	0.37	-	0.003	5	0.1
														31894	158.8	160.0	0.63	-	0.003	5	0.1
														31895	160.0	161.5	0.58	-	0.003	5	0.1
														31896	161.5	163.1	0.37	-	0.003	5	0.1
														31897	163.1	164.6	0.29	-	0.003	5	0.1
														31898	164.6	166.1	0.36	-	0.003	5	0.1
														31899	166.1	169.2	0.91	-	0.003	5	0.1
														31900	169.2	170.7	0.51	-	0.003	5	0.1
														31901	170.7	172.2	1.19	-	0.003	5	0.1

Depth (m)	Description	%Py	%Cp	%Ba	%Mol	QV	Ser	Ca	Chl	Clay	RQD	OX	Sample Number	Interval (m)	%Cu	Total Non Sulf	%Mo	Au (ppb)	Ag (g/l)
From	To													From	To				
210.3	230.1	1	0.2	-1	-1	1	2	2	3	2	1	1	31902	174.9	0.19	-	0.003	5	0.1
													31903	174.9	0.10	-	0.003	5	0.1
													31904	176.5	0.15	-	0.003	5	0.1
													31905	178.3	0.10	-	0.002	5	0.1
													31906	179.8	0.10	-	0.002	5	0.1
													31907	181.3	0.09	-	0.002	5	0.1
													31908	182.9	0.69	-	0.002	5	0.1
													31909	184.4	1.47	-	0.002	5	0.1
													31910	185.9	0.47	-	0.002	5	0.1
													31911	187.4	0.92	-	0.002	5	0.1
													31912	189.0	0.43	-	0.002	5	0.1
													31913	190.5	0.39	-	0.002	5	0.1
													31914	192.0	0.09	-	0.002	5	0.1
													31915	193.5	0.11	-	0.001	5	0.1
													31916	195.1	0.08	-	0.001	5	0.1
													31917	196.6	0.10	-	0.001	5	0.1
													31918	197.8	0.10	-	0.001	5	0.1
													31919	199.0	0.12	-	0.001	5	0.1
													31920	200.5	0.17	-	0.001	5	0.1
													31921	202.4	0.29	-	0.001	5	0.1
													31922	204.5	0.21	-	0.001	5	0.1
													31923	205.7	0.10	-	0.001	5	0.1
													31924	207.2	0.09	-	0.001	5	0.1
													31925	208.8	0.07	-	0.003	5	0.1
													31926	210.3	0.08	-	0.003	5	0.1
													31927	211.8	0.06	-	0.003	5	0.1
													31928	213.3	0.09	-	0.003	5	0.1
													31929	214.6	0.10	-	0.003	5	0.1
													31930	216.1	0.12	-	0.003	5	0.1
													31931	217.6	0.12	-	0.003	5	0.1
													31932	219.6	0.08	-	0.003	5	0.1
													31933	220.8	0.09	-	0.003	5	0.1
													31934	222.3	0.09	-	0.003	5	0.1
													31935	224.0	0.10	-	0.001	5	0.1
													31936	225.5	0.07	-	0.001	5	0.1
													31937	227.1	0.05	-	0.001	5	0.1

EOH: 230.1 m

fractured, local crackle breccia with open spaces  
 & drusy calcite. Clay gouge ~ 3 cm, 218.0 m, at  
 100 C/A. Weak Fault Zone 225.5-210.1 m with  
 several sections of clay gouge 3-5 cm and intense  
 pervasive chi-sericite-carb alteration (deep green)  
 Fracture sets at 40-60° C/A. Strong sericite-chl  
 fracture filling. Numerous irregular, crosscutting  
 carb veinlets < 5 mm. Patchy secondary bio.

Depth (m)		Description	%Py	%Cp	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
From	To														From	To						
		continued Assay information												31938	227.1	228.6	0.05	-	0.001	5	0.1	
														31939	228.6	230.1	0.06	-	*last composite only 5 samples			

Diamond Drill Log																					
Project:		Getty North Property		Location:		1 = background/fresh		4 = strong		Core:		HQ		Azimuth		Dip					
Hole #:		96-14		Northing:		2 = weak		5 = intense		Collar		088		-65							
Date:		9-Apr-96		Easting:		3 = moderate		-1 = no data													
Logged by:		VN, DB		Elevation:		Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.															
													Assays								
Depth (m)		Description	%Py	%Cl	%Bo	%Al	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
0	19.8	Overburden; Tertiary Volcanic fragments, volcanic ash ~ 15.2-19.8 m	-	-	-	-	-	-	-	-	5	-	-	31940	19.8	20.7	0.01	<.01	-	-	-
														31941	20.7	21.3	0.01	0.01	-	-	-
														31942	21.3	22.5	0.03	0.03	-	-	-
19.8	26.2	Hydro-feldspar crowded Porphyry (probably D4) fine grained. Fe stained K-spar groundmass. Ep alteration of feldspars and mafics. Weak 1-2 mm ep veinlets. Patchy, irregular distribution of clotted mafics suggests Bethlehem related intrusion.	-	-	-	-	2	2	2	2	0	2	31943	22.5	23.3	0.04	0.03	-	-	-	
														31944	23.3	24.4	0.03	0.03	-	-	-
														31945	24.4	25.9	0.03	0.02	-	-	-
														31946	25.9	27.4	0.03	0.03	-	-	-
														31947	27.4	28.9	0.03	0.02	-	-	-
														31948	28.9	30.5	0.02	<.01	-	-	-
26.2	45.7	Hydro-bio-qtz-granodiorite Guichon, intensely weathered Fault Zone with weak to moderate Fe-Ox staining (weak H2SO4 positive) and fracture coatings. Crushed/milled sections with rounded clasts. Strong fracture filling of ser-clay at bottom.	-	-	-	-	3	2	3	5	0	2	31949	30.5	32.0	0.11	0.02	-	-	-	
														31950	32.0	33.5	0.10	0.03	-	-	-
														31951	33.5	35.0	0.24	0.08	-	-	-
														31952	35.0	36.6	0.14	0.09	-	-	-
														31953	36.6	37.5	0.14	0.09	-	-	-
														31954	37.5	38.1	0.20	0.13	-	-	-
														31955	38.1	39.6	0.16	0.09	-	-	-
														31956	39.6	40.2	0.10	0.08	-	-	-
45.7	89.9	Bio-qtz-diorite: granodiorite Guichon/Hybrid; Fault Zone. Less intense weathering with weak to moderate Fe-Ox staining and fracture coatings. Crushed/milled sections; extensive dislocation/fault breccia with rounded clasts in weak Fe-Ox and green Cu stained matrix. Weak chrys fracture coatings. Significant core loss (65%) and drill rounding from 69.8 to 88.4 m. Suspect significant loss of copper bearing fracture coatings on recovered core. Alteration decreases with depth; red staining and ep alteration of feldspars become conspicuous (deuteric alteration effects). Chl after bio. Hem after mag.	-	-	-	-	4	2	3	4	0	3	31957	40.2	41.1	0.10	0.09	-	-	-	
														31958	41.1	42.7	0.08	0.08	-	-	-
														31959	42.7	44.2	0.21	0.17	-	-	-
														31960	44.2	45.7	0.25	0.23	-	-	-
														31961	45.7	47.2	0.29	0.21	-	-	-
														31962	47.2	48.8	0.35	0.25	-	-	-
														31963	48.8	50.3	0.59	0.54	-	-	-
														31964	50.3	51.8	0.55	0.48	-	-	-
														31965	51.8	53.3	0.66	0.56	-	-	-
														31966	53.3	54.9	0.43	0.33	-	-	-
														31967	54.9	56.4	0.41	0.31	-	-	-
														31968	56.4	57.9	0.44	0.34	-	-	-
														31969	57.9	59.4	0.47	0.36	-	-	-
														31970	59.4	61.0	0.59	0.47	-	-	-
														31971	61.0	62.2	1.23	1.10	-	-	-

Depth (m)		Description	%Py	%Cp	%Bt	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu	%Cu	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To	Total	Non Sulf			
89.9	125.0	Bio-qtz-diorite: granodiorite Guichon/Hybrid. Out of main shear zone, strongly fractured/shattered, local crackle bx. Abundant crosscutting fractures (some open spaces) with moderate to strong Fe-Ox coatings and diffuse Fe-Ox staining of wallrock. Weak qtz 1-2 per metre, 0.5-1.5 cm at 30-50° C.A. Weak chrys as fracture coating, increasing with depth, ending at 120.4 m. Strongly bleached, patchy red hem stained and fracture filled with Fe-Ox (probably ex-py) from 120.4-125.0 m. Oxide ends abruptly at 125.0 m	-	-	-	-	3	2	2	3	2	7	3	31972	62.2	63.7	0.58	0.52	-	-	-
														31973	63.7	65.5	0.78	0.72	-	-	-
														31974	65.5	67.0	0.59	0.55	-	-	-
														31975	67.0	68.3	0.70	0.68	-	-	-
														31976	68.3	69.8	0.57	0.53	-	-	-
														31977	69.8	71.6	0.33	0.24	-	-	-
														31978	71.6	73.1	0.29	0.23	-	-	-
														31979	73.1	74.7	0.28	0.22	-	-	-
														31980	74.7	75.9	0.74	0.66	-	-	-
														31981	75.9	76.8	0.45	0.40	-	-	-
														31982	76.8	77.7	0.43	0.37	-	-	-
125.0	155.4	Hbde-bio-qtz-Diorite; Guichon. Strongly fractured/crackle breccia. Abundant crosscutting fractures as in previous interval, but unoxidized; fracture filled w/ 1-2 mm qtz + cpy + chl + carb + py; weakly developed qtz and ser alteration envelopes. Clay gouge and disseminated, crushed sulphides 146.3-152.4 m; shear at 40° C.A. sense of slip "vertical" not lateral. Patchy ep disseminated around fractures and locally in bands. Chl after bio. Main breccia zone ends.	2	0.2	-	-	-1	4	2	3	3	3	-1	31983	77.7	79.2	0.69	0.62	-	-	-
														31984	79.2	80.5	0.49	0.43	-	-	-
														31985	80.5	81.1	0.39	0.36	-	-	-
														31986	81.1	81.7	0.50	0.44	-	-	-
														31987	81.7	82.6	0.49	0.44	-	-	-
														31988	82.6	83.2	0.32	0.30	-	-	-
														31989	83.2	84.1	0.42	0.39	-	-	-
														31990	84.1	85.6	0.51	0.45	-	-	-
														31991	85.6	86.2	0.46	0.38	-	-	-
														31992	86.2	86.7	0.59	0.51	-	-	-
155.4	175.2	Bio-qtz-diorite: Guichon. Strongly fracture, local crackle bx. Fracture filled with 0.5-2 mm qtz + chl + carb + py. Qtz + cpy + py veinlets 1-3 mm with moderately developed qtz + ser alteration envelopes, 3-4 per metre, generally at 30-50° C.A. Porphyry dykes 1587.5-160.8 m, 163.3-164.1 m, 167.0-168.8 m, phenos ghost-like; fine grained grey-brown groundmass. Conspicuous ep patches.	3	0.2	-	-	-1	4	3	3	2	8	-1	31993	86.7	88.4	0.63	0.59	-	-	-
														31994	88.4	89.9	0.47	0.38	-	-	-
														31995	89.9	91.4	0.32	0.25	-	-	-
														31996	91.4	93.0	0.35	0.28	-	-	-
														31997	93.0	94.5	0.38	0.27	-	-	-
														31998	94.5	96.0	0.40	0.32	-	-	-
														31999	96.0	97.5	0.49	0.37	-	-	-
														32000	97.5	99.1	0.44	0.29	-	-	-
														32001	99.1	100.6	0.78	0.69	-	-	-
														32002	100.6	102.1	0.55	0.40	-	-	-
														32003	102.1	103.6	0.42	0.21	-	-	-
														32004	103.6	105.1	0.73	0.55	-	-	-
														32005	105.1	106.7	0.64	0.49	-	-	-
														32006	106.7	108.2	0.59	0.44	-	-	-
														32007	108.2	109.7	0.93	0.80	-	-	-
														32008	109.7	111.2	1.09	0.96	-	-	-
														32009	111.2	112.8	2.08	1.82	-	-	-
														32010	112.8	114.3	1.02	0.85	-	-	-
														32011	114.3	115.8	1.15	1.07	-	-	-

Depth (m)	Interval (m)	Description	%Pv	%Cp	%Bo	%Alol	Qvz	Ser	Ca	Mg	Clav	RQD	Ox	Sample Number	Interval (m)		%Cu	Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
															From	To						
175.2	210.5	Bi-qtz-diorite: Quichon, grey-green, coarse grained, chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	3	3	-	-	1	3	3	3	3	2	25	32012	115.8	117.3	1.00	0.83	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32013	117.3	118.9	0.83	0.72	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32014	118.9	120.4	1.11	0.89	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32015	120.4	121.9	0.30	0.07	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32016	121.9	123.4	0.08	0.02	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32017	123.4	125.0	0.18	0.04	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32018	125.0	126.5	0.26	-	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32019	126.5	128.0	0.47	0.54	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32020	128.0	129.5	0.54	-	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32021	129.5	131.1	0.44	0.44	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32022	131.1	132.6	0.54	-	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32023	132.6	133.8	0.14	-	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32024	133.8	135.3	0.11	-	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32025	135.3	137.1	0.12	-	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32026	137.1	138.7	0.12	-	-	-	-	-
-	-	chlo-ser altered plagioclase, hblde. Moderate to strong ep. Local zones of secondary bio brown).	-	-	-	-	-	-	-	-	-	-	-	32027	138.7	140.2	0.11	-	-	-	-	-
210.5	216.7	Bi-qtz-feldspar porphyry diorite: Quichon dark green, medium grained, locally feldspar porphyry texture with moderate ser-secondary K-spar (stain).	1	0.1	-	-	1	2	4	4	2	25	-	32028	140.2	141.7	0.20	-	-	-	-	-
-	-	Bi-qtz-feldspar porphyry diorite: Quichon dark green, medium grained, locally feldspar porphyry texture with moderate ser-secondary K-spar (stain).	-	-	-	-	-	-	-	-	-	-	-	32029	141.7	143.2	0.28	-	-	-	-	-
-	-	Bi-qtz-feldspar porphyry diorite: Quichon dark green, medium grained, locally feldspar porphyry texture with moderate ser-secondary K-spar (stain).	-	-	-	-	-	-	-	-	-	-	-	32030	143.2	144.8	0.37	-	-	-	-	-
-	-	Bi-qtz-feldspar porphyry diorite: Quichon dark green, medium grained, locally feldspar porphyry texture with moderate ser-secondary K-spar (stain).	-	-	-	-	-	-	-	-	-	-	-	32031	144.8	146.3	0.78	-	-	-	-	-
-	-	Bi-qtz-feldspar porphyry diorite: Quichon dark green, medium grained, locally feldspar porphyry texture with moderate ser-secondary K-spar (stain).	-	-	-	-	-	-	-	-	-	-	-	32032	146.3	147.8	0.44	-	-	-	-	-
-	-	Bi-qtz-feldspar porphyry diorite: Quichon dark green, medium grained, locally feldspar porphyry texture with moderate ser-secondary K-spar (stain).	-	-	-	-	-	-	-	-	-	-	-	32033	147.8	149.3	0.06	-	-	-	-	-
-	-	Bi-qtz-feldspar porphyry diorite: Quichon dark green, medium grained, locally feldspar porphyry texture with moderate ser-secondary K-spar (stain).	-	-	-	-	-	-	-	-	-	-	-	32034	149.3	150.9	0.05	-	-	-	-	-
216.7	219.5	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	1	0.1	-	-	1	2	3	4	2	30	-	32035	150.9	152.4	0.09	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32036	152.4	153.9	0.08	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32037	153.9	155.4	0.10	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32038	155.4	157	0.11	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32039	157	158.5	0.12	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32040	158.5	160	0.06	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32041	160	161.5	0.10	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32042	161.5	163.1	0.11	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32043	163.1	164.6	0.10	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32044	164.6	166.1	0.10	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32045	166.1	167.6	0.16	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32046	167.6	169.2	0.11	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32047	169.2	170.7	0.10	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32048	170.7	172.2	0.11	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32049	172.2	173.7	0.08	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32050	173.7	175.2	0.18	-	-	-	-	-
-	-	Feldspar porphyry qtz-diorite (fp). Dark green-grey, fine grained matrix with cream-white plagioclase phenos 1-3 mm, and hblde phenos (altered to chl) 1 mm. Minor bio phenos. Py, trace cpy in chl-carb fractures. At 217.9 m: fault gouge 5 cm at 45° C.A. calcite veining.	-	-	-	-	-	-	-	-	-	-	-	32051	175.2	176.8	0.19	-	-	-	-	-

Depth (m)		Description	%Pv	%Cp	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	R2O2 %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
		continued Assay information																			
														32052	176.8	178.3	0.15	-	0.002	5	0.1
														32053	178.3	179.8	0.11	-	0.002	5	0.1
														32054	179.8	181.3	0.08	-	0.002	5	0.1
														32055	181.3	182.9	0.11	-	0.002	5	0.1
														32056	182.9	184.4	0.09	-	0.002	5	0.1
														32057	184.4	185.9	0.10	-	0.002	5	0.1
														32058	185.9	187.4	0.11	-	0.008	5	0.1
														32059	187.4	189.0	0.12	-	0.008	5	0.1
														32060	189.0	190.5	0.09	-	0.008	5	0.1
														32061	190.5	192.0	0.10	-	0.008	5	0.1
														32062	192.0	193.5	0.07	-	0.008	5	0.1
														32063	193.5	194.8	0.13	-	0.008	5	0.1
														32064	194.8	196.6	0.10	-	0.008	5	0.1
														32065	196.6	198.1	0.11	-	*this composite only 8 samples		
														32066	198.1	199.6	0.16	-	0.2	5	0.005
														32067	199.6	201.2	0.10	-	0.2	5	0.005
														32068	201.2	202.3	0.04	-	0.2	5	0.005
														32069	202.3	203.9	0.08	-	0.2	5	0.005
														32070	203.9	205.4	0.03	-	0.2	5	0.005
														32071	205.4	207.0	0.15	-	0.2	5	0.005
														32072	207.0	208.5	0.10	-	0.2	5	0.005
														32073	208.5	210.0	0.04	-	0.2	5	0.005
														32074	210.0	211.5	0.04	-	0.2	5	0.005
														32075	211.5	213.4	0.02	-	0.2	5	0.005
														32076	213.4	214.9	0.06	-	0.1	5	<.001
														32077	214.9	216.9	0.02	-	0.1	5	<.001
														32078	216.9	217.9	0.03	-	0.1	5	<.001
														32079	217.9	219.5	0.02	-	*last composite only 4 samples		

Diamond Drill Log																					
Project:	Getty North Property			Location:	1 = background/fresh	4 = strong	Core:	11C										Azimuth	Dip		
Hole #:	96-15			Northing:	2 = weak	5 = intense												Collar	270	-45	
Date:	14-Apr-96			Easting:	3 = moderate																
Logged by:	DB, VN			Elevation:																	
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																					
													Assays								
Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
0	3.0	Casing												33215	77.5	79.5	0.06	0.01	-	-	-
														33216	79.5	81.5	0.03	< 0.1	-	-	-
3.0	14.6	Hbde-qtz porphyry Rhyodacite (Tertiary Volcanics). Moderately magnetic, brown matrix with qtz phenos 2-5 mm. Hbde 1-2 mm, bio 1-2 mm. Rusty. FeOx on mafics, magnetite. Pervasive grey qtz patches	-	-	-	-	-	-	-	-	-	-	-	33217	81.5	83.5	0.04	< 0.1	-	-	-
														33218	83.5	85.5	0.04	< 0.1	-	-	-
														33219	85.5	87.5	0.02	< 0.1	-	-	-
														33220	87.5	89.5	0.04	< 0.1	-	-	-
														33221	89.5	81.5	0.03	< 0.1	-	-	-
14.6	47.2	Qtz-Hbde porphyry Rhyodacite (Tertiary Volcanics). Very fine grained grey matrix. Hbde phenos up to 1 cm, qtz 2-3 mm. Weak hem after moderate mag mafics. Locally fractured weak to moderate. Trace ep-clay-qtz along fractures. Secondary K-spars? vuggy.	-	-	-	-	-	-	-	-	-	-	-	33222	81.5	83.5	0.03	< 0.1	-	-	-
														33223	83.5	85.5	0.04	0.01	-	-	-
														33224	85.5	87.5	0.06	0.01	-	-	-
														33225	87.5	99.5	0.04	0.01	-	-	-
														33226	99.5	101.5	0.04	0.01	-	-	-
														33227	101.5	103.5	0.05	< 0.1	-	-	-
														33228	103.5	105.5	0.08	0.01	-	-	-
47.2	52.0	Hbde-qtz porphyry rhyodacite: strong brick red hematite matrix.	-	-	-	-	-	-	-	-	-	-	-	33229	105.5	107.5	0.08	< 0.1	-	-	-
														33230	107.5	109.5	0.24	0.01	-	-	-
														33231	109.5	111.5	0.37	0.05	-	-	-
52.0	77.5	Rhyodacite lithic tuff. Orange-brown matrix with felsic angular clasts, coarse to fine down section. Bedding 45° C.A.	-	-	-	-	-	-	-	-	-	-	-	33232	111.5	113.5	0.48	0.08	-	-	-
														33233	113.5	115.5	0.3	0.04	-	-	-
														33234	115.5	117.5	0.36	0.06	-	-	-
														33235	117.5	119.5	0.36	0.04	-	-	-
77.5	86.7	Hbde-bio-qtz diorite (Gulchon). Soft, clay, weath- ered highly broken. Possible breccia	-	-	-	-	-	2	-1	2	2	5	4	33236	119.5	121.5	0.11	0.01	-	-	-
														33237	121.5	123.5	0.13	< 0.1	-	-	-
														33238	123.5	125.5	0.12	0.01	-	-	-
86.7	93.5	Hbde-bio-qtz diorite breccia (Gulchon). Intrusion breccia. Orange-brown matrix with relict Gulchon fragments. Sheared, tectonic breccia.	-	-	-	-	1	3	-1	2	3	5	5	33239	125.5	127.5	0.11	0.01	-	-	-
														33240	127.5	129.5	0.11	< 0.1	-	-	-
														33241	129.5	131.5	0.07	< 0.1	-	-	-
														33242	131.5	133.5	0.13	0.01	-	-	-
														33243	133.5	135.5	0.19	0.01	-	-	-
														33244	135.5	137.5	0.14	0.01	-	-	-
														33245	137.5	139.5	0.17	0.02	-	-	-



Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
93.5	123.5	Hbde-bio-qtz diorite (Guichon) Grey-white clay Fe-Ox matrix 102.5-105.5 m. tectonic fault breccia strong FeOx matrix. 107.7-112.6 m. tectonic breccia/fault at 45° C.A. 112.6-115.7 m. shattered with clay-ep-FeOx filling. Trace mal/chrys. Weak silicification. 115.7-116.6 m. fine grained, dark hbde-feldspar porphyry with moderately mal filled fractures. 116.6-120.0 m. Guichon, shattered, FeOx fractures. Qtz veinlets locally. Weak silicification. 120.0-123.5 m. Fault gouge at 60° C.A. 120-123.5 m. quartz veinlets, moderate sil. Red FeOx, brecciated.	-1	-1	-	-	1	3	-1	2	3	5	4	33246	139.5	141.5	0.11	0.01	-	-	-
														33247	141.5	143.5	0.13	0.02	-	-	-
														33248	143.5	145.5	0.20	0.03	-	-	-
														33249	145.5	147.5	0.11	0.01	-	-	-
														33250	147.5	149.5	0.10	0.01	-	-	-
														33251	149.5	151.5	0.08	0.01	-	-	-
														33252	151.5	153.5	0.07	0.01	-	-	-
														33253	153.5	155.5	0.06	< 0.1	-	-	-
														33254	155.5	157.5	0.10	0.01	-	-	-
														33255	157.5	159.5	0.07	< 0.1	-	-	-
														33256	159.5	161.5	0.08	< 0.1	-	-	-
														33257	161.5	163.5	0.07	< 0.1	-	-	-
														33258	163.5	165.5	0.11	0.01	-	-	-
123.5	128.0	Hbde-bio-qtz diorite (Guichon) as seen above. Less FeOx minor breccia, quartz veinlets. Fractures at 40° C.A.	-1	-1	-	-	1	3	-1	2	3	10	4	33259	165.5	167.5	0.56	-	0.001	5	0.10
														33260	167.5	169.5	0.17	-	0.001	5	0.10
														33261	169.5	171.5	0.20	-	0.001	5	0.10
														33262	171.5	173.5	0.22	-	0.001	5	0.10
128.0	165.4	(Hbde)-bio-qtz diorite (Guichon). Grey-white clay matrix, FeOx mafics and ser bio/hbde. Limonite after py. Moderate to strong py-lim filled fractures cross cutting with qtz-ser-clay selvage at 45 and 70°, subparallel to C.A. Brecciated. 139.0-139.8 m. fault at 70° C.A. 150.0-150.9 m. fault at 80° C.A. 163.5-165.4 m. red oxide stain.	0.5	0.1	-	-	2	3	1	2	3	5	3	33263	173.5	175.5	0.15	-	0.001	5	0.10
														33264	175.5	177.5	0.16	-	0.001	5	0.10
														33265	177.5	179.5	0.24	-	0.001	5	0.10
														33266	179.5	181.5	0.50	-	0.001	5	0.10
														33267	181.5	183.5	0.33	-	0.001	5	0.10
														33268	183.5	185.5	0.12	-	0.001	5	0.10
														33269	185.5	187.5	0.19	-	< 0.001	5	0.10
														33270	187.5	189.5	0.15	-	< 0.001	5	0.10
														33271	189.5	191.5	0.14	-	< 0.001	5	0.10
														33272	191.5	193.5	0.14	-	< 0.001	5	0.10
165.4	183.0	Bio-qtz diorite (Guichon). Grey-white weak to moderate clay altered matrix with ser altered bio, local ep. Core is brecciated and fractured with py ± cpy as disseminations and in veinlets 1-5 mm cross cutting. 179.0-181.0 m. ep. Py 3-5%, Cpy 0.3-0.5%. Highly broken, clay altered fractures at 10-45° C.A.	3	0.3	-	-	1	3	2	2	3	5	-1	33273	193.5	195.5	0.15	-	< 0.001	5	0.10
														33274	195.5	197.5	0.15	-	< 0.001	5	0.10
														33275	197.5	199.5	0.19	-	< 0.001	5	0.10
														33276	199.5	201.5	0.17	-	< 0.001	5	0.10
														33277	201.5	203.5	0.10	-	< 0.001	5	0.10
														33278	203.5	205.5	0.12	-	< 0.001	5	0.10
														33279	205.5	207.5	0.04	-	< 0.001	5	0.10
														33280	207.5	209.5	0.04	-	< 0.001	5	0.10
														33281	209.5	211.5	0.05	-	< 0.001	5	0.10
														33282	211.5	213.5	0.03	-	< 0.001	5	0.10
														33283	213.5	215.5	0.04	-	< 0.001	5	0.10
														33284	215.5	217.5	0.03	-	< 0.001	5	0.10

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
183.0	198.1	Bio-qtz-Diorite, Gulchon Brecciated, local dis- location/Fault breccia, 185.0-186.5 m. with strong FeOx stained clasts and clay matrix. Strong FeOx fracture filling (ex-py) Several 2-3 cm pink, aplitic porphyry dykelets. Diffuse ep patches with possible associated pervasive albitization. Chl/ser after bio. Hem after mag.	0.1	-	-	-	1	3	2	2	4	0	3	33285	217.5	219.5	0.18	-	< 0.01	5	0.10
														33286	219.5	221.5	0.06	-	< 0.01	5	0.10
														33287	221.5	223.5	0.02	-	< 0.01	5	0.10
														33288	223.5	225.5	0.03	-	< 0.01	5	0.10
														33289	225.5	227.5	0.07	-	< 0.01	5	0.10
														33290	227.5	229.5	0.03	-	< 0.01	5	0.10
														33291	229.5	231.5	0.03	-	< 0.01	5	0.10
														33292	231.5	233.5	0.03	-	< 0.01	5	0.10
198.1	219.4	Bio-qtz-Diorite, Gulchon, Fault Zone Lesser Fe- Ox than previous interval. Interval of Bethlehem Phase Quartz Diorite in fault contact 198.1-203.6 m, with strong cross cutting FeOx fracture filling/veinlets (ex-py) and FeOx stained envelopes to 1.5 cm Weak to moderate cemented (by carb and FeOx) polymic- tic, matrix supported breccia, 204.7-212.0 m, 215.5-219.4 m, with rounded clasts (Gulchon and porphyry) to 15 cm Weak, patchy ep. Chl/clay? after bio. Hem after mag.	0.1	-	-	-	-1	3	2	2	3	3	2	33293	233.5	235.5	0.04	-	< 0.01	5	0.10
														33294	235.5	237.5	0.03	-	< 0.01	5	0.10
														33295	237.5	239.5	0.01	-	< 0.01	5	0.10
														33296	239.5	241.5	0.04	-	< 0.01	5	0.10
														33297	241.5	243.5	0.04	-	< 0.01	5	0.10
														33298	243.5	245.5	0.02	-	< 0.01	5	0.10
														33299	245.5	247.5	0.02	-	0.001	5	0.10
														33300	247.5	249.5	0.02	-	0.001	5	0.10
														33301	249.5	251.5	0.02	-	0.001	5	0.10
														33302	251.5	253.5	0.01	-	0.001	5	0.10
														33303	253.5	255.5	0.02	-	0.001	5	0.10
219.4	253.5	Bio-qtz-Diorite, Gulchon. Moderate to strongly fractured, locally brecciated. Numerous pink, apelite to aplitic porphyry dykes, 1-2.5 cm, at least two phases, probable latest phase (most of these are < 2 cm) is strongly granophyric. Dykes carry scat- tered Gulchon xenoliths nad trace to weak amounts of NCu and cpy in fractures and with mafics, prob- ably related to wallrock assimilation. Few 1 cm qtz veinlets cross cut by apilites. Ep veinlets (cross cut apilites) 2-3 mm and conspicuous ep patches; contact metamorphic effects. Py on fractures increases with depth; trace to weak cpy and NCu with mafics. Several slip surfaces 10-30° C.A. Chl after bio. Hem after mag.	0.5	0.2	-	-	-1	3	2	2	2	7	1	33304	255.5	257.5	0.12	-	0.001	5	0.10
														33305	257.5	259.5	0.14	-	0.001	5	0.10
														33306	259.5	261.5	0.11	-	0.001	5	0.10
														33307	261.5	263.5	0.06	-	0.001	5	0.10
														33308	263.5	265.5	0.01	-	0.001	5	0.10
														33309	265.5	267.5	0.02	-	< 0.01	5	0.10
														33310	267.5	269.5	0.04	-	< 0.01	5	0.10
														33311	269.5	271.5	0.09	-	< 0.01	5	0.10
														33312	271.5	273.5	0.01	-	< 0.01	5	0.10
														33313	273.5	275.5	0.08	-	< 0.01	5	0.10
														33314	275.5	277.5	0.22	-	< 0.01	5	0.10
														33315	277.5	279.5	0.06	-	< 0.01	5	0.10
														33316	279.5	281.5	0.05	-	< 0.01	5	0.10
														33317	281.5	283.5	0.05	-	< 0.01	5	0.10
														33318	283.5	285.5	0.02	-	< 0.01	5	0.10
														33319	285.5	287.5	0.04	-	< 0.01	5	0.10
														33320	287.5	289.5	0.06	-	< 0.01	5	0.10
														33321	289.5	291.5	0.12	-	< 0.01	5	0.10
														33322	291.5	293.5	0.04	-	< 0.01	5	0.10

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
253.5	263.5	Hbde-bio-qtz-Diorite grading to Granodiorite	2	0.2	-	-	-1	4	2	3	3	0	-1	33323	293.5	295.5	0.04	-	< 0.01	5	0.10
		<b>Gulchon, fault zone</b> slightly porphyritic appearance												33324	295.5	297.5	< 0.1	-	< 0.01	5	0.10
		& change in mafic distribution at bottom suggest possible contaminated Bethlehem phase. Numerous												33325	297.5	299.5	< 0.1	-	< 0.01	5	0.10
		slip surfaces and local thin clay gouge 20-40° C.A.												33326	299.5	301.5	0.01	-	< 0.01	5	0.10
		Strong ser-clay fracture filled. Fracture py> pervasive py. Fracture cpy~ pervasive cpy.												33327	301.5	303.5	0.01	-	< 0.01	5	0.10
		Chi after Hbde/bio.												33328	303.5	305.5	0.01	-	< 0.01	5	0.10
														33329	305.5	307.5	0.02	-	< 0.01	5	0.10
														33330	307.5	309.5	0.03	-	< 0.01	5	0.10
														33331	309.5	311.5	0.05	-	< 0.01	5	0.10
263.5	293.5	Hbde-bio Granodiorite. Gradational or intermixed	2	0.2	-	-	-1	3	2	2	-1	11	-1	33332	311.5	313.5	0.02	-	< 0.01	5	0.10
		<b>Gulchon/Bethlehem, patchy irregular interstitial</b>												33333	313.5	315.5	0.01	-	< 0.01	5	0.10
		K-spar 5-20% locally. Several pink apite dykelets												33334	315.5	317.5	0.02	-	< 0.01	5	0.10
		1-5 cm. Fault 270.7-271.5 m with clay gouge at												33335	317.5	319.5	0.03	-	< 0.01	5	0.10
		30° C.A. Scattered, chloritized mafic (stoped?)												33336	319.5	321.5	0.04	-	< 0.01	5	0.10
		particles 0.5-1 cm. Fracture py> pervasive py												33337	321.5	323.5	0.03	-	< 0.01	5	0.10
		Trace to weak cpy on fractures and occasionally												33338	323.5	325.5	0.03	-	< 0.01	5	0.10
		replacing mafics. Chi after hbde/bio. Weak to												33339	325.5	327.5	0.04	-	< 0.01	5	0.10
		moderate magnetic. Hem after mag.												33340	327.5	329.5	0.03	-	< 0.01	5	0.10
														33341	329.5	331.5	0.03	-	< 0.01	5	0.10
293.5	303.9	Hbde-bio-Granodiorite. Gradational or intermixed	1.5	0.1	-	-	-1	3	2	3	2	4	-1	33342	331.5	332.2	0.01	-	*last composite only 4 samples		
		<b>Gulchon/Bethlehem. Fault zone (weak).</b> Shear at																			
		10-30° C.A. Locally with 1-3 cm clay gouge. Feld-																			
		spars darker, saussuritized, become increasingly																			
		sericitic with depth. Weakly magnetic. Chi after																			
		hbde/bio. Hem after mag. Weak pervasive carb																			
		alteration of mafics and feldspars. Strong fracture																			
		filled chi-ser-clay.																			
303.9	332.2	Bio-qtz Diorite; Gradational or Intermixed <b>Gulchon/</b>	1.5	0.2	-	-	1	4	3	3	2	15	1								
		<b>Bethlehem. Weak Fault Zone</b> with thin gouge																			
		(every 2.5-3 m) 0.5-2 cm at 10-20° C.A. Local strong																			
		carb impregnation of wallrock, numerous irregular																			
		carb veinlets. Weak qtz veinlets (1-2 per metre) with																			
		blebby py and cpy (remobilized). Weakly developed																			
		delached alteration envelopes on fractures																			
		and qtz veinlets. Patchy red to brown FeOx staining																			
		of feldspars (ser). Hem after mag. Pervasive py >																			
		fracture py. Where least altered, ep alteration of																			
		mafic is conspicuous.																			
EOH 332.2 m																					

Diamond Drill Log																					
Project:		Getty North Project				Location:				1 - background/fresh		4 - strong		Core:		HQ		Azimuth		Dip	
Hole #:		96-16				Northing:				2 - weak		5 - intense				Collar		052		-60	
Date:		April 21, 1996				Easting:				3 - moderate											
Logged by:						Elevation:															
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																					
												Assays									
Depth (m)		Description	%Py	%Cp	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
0	7.6	Overburden - casing, Tertiary Volcanic rubble												33343	7.6	9.0	0.05	-	< .001	5	0.1
														33344	9.0	11.0	0.03	-	< .001	5	0.1
7.6	46.9	Hbl-bio-Monzonite grading to Qtz Monzodionite Guichon/Hybrid, scattered fine grained xenoliths Fault: 15.5-17.6 m Strong yellow FeOx, ser-clay altered. Fault: 42.5-43.5 m at 30° C.A. with thin clay gouge. Local thin clay gouge also at 30° C.A. Strong fracture sets at 20-50° C.A., lesser at 70-80° C.A. Trace cpy replacing mafics and in fractures. Chl-ep veinlets and fracture filling. 0.5-2 mm, frequently with alb-ep alteration enve- lopes, crosscutting at 40-50° C.A. and 70-80° C.A. Local weak mal fracture filling. Chl after hbl/bio Moderately magnetic.	0.2	0.2	-	-	-1	1	1	2	-1	12	2	33345	11.0	13.0	0.04	-	< .001	5	0.1
														33346	13.0	15.0	0.04	-	< .001	5	0.1
														33347	15.0	17.0	0.05	-	< .001	5	0.1
														33348	17.0	19.0	0.03	-	< .001	5	0.1
														33349	19.0	21.0	0.06	-	< .001	5	0.1
														33350	21.0	23.0	0.04	-	< .001	5	0.1
														33351	23.0	25.0	0.08	-	< .001	5	0.1
														33352	25.0	27.0	0.03	-	< .001	5	0.1
														33353	27.0	29.0	0.11	-	< .001	5	0.1
														33354	29.0	31.0	0.03	-	< .001	5	0.1
														33355	31.0	33.0	0.07	-	< .001	5	0.1
														33356	33.0	35.0	0.03	-	< .001	5	0.1
														33357	35.0	37.0	0.02	-	< .001	5	0.1
46.9	57.6	Qtz + Hbl-feldspar Crowded Porphyry, D8 fine, grained, holocrystalline matrix (qtz + K-spar) Mafics strongly chloritized to ser-clay altered, occasional ep alteration. Several slips at 30-50° C.A. with strong flaky ser. Top contact at 80° C.A., chilled. Moderately magnetic. Weak hem after mag. Trace to weak cpy and py replacing mafics and in fractures. Pervasive carb alteration of feldspars and mafics. Bottom contact irregular, chilled.	0.5	0.2	-	-	-1	3	3	2	2	15	1	33358	37.0	39.0	0.03	-	< .001	5	0.1
														33359	39.0	41.0	0.16	-	< .001	5	0.1
														33360	41.0	43.0	0.03	-	< .001	5	0.1
														33361	43.0	45.0	0.04	-	< .001	5	0.1
														33362	45.0	47.0	0.02	-	< .001	5	0.1
														33363	47.0	49.0	0.01	-	0.001	5	0.1
														33364	49.0	51.0	0.02	-	0.001	5	0.1
														33365	51.0	53.0	0.01	-	0.001	5	0.1
														33366	53.0	55.0	0.01	-	0.001	5	0.1
														33367	55.0	57.0	0.03	-	0.001	5	0.1
														33368	57.0	59.0	0.02	-	0.001	5	0.1
														33369	59.0	61.0	0.02	-	0.001	5	0.1
														33370	61.0	63.0	0.08	-	0.001	5	0.1
														33371	63.0	65.0	0.03	-	0.001	5	0.1
														33372	65.0	67.0	0.03	-	0.001	5	0.1
														33373	67.0	69.0	0.06	-	0.001	5	0.1

Depth (m)		Description	%Py	%Cp	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
57.6	99.9	Hbl-Bio-Monzodiorite, medium grained <b>Gulchon/</b>	0.5	0.2	-	-	-1	3	3	2	-1	25	1	33374	69.0	71.0	0.04	-	0.001	5	0.1
		<b>Hybrid Fault:</b> 61.0-62.1 m, 40-50° C.A. with clay												33375	71.0	73.0	0.06	-	0.001	5	0.1
		gouge, strong calcite veining and impregnation												33376	73.0	75.0	0.10	-	0.001	5	0.1
		Silicified, brecciated upper margin, with fine grained												33377	75.0	77.0	0.03	-	0.001	5	0.1
		py and cpy Strong chl-ser fracture filled below												33378	77.0	79.0	0.03	-	0.001	5	0.1
		fault Intense pervasive ser-clay altered above and												33379	79.0	81.0	0.04	-	0.001	5	0.1
		below fault More abundant crosscutting chl + ep												33380	81.0	83.0	0.14	-	0.001	5	0.1
		± carb veinlets 0.5-5 mm, usually with diffuse												33381	83.0	85.0	0.04	-	0.001	5	0.1
		alb-ep alteration envelopes Local strong fracture/												33382	85.0	87.0	0.04	-	0.001	5	0.1
		vein controlled pervasive alb alteration Weak												33383	87.0	89.0	0.04	-	0.001	5	0.1
		(1-2 per metre) chl + Qtz + py ± cpy veinlets												33384	89.0	91.0	0.03	-	0.001	5	0.1
		0.5-1 mm. Six pink aplite dykes, 1-20 cm, with												33385	91.0	93.0	0.03	-	0.001	5	0.1
		stoped particles of wallrock, contacts perpendicular												33386	93.0	95.0	0.02	-	0.001	5	0.1
		to C.A., crosscut by chl-ep veinlets. Shear 81.9-												33387	95.0	97.0	0.04	-	0.001	5	0.1
		82.3 m, at 20° C.A., with NCu, specular hem, strong												33388	97.0	99.0	0.04	-	0.001	5	0.1
		FeOx. Fracture sets at 20-50° and 70-80° C.A.												33389	99.0	101.0	0.07	-	0.001	5	0.1
		Fracture py > pervasive py. Trace cpy replacing												33390	101.0	103.0	0.04	-	0.001	5	0.1
		mafics, becomes increasingly saussuritic near												33391	103.0	105.0	0.22	-	0.001	5	0.1
		contact at bottom, patchy black secondary bio in												33392	105.0	107.0	0.04	-	0.001	5	0.1
		otherwise strongly altered rock.												33393	107.0	109.0	0.03	-	0.002	5	0.1
														33394	109.0	111.0	0.02	-	0.002	5	0.1
														33395	111.0	113.0	0.06	-	0.002	5	0.1
														33396	113.0	115.0	0.06	-	0.002	5	0.1
														33397	115.0	117.0	0.32	-	0.002	5	0.1
														33398	117.0	119.0	0.10	-	0.002	5	0.1
														33399	119.0	121.0	0.05	-	0.002	5	0.1
														33400	121.0	123.0	0.04	-	0.002	5	0.1
														33401	123.0	125.0	0.04	-	0.002	5	0.1
														33402	125.0	127.0	0.04	-	0.002	5	0.1
														33403	127.0	129.0	0.03	-	0.001	5	0.1
														33404	129.0	131.0	0.04	-	0.001	5	0.1
														33405	131.0	133.0	0.05	-	0.001	5	0.1
														33406	133.0	135.0	0.03	-	0.001	5	0.1
														33407	135.0	137.0	0.02	-	0.001	5	0.1
														33408	137.0	139.0	0.04	-	0.001	5	0.1
														33409	139.0	141.0	0.04	-	0.001	5	0.1
														33410	141.0	143.0	0.07	-	0.001	5	0.1
														33411	143.0	145.0	0.09	-	0.001	5	0.1
														33412	145.0	147.0	0.06	-	0.001	5	0.1

Depth (m)		Description	%Py	%Cp	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample	Interval (m)		%Cu	%Cu	%Mo	Au (ppb)	Ag (g/t)
From	To													Number	From	To	Total	Non Suff			
99.9	125.5	Qtz-Plagioclase Porphyry D1. <b>Fault zone</b> Chilled aplitic near upper contact (tan coloured), becoming increasingly sentic down section to 103.4 m. <b>Fault:</b> 103.4-103.6 m, 30° C.A. with clay gouge. strong FeOx. Fault bounded section of intensely chl + ser + carb + clay altered "Crowded Feldspar Porphyry" 103.6-108.3 m: mafics white, ser + clay altered, patchy black secondary bio, weak cpy>py replacing mafics. <b>Fault:</b> 108.3-110.7 m, 30° C.A. with clay gouge, milled sections, intense carb impregnation and veining, broken qtz and carb veins, crushed and disseminated py and cpy. Dyke D3 porphyry, hbl plag crowded porphyry: broad chilled margins (~10 cm); disseminated py replacing mafics, weak cpy replacing mafics, especially near contacts; strong pervasive ser altered. <b>Fault:</b> 116.5-117.5 m, ~ 30° C.A., with clay gouge and crushing, qtz vein fragments, blebs of cpy (remobilized) disseminated py. Numerous (8 per metre) crosscutting qtz + py ± cpy veinlets 0.5-2 mm with well developed qtz + ser alteration envelopes, 117.5-125.5 m. Hem after mag. Thin gouge, 1-2 cm, 30° C.A. at 122.0 m and 124.0 m.	1	0.2	-	0.1	2	5	4	4	3	10	1	33413	147.0	149.0	0.09	-	0.002	5	0.1
			33414	149.0	151.0	0.06	-	0.002	5	0.1											
			33415	151.0	153.0	0.03	-	0.002	5	0.1											
			33416	153.0	155.0	0.07	-	0.002	5	0.1											
			33417	155.0	157.0	0.67	-	0.002	5	0.1											
			33418	157.0	159.0	0.04	-	0.002	5	0.1											
			33419	159.0	161.0	0.03	-	0.002	5	0.1											
			33420	161.0	163.0	0.03	-	0.002	5	0.1											
			33421	163.0	165.0	0.03	-	0.002	5	0.1											
			33422	165.0	167.0	0.04	-	0.002	5	0.1											
			33423	167.0	169.0	0.02	-	<.001	5	0.1											
			33424	169.0	171.0	0.04	-	<.001	5	0.1											
			33425	171.0	173.0	0.05	-	<.001	5	0.1											
			33426	173.0	175.0	0.03	-	<.001	5	0.1											
			33427	175.0	177.0	0.02	-	<.001	5	0.1											
			33428	177.0	179.0	0.01	-	<.001	5	0.1											
			33429	179.0	181.0	0.01	-	<.001	5	0.1											
			33430	181.0	183.0	0.03	-	<.001	5	0.1											
			33431	183.0	185.0	0.03	-	<.001	5	0.1											
			33432	185.0	187.0	0.02	-	<.001	5	0.1											
33433	187.0	189.0	0.03	-	<.001	5	0.1														
33434	189.0	191.0	0.04	-	<.001	5	0.1														
33435	191.0	193.0	0.05	-	<.001	5	0.1														
33436	193.0	195.0	0.03	-	<.001	5	0.1														
33437	195.0	197.0	0.03	-	<.001	5	0.1														
125.5	146.4	Bio-Qtz Monzoniorite grading to Monzonite Crowded Porphyry (possible Fp1 variety??) 2-5 mm plagioclase phenos, locally graonphyric groundmass Weak chl ± ep veinlets (1-2 mm). Moderate qtz + py ± cpy veinlets, 0.5-2 mm, with well developed qtz + ser envelopes. Strong ser + chl fracture filling. Local strong fracture/vein controlled pervasive albitization with ep veinlets. <b>Fault:</b> 133.0-133.5 m, ~ 30° C.A., crushed with clay gouge. Hem after mag. Trace to weak cpy replacing mafics Feldspars become dark, saussuritic toward bottom contact. Weak FeOx on fractures throughout. Fine grained, dark grey porphyry dyke 143.2-146.4 m, upper contact broken, lower contact at 90° C.A.	1	0.2	-	-1	-1	3	2	2	-1	15	1	33437	195.0	197.0	0.03	-	<.001	5	0.1
			33438	197.0	199.0	0.03	-	<.001	5	0.1											
			33439	199.0	201.0	0.04	-	<.001	5	0.1											
			33440	201.0	203.0	0.03	-	<.001	5	0.1											
			33441	203.0	205.0	0.06	-	<.001	5	0.1											
			33442	205.0	207.0	0.05	-	<.001	5	0.1											
			33443	207.0	209.0	0.04	-	*this composite has 11 samples													
			33444	209.0	211.0	0.10	-	0.002	5	0.1											
			33445	211.0	213.0	0.04	-	0.002	5	0.1											
			33446	213.0	215.0	0.04	-	0.002	5	0.1											
			33447	215.0	217.0	0.06	-	0.002	5	0.1											
			33448	217.0	219.0	0.05	-	0.002	5	0.1											
			33449	219.0	221.0	0.08	-	0.002	5	0.1											
33450	221.0	223.0	0.05	-	0.002	5	0.1														
33451	223.0	225.0	0.05	-	0.002	5	0.1														

Depth (m)		Description	%Py	%Cp	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Suff	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
146.4	154.8	Bio Qtz Feldspar Crowded Porphyry (possible Fp1 variety?) Medium/coarse grained Qtz + py + cpy veinlets (~ 2 per metre), 1-2 cm, with well developed Qtz + ser envelopes, frequently with pink FeOx stained halo. Hem after mag. Fracture sets 20-70° C.A.	1.5	0.2	-	-	2	4	4	2	3	20	-1	33452	225.0	227.0	0.05	-	0.002	5	0.1
														33453	227.0	229.0	0.04	-	0.002	5	0.1
														33454	229.0	231.0	0.04	-	0.003	5	0.1
														33455	231.0	233.0	0.04	-	0.003	5	0.1
														33456	233.0	235.0	0.06	-	0.003	5	0.1
														33457	235.0	237.0	0.05	-	0.003	5	0.1
154.8	176.2	? - Qtz-feldspar Crowded Porphyry, probably Fp1 variety as above, intense pervasive ser + Qtz altered with sections of strong chl + carb alteration. Fault: 155.0-156.0 m, 30° C.A. with numerous cpy blebs (remobilized) and shattered silicified sections. Fault: 160.3-160.6 m, ~ 50° C.A. with clay gouge, disseminated py. Fault: 170.7-171.3 m, 40° C.A. with clay gouge, Qtz vein fragments, disseminated py. Numerous Qtz + py + cpy veinlets 0.5-1 mm (10-20 per metre) with well developed (0.5-2 cm) Qtz + ser envelopes. These are consistently at 40-50° C.A. and do not appear to be crosscutting. Several 3-5 cm white to grey, vuggy, chalcedonic Qtz veins, vugs lined with drusy calcite; alteration envelopes are absent. Strong pervasive silicification 171.5-175.5 m. Trace cpy replacing mafics.	2	0.3	-	0.1	4	5	3	4	2	25	-1	33459	239.0	241.0	0.05	-	0.003	5	0.1
														33460	241.0	243.0	0.04	-	0.003	5	0.1
														33461	243.0	245.0	0.04	-	0.003	5	0.1
														33462	245.0	247.0	0.09	-	0.003	5	0.1
														33463	247.0	249.0	0.04	-	0.003	5	0.1
														33464	249.0	251.0	0.06	-	0.002	5	0.1
														33465	251.0	253.0	0.09	-	0.002	5	0.1
														33466	253.0	255.0	0.06	-	0.002	5	0.1
														33467	255.0	257.0	0.05	-	0.002	5	0.1
														33468	257.0	259.0	0.04	-	0.002	5	0.1
														33469	259.0	261.0	0.06	-	0.002	5	0.1
														33470	261.0	263.0	0.03	-	0.002	5	0.1
														33471	263.0	265.0	0.04	-	0.002	5	0.1
176.2	189.0	? - Qtz-Feldspar Crowded Porphyry, probably Fp1 variety. Medium/coarse grained. NQ2 starts at 183.5 m. Two 3 cm aplite dykes, one with numerous stoned particles of wallrock. Mafics ser + clay altered. Pervasive alteration decreases near bottom. Patchy black, secondary bio. Numerous irregular carb veinlets. Weak py, trace cpy replacing mafics. Fracture sets at 20-70° C.A.	1	0.2	-	-	1	4	4	2	2	30	-1	33472	265.0	267.0	0.15	-	0.002	5	0.1
														33473	267.0	269.0	0.04	-	0.002	5	0.1
														33474	269.0	271.0	0.04	-	0.003	5	0.1
														33475	271.0	273.0	0.11	-	0.003	5	0.1
														33476	273.0	275.0	0.12	-	0.003	5	0.1
														33477	275.0	277.0	0.07	-	0.003	5	0.1
														33478	277.0	279.0	0.04	-	0.003	5	0.1
														33479	279.0	281.0	0.08	-	0.003	5	0.1
														33480	281.0	283.0	0.52	-	0.003	5	0.1
														33481	283.0	285.0	0.17	-	0.003	5	0.1
														33482	285.0	287.0	0.10	-	0.003	5	0.1
														33483	287.0	289.0	0.12	-	0.003	5	0.1
														33484	289.0	291.0	0.06	-	0.001	5	0.1
33485	291.0	293.0	0.18	-	0.001	5	0.1														
33486	293.0	295.0	0.07	-	0.001	5	0.1														
33487	295.0	297.0	0.03	-	0.001	5	0.1														
33488	297.0	299.0	0.07	-	0.001	5	0.1														
33489	299.0	301.0	0.05	-	0.001	5	0.1														
33490	301.0	303.0	0.04	-	0.001	5	0.1														

Depth (m)		Description	%Py	%Cp	%Bo	%Mol	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
189.0	217.3	Bio-Qtz- Monzodiorite to Qtz Monzonite Crowded Porphyry, Fp1 variety, locally granophyric, medium to coarse grained. Numerous pink aplite dykes, 1-15 cm, 50-60° C.A., cut by qtz + py ± cpy vein- lets 0.5-4 mm. Moderate (6-10 per metre) cross- cutting qtz + py ± cpy veinlets, most with bleached qtz + ser envelopes. Cpy increasing in veinlets and microveins; weak cpy replacing mafics. Trace bornite with chalcocite in K-spar rich (monzontic) dykelet. Occasional ep alteration of feldspars.	2	0.5	-	-	2	2	2	2	-1	25	-1	33491	303.0	305.0	0.06	-	0.001	5	0.1
														33492	305.0	307.0	0.10	-	0.001	5	0.1
														33493	307.0	309.0	0.07	-	0.001	5	0.1
														33494	309.0	311.0	-	-	0.001	5	0.1
														33495	311.0	313.0	0.03	-	0.001	5	0.1
														33496	313.0	315.0	0.03	-	0.001	5	0.1
														33497	315.0	317.0	0.05	-	0.001	5	0.1
														33498	317.0	319.4	0.04	-	*last composite only 5 samples		
														End of Assay information							
217.3	245.0	Hbl-plag Crowded Porphyry D3. Bio after hbl. Fine grained groundmass, varies from dark grey brown, saussuritic, to pale green to bleached. Ep alteration of mafics & feldspars is conspicuous where least altered Py and trace to weak cpy replacing mafics. Py + qtz ± cpy veinlets, 0.5-2 mm, crosscutting, with weakly developed qtz + ser alteration envelopes, 15-20 per metre. Fault: 222.4-224.6 m, 30° C.A. with clay gouge, broken grey qtz veins, intense carb veining. Fault: 234.0 m, 5 cm clay gouge.	3	0.5	-	-	2	3	4	3	2	5	-1								
245.0	292.0	Bio-Qtz-Diorite to Monzodiorite: Qtz Diorite to Qtz Monzodiorite, medium to coarse grained. Intensely albitized with ep patches, weakly brecciated with open spaces and solution cavities 280.0-282.0 m. Probably Guichon variety, several strongly monzontic sections (dykes?) Abundant qtz + py ± cpy veinlets, 0.5-3 mm with moderate to strongly developed qtz + ser alteration envelopes. Veinlets frequently have open spaces/ vugs in their core, usually at 60-80° C.A., rarely 10-30° C.A., 20-30 per metre. Fracture py->pervasive py Weak cpy replacing mafics. MoS <sub>2</sub> with py locally in veinlets. **This interval may be intermixed Fp1 (Bethie- hem phase) and Guichon variety.	3	1.5	-	0.1	4	4	2	2	2	20	-1								



Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
292.0	319.4	Hbl-Bio-Qtz Monzodiorite to Granodiorite. Several parallel to subparallel "dykelets" ~ 1 cm, monzonitic, granophytic porphyry with diffuse contacts. Patchy interstitial K-feldspar and anhedral, interstitial Qtz. Local, weak plagioclase alignment, slightly porphyritic texture, variable mafic distribution suggests intermixed Gulchon and Fp1 (Bethlehem Phase). Numerous Qtz + chl + py + cpy veinlets, 15-20 per metre, 0.5-2 mm generally at 70-90° C.A. with weak to moderate developed Qtz + ser alteration envelopes. Chl/ser fracture filled. Chl after hbl/bio.	3	0.2	-	-	1	2	1	2	1	35	-1	continued core logging							
		EOH 319.4 m																			

Diamond Drill Log																									
Project:		Getty North Property										Location:				Azimuth		Dip							
Hole #:		96-17										Northing:		1 - background/fresh		4 - strong		Core: HQ		Collar		045		-60	
Date:		26-Apr-96										Easting:		2 - weak		5 - intense		NQ2 from 216.4							
Logged by:		VN										Elevation:		3 - moderate											
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																									
														Assays											
Depth (m)		Description	%Py	%Cp	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)				
From	To														From	To									
0.0	5.0	Overburden												33499	5.0	6.1	0.04	-	< .001	5	0.1				
5.0	21.0	Hbl-Bio-Granodiorite, Gulchon, weathered, strong pervasive yellow FeOx staining, FeOx fracture filled.					-1	2	4	2	2	12	3	33500	6.1	8.8	0.05	-	< .001	5	0.1				
		Several intensely altered, bleached porphyry sections.												33501	8.8	10.7	0.06	-	< .001	5	0.1				
		Moderate to strong pervasive ca alteration, numerous ca veinlets. Ep veinlets 1-2 mm. Pink, granophync porphyry dyke 30 cm at 21.0 m, 30° C.A.													33502	10.7	13.1	0.03	-	< .001	5	0.1			
		Ca veins and impregnation (healed shear?) 19.0-19.8 m, 20-30° C.A. Trace malachite on fractures.													33503	13.1	14.9	0.04	-	< .001	5	0.1			
															33504	14.9	17.0	0.05	-	< .001	5	0.1			
															33505	17.0	19.0	0.06	-	< .001	5	0.1			
															33506	19.0	21.0	0.03	-	< .001	5	0.1			
															33507	21.0	23.0	0.08	-	< .001	5	0.1			
															33508	23.0	25.0	0.03	-	< .001	5	0.1			
21.0	50.0	Hbl-Bio-Granodiorite with scattered fine grained mafic and porphyritic xenoliths 0.5-1 cm, Gulchon/Hybrid, medium grained. Chl-ep veinlets 0.5-5 mm, frequently with albite and diffuse ep alteration envelopes. Weak ep alteration of mafics and feldspars.					-1	1	-1	1	-1	25	-1	33510	27.0	29.0	0.03	-	0.001	5	0.1				
		Chl-ser fracture filled. Local strong pervasive albitization. Healed breccia 37.8-38.4 m, with strong pervasive albitization, crosscutting and irregular chl + ep veinlets, local strong disseminated/blebby cpy.													33511	29.0	31.0	0.05	-	0.001	5	0.1			
		Fracture sets at 20-80° C.A. Weak chl after hb/bio													33512	31.0	33.0	0.02	-	0.001	5	0.1			
		Moderately magnetic. Trace malachite on fractures to 23.0 m.													33513	33.0	35.0	0.02	-	0.001	5	0.1			
															33514	35.0	37.0	0.03	-	0.001	5	0.1			
															33515	37.0	39.0	0.18	-	0.001	5	0.1			
															33516	39.0	41.0	0.03	-	0.001	5	0.1			
															33517	41.0	43.0	0.07	-	0.001	5	0.1			
															33518	43.0	45.0	0.08	-	0.001	5	0.1			
															33519	45.0	47.0	0.03	-	< .001	5	0.1			
															33520	47.0	49.0	0.02	-	< .001	5	0.1			
													33521	49.0	51.0	0.02	-	< .001	5	0.1					
													33522	51.0	53.0	0.02	-	< .001	5	0.1					
													33523	53.0	55.0	0.02	-	< .001	5	0.1					
													33524	55.0	57.0	0.04	-	< .001	5	0.1					
													33525	57.0	59.0	0.07	-	< .001	5	0.1					
													33526	59.0	61.0	0.03	-	< .001	5	0.1					
													33527	61.0	63.0	0.04	-	< .001	5	0.1					
													33528	63.0	65.0	0.17	-	< .001	5	0.1					
													33529	65.0	67.0	0.04	-	0.003	5	0.1					

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Suff	%Mo	Au (g/t)	Ag (g/t)	
From	To														From	To						
50.0	110.0	Hbl-Bio-Qtz Diorite to Granodiorite scattered	1	0.3	tr	-	-1	2	2	2	-1	20	1	33530	67.0	69.0	0.01	-	0.003	5	0.1	
		chloritized mafic clots; probably stoped particles													33531	69.0	71.0	0.01	-	0.003	5	0.1
		(0.5-1.5 cm) Gulchon. Numerous chl + ep + py													33532	71.0	73.0	0.01	-	0.003	5	0.1
		veinlets 0.5-5 mm, usually with well developed alb/ep													33533	73.0	75.0	0.02	-	0.003	5	0.1
		alteration envelopes. Weak qtz + chl + py ± cpy													33534	75.0	77.0	0.03	-	0.003	5	0.1
		veinlets 1-3 mm. Weak cpy replacing mafics; trace													33535	77.0	79.0	0.08	-	0.003	5	0.1
		bornite with cpy. Ep alteration of mafics and feldspars													33536	79.0	81.0	0.02	-	0.003	5	0.1
		(weak)													33537	81.0	83.0	0.04	-	0.003	5	0.1
		[Hornblende needle-plagioclase crowded													33538	83.0	85.0	0.01	-	0.003	5	0.1
		porphyry (D4) dyke 65.3-72.7 m, with chilled, irregular													33539	85.0	87.0	0.02	-	0.001	5	0.1
		contacts. Trace to weak cpy replacing mafics.													33540	87.0	89.0	0.02	-	0.001	5	0.1
		Ser + ca + py + qtz + cpy veinlets at 20-30° C.A.,													33541	89.0	91.0	0.04	-	0.001	5	0.1
		usually with weakly developed blue-green sericitic?													33542	91.0	93.0	0.03	-	0.001	5	0.1
		alteration envelopes. Local red FeOx. Fault with													33543	93.0	95.0	0.02	-	0.001	5	0.1
		clay gouge 70.0-70.4 m, strong pervasive ser-ca													33544	95.0	97.0	0.02	-	0.001	5	0.1
		alteration above fault.] Several 15-20 cm partially													33545	97.0	99.0	0.01	-	0.001	5	0.1
		assimilated, fine grained mafic xenoliths. Patchy,													33546	99.0	101.0	0.02	-	0.001	5	0.1
		strong pervasive fracture/vein controlled alb alteration													33547	101.0	103.0	0.08	-	0.001	5	0.1
		often with diffuse ep patches. Several aplite dykelets													33548	103.0	105.0	0.03	-	0.001	5	0.1
		110.0	128.0	3-10 cm at 80-90° C.A. Fracture sets at 30, 45, 60°												33549	105.0	107.0	0.03	-	0.001	5
C.A. Fault 101.5-102.5 m with strong ca veins and														33550	107.0	109.0	0.03	-	0.001	5	0.1	
impregnation above and below clay gouge.														33551	109.0	111.0	0.04	-	0.001	5	0.1	
														33552	111.0	113.0	0.03	-	0.001	5	0.1	
Hbl-Bio-Granodiorite, Gulchon, weak fault	1			0.2	-	tr	1	2	2	2	1	20	-1	33553	113.0	115.0	0.01	-	0.001	5	0.1	
zone.															33554	115.0	117.0	0.02	-	0.001	5	0.1
Fault: 110.0-113.0 m, broken/shattered with several															33555	117.0	119.0	0.03	-	0.001	5	0.1
10-20 cm sections of clay gouge with milled clasts.															33556	119.0	121.0	0.02	-	0.001	5	0.1
110.0	128.0	Fault: 118.0-119.0 m, probably reactivated;												33557	121.0	123.0	0.03	-	0.001	5	0.1	
		brecciated ca and qtz veins, some open spaces,												33558	123.0	125.0	0.03	-	0.001	5	0.1	
		thin gouge. Shear at 30-50° C.A. Strong pervasive												33559	125.0	127.0	0.02	-	0.003	5	0.2	
		chl-ser-ca alteration above fault.												33560	127.0	129.0	0.03	-	0.003	5	0.2	
		Feldspars dark, saussuritized, ghost-like, generally													33561	129.0	131.0	0.03	-	0.003	5	0.2
		still hard. Several 2-3 cm aplite dykes, 50-60° C.A.													33562	131.0	133.0	0.05	-	0.003	5	0.2
		Weak ep-ca veinlets 1-2 mm, 4-5 per metre, crosscut-													33563	133.0	135.0	0.08	-	0.003	5	0.2
		ting. Weak qtz + ca + py ± cpy veinlets 0.5-2 mm,													33564	135.0	137.0	0.05	-	0.003	5	0.2
		crosscutting. Weak chl after bio. Hem after mag.													33565	137.0	139.0	0.06	-	0.003	5	0.2
		Broken, irregular contact with contaminated, crowded													33566	139.0	141.0	0.05	-	0.003	5	0.2
feldspar porphyry (Fp1?) at bottom. Pervasive ep-alb													33567	141.0	143.0	0.06	-	0.003	5	0.2		
alteration increases near contact.													33568	143.0	145.0	0.04	-	0.003	5	0.2		

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
128.0	151.0	Contaminated Crowded Feldspar Porphyry (Fp1?). locally granophytic, 2-5 mm plagioclase phenos	3	0.2	0.05	0.05	4	4	3	2	2	3	1	33569	145.0	147.0	0.03	-	0.001	5	0.2
		Weakly brecciated with some open spaces. Strong ser-ca fracture filled. Moderate qtz + ser + py ± cpy veinlets, 5-10 per metre, with qtz + ser envelopes < 1 cm												33570	147.0	149.0	0.02	-	0.001	5	0.2
														33571	149.0	151.0	0.04	-	0.001	5	0.2
														33572	151.0	153.0	0.06	-	0.001	5	0.2
														33573	153.0	155.0	0.07	-	0.001	5	0.2
														33574	155.0	157.0	0.08	-	0.001	5	0.2
151.0	166.0	Qtz-Feldspar Crowded Porphyry, probably Fp1. numerous cross cutting qtz + ca + py ± cpy veinlets	4	1	-	0.05	4	5	3	2	2	5	-1	33575	157.0	159.0	0.05	-	0.001	5	0.2
		0.5-3 mm with strongly developed qtz + ser envelopes												33576	159.0	161.0	0.06	-	0.001	5	0.2
		0.5-4 cm. Some open spaces in fractures and veinlets												33577	161.0	163.0	0.06	-	0.001	5	0.2
		Fracture sets at 50-70° C.A. and subparallel to C.A.												33578	163.0	165.0	0.08	-	0.001	5	0.2
		<b>Fault:</b> 151.8-155.5 m with several crushed/milled sections, clay gouge. Shear at ~ 50° C.A. Py and cpy replacing mafics. Py veinlets > pervasive py.												33579	165.0	167.0	0.08	-	<.001	5	0.1
		Cpy 1-1.5%.												33580	167.0	169.0	0.04	-	<.001	5	0.1
														33581	169.0	171.0	0.04	-	<.001	5	0.1
														33582	171.0	173.0	0.05	-	<.001	5	0.1
														33583	173.0	175.0	0.14	-	<.001	5	0.1
														33584	175.0	177.0	0.04	-	<.001	5	0.1
166.0	194.0	Contaminated Qtz-Feldspar Crowded Porphyry Fp1 variable granophytic groundmass and dykelets.	2	1	-	0.05	2	2	1	2	-1	15	-1	33585	177.0	179.0	0.04	-	<.001	5	0.1
		Numerous partially assimilated xenoliths - some porphyritic, leucocratic; others resemble Hybrid Phase												33586	179.0	181.0	0.05	-	<.001	5	0.1
		diorite and Guichon Hbl-Bio Granodiorite. [Leucocratic grey Hbl-plagioclase crowded porphyry dyke (probably "D3" related) 173.4-174.4 m, with disseminated py and cpy replacing mafics. Polymictic, brecciated upper contact]. Moderate qtz + chl + py ± cpy veinlets (~ 15 per metre) 0.5-3 mm, at 50-80° C.A.,												33587	181.0	183.0	0.05	-	<.001	5	0.1
		with weak/moderately developed qtz + ser alteration envelopes. Py and weak cpy replacing mafics. Weak ep alteration of mafics. Chl after bio. Hem after mag.												33588	183.0	185.0	0.04	-	<.001	5	0.1
		Moderately magnetic. Py veinlets > pervasive py.												33589	185.0	187.0	0.04	-	<.001	5	0.1
														33590	187.0	189.0	0.04	-	<.001	5	0.1
														33591	189.0	191.0	0.09	-	<.001	5	0.1
														33592	191.0	193.0	0.06	-	<.001	5	0.1
														33593	193.0	195.0	0.08	-	<.001	5	0.1
														33594	195.0	197.0	0.05	-	<.001	5	0.1
														33595	197.0	199.0	0.05	-	<.001	5	0.1
														33596	199.0	201.0	0.04	-	<.001	5	0.1
														33597	201.0	203.0	0.04	-	<.001	5	0.1
														33598	203.0	205.0	0.04	-	<.001	5	0.1
														33599	205.0	207.0	0.03	-	0.003	5	0.2
														33600	207.0	209.0	0.04	-	0.003	5	0.2
														33601	209.0	211.0	0.03	-	0.003	5	0.2
														33602	211.0	213.0	0.11	-	0.003	5	0.2
														33603	213.0	215.0	0.35	-	0.003	5	0.2
														33604	215.0	217.0	0.06	-	0.003	5	0.2
														33605	217.0	219.0	0.05	-	0.003	5	0.2
														33606	219.0	221.0	0.05	-	0.003	5	0.2
														33607	221.0	223.0	0.06	-	0.003	5	0.2

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Suff	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
194.0	212.0	Contaminated Qtz-Feldspar Crowded Porphyry Fp1	2	1	-	-	1	4	3	3	1	12	-1	33608	223.0	225.0	0.20	-	0.003	5	0.2
		plagioclase phenos and groundmass darker, saussuritic. Local fracture controlled intense ser-ca alteration												33609	225.0	227.0	0.15	-	0.002	5	0.1
		Local strong pervasive alb/ep alteration. Moderate Qtz												33610	227.0	229.0	0.27	-	0.002	5	0.1
		+ py + chl + cpy veinlets (10-15 per metre), 1-3 mm, with weak to moderately developed Qtz + ser alteration												33611	229.0	231.0	0.23	-	0.002	5	0.1
		envelopes, crosscutting. Fracture sets at 30-70° C.A.												33612	231.0	233.0	0.21	-	0.002	5	0.1
		Pervasive re FeOx staining with ep at 210.0 m. Dark grey interval at 200.0 m, with diffuse contacts, appears strongly saussuritic, phenos ghost-like, equigranular - possibly Guichon variety xenolith? Strong ser-ca												33613	233.0	235.0	0.15	-	0.002	5	0.1
		fracture filled. Cpy veinlets > cpy disseminated.												33614	235.0	237.0	0.32	-	0.002	5	0.1
		Cpy 1-1.5 %												33615	237.0	239.0	0.52	-	0.002	5	0.1
														33616	239.0	241.0	0.40	-	0.002	5	0.1
														33617	241.0	243.0	0.44	-	0.002	5	0.1
														33618	243.0	245.0	0.46	-	0.002	5	0.1
														33619	245.0	247.0	0.46	-	0.009	5	0.1
														33620	247.0	249.0	0.41	-	0.009	5	0.1
212.0	233.5	NQ2 starts at 216.4 m. Hbl-Bio-Qtz Diorite to Granodiorite. Probably Bethlehem Phase	0.2	1.5	-	0.05	2	3	2	2	0.1	30	-1	33621	249.0	251.0	0.39	-	0.009	5	0.1
		Light grey, medium grained, equigranular, irregular distribution of largest mafics (~ 0.5 cm). Weak, patchy interstitial K-spar, Qtz is mostly interstitial.												33622	251.0	253.0	0.35	-	0.009	5	0.1
		Fault: 212.7-214.9 m, shear at 30° C.A., local clay gouge ~ 10 cm, strong chl-ser alteration.												33623	253.0	255.0	0.48	-	0.009	5	0.1
		Diffuse ep bands, ep alteration envelopes on Qtz + chl + ca veinlets. Patchy pervasive alb alteration.												33624	255.0	257.0	0.30	-	0.009	5	0.1
		Numerous Qtz + chl + py + cpy veinlets (20-25 per metre), crosscutting. Leucocratic, grey porphyry dyke 231.0-232.8 m with fragments of wallrock. Plagioclase phenos crowded, ghost-like; irregular distribution of chloritized mafic clots with py and weak cpy; probably related to "D3" hornblende-plag crowded porphyry. Cpy and weak py replacing mafics.												33625	257.0	259.0	0.40	-	0.009	5	0.1
		Chl after hbl/bio. Weak to moderately magnetic.												33626	259.0	261.0	0.38	-	0.009	5	0.1
		Trace fine grained MoS <sub>2</sub> in veinlets with cpy.												33627	261.0	263.0	0.20	-	0.009	5	0.1
														33628	263.0	265.0	0.32	-	0.009	5	0.1
														33629	265.0	267.0	0.41	-	0.004	5	0.2
														33630	267.0	269.0	0.50	-	0.004	5	0.2
														33631	269.0	271.0	0.55	-	0.004	5	0.2
														33632	271.0	273.0	0.56	-	0.004	5	0.2
														33633	273.0	275.0	0.50	-	0.004	5	0.2
														33634	275.0	277.0	0.59	-	0.004	5	0.2
														33635	277.0	279.0	0.47	-	0.004	5	0.2
														33636	279.0	281.0	0.19	-	0.004	5	0.2
														33637	281.0	283.0	0.25	-	0.004	5	0.2
														33638	283.0	285.0	0.28	-	0.004	5	0.2
														33639	285.0	287.0	0.23	-	0.001	5	0.1
														33640	287.0	289.0	0.22	-	0.001	5	0.1
														33641	289.0	291.0	0.23	-	0.001	5	0.1
														33642	291.0	293.0	0.36	-	0.001	5	0.1
														33643	293.0	295.0	0.17	-	0.001	5	0.1
														33644	295.0	297.0	0.14	-	0.001	5	0.1
														33645	297.0	299.0	0.21	-	0.001	5	0.1
														33646	299.0	301.0	0.17	-	0.001	5	0.1

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
233.5	258.5	Diffuse contact with Bio-Qtz Monzonite to Qtz	0.2	1.5	-	0.1	3	3	2	2	-1	13	-1	33647	301.0	303.0	0.11	-	0.001	5	0.1
		Monzonite Granophytic Crowded Porphyry. Probably												33648	303.0	305.0	0.22	-	0.001	5	0.1
		Bethlehem Phase related Abundant crosscutting												33649	305.0	307.0	0.28	-	0.001	5	0.1
		qtz + chl + cpy ± py ± mo veinlets, most at 30-40° C.A.												33650	307.0	309.0	0.15	-	0.001	5	0.1
		Few at 70-80° C.A. Weak to moderately developed												33651	309.0	311.0	0.21	-	0.001	5	0.1
		qtz + ser + chl alteration envelopes on veinlets. Strong												33652	311.0	313.0	0.14	-	0.001	5	0.1
		ser-ca fracture filled. Conspicuous fine grained MoS <sub>2</sub>												33653	313.0	315.0	0.32	-	0.001	5	0.1
		on slips and fractures. Two veinlets, 0.5 cm, remobil-												33654	315.0	317.0	0.22	-	0.001	5	0.1
		ized cpy. Chl after bio. Trace to weak magnetic. Weak												33655	317.0	319.0	0.24	-	0.001	5	0.1
		red FeOx stained feldspars - hem after mag. Several												33656	319.0	321.0	0.24	-	0.001	5	0.1
		1-3 cm pink aplite dykelets 40-50° C.A. Fracture sets												33657	321.0	323.0	0.17	-	0.001	5	0.1
		at 60-70° C.A. and subparallel. Fine grained dissem-												33658	323.0	325.0	0.18	-	0.001	5	0.1
		inated cpy replacing mafics												33659	325.0	327.0	0.11	-	0.001	5	0.1
														33660	327.0	329.0	0.18	-	0.001	5	0.1
258.5	279.0	Probably same unit as previous but strongly qtz + alb	0.1	0.3	0.1	-	4	3	2	2	2	25	-1	33661	329.0	331.0	0.18	-	0.001	5	0.1
		altered 258.5-268.5 m (compositionally a tonalite?)												33662	331.0	333.0	0.29	-	0.001	5	0.1
		Becomes strongly sennitic down section, with several												33663	333.0	335.0	0.14	-	0.001	5	0.1
		10-15 cm clay gouge sections - Shear at 40-50° C.A.												33664	335.0	337.0	0.24	-	0.001	5	0.1
		Strong ser-ca fracture filled. Fracture sets 30-70°												33665	337.0	339.0	0.23	-	0.001	5	0.1
		C.A. and subparallel. Qtz veins 2-10 mm, 3-4 per metre,												33666	339.0	341.0	0.24	-	0.001	5	0.1
		with weakly developed alteration envelopes. Trace to												33667	341.0	343.0	0.35	-	0.001	5	0.1
		weak bo/Cc in vein selvages; cpy beaded in vein												33668	343.0	345.0	0.24	-	0.001	5	0.1
		cores. Weak cpy replacing mafics, subordinate bo/												33669	345.0	347.0	0.22	-	0.001	5	0.1
		Cc (strongly tarnished) replacing mafics. Chl after bio.												33670	347.0	349.0	0.20	-	0.001	5	0.1
		Hem after mag. Contact at 274.0 m, separated by												33671	349.0	351.0	0.22	-	0.001	5	0.1
		2 cm ca vein at 50° C.A.												33672	351.0	353.0	0.28	-	0.001	5	0.1
														33673	353.0	355.0	0.24	-	0.001	5	0.1
														33674	355.0	357.0	0.27	-	0.001	5	0.1
														33675	357.0	359.0	0.33	-	0.001	5	0.1
														33676	359.0	361.0	0.51	-	0.001	5	0.1
														33677	361.0	363.0	0.50	-	0.001	5	0.1
														33678	363.0	365.0	0.52	-	0.001	5	0.1
														33679	365.0	367.0	0.53	-	<.001	5	0.3
														33680	367.0	369.0	0.54	-	<.001	5	0.3
														33681	369.0	371.0	0.81	-	<.001	5	0.3
														33682	371.0	373.0	0.76	-	<.001	5	0.3
														33683	373.0	375.0	0.27	-	<.001	5	0.3
														33684	375.0	377.0	0.44	-	<.001	5	0.3
														33685	377.0	379.0	0.32	-	<.001	5	0.3

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
279.0	321.0	<b>May be Bethlehem Phase related, possible "D3"</b>	0.5	0.1	-	-	2	4	3	3	1	5	-1	33686	379.0	381.0	0.48	-	< 0.01	5	0.3
		porphyry; strong alteration masks original texture. Fine to medium grained, grey-brown to green-grey; where least altered appears weakly porphyritic with irregular distribution of chloritized mafic clots, ghost-like plagioclase phenos, Py> cpy replacing mafics and in veinlets												33587	381.0	383.0	0.46	-	< 0.01	5	0.3
														33688	383.0	385.0	0.34	-	< 0.01	5	0.3
														33689	385.0	387.0	0.51	-	< 0.01	5	0.1
														33690	387.0	389.0	0.35	-	< 0.01	5	0.1
														33691	389.0	391.0	0.29	-	< 0.01	5	0.1
		<b>Fault</b> 282.0-284.7 m. 292.2-293.0 m. Strong ca veins and pervasive alteration. Shear at 20-40° C.A.												33692	391.0	393.0	0.37	-	< 0.01	5	0.1
		Fracture sets 30-60° C.A., less frequently 20, 70° C.A.												33693	393.0	395.0	0.3	-	< 0.01	5	0.1
		Ser-ca fracture filled. Sparse qtz veins, ~ 0.5 cm, 1-2 per metre, without distinct envelopes. Weak qtz + chl + py ± cpy veinlets, 0.5-1 mm, 4-5 per metre, crosscutting. Numerous red-orange aplite dykes/dykelets, 2 mm- 5 cm, crosscutting, increasing frequency down section; often with cpy blebs; many dykelets are "bent".												33694	395.0	397.0	0.45	-	< 0.01	5	0.1
		2 cm qtz vein with drusy calcite in vugs 319.0 m. Strong ser-clay alteration above and below vein.												33695	397.0	399.0	0.4	-	< 0.01	5	0.1
														33696	399.0	401.0	1.24	-	< 0.01	5	0.1
														33697	401.0	403.0	0.43	-	< 0.01	5	0.1
														33698	403.0	405.0	0.61	-	< 0.01	5	0.1
														33699	405.0	407.0	1.39	-	0.002	5	0.1
														33700	407.0	409.0	0.48	-	0.002	5	0.1
														33701	409.0	411.0	0.45	-	0.002	5	0.1
														33702	411.0	413.0	0.45	-	0.002	5	0.1
														33703	413.0	415.0	0.4	-	0.002	5	0.1
321.0	354.8	<b>Hornblende?-Plagioclase Crowded Porphyry "D3":</b>	1	0.2	0.05	-	2	3	2	2	1	14	-1	33704	415.0	417.0	0.43	-	0.002	5	0.1
		fine to medium grained (1-3 mm) plagioclase phenos, irregularly distributed mafic clots; fine grained grey-green (probably saussuritized) groundmass.												33705	417.0	419.0	0.44	-	0.002	5	0.1
		Mafics generally strongly chl-ser altered. Py>>cpy replacing mafics. Several 4-5 cm xenoliths of wallrock (Guichon?) with strong cpy replacing mafics. Ser-chl-ca fracture filled. RQD decreases down section.												33706	419.0	421.0	0.41	-	0.002	5	0.1
		Numerous red-orange aplite dykes/dykelets 2 mm-3 cm, 40-50° C.A., occasionally with cpy blebs.												33707	421.0	423.0	0.49	-	0.002	5	0.1
		Separate family of coarser-grained granophyric (monzonitic) dykes/veins?, 0.5-10 cm, commonly with cpy blebs, and occasionally bo/Cc with cpy. These often have either qtz cores or margins. Also 40-50° C.A. Aplites post-date qtz veins. Qtz veins, 1-2 cm, 1-2 per metre, 50° C.A. No distinct alteration envelopes on veins or dykes. Preferential cpy ± bo/Cc mineralization on fractures 40-50° C.A., increasing down section. Unusual equant to prismatic grains 1-3 mm, ~ 5-7% vol., containing very fine grained mag?												33708	423.0	425.0	0.47	-	0.002	5	0.1
		Dark grey black, sub-metallic appearance. (cont'd)												33709	425.0	427.0	0.36	-	0.006	5	0.2
														33710	427.0	429.0	0.43	-	0.006	5	0.2
														33711	429.0	431.0	0.42	-	0.006	5	0.2
														33712	431.0	433.0	0.43	-	0.006	5	0.2
														33713	433.0	435.0	0.39	-	0.006	5	0.2
														33714	435.0	437.0	0.72	-	0.006	5	0.2
														33715	437.0	439.0	0.38	-	0.006	5	0.2
														33716	439.0	441.0	0.42	-	0.006	5	0.2
														33717	441.0	443.0	0.45	-	0.006	5	0.2
														33718	443.0	445.0	0.49	-	0.006	5	0.2
														33719	445.0	447.0	0.59	-	0.003	5	0.1
														33720	447.0	449.0	0.22	-	0.003	5	0.1
														33721	449.0	451.0	0.22	-	0.003	5	0.1
														33722	451.0	453.0	0.11	-	0.003	5	0.1
														33723	453.0	455.0	0.08	-	0.003	5	0.1
														33724	455.0	457.0	0.05	-	0.003	5	0.1

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
	cont'd	Chilled contact 354.8 m w/ equigranular unit, ~ 30° C.A.												33725	457.0	459.0	0.02	-	0.003	5	0.1
354.8	389.0	Biotite?-Qtz Diorite to Qtz Monzodiorite - Gulchon variety? or Hybrid? Medium to coarse grained, equigranular. Weak Fault Zone. Fault: 365.6-365.8 m - 50° C.A.; clay gouge and intense ser-ca-clay alteration, broken ca veins, 2-3 cm. Strong red FeOx staining above and below fault. Fault: 372.3-373.1 m, 30-40° C.A.; thin clay gouge and intense ser-ca-clay alteration. Ca veins 3-4 cm, Strong re FeOx staining above fault. Fault: 377.5-378.0 m; 40-50° C.A., crushed/milled with thin gouge. Strong red FeOx staining above and below fault. [Porphyry dyke 359.6-360.9 m; probably D3 related; strongly qtz + ser altered with red FeOx staining at top. Fault: 385.5-386.5 m; 30-40° C.A. ~ 40 cm clay gouge. Intermittent strong red FeOx with intense ser, moderate to strong ca alteration. Weak qtz veins 0.5-1 cm, 4-5 per metre; without distinct alteration envelopes; occasionally with minor cpy; 30-50° C.A. Aplite dykes, pale orange to tan, 0.5-10 cm, decreasing frequency down section; crosscutting, often with bo/Cc and magnetite on margins, cut by bo/Cc microveins. Local massive mag with cpy veinlets 363.0 m Ca veins <1 cm, subparallel. Chl + ser ± clay after bio. Hem after mag. Cpy >>py replacing mafics and in veinlets.	0.1	0.5	0.3	-	3	4	3	3	2	27	2	33726	459.0	461.0	0.04	-	0.003	5	0.1
														33727	461.0	463.0	0.06	-	0.003	5	0.1
														33728	463.0	465.0	0.04	-	0.003	5	0.1
														33729	465.0	467.0	0.04	-	< .001	5	0.1
														33730	467.0	469.0	0.02	-	< .001	5	0.1
														33731	469.0	471.0	0.02	-	< .001	5	0.1
														33732	471.0	473.0	0.02	-	< .001	5	0.1
														33733	473.0	475.5	0.01	-	*last composite only 5 samples		
														End of Assay Information							



Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
389.0	442.0	<p>Bio-Qtz-Diorite, Qtz Diorite to Granodiorite, probably <b>Guichon</b> variety. Overall alteration decreasing. Strong ser-ca fracture filled occasional ep + ca veinlets, local weak ep alteration envelopes on fractures. Strong fracture sets 30-40° C.A., less frequently at 90° and subparallel. Preferential cpy + bo/Cc mineralization on 30-40° set. Bo/Cc as veinlets 0.5-1 mm and replacing mafics with cpy ends at ~ 405.0 m. Cpy&gt;&gt;py replacing mafics. Qtz veins 0.5-2.5 cm with chl + cpy + bo/Cc selvages; several with continuous 2-5 mm cpy + bo/Cc cores; 30-40° C.A. Several 0.5-1 cm cpy + bo/Cc fracture filling - 30° C.A. Abundant qtz + chl + cpy + bo/Cc veinlets, 30-40° C.A., 20-30 per metre, decreasing slightly down section. MoS<sub>2</sub> in qtz veins, on fractures and slips, increasing slightly down section. Ser + chl after bio. Hem after mag. Patchy pervasive alb alteration. Cpy veinlets &gt; cpy pervasive 1-1.5%. Bo/Cc 0.2-0.5%</p>	0.1	1	0.2	0.05	3	2	2	3	-1	20	1	Continued Core Logging.							
442.0	475.5	<p>Hbl-bio-Qtz Diorite to Qtz Monzodiorite, <b>Guichon</b>. Locally slightly porphyritic with irregular mafic distribution, suggestive of Bethlehem Phase. Decreasing pervasive alteration down section. Fracture sets at 30-60° C.A., less frequently at 70-80° and subparallel. Local weak foliation. <b>Fault:</b> 445.0-450.5 m, ~ 50° C.A., strong to intense chl + ser + ca + clay alteration. Patchy red FeOx staining. Irregular ca veins &lt; 1 cm associated with Fault zone. Qtz + py + mo ± cpy veins 0.5-1 cm, 20-30° C.A., &lt; 1 per metre, with chl selvages and qtz + ser envelopes. Strong chl + ser + ca fracture filled, increasing chl down section. Chl after hbl/bio. Weak hem after mag. Moderately magnetic. Weak qtz + chl + py ± cpy veinlets 0.5-2 mm, with weak chl + ser envelopes, occasionally w/ diffuse ep envelopes. Trace to weak py&gt;&gt;cpy replacing mafics.</p> <p style="text-align: center;"><b>EOH 475.5 m</b></p>	1	0.2	-	0.05	-1	2	2	1	1	35	-1								

Diamond Drill Log																									
Project:		Getty North Property				Location:												Azimuth		Dip					
Hole #:		96-18				Northing:		1 - background/fresh				4 - strong				Core:		HQ		Collar		090		-60	
Date:		6-May-96				Easting:		2 - weak				5 - intense				NQ2 from 141.4									
Logged by:		VN, DB				Elevation:		3 - moderate																	
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																									
													Assays												
Depth (m)		Description	%Py	%Cp	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)				
From	To														From	To									
0.0	3.7	Casing/Overburden. Bio-Qtz-Diorite (Guichon)												33734	3.7	6.0	0.01	-	0.001	5	0.1				
		boulders. Rhyodacite (T <sub>v</sub> ) boulders with lithic fragments.												33735	6.0	8.0	0.02	-	0.001	5	0.1				
														33736	8.0	10.0	0.04	-	0.001	5	0.1				
														33737	10.0	12.0	0.09	-	0.001	5	0.1				
3.7	86.0	Hbl-Bio-Qtz Monzodiorite to Granodiorite.	0.1	0.2	0.05	-	1	2	2	2	2	25	-1	33738	12.0	14.0	0.08	-	0.001	5	0.1				
		Guichon/Hybrid, locally fine-grained, mafic rich												33739	14.0	16.0	0.05	-	0.001	5	0.1				
		(partially assimilated xenoliths - some are slightly porphyritic). Fresh to weak saussuritic matrix with												33740	16.0	18.0	0.15	-	0.001	5	0.1				
		zones of moderate alteration. 3.7-30.0 m. Moderate												33741	18.0	20.0	0.15	-	0.001	5	0.1				
		pervasive alb/ep, veins with py + cpy ± bo at ~ 50° C.A.,												33742	20.0	22.0	0.04	-	0.001	5	0.1				
		1 mm-15 cm, 10 per metre. Rock matrix moderately												33743	22.0	24.0	0.04	-	0.001	5	0.1				
		magnetic, weak to non-magnetic where altered. Ep												33744	24.0	26.0	0.10	-	0.001	5	0.1				
		occurs in clots and veins with chl and cpy. Local vein												33745	26.0	28.0	0.04	-	0.001	5	0.1				
		controlled hydrothermal K-feldspar. Py cpy = 1.1.												33746	28.0	30.0	0.03	-	0.001	5	0.1				
		30.0-35.8 m: dark green, strong chl + ser + clay + ca												33747	30.0	32.0	0.19	-	0.001	5	0.1				
		alteration, broken, at 35-45° C.A.; local gouge 3-4 cm.												33748	32.0	34.0	0.04	-	0.001	5	0.1				
		top 1 m moderate to strong alb/ep. 35.8-70.0 m:												33749	34.0	36.0	0.06	-	0.001	5	0.1				
		variable chl + ep + alb ± secondary K-feldspar filled												33750	36.0	38.0	0.02	-	0.001	5	0.1				
		fractures ± cpy, 1 mm-2 cm, 10-20 per metre, at 50°												33751	38.0	40.0	0.02	-	0.001	5	0.1				
		C.A. Local gouge ~ 4 cm, 60° C.A. 53.0-56.0 m:												33752	40.0	42.0	0.04	-	0.001	5	0.1				
		pale green veins/fracture filling 2 mm-1.5 cm, 50-70°												33753	42.0	44.0	0.03	-	0.001	5	0.1				
		C.A., ser + clay. Dykes 58.5-59.0 m and 64.6-64.7 m,												33754	44.0	46.0	0.04	-	0.001	5	0.1				
		Chilled, pale green-brown, granophyric groundmass,												33755	46.0	48.0	0.02	-	0.001	5	0.1				
		qtz-feldspar monzonite porphyry, zoned plagioclase												33756	48.0	50.0	0.03	-	0.001	5	0.1				
		phenos, moderate to strong mag; cpy replacing												33757	50.0	52.0	0.02	-	0.001	5	0.1				
		sericitic mafics (probably biotite). Contacts 50-60°												33758	52.0	54.0	0.03	-	0.001	5	0.1				
		C.A., with chl + ep + cpy along contact. Pale												33759	54.0	56.0	0.03	-	0.001	5	0.1				
		orange FeOx ± secondary K-feldspar in alb alteration												33760	56.0	58.0	0.02	-	0.001	5	0.1				
		envelopes on fractures and veinlets. 83.5-85.5 m:												33761	58.0	60.0	0.04	-	0.001	5	0.1				
		dark green, strong chl + ser + clay + ca alteration,												33762	60.0	62.0	0.03	-	0.001	5	0.1				
		broken; 20 cm clay gouge; at 30° C.A.												33763	62.0	64.0	0.08	-	0.001	5	0.1				
														33764	64.0	66.0	0.05	-	0.001	5	0.1				

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au(ppb)	Ag (g/t)
From	To														From	To					
86.0	148.0	Hbl-Bio-Qtz Diorite: Qtz diorite to Granodiorite.	0.2	0.1	-	-	1	2	2	2	2	30	-1	33765	66.0	68.0	0.13	-	0.001	5	0.1
		Gulchon variety. Medium grained, local wk foliation,												33766	68.0	70.0	0.06	-	0.001	5	0.1
		red-pink mottled. Fresh to moderate saussuritic matrix												33767	70.0	72.0	0.02	-	0.001	5	0.1
		with zones of moderate to strong fract/vein controlled												33768	72.0	74.0	0.03	-	0.001	5	0.1
		alb + ep + chl alteration. Strong ser + ca fracture filled.												33769	74.0	76.0	0.04	-	0.001	5	0.1
		Numerous ep + chl + ca + py + cpy vnts at 40-60° C.A.												33770	76.0	78.0	0.03	-	0.001	5	0.1
		0.5-5 mm. 15-25/metre, usually with well developed,												33771	78.0	80.0	0.03	-	0.001	5	0.1
		orange FeOx stained abl + ep + chl altn envelopes.												33772	80.0	82.0	0.05	-	0.001	5	0.1
		Fract sets at 40-60° C.A., less frequently 20, 70-80°												33773	82.0	84.0	0.06	-	0.001	5	0.1
		C.A. Trace to weak py>cpy replacing mafics - usually												33774	84.0	86.0	0.04	-	0.002	5	0.1
		within alteration envelopes. 110.0-113.5 m: mod to												33775	86.0	88.0	0.04	-	0.002	5	0.1
		strong pervasive chl + ser + ca altn, broken, 10-20 cm												33776	88.0	90.0	0.02	-	0.002	5	0.1
		clay gouge with rounded clasts. red FeOx fract coating												33777	90.0	92.0	0.04	-	0.002	5	0.1
		112-113.0 m. Tr MoS <sub>2</sub> , 114.2 m in crushed zone. Mod-												33778	92.0	94.0	0.04	-	0.002	5	0.1
		erately magnetic, weak to non-magnetic where altered												33779	94.0	96.0	0.06	-	0.002	5	0.1
		and orange FeOx stained. Py in vnts increases slightly												33780	96.0	98.0	0.03	-	0.002	5	0.1
		down section. 131.1-131.4 m: pink, aplitic, qtz-fsp												33781	98.0	100.0	0.05	-	0.002	5	0.1
		monzonite porphyry dyke; at 40° C.A., scattered cpy												33782	100.0	102.0	0.10	-	0.002	5	0.1
		blebs replacing mafics. 133.3-133.6 m: intense white												33783	102.0	104.0	0.06	-	0.002	5	0.1
		clay alteration/gouge ~ 90° C.A. HQ core ends 141.4 m.												33784	104.0	106.0	0.04	-	0.002	5	0.1
		Several 1-3 cm Qtz-feldspar monzonite porphyry												33785	106.0	108.0	0.02	-	0.002	5	0.1
		dykelets; granophyric groundmass; 60-70° C.A.;												33786	108.0	110.0	0.03	-	0.002	5	0.1
		contacts not chilled												33787	110.0	112.0	0.22	-	0.002	5	0.1
														33788	112.0	114.0	0.11	-	0.002	5	0.1
148.0	211.8	Hbl-Bio-Qtz Monzoniorite, Gulchon/Bethlehem;	0.1	0.1	-	-	1	2	1	2	-1	50	-1	33789	114.0	116.0	0.01	-	0.002	5	0.1
		variable composition. Qtz Diorite to Granodiorite locally												33790	116.0	118.0	0.07	-	0.002	5	0.1
		cut by monzoniorite. Pale cream to pink-grey												33791	118.0	120.0	0.02	-	0.002	5	0.1
		feldspar/Qtz matrix with weak chl after bio. Ca + chl +												33792	120.0	122.0	0.04	-	0.002	5	0.1
		ep + alb + K-spar alteration occurs in fractures 1-5 mm												33793	122.0	124.0	0.03	-	0.002	5	0.1
		with pervasive envelopes. Py, cpy occurs with ep and												33794	124.0	126.0	0.06	-	0.002	5	0.1
		replaces weakly sennitic mafics. Moderately magnetic,												33795	126.0	128.0	0.05	-	0.002	5	0.1
		weak to non-magnetic where altered. Fracture sets												33796	128.0	130.0	0.07	-	0.002	5	0.1
		at 40-50° C.A. Ep + Qtz + py + cpy to 5 cm, locally,												33797	130.0	132.0	0.06	-	0.002	5	0.1
		vuggy with coarse py crystals. 177.0-185.0 m: pink-												33798	132.0	134.0	0.04	-	0.002	5	0.1
		grey bio-Qtz-diorite, Bethlehem phase.												33799	134.0	136.0	0.03	-	0.002	5	0.1
		188.0-195.0 m: several fine grained Qtz-feldspar												33800	136.0	138.0	0.01	-	0.002	5	0.1
		monzonite porphyry dykelets 1-10 cm, with albite												36601	138.0	140.0	0.01	-	0.002	5	0.1
		envelopes. Qtz + ep + ca + mo + py + cpy vein ~ 10 cm												36602	140.0	142.0	0.01	-	0.002	5	0.1
		at 190.5 m. 195.0-204.0 m: moderate to (cont'd)												36603	142.0	144.0	0.04	-	0.002	5	0.1

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
From	To														From	To						
211.8	235.3	cont'd												36604	144.0	146.0	0.10	-	0.002	5	0.1	
		strong chl + alb altered, mottled. <b>204.0-211.8 m:</b> Bio-monzodiorite to qtz-diorite, Guichon variety													36605	146.0	148.0	0.03	-	0.002	5	0.1
															36606	148.0	150.0	0.01	-	0.002	5	0.1
		Grey, fine grained feldspar porphyry, <u>diorite</u> , weakly sericitic matrix, chl + ser altered mafic, uniform texture minor ca fracture filled. <b>Rare ep alteration</b> bottom contact at 20° C.A. Top contact brecciated with clay gouge at ~ 90° C.A.	-1	-1	-1	-1	-1	2	3	2	2	2	50	-1	36607	150.0	152.0	0.02	-	0.002	5	0.1
															36608	152.0	154.0	0.03	-	0.002	5	0.1
															36609	154.0	156.0	0.01	-	0.002	5	0.1
															36610	156.0	158.0	0.03	-	0.002	5	0.1
															36611	158.0	160.0	0.05	-	0.002	5	0.1
															36612	160.0	162.0	0.02	-	0.002	5	0.1
															36613	162.0	164.0	0.01	-	0.002	5	0.1
235.3	239.0	Bio-qtz diorite ( <b>Guichon</b> ). Medium grained, weak saussurite. Bio weakly chl-ser altered. K-feldspar monzonite veins, with pervasive alteration envelopes. <b>235.3-237.1 m:</b> Highly broken pink K-feldspar alteration. Bottom contact sharp 80° C.A. with ep- calcite py, cpy clots.	0.1	0.1	-1	-1	2	2	2	2	2	20	-1	36614	162.0	164.0	0.01	-	0.002	5	0.1	
														36615	164.0	166.0	0.02	-	0.001	5	0.1	
														36616	166.0	168.0	0.01	-	0.001	5	0.1	
														36617	168.0	170.0	0.02	-	0.001	5	0.1	
														36618	170.0	172.0	0.02	-	0.001	5	0.1	
														36619	172.0	174.0	0.02	-	0.001	5	0.1	
															36619	174.0	176.0	0.01	-	0.001	5	0.1
239.0	242.6	Grey-pale green, fine grained Hbl-qtz-feldspar porphyry monzodiorite (D6?). Very fine interstitial K-feldspar (30%). 10% magnetite in clots (moderate). Weak to moderate ser-calcite matrix. 1-3 mm chl- calcite veinlets with py, cpy locally.	-1	-1	-1	-1	-1	3	3	2	2	30	-1	36620	176.0	178.0	0.04	-	0.001	5	0.1	
														36621	178.0	180.0	0.13	-	0.001	5	0.1	
														36622	180.0	182.0	0.13	-	0.001	5	0.1	
														36623	182.0	184.0	0.02	-	0.001	5	0.1	
														36624	184.0	186.0	0.03	-	0.001	5	0.1	
														36625	186.0	188.0	0.01	-	0.001	5	0.1	
242.6	252.4	Pinkish medium grained feldspar porphyry monzodiorite Interstitial K-feldspar (25%). Weak chl-ser-calcite filled fractures 0.1-3 mm with py and trace cpy at 50, 20 and 80° C.A. Py ± chalc increasing, cpy replacing ser mafics.	0.2	0.1	-1	-1	-1	2	2	2	2	25	-1	36626	188.0	190.0	0.03	-	0.001	5	0.1	
														36627	190.0	192.0	0.01	-	0.001	5	0.1	
														36628	192.0	194.0	0.01	-	0.001	5	0.1	
														36629	194.0	196.0	0.01	-	0.001	5	0.1	
														36630	196.0	198.0	0.01	-	0.001	5	0.1	
252.4	259.4	Pinkish-orange-grey to grey, fine to medium grained, bio-feldspar qtz diorite. Variable, mixed composition, locally brecciated with chl-ep matrix. No K-feldspar on staining. Moderate ep-ser replacing mafics (bio). <b>252.4-253.0 m:</b> clay gouge at 80° C.A. Ep + py ± cpy veinlets 1-3 mm with chl, 10 per meter at 50 and 80° C.A.	0.5	0.2	-1	-1	-1	3	3	3	3	15	-1	36631	198.0	200.0	0.01	-	0.001	5	0.1	
														36632	200.0	202.0	0.04	-	0.001	5	0.1	
														36633	202.0	204.0	0.02	-	0.001	5	0.1	
														36634	204.0	206.0	0.01	-	<0.001	5	0.1	
														36635	206.0	208.0	0.01	-	<0.001	5	0.1	
														36636	208.0	210.0	0.01	-	<0.001	5	0.1	
														36637	210.0	212.0	0.02	-	<0.001	5	0.1	
														36638	212.0	214.0	0.02	-	<0.001	5	0.1	
														36639	214.0	216.0	0.01	-	<0.001	5	0.1	
														36640	216.0	218.0	0.01	-	<0.001	5	0.1	
												36641	218.0	220.0	0.01	-	<0.001	5	0.1			
												36642	220.0	222.0	0.01	-	<0.001	5	0.1			

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
259.4	280.9	Grey-weak green, medium grained, bio-feldspar qtz	0.5	0.3	-1	-1	2	3	2	3	2	15	-1	36643	222.0	224.0	0.01	-	< 0.01	5	0.1
		dionite (Gulchon). Moderate chl-ep-ser altered												36644	224.0	226.0	0.04	-	< 0.01	5	0.1
		mafic, plagioclase is cloudy, sericitic. Variably												36645	226.0	228.0	0.01	-	< 0.01	5	0.1
		magnetic. Broken along ser-clay-calcite filled fract-												36646	228.0	230.0	0.01	-	< 0.01	5	0.1
		ures with py + cpy at 20 and 60° C.A. Ep + py veins,												36647	230.0	232.0	0.01	-	< 0.01	5	0.1
		1-10 mm, 50° C.A. Matrix becomes more chloritic-clay												36648	232.0	234.0	0.01	-	< 0.01	5	0.1
		altered down section. 267.0-269.8 m: dark green,												36649	234.0	236.0	0.01	-	< 0.01	5	0.1
		chl-ser altered matrix, hematitic, calcite.												36650	236.0	238.0	0.03	-	< 0.01	5	0.1
		269.8-272.0 m: fault zone: strong clay gouge.												36651	238.0	240.0	0.06	-	< 0.01	5	0.1
		bleached, brecciated at 70° C.A. 272.0-280.9 m:												36652	240.0	242.0	0.01	-	< 0.01	5	0.1
		moderate to strong ser mafics, plag. Py (1%),												36653	242.0	244.0	0.02	-	< 0.01	5	0.1
		cpy (0.3%). Trace bo replacing ser and along chl-ser-												36654	244.0	246.0	0.02	-	< 0.01	5	0.1
		qtz-calcite filled fractures 1-5 mm, 5-20 per metre, at												36655	246.0	248.0	0.03	-	< 0.01	5	0.1
		50° C.A. Mottled alb patches.												36656	248.0	250.0	0.05	-	< 0.01	5	0.1
														36657	250.0	252.0	0.03	-	< 0.01	5	0.1
280.9	292.6	Pale orange green, fine grained crowded feldspar	-1	-1	-1	-1	3	2	2	2	2	20	2	36658	252.0	254.0	0.10	-	< 0.01	5	0.1
		porphyry with scattered mafic clots (Bethlehem?).												36659	254.0	256.0	0.05	-	< 0.01	5	0.1
		No K-feldspar on stain. Qtz-clay veinlets at top												36660	256.0	258.0	0.10	-	< 0.01	5	0.1
		contact, 50° C.A. Ep-qtz veins to 1 cm, 3 per metre, at												36661	258.0	260.0	0.03	-	< 0.01	5	0.1
		30-60° C.A. with ser envelopes. Red-brown hematite-												36662	260.0	262.0	0.05	-	< 0.01	5	0.1
		clay slips at 45° C.A.												36663	262.0	264.0	0.07	-	< 0.01	5	0.1
														36664	264.0	266.0	0.03	-	< 0.01	5	0.1
292.6	301.3	Pale orange-grey-green, fine grained, crowded feld-	-1	-1	-1	-1	-1	3	1	2	2	40	-1	36665	266.0	268.0	0.02	-	< 0.01	5	0.1
		spar porphyry with scattered mafic clots (Bethlehem).												36666	268.0	270.0	0.20	-	< 0.01	5	0.1
		Moderate interstitial ser-K-feldspar, cloudy, weak												36667	270.0	272.0	0.06	-	< 0.01	5	0.1
		sericitic plag phenos. Irregular, sharp contact at 70°												36668	272.0	274.0	0.19	-	< 0.01	5	0.1
		C.A.												36669	274.0	276.0	0.05	-	< 0.01	5	0.1
														36670	276.0	278.0	0.12	-	< 0.01	5	0.1
301.3	334.3	Grey, medium grained, hbl-bio monzodionite	0.5	0.2	-1	-1	1	3	2	2	2	15	1	36671	278.0	280.0	0.01	-	< 0.01	5	0.1
		(Gulchon). 20% K-feldspar. Moderately magnetic.												36672	280.0	282.0	0.04	-	< 0.01	5	0.1
		Broken along chl-ser-clay-calcite filled fractures at												36673	282.0	284.0	0.01	-	< 0.01	5	0.1
		45-60° C.A. Locally faulted with gouge. Orange qtz												36674	284.0	286.0	0.01	-	< 0.01	5	0.1
		aplite + py, cpy dykelets to 1 cm are offset left lateral by												36675	286.0	288.0	0.01	-	< 0.01	5	0.1
		chl-py fractures at 45° C.A. Trace cpy, py replacing												36676	288.0	290.0	0.01	-	< 0.01	5	0.1
		mafic in matrix and along fine chl-qtz-calcite fractures												36677	290.0	292.0	0.01	-	< 0.01	5	0.1
		at 45-60° C.A. Hbl replaced by chl-ser-magnetite-												36678	292.0	294.0	0.01	-	< 0.01	5	0.1
		specularite + cpy.												36679	294.0	296.0	0.01	-	< 0.01	5	0.1
														36680	296.0	298.0	0.01	-	< 0.01	5	0.1
		EOH 334.3 m												36681	298.0	300.0	0.02	-	< 0.01	5	0.1

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
		<b>continued Assay information</b>																			
														36682	300.0	302.0	0.02	-	< .001	5	0.1
														36683	302.0	304.0	0.07	-	< .001	5	0.1
														36684	304.0	306.0	0.07	-	< .001	5	0.2
														36685	306.0	308.0	0.05	-	< .001	5	0.2
														36686	308.0	310.0	0.08	-	< .001	5	0.2
														36687	310.0	312.0	0.12	-	< .001	5	0.2
														36688	312.0	314.0	0.05	-	< .001	5	0.2
														36689	314.0	316.0	0.04	-	< .001	5	0.2
														36690	316.0	318.0	0.03	-	< .001	5	0.2
														36691	318.0	320.0	0.02	-	< .001	5	0.2
														36692	320.0	322.0	0.02	-	< .001	5	0.2
														36693	322.0	324.0	0.01	-	< .001	5	0.2
														36694	324.0	326.0	0.03	-	< .001	5	0.2
														36695	326.0	328.0	0.01	-	< .001	5	0.2
														36696	328.0	330.0	0.02	-	< .001	5	0.2
														36697	330.0	332.0	0.01	-	< .001	5	0.2
														36698	332.0	334.3	0.02	-	< .001	5	0.2
														EOH							

Diamond Drill Log																							
Project:		Getty North Property				Location:										Core:		Azimuth		Dip			
Hole #:		96-19				Northing:		5603819.2				1 = background/fresh		4 = strong		HQ		Collar		045		-70	
Date:		12-May-96				Easting:		641659.2				2 = weak		5 = intense		NQ2 from 189.0							
Logged by:		D. Blann, B. Perry, V. Niessen				Elevation:		1702.0 m				3 = moderate											
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																							
													Assays										
Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)		
From	To														From	To							
0	10.7	Casing	-											36699	11.0	13.0	0.06	-	<.001	5	0.1		
														36700	13.0	15.0	0.09	-	<.001	5	0.1		
10.7	42.3	Bio-Qtz Diorite (Guichon). Moderate to strong alteration of bio to chl-ser-magnetite-hem, Plagioclase to ser-calcite-clay. Py 0.5-2% and Cpy 0.1-1% replaces altered bio, plag and in clay filled fractures, breccia 1 mm - 10 cm, core axis subparallel to normal.	1	0.5	-1	-1	2	4	4	4	3	25	-1	36701	15.0	17.0	0.09	-	<.001	5	0.1		
		25.5-27.0 m: chl-ser-calcite strong clay filled shears at 45-60° C.A.												36702	17.0	19.0	0.07	-	<.001	5	0.1		
		27.0-38.0 m: zone of Qtz-cpy-mo veining, strong clay alteration.												36703	19.0	21.0	0.05	-	<.001	5	0.1		
		At 38.7 m 1 cm vein with cpy and mo at 80° C.A.												36704	21.0	23.0	0.03	-	<.001	5	0.1		
		Secondary bio locally												36705	23.0	25.0	0.09	-	<.001	5	0.1		
														36706	25.0	27.0	0.17	-	<.001	5	0.1		
														36707	27.0	29.0	0.05	-	<.001	5	0.1		
														36708	29.0	31.0	0.09	-	<.001	5	0.1		
														36709	31.0	33.0	0.07	-	0.008	5	0.1		
														36710	33.0	35.0	0.13	-	0.008	5	0.1		
														36711	35.0	37.0	0.06	-	0.008	5	0.1		
														36712	37.0	39.0	0.22	-	0.008	5	0.1		
42.3	55.0	bio-Qtz Diorite (Guichon). Pale green, healed ser-clay-ca matrix, with relict clay altered bio, disseminated specularite-hem. Py, cpy replacing relict mafics and disseminated in strong clay altered shear zones. Patchy strong FeOx. Py up to 5% locally.	2	0.5	-1	-1	2	5	5	4	4	50	-1	36713	39.0	41.0	0.07	-	0.008	5	0.1		
		44.0-48.0 m: Aplite and feldspar porphyry dykes 20-40 cm at sharp 80° C.A. Strong calcite fractures at subparallel to 45° C.A. Reverse displacement. Minor Qtz veining 1-10 mm at 80° C.A. Py:cpy 3.5:1												36714	41.0	43.0	0.05	-	0.008	5	0.1		
														36715	43.0	45.0	0.05	-	0.008	5	0.1		
														36716	45.0	47.0	0.04	-	0.008	5	0.1		
														36717	47.0	49.0	0.04	-	0.008	5	0.1		
														36718	49.0	51.0	0.06	-	0.008	5	0.1		
														36719	51.0	53.0	0.03	-	<.001	5	0.2		
														36720	53.0	55.0	0.08	-	<.001	5	0.2		
														36721	55.0	57.0	0.04	-	<.001	5	0.2		
														36722	57.0	59.0	0.05	-	<.001	5	0.2		
														36723	59.0	61.0	0.05	-	<.001	5	0.2		
														36724	61.0	63.0	0.25	-	<.001	5	0.2		
														36725	63.0	65.0	0.07	-	<.001	5	0.2		
														36726	65.0	67.0	0.05	-	<.001	5	0.2		
														36727	67.0	69.0	0.05	-	<.001	5	0.2		
														36728	69.0	71.0	0.07	-	<.001	5	0.2		
														36729	71.0	73.0	0.08	-	<.001	5	0.1		

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)			
From	To														From	To								
55.0	75.5	Qtz-Hbl-Plag Crowded Porphyry (D37). Suspect contact with Bio-Qtz Diorite (Gulchon) between 50-55 m, but intense fracture/fault controlled alteration obscures exact location. Qtz-Ca veining, py and fracturing, clay alteration increasing down section. Py cpy > 5:1 <b>68.5-71.0 m: Fault, several sections clay gouge</b> 1-3 cm, ~ 40° C.A. Weak to well developed Qtz + Ser envelopes, 0.5-2 cm locally, on Qtz + Py ± Cpy veinlets 0.5-2 mm, cross-cutting, 5-10 per metre.	2	0.2	-1	-1	2	5	5	3	5	15	-1	36730	73.0	75.0	0.05	-	< 0.01	5	0.1			
			36731	75.0	77.0	0.05	-	< 0.01	5	0.1														
			36732	77.0	79.0	0.06	-	< 0.01	5	0.1														
			36733	79.0	81.0	0.06	-	< 0.01	5	0.1														
			36734	81.0	83.0	0.06	-	< 0.01	5	0.1														
			36735	83.0	85.0	0.05	-	< 0.01	5	0.1														
			36736	85.0	87.0	0.07	-	< 0.01	5	0.1														
			36737	87.0	89.0	0.10	-	< 0.01	5	0.1														
			36738	89.0	91.0	0.11	-	< 0.01	5	0.1														
			36739	91.0	93.0	0.10	-	0.001	5	0.1														
			36740	93.0	95.0	0.12	-	0.001	5	0.1														
			75.5	86.5	Qtz-Hbl-Plag Crowded Porphyry (D3), plag phenos 1-5 mm, scattered clusters of ep + chl + ser + ca + clay altered hbl, frequently poikilitic, enclosing plagioclase; fine grained orange-brown (FeOx stained) groundmass Hem after mag. Trace to non-magnetic. Ep alteration of feldspars and mafics, occasionally radiating, euhedral. Trace to weak Cpy>Py replacing mafics. Py>>Cpy in veinlets. Qtz + Py ± Cpy veinlets 0.5-2 mm, with 0.5-1 cm. Qtz + Ser envelopes, ~ 5 per metre, crosscutting. Fracture sets 40-60° C.A. Strong Ser + Ca fracture filled. Red FeOx staining locally on fractures above chilled, irregular contact. Black chill margin ~ 3 mm. Minor MoS <sub>2</sub> locally on slips.	2	0.2	-1	-1	2	4	3	3	2	5	-1	36741	95.0	97.0	0.12	-	0.001	5	0.1
						36742	97.0	99.0	0.14	-	0.001	5	0.1											
						36743	99.0	101.0	0.10	-	0.001	5	0.1											
36744	101.0	103.0				0.15	-	0.001	5	0.1														
36745	103.0	105.0				0.19	-	0.001	5	0.1														
36746	105.0	107.0				0.17	-	0.001	5	0.1														
36747	107.0	109.0				0.12	-	0.001	5	0.1														
36748	109.0	111.0				0.11	-	0.001	5	0.1														
36749	111.0	113.0				0.09	-	0.001	5	0.1														
36750	113.0	115.0				0.11	-	0.001	5	0.1														
36751	115.0	117.0				0.11	-	0.001	5	0.1														
36752	117.0	119.0				0.10	-	0.001	5	0.1														
36753	119.0	121.0				0.11	-	0.001	5	0.1														
36754	121.0	123.0				0.12	-	0.001	5	0.1														
36755	123.0	125.0				0.09	-	0.001	5	0.1														
36756	125.0	127.0				0.10	-	0.001	5	0.1														
36757	127.0	129.0				0.11	-	0.001	5	0.1														
36758	129.0	131.0				0.11	-	0.001	5	0.1														
36759	131.0	133.0	0.10	-	0.001	5	0.1																	
36760	133.0	135.0	0.10	-	0.001	5	0.1																	
36761	135.0	137.0	0.17	-	0.001	5	0.1																	
36762	137.0	139.0	0.12	-	0.001	5	0.1																	
36763	139.0	141.0	0.08	-	0.001	5	0.1																	
36764	141.0	143.0	0.10	-	0.001	5	0.1																	
36765	143.0	145.0	0.11	-	0.001	5	0.1																	
36766	145.0	147.0	0.10	-	0.001	5	0.1																	



Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
86.5	136.0	Hbl-Bio-Qtz Diorite, <b>Gulchon/Hybrid</b> , locally fine-grained and mafic rich, local weak foliation. Variable pervasive alteration. Moderate to strong alb + ep near porphyry contact. Moderate to strong chl + ser + ca ± bio ± qtz alteration, increasing down section.	3	0.5	-1	-1	3	4	4	3	2	7	-1	36767	147.0	149.0	0.09	-	0.001	5	0.1
														36768	149.0	151.0	0.10	-	0.001	5	0.1
														36769	151.0	153.0	0.09	-	0.004	5	0.1
														36770	153.0	155.0	0.06	-	0.004	5	0.1
														36771	155.0	157.0	0.09	-	0.004	5	0.1
														36772	157.0	159.0	0.07	-	0.004	5	0.1
														36773	159.0	161.0	0.06	-	0.004	5	0.1
														36774	161.0	163.0	0.10	-	0.004	5	0.1
														36775	163.0	165.0	0.08	-	0.004	5	0.1
														36776	165.0	167.0	0.08	-	0.004	5	0.1
														36777	167.0	169.0	0.08	-	0.004	5	0.1
														36778	169.0	171.0	0.08	-	0.004	5	0.1
														36779	171.0	173.0	0.11	-	0.010	5	0.1
														36780	173.0	175.0	0.11	-	0.010	5	0.1
														36781	175.0	177.0	0.10	-	0.010	5	0.1
														36782	177.0	179.0	0.12	-	0.010	5	0.1
														36783	179.0	181.0	0.13	-	0.010	5	0.1
														36784	181.0	183.0	0.13	-	0.010	5	0.1
														36785	183.0	185.0	0.08	-	0.010	5	0.1
														36786	185.0	187.0	0.07	-	0.010	5	0.1
														36787	187.0	189.0	0.07	-	0.010	5	0.1
														36788	189.0	191.0	0.07	-	0.010	5	0.1
														36789	191.0	193.0	0.08	-	0.001	5	0.1
														36790	193.0	195.0	0.07	-	0.001	5	0.1
														36791	195.0	197.0	0.05	-	0.001	5	0.1
														36792	197.0	199.0	0.08	-	0.001	5	0.1
														36793	199.0	201.0	0.07	-	0.001	5	0.1
														36794	201.0	203.0	0.04	-	0.001	5	0.1
														36795	203.0	205.0	0.05	-	0.001	5	0.1
														36796	205.0	207.0	0.03	-	0.001	5	0.1
														36797	207.0	209.0	0.03	-	0.001	5	0.1
														36798	209.0	211.0	0.08	-	0.001	5	0.1
														36799	211.0	213.0	0.05	-	0.001	5	0.1
														36800	213.0	215.0	0.05	-	0.001	5	0.1
														36801	215.0	217.0	0.07	-	0.001	5	0.1
														36802	217.0	219.0	0.04	-	0.001	5	0.1
														36803	219.0	221.0	0.04	-	0.001	5	0.1

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
136.0	195.0	Bio-Tonalite, grey-pink to cream to green where altered. Medium to coarse grained. 40-50% plag. 25-30% qtz, 5-7% bio, suspect 10-15% orthoclase? - interstitial, often encloses plag and qtz, pale pink stained, does not stain yellow with (Na <sub>2</sub> Co(NO <sub>2</sub> ) <sub>6</sub> , possibly too strongly altered. Weak to moderate pervasive alteration to 146.0 m, thereafter strong to intense. RQD 0% to 148.0 m.	4	0.3	-1	-1	4	5	4	3	3	15	-1	36804	221.0	223.0	0.09	-	0.001	5	0.1
														36805	223.0	225.0	0.07	-	0.001	5	0.1
														36806	225.0	227.0	0.06	-	0.001	5	0.1
														36807	227.0	229.0	0.04	-	0.001	5	0.1
														36808	229.0	231.0	0.04	-	0.001	5	0.1
														36809	231.0	233.0	0.05	-	< 0.01	5	0.1
														36810	233.0	235.0	0.03	-	< 0.01	5	0.1
														36811	235.0	237.0	0.03	-	< 0.01	5	0.1
														36812	237.0	239.0	0.04	-	< 0.01	5	0.1
														36813	239.0	241.0	0.02	-	< 0.01	5	0.1
														36814	241.0	243.0	0.04	-	< 0.01	5	0.1
														36815	243.0	245.0	0.02	-	< 0.01	5	0.1
														36816	245.0	247.0	0.03	-	< 0.01	5	0.1
														36817	247.0	249.0	0.02	-	< 0.01	5	0.1
														36818	249.0	251.0	0.01	-	< 0.01	5	0.1
														36819	251.0	253.0	0.02	-	< 0.01	5	0.1
														36820	253.0	255.0	0.01	-	< 0.01	5	0.1
														36821	255.0	257.0	0.2	-	< 0.01	5	0.1
														36822	257.0	259.0	0.37	-	< 0.01	5	0.1
														36823	259.0	261.0	0.07	-	< 0.01	5	0.1
														36824	261.0	263.0	0.02	-	< 0.01	5	0.1
														36825	263.0	265.0	0.01	-	< 0.01	5	0.1
														36826	265.0	267.0	0.01	-	< 0.01	5	0.1
														36827	267.0	269.0	0.01	-	< 0.01	5	0.1
														36828	269.0	271.0	0.02	-	< 0.01	5	0.1
														36829	271.0	273.0	0.01	-	< 0.01	5	0.1
														36830	273.0	275.0	0.01	-	< 0.01	5	0.1
														36831	275.0	277.0	0.01	-	< 0.01	5	0.1
														36832	277.0	279.0	0.01	-	< 0.01	5	0.1
														36833	279.0	281.0	0.01	-	< 0.01	5	0.1
														36834	281.0	283.0	0.01	-	< 0.01	5	0.1
														36835	283.0	285.0	0.01	-	< 0.01	5	0.1
														36836	285.0	287.0	0.01	-	< 0.01	5	0.1
														36837	287.0	289.0	0.01	-	< 0.01	5	0.1
														36838	289.0	291.0	0.01	-	< 0.01	5	0.1
														36839	291.0	293.0	0.07	-	< 0.01	5	0.1

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD	Ox	Sample	Interval (m)		%Cu	%Cu	%Mo	Au (g/t)	Ag (g/t)
From	To														Number	From					
195.0	262.0	Bio-Qtz Monzoniorite to Qtz Monzonite, locally	3	0.3	-1	-1	4	4	3	3	-1	25	-1	36840	293.0	295.0	0.04	-	< .001	5	0.1
		weakly porphyritic, granophyric groundmass; 1-3 mm												36841	295.0	297.0	0.01	-	< .001	5	0.1
		plagioclase phenos; 5-7% moderate to strongly chl +												36842	297.0	299.0	0.03	-	< .001	5	0.1
		ser + ca altered bio, variable pervasive alteration —												36843	299.0	301.0	0.03	-	< .001	5	0.1
		pink where least altered, creamy to green to grey												36844	301.0	303.0	0.04	-	< .001	5	0.1
		green where strongly altered. ***Note that red FeOx												36845	303.0	305.0	0.02	-	< .001	5	0.1
		staining (hem after mag) of qtz and K-feldspar												36846	305.0	307.0	0.02	-	< .001	5	0.1
		contributes significantly to the pink color of this unit.												36847	307.0	309.0	0.01	-	< .001	5	0.1
		non-magnetic where strongly altered, trace to weak												36848	309.0	310.9	0.02	-	< .001	5	0.1
		elsewhere. Strong ser + ca + chl fracture filled.												End of Assay Information							
		Fracture sets 60-80° C.A. less frequently normal and																			
		20-30° C.A. to sub-parallel.																			
		Numerous qtz + py + cpy veinlets ( 0.5-3 mm), 15-25																			
		per metre, variable spacing 2-30 cm, 60-70° C.A. ;																			
		0.5-5 cm qtz + ser envelopes on veinlets, the width																			
		of these usually corresponds to the amount of sul-																			
		phides in the veinlet. Very fine grained py >>cpy																			
		disseminated within envelopes. No sub-parallel																			
		veinlets noted; envelopes on sub-parallel fractures																			
		weak or absent.																			
		Trace to weak py>cpy replacing strong chl + ser + clay																			
		altered mafics; 90-95% of py/cpy occurs in veinlets																			
		and in the envelopes.																			
		<b>240.0 m:</b> 30 cm pink aplite dyke, irregular contacts																			
		- normal to C.A.; contains sparse disseminated cpy.																			
		<b>241.9-245.0 m:</b> Hbl needle-plagioclase porphyry,																			
		<b>D4:</b> dark grey, ghost-like plag phenos. contacts at																			
		- 60° C.A., partial melting of wallrock.																			
		<b>245.0-257.0 m:</b> several slip surfaces 30° C.A.																			
		right lateral slip, rake across slip surfaces ~ 40° C.A.																			
		Chl + ser + red FeOx fracture filling, locally.																			
		<b>255.0-262.0 m:</b> green, strong pervasive alteration																			
		chl + ser + ca + qtz. <b>Weak fault zone,</b> local thin																			
		gouge, shear subparallel to 40° C.A. Cpy ~ 0.5%																			
		replacing relict mafics.																			

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
262.0	310.9	Bio-Qtz Monzoniorite to Qtz Monzonite, Granophytic porphyry. Weak foliated (alignment of feldspars), weakly porphyritic. Qtz + py ± cpy veinlets absent. No Qtz + ser envelopes as seen above. Trace py → cpy replacing weakly chloritized mafics. Moderately magnetic. Weak to moderate Ca ± ser fracture filled.  <b>EOH 310.9 m</b>	0.2	0.05	-1	-1	2	2	2	2	-1	30	-1	<b>continued Core Descriptions</b>							

Diamond Drill Log																						
Project:		Getty North Project				Location:								Core:		HQ		Azimuth	Dip			
Hole #:		96-20				Northing:		1 = background/fresh				4 = strong		Collar		270		-45				
Date:		19-May-96				Easting:		2 = weak				5 = intense		NQ2 from 121.9 m								
Logged by:		D. Blann, V. Niessen				Elevation:		3 = moderate														
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																						
														Assays								
Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
From	To														From	To						
0.0	3.0	Casing												36849	106.0	108.0	0.09	-	<.001	5	0.1	
3.0	20.0	Grey to black fine grained hbl needle andesite										40		36850	108.0	110.0	0.02	-	<.001	5	0.1	
		Massive, locally brecciated with minor Guichon fragments, locally vuggy.												36851	110.0	112.0	0.01	-	<.001	5	0.1	
		3.0-10.5 m: moderately broken												36852	112.0	114.0	0.01	-	<.001	5	0.1	
		19.0-20.0 m: moderately broken, cave												36853	114.0	116.0	0.01	-	<.001	5	0.1	
															36854	116.0	118.0	0.01	-	<.001	5	0.1
20.0	45.6	Grey to brown polyolithic volcanic breccia, sand matrix												36855	118.0	120.0	0.01	-	<.001	5	0.1	
		Generally sand to cobble size, subangular to angular.												36856	120.0	122.0	0.01	-	<.001	5	0.1	
		~ 1% accidental fragments - Guichon Q.D., Bethlehem,												36857	122.0	124.0	0.01	-	<.001	5	0.1	
		rounded to sub-rounded. Coarsening down section,												36858	124.0	126.0	0.01	-	<.001	5	0.1	
		clast supported.												36859	126.0	128.0	0.01	-	<.001	5	0.1	
		20.0-20.5 m: soft clay with black carbonaceous													36860	128.0	130.0	0.01	-	<.001	5	0.1
		layer.													36861	130.0	132.0	0.01	-	<.001	5	0.1
		36.0-36.5 m: poor recovery, cave, sand.													36862	132.0	134.0	0.01	-	<.001	5	0.1
		Brown micaceous volcanic feldspar porphyry clasts													36863	134.0	136.0	0.01	-	<.001	5	0.1
		increasing down section. Matrix exhibits flattening/													36864	136.0	138.0	0.01	-	<.001	5	0.1
compression locally. Bottom contact ~ 45° C.A.													36865	138.0	140.0	0.01	-	<.001	5	0.1		
45.6	57.9	Very fine grained silty clay, olive green, fine to medium										40		36866	140.0	142.0	0.01	-	<.001	5	0.1	
		laminated ~ 45° C.A. fining upward. Lower contact												36867	142.0	144.0	0.01	-	<.001	5	0.1	
		40° C.A.												36868	144.0	146.0	0.01	-	<.001	5	0.1	
														36869	146.0	148.0	0.01	-	<.001	5	0.1	
57.9	63.0	Brown, fine grained, volcanic crystal lithic tuff. Feisic												36870	148.0	150.0	0.01	-	<.001	5	0.1	
		and tuffaceous fragments 0.5-20.0 cm.												36871	150.0	152.0	0.01	-	<.001	5	0.1	
														36872	152.0	154.0	0.01	-	<.001	5	0.1	
63.0	67.0	Brown, fine grained, volcanic crystal lithic tuff. Feisic												36873	154.0	156.0	0.01	-	<.001	5	0.1	
		and tuffaceous fragments 0.5-20.0 cm.												36874	156.0	158.0	0.01	-	<.001	5	0.1	
67.0	70.1	Grey, fine grained bio-hbl crystal lithic tuff.												36875	158.0	160.0	0.01	-	<.001	5	0.1	
														36876	160.0	162.0	0.01	-	<.001	5	0.1	
														36877	162.0	164.0	0.01	-	<.001	5	0.1	
		Very fine grained silty clay, olive green/brown, local												36878	164.0	166.0	0.01	-	<.001	5	0.1	
		polyolithic tuff.											36879	166.0	168.0	0.01	-	<.001	5	0.1		
													36880	168.0	170.0	0.01	-	<.001	5	0.1		

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
70.1	85.5	Matrix supported conglomerate. Intrusive and volcanic clasts, sub-rounded to angular, 1-30 cm. Sandy to tuffaceous matrix. Local black sooty/carbonaceous layers 2-3 mm. 78.5-85.5 m: dark, carbonaceous sandy matrix, weakly broken.	-	-	-	-	-	-	-	-	-	30	-	36881	170.0	172.0	0.01	-	<0.001	5	0.1
														36882	172.0	174.0	0.01	-	<0.001	5	0.1
														36883	174.0	176.0	0.01	-	<0.001	5	0.1
														36884	176.0	178.0	0.02	-	<0.001	5	0.1
														36885	178.0	180.0	0.04	-	<0.001	5	0.1
														36886	180.0	182.0	0.01	-	<0.001	5	0.1
														36887	182.0	184.0	0.01	-	<0.001	5	0.1
85.5	106.0	Grey, fine grained vesicular to massive bio-hbl/-feldspar porphyritic andesite flow. Moderately magnetic. Irregular bottom contact with "partially melted?" Guichon variety Q.D.	-	-	-	-	-	-	-	-	-	60	-	36888	184.0	186.0	0.03	-	<0.001	5	0.1
														36889	186.0	188.0	0.02	-	0.001	5	0.1
														36890	188.0	190.0	0.02	-	0.001	5	0.1
														36891	190.0	192.0	0.02	-	0.001	5	0.1
														36892	192.0	194.0	0.02	-	0.001	5	0.1
106.0	109.6	Bio-Qtz Diorite <b>Guichon</b> . Moderate to strongly chl + ser + ca ± clay altered. Local red FeOx ± clay fracture filled. Strong chl + ser + ca fracture filling. Irregular ca veins 3-4 per metre. 106.0-107.0 m: strong shearing. (partial melting with ductile deformation.) Strong chl + ser + ca replacing bio. Patchy ep. Local secondary mag; moderately magnetic in otherwise strongly altered rock. Bottom contact with Hbl-Fsp porphyry broken.	0.02	-1	-1	-1	-1	4	4	4	2	10	2	36893	194.0	196.0	0.03	-	0.001	5	0.1
														36894	196.0	198.0	0.04	-	0.001	5	0.1
														36895	198.0	200.0	0.03	-	0.001	5	0.1
														36896	200.0	202.0	0.03	-	0.001	5	0.1
														36897	202.0	204.0	0.02	-	0.001	5	0.1
														36898	204.0	206.0	0.01	-	0.001	5	0.1
														36899	206.0	208.0	0.02	-	<0.001	5	0.1
														36900	208.0	210.0	0.01	-	<0.001	5	0.1
														36901	210.0	212.0	0.01	-	<0.001	5	0.1
														36902	212.0	214.0	0.01	-	<0.001	5	0.1
														36903	214.0	216.0	0.01	-	<0.001	5	0.1
109.6	176.7	Hbl-Plagioclase Crowded Porphyry "D3". 90-95% of plagioclase phenos 1-2 mm, ~ 5% 4-5 mm. Scattered chl ± ep altered mafic clots (chl after hbl), 2-7 mm. HQ core ends 121.9 m. Moderate to strong ser + ca ± chl ± ep fracture filled, increasingly down section. Ep alteration of mafics and plagioclase; disseminated ep in grey saussuritic groundmass. Trace py>cpy replacing mafics and occasionally in fractures. Fracture sets 60-70° C.A. and sub-parallel. RQD 0% from 126.0-136.0 m. 109.6-120.0 m: strong red-brown FeOx staining of phenos and groundmass; non-magnetic. Chilled bottom contact with Bio-Qtz Diorite to Granodiorite, <b>Guichon</b> variety at 40° C.A. Weak to trace magnetic.	0.1	0.05	-1	-1	-1	3	3	2	2	5	-1	36904	216.0	218.0	0.01	-	<0.001	5	0.1
														36905	218.0	220.0	0.01	-	<0.001	5	0.1
														36906	220.0	222.0	0.01	-	<0.001	5	0.1
														36907	222.0	224.0	0.01	-	<0.001	5	0.1
														36908	224.0	226.0	0.01	-	<0.001	5	0.1
														36909	226.0	228.0	0.01	-	0.001	5	0.1
														36910	228.0	230.0	0.02	-	0.001	5	0.1
														36911	230.0	232.0	0.01	-	0.001	5	0.1
														36912	232.0	234.0	0.01	-	0.001	5	0.1
														36913	234.0	236.0	0.01	-	0.001	5	0.1
														36914	236.0	238.0	0.01	-	0.001	5	0.1
														36915	238.0	240.0	0.01	-	0.001	5	0.1
														36916	240.0	242.0	0.02	-	*last composite only 8 samples		
														End of Assay Information							

Depth (m)		Description	%Py	%Cpy	%Bo	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
176.7	242.0	<p>Bio-Qtz- Diorite to Granodiorite; <b>Guichon variety</b>.</p> <p>Fresh to weak pervasive chl + ser + ep ± ca ± ep altered with local strong to intense ser + ca + clay ± chl in fault zones. Moderate to strong chl + ser + ca ± clay ± ep fracture filled. Fracture sets 30-60° C.A., subordinate sets normal and sub-parallel. RQD = 0% from 227.9 - 228.6 m, 176.7-183.0 m, 200.5-203.0 m and 210.0-220.0 m.</p> <p>Trace to weak py &gt;&gt;cpy on fractures and rarely replacing chl + ser ± ca altered mafics. Sparse ep ± ca veinlets 0.5-3 m, &lt; 1 per metre, 40-60° C.A.</p> <p>Hbl-plagioclase Aplitic Porphyry Dykes 193.7-194.8 m, 208.0-214.0 m; 10° to sub-parallel to C.A.; grey-brown aphanitic groundmass, chilled contacts, stoped wallrock particles (Guichon variety Q.D.) to ~ 3 cm.</p> <p>Subparallel aplitic dykes 3-4 cm, 199.5-202.0 m, 206.0-207.0 m, pink, some composite with aplitic margins and porphyritic cores; weak cpy replacing mafics along margins.</p> <p>Tan aplitic dyke 220.0-220.4 m, ~ 40° C.A., contacts not chilled.</p> <p><b>210.6-213.0 m: Fault</b>, very strongly bleached (probably porphyry), local dislocation breccia and white clay gouge with milled, intensely ser + clay altered clasts. Shear appears to be subparallel.</p> <p>Moderate to strongly magnetic where fresh, trace to non-magnetic where altered and FeOx stained. Hem after mag. Strong FeOx stained 228.6-238.0 m.</p> <p><b>239.0-242.0 m: Fault</b>, broken/crushed; strong to intense ca + ser ± chl ± clay altered. Several ca veins 1-2 cm, 40° C.A.; local clay gouge.</p> <p style="text-align: center;">EOH 242.0 m</p>	0.1	0.05	-1	-1	2	3	2	3	2	15	2	Continued Core logging							

Diamond Drill Log																					
Project:		Getty North Property				Location:								Core: HQ				Azimuth	Dip		
Hole #:		96-21				Northing:				1 = background/fresh				4 = strong				Collar	000	-45	
Date:		24-May-96				Easting:				2 = weak				5 = intense				NQ2 from 97.2 m			
Logged by:		V. Niessen				Elevation:				3 = moderate											
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																					
														Assays							
Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
0.0	21.3	Casing, overburden. Tertiary Volcanics and Guichon variety boulders. Weathered.	-	-	-	-	-	-	-	-	-	-	-	36917	21.3	24.4	0.01	-	<.001	5	0.1
														36918	24.4	27.4	0.02	-	<.001	5	0.1
														36919	27.4	30.2	0.01	-	<.001	5	0.1
21.3	30.2	Hbl-Bio-Granodiorite, Gulchon variety. Strongly weathered, clay altered, no FeOx noted.	-	-	-	-	2	-1	2	2	0	-1	36920	30.2	32.2	0.01	-	<.001	5	0.1	
		21.3-24.4 m: 10% recovery, coarse sand with clay											36921	32.2	35.1	0.01	-	<.001	5	0.1	
		Remnant ep veinlets - 1 mm, with weak alb envelopes. 1-2 per metre.											36922	35.1	36.6	0.01	-	<.001	5	0.1	
													36923	36.6	36.9	0.01	-	<.001	5	0.1	
													36924	36.9	39.0	0.01	-	<.001	5	0.1	
													36925	39.0	39.6	0.01	-	<.001	5	0.1	
30.2	41.5	Hbl-Bio-Granodiorite, Gulchon variety. Weathered, clay altered in fractures.	-	-	-	-	2	2	2	-1	3	-1	36926	39.6	40.2	0.01	-	<.001	5	0.1	
		Mod to strongly magnetic, mag unoxidized. Weak ser + ca + chl fracture filled. Wk ep + ca veinlets, 1-2 mm.											36927	40.2	41.5	0.01	-	<.001	5	0.1	
		3-4 per m, with 0.5-1 cm alb envelopes, 30-40° C.A.											36928	41.5	42.7	0.02	-	<.001	5	0.1	
		Pink mottled where least altered. Mafics (mainly biotite) weakly chl + ser + ca altered.											36929	42.7	43.3	0.02	-	<.001	5	0.1	
		34.5-38.5 m: weak dislocation breccia with clay											36930	43.3	43.9	0.03	-	<.001	5	0.1	
		altered matrix of comminuted Guichon.											36931	43.9	45.1	0.11	-	<.001	5	0.1	
		RQD = 5% from 30.2-33.0 m, thereafter 0% - 50% recovery 39.0-41.5 m.											36932	45.1	45.7	0.13	-	<.001	5	0.1	
													36933	45.7	47.5	0.03	-	<.001	5	0.1	
													36934	47.5	48.8	0.03	-	<.001	5	0.1	
													36935	48.8	51.8	0.07	-	<.001	5	0.1	
													36936	51.8	54.3	0.02	-	<.001	5	0.1	
													36937	54.3	54.9	0.20	-	<.001	5	0.1	
													36938	54.9	57.1	0.11	-	<.001	5	0.1	
													36939	57.1	57.9	0.02	-	<.001	5	0.1	
													36940	57.9	58.7	0.11	-	<.001	5	0.1	
													36941	58.7	61.0	0.01	-	<.001	5	0.1	
													36942	61.1	64.0	0.02	-	<.001	5	0.1	
													36943	64.0	67.1	0.05	-	<.001	5	0.1	
													36944	67.1	70.1	0.01	-	<.001	5	0.1	
													36945	70.1	73.1	0.01	-	<.001	5	0.1	
													36946	73.1	76.2	0.03	-	<.001	5	0.1	
													36947	76.2	79.2	0.02	-	<.001	5	0.1	



Depth (m)		Description	%Py	%Cpy	%BoI	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
41.5	97.2	Hbl-Bio-Granodiorite, Gulchon variety. Weathered, clay altered. Fault Zone Strongly broken to crushed w/sections of dislocation/fault breccia & milling/gouge.	0.02	0.02	-	-	-1	3	4	3	3	0	-1	36948	79.2	82.3	0.02	-	<.001	5	0.1
		42.7-43.3 m: fine, well sorted sand												36949	82.3	85.3	0.19	-	<.001	5	0.1
		43.3-49.0 m: strongly drill rounded fragments, 2-5 cm, 25-50% core loss												36950	85.3	88.4	0.01	-	<.001	5	0.1
		49.0-55.0 m: fault breccia, fault gouge with strong milling, locally ca healed/impregnated. Shear at ~ 30° C.A. Patchy red FeOx staining. Strong clay matrix throughout.												36951	88.4	90.2	0.03	-	<.001	5	0.1
		55.0-62.5 m: strongly drill rounded fragments 1-5 cm, with intermittent sections of gouge and dislocation breccia with clay matrix.												36952	90.2	90.9	0.02	-	<.001	5	0.1
		62.5-90.0 m: fault breccia, clay matrix supported with milled clasts to 7 cm, NCu blebs and smears on several drill rounded fragments. Trace cpy replacing weakly chl + ser altered bio. Trace cpy on fracture surfaces. Crushed py locally in gouge.												36953	90.9	91.4	0.01	-	<.001	5	0.1
		90.0-97.2 m: shattered, some drill rounding, gouge 95.0-96.0 m at ~ 60° C.A.; calcite vein fragments in gouge; end of HQ core.												36954	91.4	92.3	0.01	-	<.001	5	0.1
		Occasional weakly weathered/altered fragments show pervasive albitization with ep + chl alteration of mafics and lesser ep alteration of plagioclase.												36955	92.3	93.0	0.01	-	<.001	5	0.1
		Remnant ep + ca veinlets 1-2 mm. Ser + chl + ca fracture filling increases down section. Pervasive ca alteration of mafics and feldspars strong throughout. Moderate to strongly magnetic where least altered. Trace cpy replacing strongly chl + ser altered mafics; trace to weak py in hem and chl + ca veinlets. ~ 50% recovery overall; locally as low as 15-20%.												36956	93.0	94.2	0.02	-	<.001	5	0.1
														36957	94.2	94.5	0.01	-	<.001	5	0.1
														36958	94.5	95.1	0.02	-	<.001	5	0.1
														36959	95.1	95.7	0.02	-	<.001	5	0.1
														36960	95.7	97.2	0.01	-	<.001	5	0.1
														36961	97.2	97.5	0.05	-	<.001	5	0.1
														36962	97.5	100.0	0.02	-	<.001	5	0.1
														36963	100.0	100.6	0.01	-	<.001	5	0.1
														36964	100.6	103.6	0.02	-	<.001	5	0.1
														36965	103.6	106.7	0.02	-	<.001	5	0.1
														36966	106.7	109.7	0.03	-	<.001	5	0.1
														36967	109.7	112.8	0.02	-	<.001	5	0.1
														36968	112.8	115.8	0.02	-	<.001	5	0.1
														36969	115.8	118.9	0.01	-	<.001	5	0.1
														36970	118.9	120.9	0.21	-	<.001	5	0.1
														36971	120.9	122.9	0.11	-	<.001	5	0.1
														36972	122.9	125.0	0.04	-	<.001	5	0.1
														36973	125.0	127.0	0.02	-	<.001	5	0.1
														36974	127.0	129.0	0.03	-	<.001	5	0.1
														36975	129.0	131.0	0.03	-	<.001	5	0.1
														36976	131.0	133.0	0.02	-	<.001	5	0.1
														36977	133.0	135.0	0.01	-	<.001	5	0.1
														36978	135.0	137.0	0.02	-	<.001	5	0.1
														36979	137.0	139.0	0.03	-	<.001	5	0.1
														36980	139.0	141.0	0.04	-	<.001	5	0.1
														36981	141.0	143.0	0.01	-	<.001	5	0.1
														36982	143.0	145.0	0.02	-	<.001	5	0.1
														36983	145.0	147.0	0.22	-	<.001	5	0.1
														36984	147.0	149.0	0.02	-	<.001	5	0.1
														36985	149.0	151.0	0.04	-	<.001	5	0.1

Depth (m)		Description	%Py	%Cpy	%Bo/	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
97.2	129.0	Hbl-Bio-Qtz-diorite to Granodiorite, <b>Guichon</b> variety; Weak to moderate fracture controlled chl + ser + ca alteration. Moderate chl + ser + ca + ep fracture filled. Fracture sets 30, 60° C.A., less frequently sub-parallel and normal. Local red FeOx on fractures. <b>Fault</b> <b>Zone</b> - less intense than previous interval. <b>97.2-97.5 m:</b> fine, well-sorted sand. <b>97.5-104.5 m:</b> strongly drill rounded fragments 1-4 cm; sections of gouge and fault breccia with clay matrix at bottom, shear at ~ 30° C.A., weak cpy disseminated locally in gouge. <b>119.0-125.0 m:</b> fault, several 10-15 cm sections of gouge, clay matrix supported fault breccia; fragments of qtz + ca + ep veins with strong ep blebs, locally, shear ~ 30° - sub-parallel to C.A. <b>128.0-128.6 m:</b> gouge with milled clasts to 1 cm; qtz vein fragments, shear ~ 30° C.A. Moderately magnetic where least altered, weak hem after mag. Except where fracturing and alteration are most intense, most mag is unoxidized.	0.02	0.02	-	-	-1	3	3	3	2	0	-1	36986	151.0	153.0	0.32	-	< .001	5	0.1
														36987	153.0	155.0	0.07	-	< .001	5	0.2
														36988	155.0	157.0	0.04	-	< .001	5	0.2
														36989	157.0	159.0	0.03	-	< .001	5	0.2
														36990	159.0	161.0	0.06	-	< .001	5	0.2
														36991	161.0	163.0	0.02	-	< .001	5	0.2
														36992	163.0	165.0	0.02	-	< .001	5	0.2
														36993	165.0	167.0	0.01	-	< .001	5	0.2
														36994	167.0	169.0	0.02	-	< .001	5	0.2
														36995	169.0	171.0	0.02	-	< .001	5	0.2
														36996	171.0	173.0	0.01	-	< .001	5	0.2
														36997	173.0	175.0	0.01	-	< .001	5	0.1
														36998	175.0	177.0	0.01	-	< .001	5	0.1
														36999	177.0	179.0	0.03	-	< .001	5	0.1
														37000	179.0	181.0	0.01	-	< .001	5	0.1
														37001	181.0	183.0	0.02	-	< .001	5	0.1
														37002	183.0	185.0	0.02	-	< .001	5	0.1
														37003	185.0	187.0	0.02	-	< .001	5	0.1
														37004	187.0	189.0	0.03	-	< .001	5	0.1
														37005	189.0	191.0	0.06	-	< .001	5	0.1
														37006	191.0	193.0	0.02	-	< .001	5	0.1
														37007	193.0	195.0	0.01	-	0.001	5	0.1
														37008	195.0	197.0	0.03	-	0.001	5	0.1
														37009	197.0	199.0	0.02	-	0.001	5	0.1
														37010	199.0	201.0	0.02	-	0.001	5	0.1
														37011	201.0	203.0	0.02	-	0.001	5	0.1
														37012	203.0	205.0	0.02	-	0.001	5	0.1
														37013	205.0	207.0	0.01	-	0.001	5	0.1
														37014	207.0	209.0	0.02	-	0.001	5	0.1
														37015	209.0	211.0	0.02	-	0.001	5	0.1
														37016	211.0	213.0	0.08	-	0.001	5	0.1
														37017	213.0	215.0	0.01	-	0.004	5	0.1
														37018	215.0	217.0	0.01	-	0.004	5	0.1
														37019	217.0	219.0	0.01	-	0.004	5	0.1
														37020	219.0	221.0	0.01	-	0.004	5	0.1
														37021	221.0	222.5	0.01	-	0.004	5	0.1
<b>End of Assay Information</b>																					
																			*last composite only 5 samples		

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
From	To														From	To						
129.0	149.0	Hbl-Bio-Qtz Diorite to Granodiorite; Gulchon/Hybrid locally mafic rich, distinct foliation. Mafics weak to moderately chl + ser ± ep ± ca altered. Trace to weak ep alteration of feldspars. Moderate to strong chl + ser + ca ± ep fracture filled. Weak ep + chl ± ca veinlets, 0.5-1 mm, 1-2 per metre, with alb + ep ± chl envelopes, sub-parallel and normal C.A. Fracture sets 30-60° C.A., less frequently sub-parallel and normal. 139.8-141.0 m: fault, strong chl + ser + ca altered, local clay gouge, fault breccia with clay matrix; shear at 30-40° C.A.; 5 cm vein specular hematite + ca at 40° C.A. Trace cpy replacing chl + ser altered mafics. Two pink aplite dykelets, 1 and 10 cm, 70° C.A., contacts not chilled. Scattered Hbl phenos, 5-7 mm, in mafic rich sections, occasionally poikilitic, enclosing Qtz, plag & often strong mag (replacement product?). Most mag is unoxidized. Moderate to strongly magnetic throughout. Local red FeOx + ca vein with strong cpy blebs. 147.0 m, normal C.A.	0.01	0.02	-	-	-1	2	2	2	-1	7	-1	continued core logging								
149.0	167.0	Hbl-Bio-Qtz Diorite, Gulchon variety; Fault zone. Variable pervasive fracture controlled chl + ser + ca ± ep fracture filled. Fracture sets 30-60° C.A. Local red FeOx on fractures. 151.0-155.0 m: fault breccia/gouge with milled clasts to 2 cm, local cpy>>py disseminated in clay matrix. Shear at ~ 30° C.A., left lateral slip. Weak Qtz + ca veins 0.5-1 cm, < 1 per metre, with weak cpy in selvage. 165.0-167.0 m: fault gouge with milled clasts; local red FeOx.	-1	0.02	0.01	-1	-1	3	3	3	-1	5	-1									

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)		
From	To		From	To	From	To	From	To	From	To	From	To	From	To	From	To	From	To	From	To	From	To	
167.0	222.5	Hbl-Bio-Qtz Diorite, <b>Gulchon/Hybrid</b> , medium/coarse grained, locally mafic rich and fine/medium grained (partially assimilated xenoliths). Weak to moderate chl + ser + ca + ep alteration of mafics (bio more strongly altered than hbl). Weak to moderate fracture controlled saussuritization of feldspars. Moderate to strong chl + ser + ca + ep fracture filling. Fracture sets 20-70° C.A. Strongest fracture filling & strong chl + ser + ca envelopes, 1-3 cm, on 20-30° and 70° C.A. fractures locally. Clay filled slip surfaces, 1-2 per metre and local thin gouge, ~ 1 cm at 20-30° C.A. with strong chl + ser + ca envelopes. Ca veins, 3-5 mm, 2-3 per metre, at 20-30° and 70° C.A., with weak cpy + py + bo, usually on vein margins but occasionally in the cores. Trace to weak very fine grained cpy in strong chl + ser fracture fillings locally. Trace cpy replacing chl + ser + ca altered mafics. Weakly oxidized mag, most is unaltered. Moderate to strongly magnetic except where pervasive alteration is greatest. <b>210.0-212.0 m: Fault, strong pervasive chl + ser + ca + clay altered. Sub-parallel shear, numerous irregular ca veins and fragments.</b> Ca + ep + cp veins, 218.0-219.0 m, > 0.5 cm, sub-parallel C.A.  <b>EOH 222.6 m</b>	-1	0.02	0.01	-1	-1	3	3	3	-1	5	-1										

**Diamond Drill Log**

<b>Project:</b>	Getty North Property	<b>Location:</b>									
<b>Hole #:</b>	96-22	<b>Northing:</b>	5603812	1 = background/fresh	4 = strong	<b>Core:</b>	NQ2				
<b>Date:</b>	18-Jul-96	<b>Easting:</b>	641515	2 = weak	5 = intense	<table border="1" style="float:right"> <tr><td>Azimuth</td><td>Dip</td></tr> <tr><td>Collar</td><td>110 / -50</td></tr> </table>	Azimuth	Dip	Collar	110 / -50	
Azimuth	Dip										
Collar	110 / -50										
<b>Logged by:</b>	V. Niessen	<b>Elevation:</b>	1725 m	3 = moderate							

**Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.**

Depth (m)		Description	%Py	%Cp	%Ba/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays							
From	To													Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
0.0	5.0	Casing/overburden												40481	5.0	7.0	0.03	-	< 001	5	0.1
5.0	30.0	Hbl-bio-Qtz-Monzodionite, Guichon variety, fresh to weak pervasive chl + ser altered. Moderately fractured with alb + ep envelopes. Weak microveinlets chl + ser + py ± cpy (lim) with alb + ep envelopes -5 per metre. Alb + ep + chl alteration increases down section, phenos ghost-like. Moderate to strongly magnetic where fresh, weak to non-magnetic where altered (especially albitized). Trace mal/chrys + lim + Cu-Mn Ox in fractures. Fracture sets 30-60° C.A.	0.05	0.05	-1	-1	-1	2	2	2	-1	15	2	40482	7.0	9.0	0.05	-	< 001	5	0.1
														40483	9.0	11.0	0.03	-	< 001	5	0.1
														40484	11.0	13.0	0.04	-	< 001	5	0.1
														40485	13.0	15.0	0.04	-	< 001	5	0.1
														40486	15.0	17.0	0.03	-	< 001	5	0.1
														40487	17.0	19.0	0.03	-	< 001	5	0.1
														40488	19.0	21.0	0.02	-	< 001	5	0.1
														40489	21.0	23.0	0.06	-	< 001	5	0.1
														40490	23.0	25.0	0.07	-	< 001	5	0.1
														40491	25.0	27.0	0.03	-	< 001	5	0.1
														40492	27.0	29.0	0.02	-	< 001	5	0.1
														40493	29.0	31.0	0.03	-	< 001	5	0.1
30.0	44.0	Guichon variety, moderate to intense chl + ser + ca + clay altered with strong pervasive limonite staining to 41.0 m. <b>32.0-33.0 m: Fault, crushed/milled; crushed qtz veinlets; strong lim.</b> <b>41.5-44.0 m: Fault, intense ser + ca + clay altered, 20-30 cm clay gouge at 40° C.A.</b> Fracture sets 40-50° C.A. Strong ser + clay + ca + lim fracture filled.	0.05	-1	-1	-1	-1	5	4	4	4	10	-1	40494	31.0	33.0	0.05	-	< 001	5	0.1
														40495	33.0	35.0	0.03	-	< 001	5	0.1
														40496	35.0	37.0	0.04	-	< 001	5	0.1
														40497	37.0	39.0	0.05	-	< 001	5	0.1
														40498	39.0	41.0	0.04	-	< 001	5	0.1
														40499	41.0	43.0	0.05	-	< 001	5	0.1
														40500	43.0	45.0	0.02	-	< 001	5	0.1
														40501	45.0	47.0	0.01	-	0.001	5	0.2
														40502	47.0	49.0	0.02	-	0.001	5	0.2
														40503	49.0	51.0	0.03	-	0.001	5	0.2
44.0	56.5	Homblende Needle-Plagioclase-Crowded Porphyry, Granophytic groundmass; faulted upper contact, lower contact chilled against Guichon variety, 1-2 cm black chill margin. Variable weak to moderate fracture controlled pervasive ser + chl + ca ± ep ± alb alteration, decreasing down section. Moderate to strong ser + ca ± chl ± ep ± lim fracture filled. Fracture sets 30-60° C.A., 10-20 per metre. Moderate to strongly magnetic. Trace fine grained py replacing mafics.	0.05	-1	-1	-1	-1	2	2	3	-1	7	-1	40504	51.0	53.0	0.02	-	0.001	5	0.2
														40505	53.0	55.0	0.02	-	0.001	5	0.2
														40506	55.0	57.0	0.05	-	0.001	5	0.2
														40507	57.0	59.0	0.11	-	0.001	5	0.2
														40508	59.0	61.0	0.02	-	0.001	5	0.2
														40509	61.0	63.0	0.24	-	0.001	5	0.2
														40510	63.0	65.0	0.03	-	0.001	5	0.2
														40511	65.0	67.0	0.11	-	0.001	5	0.1
														40512	67.0	69.0	0.20	-	0.001	5	0.1
														40513	69.0	71.0	0.06	-	0.001	5	0.1
														40514	71.0	73.0	0.02	-	0.001	5	0.1
														40515	73.0	75.0	0.05	-	0.001	5	0.1
														40516	75.0	77.0	0.03	-	0.001	5	0.1
														40517	77.0	79.0	0.02	-	0.001	5	0.1
														40518	79.0	81.0	0.10	-	0.001	5	0.1
														40519	81.0	83.0	0.05	-	0.001	5	0.1
														40520	83.0	85.0	0.06	-	0.001	5	0.1

## Drill #1

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
56.5	103.5	Hbl-Bio-Qtz-Dionte. Guichon variety, variable moderate to strong pervasive chl + ser + ca ± ep ± alb altered with local intense ser + clay + ca ± chl and weakly altered, competent sections. Overall alteration increasing down section. Mafics moderate to strongly chl + ser ± ca ± ep altered Feldspars moderate to strongly ser ± ca ± ep ± alb altered, locally strongly chloritic. Strong chl + ser + ca ± lim ± clay fracture filled Fracture sets at 30-60° C.A., 10-20 per metre Weak fine grained py, locally in fractures. Trace to weak py > cpy replacing chl + ser altered mafics, locally 0.2-0.5% cpy, very fine grained, slight increase down section. Weak chl + ep + ca ± cpy ± py veinlets, 0.5-5 mm, < 1 per metre, with 1-3 cm alb + ep ± chl envelopes. <b>82.5-85.0 m: Fault, 20-30 cm clay gouge at 40° C.A., locally crushed/milled, intense chl + ser + clay + ca alteration; ca veins.</b> <b>101.0-103.5 m: weak Fault, healed crush zones, ca-cemented, milled clasts, intensely altered.</b> Moderate to strongly magnetic in weakly altered, competent section; non-magnetic elsewhere, hem after mag.	0.1	0.2	-1	-1	2	4	4	3	2	10	-1	40521	85.0	87.0	0.06	-	< 003	5	0.2
														40522	87.0	89.0	0.04	-	< 003	5	0.2
														40523	89.0	91.0	0.05	-	< 003	5	0.2
														40524	91.0	93.0	0.10	-	< 003	5	0.2
														40525	93.0	95.0	0.05	-	< 003	5	0.2
														40526	95.0	97.0	0.09	-	< 003	5	0.2
														40527	97.0	99.0	0.09	-	< 003	5	0.2
														40528	99.0	101.0	0.06	-	< 003	5	0.2
														40529	101.0	103.0	0.05	-	< 003	5	0.2
														40530	103.0	105.0	0.04	-	< 003	5	0.2
														40531	105.0	107.0	0.05	-	0.001	<5	0.2
														40532	107.0	109.0	0.06	-	0.001	<5	0.2
														40533	109.0	111.0	0.05	-	0.001	<5	0.2
														40534	111.0	113.0	0.05	-	0.001	<5	0.2
														40535	113.0	115.0	0.31	-	0.001	<5	0.2
														40536	115.0	117.0	0.01	-	0.001	<5	0.2
														40537	117.0	119.0	0.02	-	0.001	<5	0.2
														40538	119.0	121.0	0.03	-	0.001	<5	0.2
														40539	121.0	123.0	0.01	-	0.001	<5	0.2
														40540	123.0	125.0	0.02	-	0.001	<5	0.2
40541	125.0	127.0	0.03	-	0.001	<5	0.1														
40542	127.0	129.0	0.02	-	0.001	<5	0.1														
40543	129.0	131.0	0.01	-	0.001	<5	0.1														
40544	131.0	133.0	0.01	-	0.001	<5	0.1														
40545	133.0	135.0	0.01	-	0.001	<5	0.1														
103.5	127.7	Hbl-Bio-Qtz-Monzodiorite, Plagioclase Crowded Porphyry, granophytic groundmass. Variable weak to strongly ser + chl ± ca ± ep ± alb altered, decreasing down section Qtz + ca + py ± cpy veinlets 0.5-2 mm, 45-50° C.A., with weakly developed 2-5 mm qtz + ser envelopes. Moderate ser + ca ± chl ± clay fracture filled. Fracture sets 30-70° C.A. <b>115.2-118.3 m: pink qtz monzonitic, granophytic.</b> Trace to weakly magnetic, hem after mag.	0.1	0.2	-1	-1	2	3	3	3	2	5	-1	40546	135.0	137.0	0.01	-	0.001	<5	0.1
														40547	137.0	139.0	0.03	-	0.001	<5	0.1
														40548	139.0	141.0	0.01	-	0.001	<5	0.1
														40549	141.0	143.0	0.02	-	0.001	<5	0.1
														40550	143.0	145.0	0.02	-	0.001	<5	0.1
														40551	145.0	147.0	0.01	-	0.001	<5	0.2
														40552	147.0	149.0	0.01	-	0.001	<5	0.2
														40553	149.0	151.0	0.01	-	0.001	<5	0.2
														40554	151.0	153.0	0.01	-	0.001	<5	0.2
														40555	153.0	155.0	0.01	-	0.001	<5	0.2
														40556	155.0	157.0	0.01	-	0.001	<5	0.2
														40557	157.0	159.0	0.01	-	0.001	<5	0.2
														40558	159.0	161.0	0.01	-	0.001	<5	0.2
														40559	161.0	163.0	0.01	-	0.001	<5	0.2
														40560	163.0	165.0	0.01	-	0.001	<5	0.2
														40561	165.0	167.0	0.02	-	< 001	<5	0.3
40562	167.0	169.0	0.02	-	< 001	<5	0.3														
40563	169.0	171.0	0.01	-	< 001	<5	0.3														
40564	171.0	173.0	0.02	-	< 001	<5	0.3														
40565	173.0	175.0	0.03	-	< 001	<5	0.3														
40566	175.0	177.0	0.02	-	< 001	<5	0.3														
40567	177.0	179.0	0.01	-	< 001	<5	0.3														
40568	179.0	181.0	0.01	-	< 001	<5	0.3														

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
127.7	142.6	Hbl-Bio-Qtz-Diorite to Qtz-Monzodiorite, weakly porphyritic (plagioclase phync), medium grained to weakly senate	-1	0.05	-1	-1	-1	2	2	2	-1	14	-1	40569	181.0	183.0	0.01	-	< 0.01	<5	0.3
		40570												183.0	185.0	0.01	-	< 0.01	<5	0.3	
		40571												185.0	187.0	0.01	-	0.002	<5	0.1	
		40572												187.0	189.0	0.01	-	0.002	<5	0.1	
		40573												189.0	191.0	0.03	-	0.002	<5	0.1	
		40574												191.0	193.0	0.03	-	0.002	<5	0.1	
		40575												193.0	195.0	0.03	-	0.002	<5	0.1	
		40576												195.0	197.0	0.04	-	0.002	<5	0.1	
		40577												197.0	199.0	0.06	-	0.002	<5	0.1	
		40578												199.0	201.0	0.04	-	0.002	<5	0.1	
		40579												201.0	203.0	0.04	-	0.002	<5	0.1	
		40580												203.0	205.0	0.02	-	0.002	<5	0.1	
		40581												205.0	207.0	0.04	-	0.001	5	0.2	
		40582												207.0	209.0	0.03	-	0.001	5	0.2	
		40583												209.0	211.0	0.04	-	0.001	5	0.2	
		40584												211.0	213.0	0.04	-	0.001	5	0.2	
		40585												213.0	215.0	0.02	-	0.001	5	0.2	
40586	215.0	217.0	0.01	-	0.001	5	0.2														
40587	217.0	219.0	< 0.1	-	0.001	5	0.2														
40588	219.0	221.0	0.01	-	0.001	5	0.2														
142.6	166.7	Bio-Qtz-Monzodiorite to Qtz-Monzonite, Plagioclase Porphyry, granophytic groundmass; increasingly monzonitic down section.	0.1	0.01	-1	-1	-1	3	3	3	2	8	-1	40589	221.0	223.0	0.02	-	0.001	5	0.2
		40590												223.0	225.0	0.01	-	0.001	5	0.2	
		40591												225.0	227.0	0.01	-	0.001	<5	0.2	
		40592												227.0	229.0	0.02	-	0.001	<5	0.2	
		40593												229.0	231.0	0.01	-	0.001	<5	0.2	
		40594												231.0	233.0	0.01	-	0.001	<5	0.2	
		40595												233.0	235.0	0.02	-	0.001	<5	0.2	
		40596												235.0	237.0	0.01	-	0.001	<5	0.2	
		40597												237.0	239.0	0.01	-	0.001	<5	0.2	
		40598												239.0	241.0	0.01	-	0.001	<5	0.2	
		40599												241.0	243.0	0.01	-	0.001	<5	0.2	
		40600												243.0	245.0	0.01	-	0.001	<5	0.2	
		40601												245.0	247.0	0.02	-	0.002	<5	0.1	
		40602												247.0	249.0	0.01	-	0.002	<5	0.1	
		40603												249.0	251.0	0.01	-	0.002	<5	0.1	
		40604												251.0	253.0	0.04	-	0.002	<5	0.1	
		166.7												193.5	Hbl-Bio-Plagioclase Crowded Porphyry, D3; chilled upper and lower contacts. Mafics strongly chl + ser + ep + ca altered. Feldspars weak to moderate ser + ca + ep altered. Moderate fine grained py replacing mafics (0.5-1%).	0.5	0.05	-1	-1	-1	2
40606	255.0		257.0	0.04	-	0.002	<5	0.1													
40607	257.0		259.0	0.02	-	0.002	<5	0.1													
40608	259.0		261.0	0.02	-	0.002	<5	0.1													
40609	261.0		263.0	0.01	-	0.002	<5	0.1													
40610	263.0		265.0	0.02	-	0.002	<5	0.1													
40611	265.0		267.0	0.01	-	< 0.01	<5	0.1													
40612	267.0		269.0	0.04	-	< 0.01	<5	0.1													
40613	269.0		270.9	0.01	-	*last composite only 3 samples															

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
193.5	224.0	<p>Bio-Qtz-Monzodiorite, Plagioclase porphyry, granophyric groundmass, pink</p> <p>Variable fresh to weak chl + ca + ser altered to 205.0 m</p> <p>Strong pervasive chl + ser + ca with strong chl + ca + ser fracture filling below 205.0 m. Local thin gouge, 2-3 cm, 194.1 m, ~40-50° C.A.</p> <p><b>200.0-201.5 m:</b> strong clay + ser + qtz alteration, bleached white.</p> <p>Fracture sets 1-5° and 70° C.A., 6-8 per metre.</p> <p><b>212.0-213.0 m:</b> Fault, fault brecciated, crushed, friable, intense ser + clay + ca</p> <p><b>220.1-221.1 m:</b> Fault, fault breccia; crushed, ca-vein fragments, local siliceous clasts, gouge at ~45° C.A.</p> <p>Non-magnetic.</p>	0.05	-1	-1	-1	2	4	4	4	2	7	-1	continued Core Logging							
224.0	270.7	<p>Bio-Qtz-Monzodiorite, Plagioclase Crowded Porphyry, pink granophyric groundmass.</p> <p>Variable weak to moderate chl + ser + ca lateration to EOH. Poorly healed fault breccia/gouge from 257.0-257.5 m. Alteration generally weakens down section. Feldspars altered for chl + ep; bio alteration grades from weak chl to moderate ser + chl, mag to hem.</p> <p>Mineralization restricted to fracture fill (py&gt;cpy).</p> <p>Fracture sets with frequencies of 5-10 per metre at 45-50°, 60-65°, 30 and 80° C.A. Fill is calcite, clay, chl, ser + py + FeOx + lim.</p> <p>Veins: calcite + ep + hem + py + qtz. All approximately 1-2 mm wide. Ep veins occasionally have albitized envelopes in fresher rock. Vein orientations follow those of fractures (45-50, 60-65° C.A.) Frequency of 4-6 per metre average.</p> <p>Weakly to non-magnetic.</p> <p>Porphyry palite dykelets cross cut intermittently down section; 2 mm to 8 cm wide, approximately 60° C.A.</p> <p style="text-align: center;">EOH 270.7 m</p>	0.05	-1	-1	-1	1	4	4	4	3	40	1								



**Diamond Drill Log**

<b>Project:</b>	Getty North Property	<b>Location:</b>																<b>Azimuth</b>	<b>Dip</b>
<b>Hole #:</b>	96-23	<b>Northing:</b>		1 = background/fresh	4 = strong	Core:	NQ2	<b>Collar</b>	0-15	-45									
<b>Date:</b>	30-Jul-96	<b>Easting:</b>		2 = weak	5 = intense														
<b>Logged by:</b>	R. Whiteaker/V. Niessen	<b>Elevation:</b>		3 = moderate															

**Note:** all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays							
From	To													Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
0.0	5.0	Casing/Overburden												40614	4.0	5.5	0.13	-	0.001	<5	0.2
														40615	5.5	7.5	0.14	-	0.001	<5	0.2
5.0	8.0	Guichon Homblende Bio-Qtz Dione, medium grained, weakly equigranular. Weak to moderate alteration chl + ser + ca ± ep.	0.1	0.05	-1	-1	-1	2	2	2	-1	2.5	-1	40616	7.5	9.5	0.09	-	0.001	<5	0.2
		Fracture fill: chl + ca + lim ± py ± mal ± MnCu oxides												40617	9.5	11.5	0.06	-	0.001	<5	0.2
		Fracture sets 80, 45, 60° C.A.												40618	11.5	13.5	0.07	-	0.001	<5	0.2
		Sparse ep veinlets, 1-2 mm Moderately magnetic												40619	13.5	15.5	0.06	-	0.001	<5	0.2
		Trace cpy replacing mafics.												40620	15.5	17.7	0.05	-	0.001	<5	0.2
														40621	17.7	20.7	0.18	-	0.001	<5	0.2
														40622	20.7	22.2	0.05	-	0.001	<5	0.2
														40623	22.2	23.8	0.05	-	0.001	<5	0.2
8.0	22.4	Granophytic hbl-bio-plag porphyry dyke (pink )	0.5	0.1	-1	-1	-1	2	2	2	-1	0	-1	40624	23.8	25.8	0.06	-	0.001	<5	0.1
		Consistent, weak alteration throughout ser + chl ± ca ± ep.												40625	25.8	27.8	0.05	-	0.001	<5	0.1
		Fracture sets - normal, sub-parallel, most commonly at 50-55° C.A.; 15-20 per metre.												40626	27.8	29.8	0.22	-	0.001	<5	0.1
		Fracture fill: chl + qtz ± py ± ca ± ser. Trace lim on fracture surfaces between 17.5-20.7 m breccia zone (fault breccia). Between 20.7-22.2 m core loss/rounding. Veins - qtz + py 60-80° C.A., 0.5-2 mm wide and 3-4 per metre; Qtz-ser alteration envelopes/selvages up to 5 mm												40627	29.8	31.8	0.22	-	0.001	<5	0.1
		Moderately magnetic												40628	31.8	33.8	0.10	-	0.001	<5	0.1
		Py>>>cpy replacing chl + ser ± ca altered mafics.												40629	33.8	35.8	0.04	-	0.001	<5	0.1
														40630	35.8	37.8	0.25	-	0.001	<5	0.1
														40631	37.8	39.8	0.32	-	0.001	<5	0.1
														40632	39.8	41.8	0.02	-	0.001	<5	0.1
														40633	41.8	45.1	0.03	-	0.001	<5	0.1
														40634	45.1	47.1	0.06	-	<.001	<5	0.1
														40635	47.1	49.1	0.04	-	<.001	<5	0.1
														40636	49.1	51.1	0.11	-	<.001	<5	0.1
														40637	51.1	53.1	0.03	-	<.001	<5	0.1
														40638	53.1	55.1	0.02	-	<.001	<5	0.1
														40639	55.1	57.1	0.02	-	<.001	<5	0.1
														40640	57.1	59.1	0.02	-	<.001	<5	0.1
														40641	59.1	61.1	0.02	-	<.001	<5	0.1
														40642	61.1	63.1	0.04	-	<.001	<5	0.1
														40643	63.1	65.1	0.03	-	<.001	<5	0.1
														40644	65.1	67.1	0.03	-	<.001	5	0.1
														40645	67.1	69.1	0.03	-	<.001	5	0.1
														40646	69.1	71.1	0.05	-	<.001	5	0.1
														40647	71.1	73.1	0.03	-	<.001	5	0.1
														40648	73.1	75.1	0.05	-	<.001	5	0.1
														40649	75.1	77.1	0.13	-	<.001	5	0.1
														40650	77.1	79.1	0.08	-	<.001	5	0.1
														40651	79.1	81.1	0.03	-	<.001	5	0.1
														40652	81.1	83.1	0.03	-	<.001	5	0.1
														40653	83.1	85.1	0.03	-	<.001	5	0.1

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
22.4	64.6	<p>Hbl-bio-qtz dionite. <b>Guichon</b>. Medium grained and equigranular. Weakly to moderately magnetic. Overall alteration is weak to moderate. assemblage ca + ser ± chl ± alb ± ep ± clay, weaker alteration down interval. Fracture filling: ca + ser + clay ± qtz ± chl ± lim, fracture sets at per metre at 60 &amp; 45° C.A. and subparallel. Veins: ca ± qtz ± py ± cpy at 80 &amp; 30° C.A. Frequency approximately 4-6 per metre, 1 mm to 1 cm wide. Second group of veins ep + ca + chl ± hem ± py ± cpy at ~80° C.A., 2-4 per metre from 35.8-39.1 m ~1-4 cm wide. note: the smaller ca ± qtz ± cpy ± py veins cross cut larger ep ± hem ± chl ± cpy veins. Fault breccia between 26.8-33.0 m, moderately well healed with clay + ca ± ser supported matrix clay gouge prominent throughout this interval. Ser + clay ± ca ± chl altered mafics widely replaced by py ± cpy.</p> <p><b>39.1-42.8 m:</b> Hbl-bio-plagioclase porphyry (granophytic texture) strongly broken/fractured (milled/rolled in drill). Limonitic on fracture surfaces &amp; within mafics. Overall alteration is moderate: assemblage ser + lim + clay ± hem ± ep ± alb ± calcite. Fracture surfaces sub-parallel and ~ 50° C.A. with lim + ser ± py ± clay ± hem ± ep filling fractures; 8-10 per metre. Veins: 1-2 mm wide at ~50-60° C.A., 2-4 per metre, primarily ep with alb ± py ± calcite. Non to weakly magnetic.</p> <p><b>42.8-46.0 m:</b> <b>Guichon</b>, increase in calcite ± chl ± clay veins. 70-80° C.A., &lt; 1 mm to 1.2 cm wide.</p> <p><b>50.0-51.2 m:</b> crackle breccia with clay + chl + ser ± lim ± ca fracture filling. Mafics altered moderately to chl + ser ± ca ± clay. Feldspars altered weakly to ser.</p>	0.1	0.06	-1	-1	-1	2	2	2	3	5.5	-1	40654	85.1	87.1	0.03	-	< .001	5	0.1
			40655	87.1	89.1	0.04	-	< .001	5	0.1											
			40656	89.1	91.1	0.03	-	< .001	5	0.1											
			40657	91.1	93.1	0.04	-	< .001	5	0.1											
			40658	93.1	95.1	0.04	-	< .001	5	0.1											
			40659	95.1	97.1	0.03	-	< .001	5	0.1											
			40660	97.1	99.1	0.04	-	< .001	5	0.1											
			40661	99.1	101.1	0.04	-	< .001	5	0.1											
			40662	101.1	103.1	0.04	-	< .001	5	0.1											
			40663	103.1	105.1	0.06	-	< .001	5	0.1											
			40664	105.1	107.1	0.03	-	< .001	5	0.1											
			40665	107.1	109.1	0.02	-	< .001	5	0.1											
			40666	109.1	111.1	0.02	-	< .001	5	0.1											
			40667	111.1	113.1	0.02	-	< .001	5	0.1											
			40668	113.1	115.1	0.02	-	< .001	5	0.1											
			40669	115.1	117.1	0.02	-	< .001	5	0.1											
			40670	117.1	119.1	0.02	-	< .001	5	0.1											
			40671	119.1	121.1	0.02	-	< .001	5	0.1											
			40672	121.1	123.1	0.03	-	< .001	5	0.1											
			40673	123.1	125.1	0.04	-	< .001	5	0.1											
			40674	125.1	127.1	0.03	-	< .001	5	0.1											
			40675	127.1	129.1	0.04	-	< .001	5	0.1											
			40676	129.1	131.1	0.03	-	< .001	5	0.1											
			40677	131.1	133.1	0.03	-	< .001	5	0.1											
			40678	133.1	135.1	0.01	-	< .001	5	0.1											
			40679	135.1	137.1	0.02	-	< .001	5	0.1											
			40680	137.1	139.1	0.02	-	< .001	5	0.1											
			40681	139.1	141.1	0.02	-	< .001	5	0.1											
			40682	141.1	143.1	0.02	-	< .001	5	0.1											
			40683	143.1	143.9	0.02	-	< .001	5	0.1											
			end of assay information																		

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
64.6	89.5	<p><b>Guichon</b>, hbl-bio-qtz diorite. Weak to moderate alteration ser + clay + chl + ca + lim + alb. Moderate to strong fracturing, 10-15 per metre. 60-65°, 30-35°, 80-90° C.A. Filling: clay + ser + calcite + chl + hem moderately limonitic on fractures.</p> <p>Hem stained ca veins ~ 1-5 mm, 8-12 per metre, 50-60, 30-35, 0-20° C.A. Filling: calcite + qtz + py</p> <p>Locally contain alb envelope 1-6 cm wide. Local shearing ~ 79.2 m, 5 cm wide, at ~80-85° C.A. contains calcite + clay + lim + qtz.</p> <p>Overall mafics weakly to moderately altered to ser + clay + calcite</p> <p>Feldspars weakly altered to ser + alb. None to trace py fracture fill.</p> <p><b>64.6-69.0 m:</b> fault breccia within Guichon hbl-bio-plagioclase qtz diorite. Strongly broken, poorly to moderately well healed with clay + calcite + ser + lim matrix; locally clay gouged throughout interval. Strong to intense weathering (limonitic), very friable. Clay gouge contains slickensides at 64.9 m and 69.0 m at ~90° C.A. on a fracture plane 20-30° C.A. Slip surface is subparallel (left lateral movement)</p>	0.05	0.01	-1	-1	1	2	2	2	2	1	-1	continued core logging							
89.5	143.9	<p><b>Guichon</b>, hbl-bio-qtz diorite. Medium grained. Overall alteration is weak with short intervals (&lt;1 m) of moderate alteration. Assemblage: ca + ser + clay + alb + lim + hem + chl.</p> <p>Fracture sets: 6-8 per metre at 80-90, 35-40 &amp; 15-20° C.A. Fill: ca + chl + lim + hem + clay.</p> <p>Veins: 4-6 per metre at 30-40, 70-80 &amp; ~25° C.A.</p> <p>Fill most commonly ca + chl + lim + hem; also ep + alb envelopes. Increasingly less altered and fewer veins and fractures down section to EOH.</p> <p>Trace py + cpy + bo occur as minor mafic replacements. Moderately magnetic.</p> <p><b>108.5-111.5 m:</b> moderately well healed fault breccia with ca + chl + clay + ser matrix and slip fill. Weak lim + hem prominent on fracture surfaces (~55° C.A.) and in vuggy cavities. (Py + cpy occupying vugs after ca).</p> <p style="text-align: center;"><b>EOH 143.9 m</b></p>	0.03	0.01	1	1	-1	2	2	2	2	23	-1								

**Diamond Drill Log**

<b>Project:</b>	Getty North Property	<b>Location:</b>	-1 = absent	
<b>Hole #:</b>	96-24	<b>Northing:</b>	5603382	1 = background/fresh
<b>Date:</b>	05-Aug-96	<b>Easting:</b>	641769	2 = weak
<b>Logged by:</b>	R. Whiteaker	<b>Elevation:</b>	1677.8 m	3 = moderate
				4 = strong
				5 = intense

Core: NQ2

Azimuth	Dip
270	-45

**Note:** all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

Depth (m) From To		Description	%Py	%Cp	%Bt/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays							
														Sample Number	Interval (m) From To		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
0.0	4.0	Casing/overburden												40684	4.0	5.5	0.02	-	<.001	5	0.1
														40685	5.5	7.5	0.01	-	<.001	5	0.1
4.0	32.6	Bio-Hbl-Qtz Monzonidionite (Guichon variety) Weakly equigranular Weak to moderate fracture controlled alteration Alteration strongest in vein selvages where plagioclase altered to ser + alb ± calc. hbl altered to mag + clay + ser ± cpy ± py ± ca ± chl. Sub-millimetre to 3 cm wide ca + ser ± chl ± hem ± Qtz ± ep veins containing alb ± hem ± ser envelopes/selvages at 40-45, 25-30, 55-60° and subparallel C.A. 6-10 per metre. selvages 1-4 cm wide. Dominant fracture sets at 40-45, 60-70° and subparallel C.A., 8-12 per metre; ser + ca ± hem ± lim filling Weak to moderate magnetism where least altered. Non-magnetic where strongly altered. Trace to 1 % cpy (>>py) replacing mafics within selvages of veins.	0.05	0.1	-1	-1	1	3	2	2	2	24	-1	40686	7.5	9.5	0.15	-	<.001	5	0.1
														40687	9.5	11.5	0.02	-	<.001	5	0.1
														40688	11.5	13.5	0.02	-	<.001	5	0.1
														40689	13.5	15.5	0.05	-	<.001	5	0.1
														40690	15.5	17.5	0.01	-	<.001	5	0.1
														40691	17.5	19.5	0.01	-	<.001	5	0.1
														40692	19.5	21.5	0.01	-	<.001	5	0.1
														40693	21.5	23.5	0.02	-	<.001	5	0.1
														40694	23.5	25.5	0.08	-	<.001	5	0.1
														40695	25.5	27.5	0.02	-	<.001	5	0.1
														40696	27.5	29.5	0.01	-	<.001	5	0.1
														40697	29.5	31.5	0.01	-	<.001	5	0.1
														40698	31.5	33.5	0.01	-	<.001	5	0.1
														40699	33.5	35.5	0.01	-	<.001	5	0.1
														40700	35.5	37.5	0.01	-	<.001	5	0.1
														40701	37.5	39.5	<.01	-	<.001	5	0.1
32.6	42.2	<b>Bethlehem</b> phase granodionite. Contact with Guichon is fairly sharp and non-diffuse although Guichon unit is weakly albitized/sericitized 4 cm outwards from contact. Slightly fsp-bio-porphyrific. Feldspar altered to ser. Mafics altered to ser + clay ± ca + mag. Overall alteration is weak to moderate. Fracture sets 35-40, 55-65° C.A., 8-10 per metre, with ca + ser ± hem ± lim ± ep ± clay filling. Trace disseminated cpy ± py on fracture surface with hem ± lim. Qtz + hem ± ep ± ser ± ca ± alb ± cpy veins at 35-40, 50-55 & 10-20° C.A., 6-10 per metre. <1-3 mm core with 2 mm-1 cm wide selvage. Cpy occurs as finely disseminated beads with Qtz ± hem vein fill. 1-5 cm diameter stoped Guichon fragments 1 per 3 m. Weakly magnetic.	0.01	0.01	-1	-1	-1	2	2	-1	2	33	-1	40702	39.5	41.5	0.01	-	<.001	5	0.1
														40703	41.5	43.5	0.01	-	<.001	5	0.1
														40704	43.5	45.5	<.01	-	<.001	5	0.1
														40705	45.5	47.5	<.01	-	<.001	5	0.1
														40706	47.5	49.5	0.04	-	<.001	5	0.1
														40707	49.5	51.5	0.01	-	<.001	5	0.1
														40708	51.5	53.5	0.02	-	<.001	5	0.1
														40709	53.5	55.5	0.04	-	<.001	5	0.1
														40710	55.5	57.5	0.09	-	<.001	5	0.1
														40711	57.5	59.5	0.02	-	<.001	5	0.1
														40712	59.5	61.5	0.01	-	<.001	5	0.1
														40713	61.5	63.5	0.02	-	<.001	5	0.1
														40714	63.5	65.5	0.02	-	<.001	5	0.1
														40715	65.5	67.5	0.03	-	<.001	5	0.1
														40716	67.5	69.5	0.02	-	<.001	5	0.1
														40717	69.5	71.5	0.03	-	<.001	5	0.1
														40718	71.5	73.5	0.02	-	<.001	5	0.1
														40719	73.5	75.5	0.02	-	<.001	5	0.1
														40720	75.5	77.5	0.01	-	<.001	5	0.1
														40721	77.5	79.5	0.02	-	<.001	5	0.1

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Suff	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
42.2	145.7	Bio-Hbl-Qtz Monzoniorite (Guichon variety)	0.01	0.03	1	-1	2	3	2	2	2	25	-1	40722	79.5	81.5	0.02	-	<.001	5	0.1
		Chilled silicic contact with Bethlehem phase strongly broken in shear/gouge zone. 20-30° C.A. clay + ser + ca ± chl ± ep ± lim ± hem												40723	81.5	83.5	0.02	-	<.001	5	0.1
		Fracture sets 4-6 per metre at 50-60, 25-35° and subparallel to C.A. ser + ca + clay ± hem ± chl ± lim fill												40724	83.5	85.5	0.03	-	<.001	5	0.2
		Mafics altered to ser + ca + clay ± mag ± cpy ± bo (cpy>>bo) Feldspars altered to ser + ca + alb												40725	85.5	87.5	0.02	-	<.001	5	0.2
		Note cpy + bo restricted to 75.0-82.8 m												40726	87.5	89.5	0.02	-	<.001	5	0.2
		Ca + ser ± ep ± cpy and qtz + ca ± hem ± cpy veinlets with ser ± alb ± hem ± ep envelope/selvage at 50-60, 25-35 and 70-80° C.A. 6-8 per metre. < 1-3 mm wide and selvages up to 2.5 cm wide (core outwards)												40727	89.5	91.5	0.02	-	<.001	5	0.2
		65.0-71.0 m: Fault zone. 15-20 fractures per metre. hematite clay gouge at 25-30° C.A. at variable intervals. cpy ± py mafics replacement and beaded in veinlets at 70.7 m												40728	91.5	93.5	0.02	-	<.001	5	0.2
		82.8-89.0 m: Fault zone. Clay + ser + ca slip at 20° C.A. at 82.8 m												40729	93.5	95.5	0.01	-	<.001	5	0.2
		Increase in cpy (1-1.5%) and py (1%) as mafic, replacements/disseminations and on fracture surfaces. Ep + ser + ca ± hem ± CuOx.												40730	95.5	97.5	0.12	-	<.001	5	0.2
		Fracture sets 10-20 per metre, crumbled and broken near vuggy and irregular. Qtz + ep ± ser ± ca ± alb veins/veinlets containing interstitial and disseminated cpy >py>Mo. Veinlets 1mm-3 cm, 50-60, 25-30° C.A.												40731	97.5	99.5	0.02	-	<.001	5	0.2
		Feldspars have a bleached/faded ghost-like appearance and have strongly albitized (± ca) Mafics altered to ser + ca ± ep ± cpy ± py.												40732	99.5	101.5	0.01	-	<.001	5	0.2
		Pinkish brown 2-3 cm aplite dykelets occur at 83.0 m at 60° C.A. and at 83.4 m at 45° C.A. and are crosscut by 1 mm ep + qtz ± hem ± ep veins. Aplitic dykelets contain sparse mineralized (cpy), qtz ± ser "clots" 1-3 mm in diameter.												40733	101.5	103.5	0.02	-	<.001	5	0.2
		90.0-141.3 m: Increase alteration (ser + ca ± alb ± ep) of Guichon package due to greater abundance of veins/veinlet selvages. Ep + qtz + ser ± ca ± hem ± cpy veinlets <1-4 mm wide at 20-25, 40-50° C.A., 8-12 per metre with alb + ser + ep ± garnet? ± hem envelopes and selvages up to 3 cm wide.												40734	103.5	105.5	0.05	-	<.001	5	0.1
		Locally 2-5 mm aplitic dykelets (veins?) crosscut by ep + qtz veinlets at 40-50° C.A. averaging 1 per metre.												40735	105.5	107.5	0.02	-	<.001	5	0.1
		Fracture sets 8-10 per metre at 35-40° and subparallel to C.A. coated with ser + ca ± ep ± anhydrite? ± hem. common association between ep and pink-rose garnet												40736	107.5	109.5	0.01	-	<.001	5	0.1
														40737	109.5	111.5	0.03	-	<.001	5	0.1
														40738	111.5	113.5	0.06	-	<.001	5	0.1
														40739	113.5	115.5	0.03	-	<.001	5	0.1
														40740	115.5	117.5	0.03	-	<.001	5	0.1
														40741	117.5	119.5	0.03	-	<.001	5	0.1
														40742	119.5	121.5	0.03	-	<.001	5	0.1
														40743	121.5	123.5	0.01	-	<.001	5	0.1
														40744	123.5	125.5	0.01	-	<.001	5	0.1
														40745	125.5	127.5	0.01	-	<.001	5	0.1
														40746	127.5	129.5	0.01	-	<.001	5	0.1
														40747	129.5	131.5	0.02	-	<.001	5	0.1
														40748	131.5	133.5	0.02	-	<.001	5	0.1
														40749	133.5	135.5	0.01	-	<.001	5	0.1
														40750	135.5	137.5	0.02	-	<.001	5	0.1
														40751	137.5	139.5	0.02	-	<.001	5	0.1
														40752	139.5	141.5	0.04	-	<.001	5	0.1
														40753	141.5	143.5	0.01	-	<.001	5	0.1
														40754	143.5	145.7	0.01	-	<.001	5	0.1
														end of assay information							
																			*last composite has 11 samples		

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
From	To														From	To						
		<p><b>cont'd sub-interval 90.0-141.3 m</b></p> <p>clusters (2-8 diameter) in selvage/wallrock of veins/vuggy qtz + anhydrite? + ser + ep fractures containing cpy (trace to 1%) ± py (trace)</p> <p><b>99.8-100.6 m:</b> Dark green-grey Hbl-Felds porphyry dyke with aphanitic qtz + feldspar groundmass. Upper contact with Guichon at 30° C.A. Lower contact with Guichon is chilled qtz + ser ± ca ± cpy at 25-40° C.A. Hbl altered to ser ± ca ± ep ± mag. Plag altered to alb ± ca. Non to weakly magnetic.</p> <p><b>103.5-104.1 m:</b> Subparallel (10-20° C.A.) silicified ep + ser shear with vuggy ep + qtz ± cpy (to 1%) and bo (0.05%) disseminations along vuggy wallrock contact.</p> <p><b>106.7 m:</b> non-mineralized aplite dykelet 2 cm wide at 15-25° C.A. cross cut by ser + ca ± qtz ± hem veinlets &lt; 1 mm wide.</p> <p><b>110.0-118.5 m:</b> <b>Fault</b>, strongly broken, crushed with clay + ca ± chl ± hem gouge. Locally fractures and qtz + ser + ep ± hem veinlets at 20-25° C.A. contain 1-4% disseminated cpy and 0.5-1% py. Aplitic dykelets 1-3 cm wide mineralized weak cpy at contact with moderate to strongly altered ser ± alb ± garnet? ± ep ± Fe-staining of feldspars.</p> <p><b>119.5-121.0 m:</b> Dark grey-green Bio-Hbl-feldspar porphyry dyke. Non to weakly magnetic. Chilled (qtz + alb ± ser ± ep) upper and lower contacts at 25° C.A. mineralized with cpy ± py and replacement of mafics by cpy in Guichon wallrock along contact (clay + ser + hem ± ca fracture filling). Interior of dyke is non-mineralized.</p> <p><b>126.3-126.8 m:</b> Pink-orange Crowded Bio-Hbl-Feldspar (plagioclase) porphyry dykelet. Weakly magnetic. Mafics have weak trachytic texture. Trace cpy &gt;&gt; py replacing mafics. Mafics altered to ser + clay ± ca ± mag. Plagioclase altered to chalky white ser + ca ± alb (?). 0.8-1% cpy and trace NCu on fracture surfaces at 30-40° C.A., 5-8 per metre.</p> <p><b>139.0-140.5 m:</b> Pink orange bio-hbl-feldspar porphyry dykelet. Weakly magnetic. Groundmass: qtz + K-sp + plagioclase. Chilled aplitic contact with Guichon wallrock (ser + alb + ep ± ca ± garnet? selvage).</p> <p><b>141.0-144.0 m:</b> Increase in aplitic/bio-hbl-feldspar porphyry dykelets at 20-30, 50-60° C.A. 5 mm-60 cm</p>																				
															<b>cont'd core logging</b>							

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
From	To														From	To						
		<p><i>cont'd sub-interval 141.0-144.0 m</i></p> <p>wide, crosscut by subparallel ca + qtz + ser ± ep vein-lets 2-4 mm wide with alb + ep ± ser selvages. Clay + ser + ca filled fault gouge at 141.6 m.</p> <p>Guichon non-mineralized at EOH.</p> <p style="text-align: center;">EOH 145.7 m</p>																				

<b>Diamond Drill Log</b>																Azimuth		Dip			
<b>Project:</b> Getty South Project		<b>Location:</b>		<b>Northing:</b> 5603394		1 = background/fresh		4 = strong		<b>Core:</b> NQ2		Collar		090		-45					
<b>Hole #:</b> 96-25		<b>Date:</b> 11-Aug-96		<b>Easting:</b> 642012		2 = weak		5 = intense													
<b>Logged by:</b> R. Whiteaker		<b>Elevation:</b> 1654.1 m		3 = moderate																	
														<b>Assays</b>							
Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
0.0	25.3	Casing/overburden												47055	25.3	27.0	0.01	-	<.001	5	0.1
														47056	27.0	29.0	0.16	-	<.001	5	0.1
25.3	32.9	Fault breccia FP1. moderate to well healed, with clay + ca + ser + hem filling. Local hem ± qtz ± chl shears at 40-50° and subparallel to C.A. Ca ± qtz ± ser gash veinlets 1-5 mm wide, subparallel and subnormal C.A. irregularly spaced. Slips of clay + ca + hem + ser at 50° C.A. 0% RQD	0.02	0.08	-1	-1	3	3	2	2	3	0	-1	47057	29.0	31.0	0.05	-	<.001	5	0.1
														47058	31.0	33.0	0.05	-	<.001	5	0.1
														47059	33.0	35.0	0.01	-	<.001	5	0.1
														47060	35.0	37.0	0.01	-	<.001	5	0.1
														47061	37.0	39.0	0.01	-	<.001	5	0.1
														47062	39.0	41.0	0.01	-	<.001	5	0.1
														47063	41.0	43.0	0.01	-	<.001	5	0.1
														47064	43.0	45.0	0.02	-	<.001	5	0.1
														47065	45.0	47.0	0.01	-	<.001	5	0.1
														47066	47.0	49.0	0.01	-	<.001	5	0.1
														47067	49.0	51.0	0.01	-	<.001	5	0.1
														47068	51.0	53.0	0.01	-	<.001	5	0.1
														47069	53.0	55.0	0.01	-	<.001	5	0.1
32.9	205.8	Crowded Hbl-Bio-Fsp Porphyry (FP1). Pink orange groundmass with chalk white to black green plag phenos depending on alteration intensity (moderate to intense). Plag altered to ser ± ca. Mafics altered to ser + ca ± clay ± cpy ± py. Mineralization greatest in zones of intense alteration and fracturing abundant (where FP1 is bleach-like pale green/white albitized in selvages of ca + ep ± ser ± hem ± qtz veinlets 3 mm-1 cm wide, 25 & 45° C.A.) Fracture sets 8-12 per metre at 30, 45-50° & subparallel C.A. with ser + ca ± clay ± cpy ± py ± hem filling. FP1 wallrock adjacent to fracture sets is commonly strongly altered to a cpy + py + hem f filling. FP1 wallrock adjacent to fracture sets is commonly strongly altered to a "selvage" of alb + ser ± ep ± cpy ± py. Ep ± ca ± ser veinlets (<1 mm wide) with alb selvages (up to 1 cm wide) at 60° C.A. common. Weakly magnetic. Albitization increases to 182.0 m then pervasive alteration and mineralization decreases to EOH.												47070	55.0	57.0	0.01	-	<.001	5	0.1
														47071	57.0	59.0	0.01	-	<.001	5	0.1
														47072	59.0	61.0	0.05	-	<.001	5	0.1
														47073	61.0	63.0	0.02	-	<.001	5	0.1
														47074	63.0	65.0	0.02	-	<.001	5	0.1
														47075	65.0	67.0	0.04	-	0.001	5	0.1
														47076	67.0	69.0	0.09	-	0.001	5	0.1
														47077	69.0	71.0	0.02	-	0.001	5	0.1
														47078	71.0	73.0	0.02	-	0.001	5	0.1
														47079	73.0	75.0	0.03	-	0.001	5	0.1
														47080	75.0	77.0	0.01	-	0.001	5	0.1
														47081	77.0	79.0	0.01	-	0.001	5	0.1
														47082	79.0	81.0	0.01	-	0.001	5	0.1
														47083	81.0	83.0	0.03	-	0.001	5	0.1
														47084	83.0	85.0	0.03	-	0.001	5	0.1
														47085	85.0	87.0	0.01	-	0.001	5	0.2
														47086	87.0	89.0	0.02	-	0.001	5	0.2
														47087	89.0	91.0	0.1	-	0.001	5	0.2
														47088	91.0	93.0	0.07	-	0.001	5	0.2
														47089	93.0	95.0	0.01	-	0.001	5	0.2
														47090	95.0	97.0	0.04	-	0.001	5	0.2
														47091	97.0	99.0	0.01	-	0.001	5	0.2



Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
		<b>cont'd sub-interval 46.4 m</b>												47092	99.0	101.0	0.02	-	0.001	5	0.2
		py ± cpy at 50-60° C.A. are commonly silicified. Where alteration and gouge fill appear argillic (crusty bleach-white ca + qtz + clay + py ± ser) and in fractures at 50° C.A. with similar fill. Mineralization extends 5-8 cm into wallrock or py ± cpy replacing mafics.												47093	101.0	103.0	0.01	-	0.001	5	0.2
														47094	103.0	105.0	0.01	-	0.001	5	0.2
														47095	105.0	107.0	0.01	-	<.001	5	0.1
														47096	107.0	109.0	0.02	-	<.001	5	0.1
														47097	109.0	111.0	0.02	-	<.001	5	0.1
		<b>63.2-63.4 m:</b> Bio-Hbl-Fsp porphyritic dykelet. Light grey colour. Non-magnetic. Non-mineralized internally or at contact with FP1.												47098	111.0	113.0	0.01	-	<.001	5	0.1
														47099	113.0	115.0	0.01	-	<.001	5	0.1
														47100	115.0	117.0	0.02	-	<.001	5	0.1
		<b>65.0-75.0 m:</b> Stronger overall alteration of FP1. Sericitization of fsp appears light pale green to waxy dark green with associated py ± cpy in mafics (0.02-0.05%). Vuggy ep + ca ± qtz ± ser veins 3-8 mm wide at 55° C.A. contain coarse disseminated cpy blebs (1-3 mm in diam). Trace hem in fractures and vein envelopes with ser. Fracture sets subnormal and 50-60° C.A. with ser + clay + ca ± lim fill.												47101	117.0	119.0	0.14	-	<.001	5	0.1
														47102	119.0	121.0	0.01	-	<.001	5	0.1
														47103	121.0	123.0	0.02	-	<.001	5	0.1
														47104	123.0	125.0	0.01	-	<.001	5	0.1
														47105	125.0	127.0	0.02	-	0.001	5	0.1
														47106	127.0	129.0	0.02	-	0.001	5	0.1
														47107	129.0	131.0	0.01	-	0.001	5	0.1
														47108	131.0	133.0	0.01	-	0.001	5	0.1
		<b>79.6 m:</b> Black-steel grey clay ± ser ± ca slip at 60° C.A. with disseminated py. Sericitized selvage on either side 10-15 cm wide contains py.												47109	133.0	135.0	0.01	-	0.001	5	0.1
														47110	135.0	137.0	0.01	-	0.001	5	0.1
														47111	137.0	139.0	0.02	-	0.001	5	0.1
		<b>83.0-92.5 m:</b> Well fractured/broken FP1 with trace (0.01-0.5%) cpy/py on fracture surfaces and lesser amounts replacing mafics in wallrock. Strong ser + ca ± alb alteration. Feldspars commonly take on a gel-green colour (ser ± ca). Locally fault brecciated (clay + ser + qtz ± hem cement), poorly healed. Slips at 55° C.A. Ep clots associated with qtz + ser ± ca veinlets containing trace cpy ± py.												47112	139.0	141.0	0.44	-	0.001	5	0.1
														47113	141.0	143.0	0.01	-	0.001	5	0.1
														47114	143.0	145.0	0.01	-	0.001	5	0.1
														47115	145.0	147.0	0.02	-	<.001	5	0.1
														47116	147.0	149.0	0.02	-	<.001	5	0.1
														47117	149.0	151.0	0.02	-	<.001	5	0.1
														47118	151.0	153.0	0.07	-	<.001	5	0.1
														47119	153.0	155.0	0.02	-	<.001	5	0.1
		<b>98.6-100.0 m:</b> Bio-Hbl-Fsp Porphyritic dykelet. Light grey-brown grey. Weakly magnetic. Non-mineralized. Plag phenos altered to ser + ca ± ep. Submill ca stringer veinlets at 30° C.A. Fracture sets at 25° and 50° C.A. contain trace cpy along with ser + clay ± lim fill, 5-8 per metre.												47120	155.0	157.0	0.02	-	<.001	5	0.1
														47121	157.0	159.0	0.02	-	<.001	5	0.1
														47122	159.0	161.0	0.05	-	<.001	5	0.1
														47123	161.0	163.0	0.03	-	<.001	5	0.1
														47124	163.0	165.0	0.02	-	<.001	5	0.1
														47125	165.0	167.0	0.03	-	<.001	5	0.1
		<b>100.0-101.2 m:</b> FP1 contact zone with above mentioned Bio-Hbl-Fsp porphyritic dykelet is bleached to a peach-white. Several slips at 60-70° and subparallel to C.A. are also gouge with a black, sooty clay ± ca ± ser ± cpy/py (fine disseminated) fill/cement. 1-2 cm veins of ca ± ser ± qtz ± cpy occupy gouge near wallrock. Directly adjacent to slips and fractures cpy ± py replaces up to 30% of mafics in FP1 (up to 8 cm into wallrock).												47126	167.0	169.0	0.04	-	<.001	5	0.1
														47127	169.0	171.0	0.02	-	<.001	5	0.1
														47128	171.0	173.0	0.18	-	<.001	5	0.1
														47129	173.0	175.0	0.06	-	<.001	5	0.1
														47130	175.0	177.0	0.03	-	<.001	5	0.1
														47131	177.0	179.0	0.45	-	<.001	5	0.1
														47132	179.0	181.0	0.04	-	<.001	5	0.1
														47133	181.0	183.0	0.01	-	<.001	5	0.1
														47134	183.0	185.0	0.01	-	<.001	5	0.1
		<b>103.8-111.0 m:</b> Pervasive albitization (bleach white/peach) of FP1 (ie. alb + ser + ca ± ep altered). Greater												47135	185.0	187.0	0.05	-	<.001	5	0.1
														47136	187.0	189.0	0.03	-	<.001	5	0.1

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
From	To														From	To					
		<i>cont'd sub-interval 103.8-111.0 m</i>																			
		abundance of ser + a ± qtz ± ep ± hem ± cpy with ser ± ep envelopes at 50 & 70° C.A. Fracture sets at 45° C.A. contain coarse "sheets" of disseminated cpy along with ser + clay + ca ± qtz. Note near 110.0 m a high density of qtz + ep + py ± ser ± alb veinlets in a aplitic (flood) zone. Trace cpy in envelopes. 60° C.A.																			
		111.0-133.0 m: Overall less fracturing, pervasive alteration and mineralization of FP1. Albitization (alb + ep + ser + ca) is variable and local. Mineralization occurs in selvages of wallrock (cpy ± py replacing mafics) outwards from ser + ca ± qtz ± hem fracture sets and veinlets (both at 60° C.A.). Local aplitic clots 2-3 cm wide and commonly continuous over 6-8 cm in length.																			
		138.9-141.0 m: Fault breccia, poorly healed with a light grey-green clay + ca + ser + qtz ± hem cement. Abundant disseminated py + cpy (0.5-1%)(remobilized?). Slips at 45-50° C.A. Coarsely disseminated cpy (>py) at silicification/sericitization. Lower contact with FP1 and within qtz + ser + ca veins that appear to follow fracture sets (55° C.A.) and are interstitial to brecciated fragments.																			
		150.5-151.0 m: High concentration of py + qtz ± ser veinlets (1-2mm wide) with py ± cpy mafics replacement in sericitization wallrock selvage up to 3 cm wide.																			
		158.5-173.0 m: Zone of intensely altered FP1. Dark grey-green to an orange-white/pale green (sericitization and albitization respectively). General preferential (crosscutting?) albitic alteration. "Flooding" and non-mineralized alb + ep ± qtz veins (subparallel and 50° C.A., 2-5 cm wide). Local strong fracturing with clay + ser + ca ± hem gouge & slips at 60° C.A. Disseminated py >>cpy on fracts and in ep + ser + ca ± qtz veins at 60° C.A. and as mafic replacement (0.03%) NCu as fine flecks on fracture surfaces - concentration near 170.0 m, discontinuation of sub-interval.																			
		177.6-178.7 m: Light grey green fault breccia with ser + clay ± ca ± hem cement with interclastic trace cpy (rebrecciation?). Ser + clay slips at 55° C.A. Overall poorly healed. Upper and lower "contacts" of fault breccia with FP1 are strong to intensely altered. (ser + alb ± ca) with cpy ± py replacing mafics in selvage and veinlets.																			
		185.0-185.4 m: Intense sericitization of FP1. Dark waxy green fsp and groundmass. Ca + qtz + ep ±																			
														47137	189.0	191.0	0.01	-	<.001	5	0.1
														47138	191.0	193.0	0.03	-	<.001	5	0.1
														47139	193.0	195.0	0.02	-	<.001	5	0.1
														47140	195.0	197.0	0.01	-	<.001	5	0.1
														47141	197.0	199.0	0.02	-	<.001	5	0.1
														47142	199.0	201.0	0.02	-	<.001	5	0.1
														47143	201.0	203.0	0.01	-	<.001	5	0.1
														47144	203.0	205.0	0.02	-	<.001	5	0.1
														47145	205.0	206.7	0.02	-	<.001	5	0.1
														<b>*25201 201.0 211.0</b>		<b>0.02</b>	<b>-</b>		<b>5</b>		
														<b>*sludge for this interval</b>							
														<b>end of assay information</b>							

Depth (m)		Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)		
From	To														From	To							
		<p><b>cont'd sub-interval 185.0-185.4 m</b></p> <p>cpy veins (1 mm-2 cm wide) at 55° C.A. Often vuggy with ser + spec ± hem envelopes. Cpy in veins as coarse blebs (~ 2 cm in diam.) to 0.02%</p> <p><b>191.0-194.4 m:</b> Up to 1% cpy replacing mafics of alb + ser ± hem stained selvages to ep + Qtz ± Ca ± ser ± cpy (coarse blebs) veinlets at 20 &amp; 50° C.A. (&lt;1 mm-3 mm wide)</p> <p><b>198.8-199.7 m:</b> Bio-Hbl-Fsp porphyritic dyke. Grey to bleached grey green where strongly altered. Overall alteration is weak to moderate (ser ± Ca ± clay ± hem). Lower contact with FP1 at 50° C.A. Ca ± hem ± ep stringer veinlets (&lt;1 mm wide) at 20° C.A.</p>																					
EOH	206.7																						

cont'd core logging

**Diamond Drill Log**

<b>Project:</b>	Getty North	<b>Location:</b>	-1 = absent			<b>Azm</b>	<b>Dip</b>
<b>Hole #:</b>	96-26	<b>Northing:</b>	5603273	1 = background/fresh	4 = strong	<b>Collar</b>	090
<b>Date:</b>	18-Aug-96	<b>Easting:</b>	641756	2 = weak	5 = intense		-45
<b>Logged by:</b>	R. Whiteaker	<b>Elevation:</b>	1673.3 m	3 = moderate			
<b>Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.</b>							

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Assays							
From	To													Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
0	6.1	Casing/overburden												47146	6.1	8.0	0.01	-	<.001		0.1
														47147	8.0	10.0	0.02	-	<.001		0.1
6.1	82.4	Bio-Hbl-Qtz Diorite-Monzodiorite (Guichon variety) Weakly equigranular and weak to moderately magnetic Variable alteration, but generally increasing in intensity down section (pervasive, stockwork controlled) Feld- spars weakly to strongly altered to ser ± alb ± ca Mafics weak to moderately altered to ser + ca ± clay ± hem (after mag inclusions) Grey-pink-white mottled where fresh and becoming bleach-white-green to dark orange-grey where alteration intensifies Fracture sets 8-12 per metre at 55-60 & 30-35° C.A. and subparallel to C.A. with clay + ca ± ser ± lim/hem (locally strong) Ser + qtz ± ca ± ep ± cpy vein/veinlets (<1 mm - 1.5 cm wide) at 50-60°, sub-normal C.A., 4-6 per metre commonly have an alb + ser ± Fe-stain env- elope and selvage up to 3 cm wide. Frequency of sub- mill ca veinlets increase down section to a criss cross network in strongly altered Guichon. Note: ep + qtz veins larger than ser + qtz ± ca ± cpy veinlets. Where well broken/fractured trace mal occurs on fract- ure surfaces and within vuggy veins of qtz + ser ± lim ± cpy and trace NCu flecks. Locally cpy replaces bio in selvages adjacent to veinlets with cpy + strong lim. Local clay + ser ± ca ± hem gouge with waxy slips (same mineral) at 30 & 60° C.A. <b>13.2-19.2 m:</b> Well broken Guichon (possible fault) with light to dark grey-green clay + ser ± ca ± lim gouge locally. Strongly lim ± hem fractures and ser + qtz ± ca veinlets containing trace mal. <b>24.0-51.0 m:</b> Increase in alb + ser + Fe-stain alter- ation of Guichon giving rock a mottled ghost-like pink- grey to white-grey colour. Clay + ser ± ca gouge and fracture surfaces become more hematitic (brown-red). Sub-mill ca ± ser ± ep ± cpy veinlets and 1 mm-2 cm wide ep + qtz ± ser ± cpy veins at 45° C.A. intensity in abundance. Cpy ± bo occurs as fine disseminated bio replacing and as sparsely beaded veinlet fill (0.03-0.1 over sub-interval) where strong concentration of ep + qtz ± ca veins and ep rich selvages (discontinuous through sub-interval). Moderate to strong fracturing with local ser + clay ± ca ± hem gouge. Slips subpara- llel.																			
			0.01	0.05	-1	-1	-1	2	2	-1	2	3	-1	47148	10.0	12.0	0.01	-	<.001		0.1
														47149	12.0	14.0	0.01	-	<.001		0.1
														47150	14.0	16.0	0.04	-	<.001		0.1
														47151	16.0	18.0	0.02	-	<.001		0.1
														47152	18.0	20.0	0.08	-	<.001		0.1
														47153	20.0	22.0	0.02	-	<.001		0.1
														47154	22.0	24.0	0.02	-	<.001		0.1
														47155	24.0	26.0	0.01	-	<.001		0.1
														47156	26.0	28.0	0.01	-	<.001		0.1
														47157	28.0	30.0	0.01	-	<.001		0.1
														47158	30.0	32.0	0.02	-	<.001		0.1
														47159	32.0	34.0	0.02	-	<.001		0.1
														47160	34.0	36.0	0.01	-	<.001		0.1
														47161	36.0	38.0	0.02	-	<.001		0.1
														47162	38.0	40.0	0.02	-	<.001		0.1
														47163	40.0	42.0	0.01	-	<.001		0.1
														47164	42.0	44.0	0.01	-	<.001		0.1
														47165	44.0	46.0	0.04	-	<.001		0.1
														47166	46.0	48.0	0.02	-	<i>only Cu assays from here</i>		
														47167	48.0	50.0	0.04	-			
														47168	50.0	52.0	0.03	-			
														47169	52.0	54.0	0.01	-			
														47170	54.0	56.0	0.01	-			
														47171	56.0	58.0	0.02	-			
														47172	58.0	60.0	0.26	-			
														47173	60.0	62.0	0.03	-			
														47174	62.0	64.0	0.06	-			
														47175	64.0	66.0	0.03	-			
														47176	66.0	68.0	0.03	-			
														47177	68.0	70.0	0.05	-			
														47178	70.0	72.0	0.03	-			
														47179	72.0	74.0	0.02	-			
														47180	74.0	76.0	0.01	-			
														47181	76.0	78.0	0.01	-			
														47182	78.0	80.0	0.01	-			
														47183	80.0	82.0	0.02	-			
														47184	82.0	84.0	0.02	-			
														47185	84.0	86.0	0.04	-			
														47186	86.0	88.0	0.03	-			
														47187	88.0	90.0	0.04	-			
														47188	90.0	92.0	0.1	-			

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
		<p><b>51.0-53.5 m:</b> Fault breccia (rebrecciation?). Poorly healed with light grey-green to reddish clay + ser + ca ± hem cement/gouge. Clay + ser ± hem slips at 45° C.A. Rebrecciated (?) qtz ± ep ± ca ± hem ± cpy (&lt;0.02%) veins sheared at 40-50° C.A.</p> <p><b>53.5-66.5 m:</b> zone of weak pervasive brecciation, moderate to strong alteration and local qtz + ep ± ca fracture fill (flooding?). Pale pink-grey to dark grey-green Guichon (ser + ca ± hem ± alb ± clay altered) appears foliated and "twisted" with thin, sub-mm to 5 mm fracture fill/veins of ca + hem ± ser ± ep ± qtz at 30, 60° and subparallel to C.a. Moderate to strongly fractured, 10-15 per metre, subparallel and 60-65° C.A. with clay + ser ± chl ± ca ± lim/hem fill. Strongly broken/crushed between 58.5-58.5 m (fault) with dusty grey clay + ser + ca gouge locally and cpy with crumbled ep + qtz fragments.</p> <p>Local qtz + ep + ca ± ser veins/interclastic breccia fill (?), 1-2.5 cm wide at 45-50° C.A. locally contain cpy blebs (up to 2 x 5 mm in dimension). Towards end of sub-interval, areas of qtz + ep + ca veining increasing become associated with zones of aplitic rock (possibly brecciated). Local, subrounded, irregularly shaped, mafic clots (bio + hbl + qtz), 2-10 cm in diam, throughout subinterval; weakly to strongly altered (ser + clay + ca ± mag (oxidized to hem)), commonly with a foliated/ "rolled" texture with wallrock (possibly xenolith or differentiation product?).</p> <p><b>66.5-69.5 m:</b> Fault breccia with poorly healed muddy grey-green clay + ser ± ca gouge/cement between well broken and ground up Guichon clasts. Clay ± ca gouge-slips at 50-60° C.A.</p> <p><b>69.5-82.4 m:</b> Volume of mafics (hbl, bio) in Guichon shows significant increase (volume of feldspars, qtz decreases). Moderate to strongly magnetic. Qtz ± plagioclase poikilitic bio 3-6 mm in diam. Mag is weakly altered to alb ± ser in selvages of ep + qtz ± ca ± py veins (2 mm - 2 cm wide) at 60-70° C.A. Local non-mineralized aplitic dykelets/veins 6 mm-2 cm wide at 50-60° C.A.</p> <p>Separate 1-2 cm wide ep + qtz + ca ± ser veins with wide chilled qtz ± ep ± ca selvages (to 3 cm wide) at 55° C.A. contain abundant py (1-5%) locally. Orange/bleach white aplitic feldspar porphyry dyke between 79.9-80.1 m; select mafics replaced by py ± cpy. Guichon variety albitized at contact (60° C.A.)</p>	47189	92.0	94.0	0.09	-	only Cu assays													
			47190	94.0	96.0	0.02	-														
			47191	96.0	98.0	0.02	-														
			47192	98.0	100.0	0.02	-														
			47193	100.0	102.0	0.02	-														
			47194	102.0	104.0	0.03	-														
			47195	104.0	106.0	0.03	-														
			47196	106.0	108.0	0.12	-														
			47197	108.0	110.0	0.26	-														
			47198	110.0	112.0	0.01	-														
			47199	112.0	114.0	0.02	-														
			47200	114.0	116.0	0.01	-														
			63401	116.0	118.0	0.03	-														
			63402	118.0	120.0	0.03	-														
			63403	120.0	122.0	0.02	-														
			63404	122.0	124.0	0.03	-														
			63405	124.0	126.0	0.04	-														
			63406	126.0	128.0	0.01	-														
			63407	128.0	130.0	0.01	-														
			63408	130.0	132.0	0.03	-														
			63409	132.0	134.0	0.3	-														
			63410	134.0	136.0	0.04	-														
			63411	136.0	138.0	0.02	-														
			63412	138.0	140.0	0.02	-														
			63413	140.0	142.0	0.01	-														
			63414	142.0	144.0	0.01	-														
			63415	144.0	146.0	0.01	-														
			63416	146.0	148.0	0.02	-														
			63417	148.0	150.0	0.8	-														
			63418	150.0	152.0	0.01	-														
			63419	152.0	154.0	0.03	-														
			63420	154.0	156.0	0.04	-														
			63421	156.0	158.0	0.04	-														
			63422	158.0	160.0	0.02	-														
			63423	160.0	162.0	0.01	-														
			63424	162.0	164.0	0.02	-														
			63425	164.0	166.0	0.03	-														
			63426	166.0	168.0	0.02	-														
			63427	168.0	170.0	0.02	-														
			63428	170.0	172.0	0.01	-														
		63429	172.0	174.0	0.01	-															
		63430	174.0	176.0	0.01	-															
		63431	176.0	178.0	0.01	-															
		63432	178.0	180.0	0.01	-															
		63433	180.0	182.0	0.01	-															
		63434	182.0	184.0	0.01	-															
		63435	184.0	186.0	0.02	-															
		63436	186.0	188.0	0.01	-															
		63437	188.0	190.0	0.01	-															
		63438	190.0	192.0	0.01	-															
		63439	192.0	194.0	0.01	-															

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)						
From	To														From	To											
82.4	199.9	Crowded Bio-Hbl-Feldspar Porphyry (FP1/granophytic porphyry?) Moderately magnetic Mottled light pink-cream to light to dark grey, pale ghost-bleach pink/white to dark green where alteration is strongest. Variable alteration throughout (overall, moderate to strong alteration) Feldspars weakly altered to ser ± clay ± alb ± ca, mafics weak to moderately altered to ser ± ca ± chl ± clay ± py>cpy. Abundant thin slender hbl throughout characteristic Bio commonly mag poikilitic (altered product?). Rounded mafic clots (bio + hbl + qtz ± ca) to 2 cm in diam. common locally down section toward EOH. Fracture sets 50-60, 45° and subparallel to C.A., 5-10 per metre with ser + ca ± clay ± chl ± py ± cpy (py>cpy) ± ep. Qtz + ca + ep ± ser ± py>cpy ± hem veins, < 1 mm to 1 cm wide at 60-70° and 30-35° C.A. Py ± cpy mineralized (select mafic replacement) aplitic Bio-Hbl-Feldspar porphyritic (weakly) dykelets, 4 mm-6 cm wide cross cut at 65-75° C.A. Mild variations in mafic to qtz-feldspar ratios and local occurrence of aplitic/porphyritic dykelets/dykes suggests possible late differentiation. Note: ep + ca + ser ± cpy ± py veinlets down section increasingly have wider (1-2 cm) alb + ser ± py envelopes/selvages giving FP1 a ~ pervasive bleached/light green colour where veinlet frequency is intense (>10 per metre). <b>82.4-89.5 m:</b> Zone of strong pervasive alteration (ser + alb ± qtz ± ep ± ca ± py>cpy). Mottled pale green to peach-grey. Possible chill zone to upper Guichon? Greater intensity of ep + qtz ± ca ± ser ± cpy>py veins (10-20 per metre). Note: cpy>py most common, isolated as beads/blebs in veins/selvages; py>cpy greatest and pervasive mafic replacement. <b>90.5-94.0 m:</b> Fault – well broken/crushed rock. Local, minor fault brecciation with light grey clay + ca ± ser cement (poorly heated.) Hematic clay slips at sub-normal C.A. Upper and lower "contacts" (20-30 cm wide) appear chilled dark green black (qtz + ser ± ep altered) and are strongly mineralized with cpy ± py mafics replacement/vein fill (1-3% cpy). <b>99.0 m:</b> Chalky bleached white/aqua green clay + ca + ser ± qtz shear at 55° C.A. contains 1-3% finely disseminated py. <b>100.5-101.5 m:</b> Zone bleach-white to very pale green intense alteration (qtz + ca + clay ± alb ± ep assemblage) of FP1 unit. Remnant ragged mafics altered to ser + ep ± ca. None to trace py mafic replacement. <b>108.5-109.3 m:</b> Intensely sericitized FP1 (ser + ca ± ep ± chl ± clay) to a deep green-grey. Cpy>py replacement mafics/vein fill to 2%. Ser + qtz ± ca ± cpy	0.5	0.1	-1	-1	3	2	2	2	2	24	-1	63440	194.0	196.0	0.01	-	only Cu assays								
														63441	196.0	198.0	0.01	-									
														63442	198.0	199.9	0.01	-									
end of assay information																											

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
From	To														From	To						
		<p><b>cont'd subinterval 108.5 to 109.3 m</b> (coarsely beaded) 2-4 mm wide veinlets and clay + ser + ca ± chl gouge/slips at 40-45° C.A.</p> <p><b>117.0-122.8 m: Fault zone:</b> strongly broken/ crumbled FP1 and local aplitic qtz-rich dykelets (trace cpy replacing select mafics.) Local chalky-grey clay + ser + ca ± hem gouge with slips at subnormal C.A.</p> <p><b>125.6-125.9 m:</b> Concentration of ser + qtz ± ca ± py&gt;&gt;cpy veins (2-5 mm wide) with clay + ser + ca gouge/slips at 55° C.A. along vein fronts/envelopes.</p> <p><b>132.3-135.8 m:</b> Zone of strong K-spar enriched FP1 to a bright pink-orange. Local apite dykelets 10-15 cm wide at 55-70° C.A. contain sparse py along walls of FP1. Dark local blue-black chilled upper contact (?)/altered selvage zone. Local 10-15 cm intervals of qtz + ser + py&gt;&gt;cpy veins (sub-normal C.A.) in strongly aplitic FP1 unit. Moderate to well broken with clay + ca ± spec (oxidized to purple hem) gouge; slips at 55° C.A.</p> <p><b>139.5-152.5 m:</b> Locally occurring zone s of aplitic-K-spar rich feldspar porphyry dykes/dykelets (20-50 cm wide with irregular contacts/C.A.) and apite dykelets (2-5 cm wide at 50-60° C.A., sparsely populated with blebs of cpy (&lt;3 cm in diam). Commonly, apite dykelets/veins (?) certain solid qtz cores to 1.5 cm in width.</p> <p><b>148.0-148.4 m: Fault breccia,</b> poorly healed with green grey clay + ser + ca cement/fault gouge between intensely sericitized clasts of FP1 and detrital cpy. Ser + clay + ca ± hem slips at 45° C.A. Directly adjacent to fault breccia is a 5 cm wide qtz ± ca ± hem ± ser vein with coarse purple tarnished cpy (up to 10% of vein); ser + ca ± clay + hem hear at 90° C.A. to intensely sericitized FP1 wallrock.</p> <p><b>155.6-156.0 m:</b> Intense network of ca + ser ± py&gt; cpy veinlets (4 mm-1 cm wide). Strong pervasive sericitization and preferential albitization of FP1 wallrock.</p> <p><b>157.0-159.0 m:</b> Strongly fractured/broken FP1 (possible fault). Local, weakly gouge clay + ser + ca ± chl ± lim slips at sub-normal C.A.</p> <p><b>164.6 m:</b> 5 cm wide apite dykelet with ep + ca + ser ± cpy&gt;py veinlets at 40° C.A. in strongly albitized wallrock (3 cm wide).</p> <p><b>167.2-171.5 m:</b> Textural variation in FP1. Greater abundance of &lt;2 mm long, green hbl needles. Greater qtz to feldspar ratio and relatively fresh (weak to moderate alteration: ser ± alb ± ca ± chl). Weakly porphyritic. Light grey to pale grey/green (&lt;pink K-spar in rock). Moderately magnetic (&gt;FP1). Slightly finer grained. Same fracturing, vein and style as FP1 unit. Similar mineralization character: sparsely disseminated cpy +</p>																				

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
From	To														From	To						
		<p><b>cont'd subinterval 167.2 to 171.5 m</b></p> <p>py in short zoned of concentrated ep + qtz + ca ± ser veinlets at 45° and subparallel to C.A. with albitized/sericitized wallrock selvage 5 mm -1 cm wide. Locally py ± cpy as trace coatings on 60° C.A. fracture sets and into wallrock where strongly altered to darker blue/gel-grey. (ser ± chl ± ca ± py ± cpy) (Bethlehem phase? or differentiation/hybrid phase of FP1 unit?)</p> <p><b>171.5-176.2 m:</b> Overall increase in K-spar present in Fp1 gibing unit a dusty pink/cream colour. Feldspars strongly sericitized and locally albitized in selvages adjacent to ser + chl + ca ± clay slips/fracture fill. Locally sections have experienced increased introduction of K-spar (pervasive flooding of aplitic dykelets related?) giving the rock a strong pink-orange colour with black/green phenocrysts and lime-green feldspars sprinkled throughout matrix.</p> <p><b>176.2-178.5 m:</b> Dark grey Hbl-Bio-Feldspar porphyry (weakly porphyritic.) Strongly magnetic. Abundant finely disseminated magnetic. Weakly altered (ser ± ca ± chl) &gt; Differentiation phase of FP1-Bethlehem? Poorly mineralized (none to trace py). Upper and lower contacts with FP1 contain a 10-15 cm side zone of black bio + qtz bands 2-5 cm wide (bio non to weakly altered to ser ± ca) at ~ 40° C.A. Bio-qtz bands alternate w/ strongly albitized FP1 up to xxxxx. Fractures where the bio + qtz band is very thick (8 cm) and shows moderate alteration.</p> <p><b>178.5-181.2 m:</b> Strong to intense K-spar introduction to FP1 (aplitic control?). Overall, pink-orange with minor ghosted mafics and feldspars evident in texture. Local bleach/pale white-yellow albitization associated with fractures at 70° C.A. containing ser ± chl ± ca ± py&gt;cpy. At 180.7-181.1 m chilled with qtz + ep ± ser to dark blue/black. Concentrations of ep + qtz ± ser veinlets (&lt;2 mm wide) with py ± cpy as fine disseminations &amp; in mafics within selvage (trace total). Lower contact at 181.8 m marked by a clay + ser ± chl ± ca slip at 60° C.A.; FP1 intensely sericitized up to 20 cm down section from contact.</p> <p><b>181.4-194.1 m:</b> FP1 shows overall decrease in alteration: weak ± moderate localized strong sericitization in selvages of ca + ser ± lim veinlets/fracture fill at 30-35° C.A. and localized albitization where strong concentration of qtz + ep + ser ± ca ± py&gt;cpy veinlets (&lt;1-3 mm wide), 15/20 cm width, 50° &amp; sub-normal C.A.)</p> <p><b>184.5 m:</b> strongly pyritic, sotty-grey clay + ca ± ser slip at 65° C.A. within a short (&lt;10 cm) interval of ep + qtz + ser ± ca ± py&gt;cpy veinlets at 50-60° C.A. to subnormal C.A.; py ± cpy replacing mafics in albitized selvages. Mineralization decreases down section and is restrict-</p>																				



Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
From	To														From	To						
		<p><b>cont'd subinterval 181.4 to 194.1 m</b></p> <p>ed to rare veins and select mafics in selvages (not pervasive)</p> <p><b>194.1-195.9 m:</b> Strong to locally intense alteration (ser + ca + chl ± ep ± clay). Mottled ghost-like grey-green to orange-grey. Wide selvages (5 mm-3 cm) of Fe-stained and strongly sericitized feldspars to ca + ser ± hem veinlets &lt;1-2 mm wide, 10-15 per metre at 40-50° C.A. Py ± cpy occur as finely disseminated mafic replacement and finely beaded ca + ser + qtz + hem vein fill in last 20 cm of sub-interval where FP is intensely sericitized to a deep gel-green -- possibly 1-3 % py ± cpy over 20 cm width to lower "contact" (at 60° C.A.) with fault breccia/shear zone.</p> <p><b>195.9-199.9 m:</b> Zone of strongly broken/fractured fault brecciated and locally sheared FP1. Upper "contact" contains a clay + ser ± hem ± ca slip/gouge at 60° C.A. with sparsely py + ep. Overall, FP1 is strong to intensely sericitized (ser + ca + chl ± clay ± ep) Local fault breccia zones (0.5-1 m width) are moderate to well healed with clay + ca + ser ± hem cement/gouge &amp; comminuted wallrock; commonly qtz + ca + ser ± ep veins/fracture fill (?) throughout fault breccia contain py disseminations (pre-breccia?). Local shearing at 35-40° and 65-80° C.A. has produced a light grey-green clay + ser + ca + chl rich pervasive series of slips and gouge with abundant finely disseminated py&gt;&gt;&gt;cpy throughout. Shearing has given fault breccia a foliated/"twisted" texture. Local aplitic dykelets (5-20 cm wide) are qtz + ep rich and contain sparsely disseminated py ± cpy ± spec (oxidized to hem); subnormal core axis angles.</p> <p style="text-align: center;"><b>EOH 199.9 m</b></p>																				

Diamond Drill Log													Azimuth		Dip			
Project: Getty North Property		Northing: 5602990		-1 = absent		Core: NQ2		Azimuth		Dip								
Hole #: 96-27		Easting: 642200		1 = background/fresh				Collar		090		45						
Date: 25-Aug-96		Elevation: 1680 m		2 = weak		4 = strong												
Logged by: R. Whiteaker				3 = moderate		5 = intense												
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																		
Assays																		
Depth (m)		Description	%Py	%Cpy	%Bo/Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
0.0	9.7	Casing/overburden												63443	9.7	11.6	0.04	-
9.7	105.0	Bio-Hbl-Qtz Diorite-Monzodiorite (Guichon variety) Light grey/white and speckled pink-black to dark grey mottled orange-green (where altered strongest.) Weakly equigranular, moderately magnetic. Overall alteration is weak to moderate with localized strong alteration -- feldspars altered to ser ± ca, mafics altered to ser + ca ± chl ± clay ± ep ± hem (after mag inclusions.) Mafics commonly replaced by cpy ± bo in direct selvage of strong ep + qtz + ser ± ca ± cpy ± bo ± py veins and less commonly in zones of intense pervasive ep + ser ± ca ± alb alteration (dark grey to green mottled texture). Well broken throughout with local to wide sub-intervals of strong fracturing, faulting and fault breccia. Overall weakly limonitic. Local ser + clay ± ca slips at 30-40° and 80-70° C.A. Fracture sets 10-15 per metre (where more competent/non-brecciated) at 50-65, 40° and subparallel to C.A., clay + ser ± chl ± ca fill. Local ca + ser ± hem veinlets (<1-3 mm wide) at sub-normal and 65° C.A. 9.7-23.0 m: Dark grey-green/pinkish to Guichon (strong to intense sericitization). Cpy ± py ± bo mafic replacement (0.1-1%). Local ser ± ca ± hem ± cpy ± py veinlets (1-3 mm wide) at 20-30° C.A. and ep + qtz + ser ± ca ± cpy > py veins (1-8 mm wide) at 60° C.A. Locally fault gouged/brecciated with brown-grey to green-grey clay + ca ± lim ± hem gouge containing abundant subrounded clasts of Guichon (1-4 mm in diam.) and trace cpy ± bo ± py grains; subparallel slips of clay + ca ± ser ± hem. 23.5-25.0 m: Zone of strong ep + qtz + ser + ca + cpy ± bo ± py ± hem (over ~ 1 cm wide, subparallel to C.A.) Coarse cpy in veins (average 4 mm by 1 cm) with common rim associations. Cpy in selvage of wallrock adjacent to veins is ragged and does not always appear to replace mafics. Weakly brecciated with local ser + clay ± ca slips at 55° C.A. 0.5-1% cpy ± bo for sub-interval. 25.5-43.0 m: Zone of fault brecciation, strong gouge and well broken Guichon. Ca-rich clay + ser ± chl ± hem gouge/cement between poor to moderately heated fault breccia; Slips at 35, 50-60° and subparallel to C.A. Local fine disseminations of cpy mafics replacement (with purple tarnish nm -- bo?) in select Guichon fragment and in moderate to well healed/comminuted cement of fault breccia. Where ca ± ep ± qtz ± ser ± cpy veins have been faulted/gouged, cpy ± bo is disseminated and crumbled within gouge and on slips. Local short intervals of non-brecciated Guichon (<0.5 m wide), moderately to strongly sericitized/albitized with trace cpy ± bo replacement in select mafics near ep + qtz ± ca ± ser veinlets. At 42.8 m: shear at 40° C.A. with grey-blue clay + ser ± ca ± hem gouge/slips; wall rock is moderately fault brecciated with concentrations of ep + ca ± qtz ± ser veins up to 3 cm outward of shear (selvage?)--no visible mineralization. Trace flecks of NCu in mafics near hematitic	0.01	0.03	0.01	-1	1	4	4	2	4	1	-1	63444	11.6	14.6	0.17	-
														63445	14.6	17.7	0.06	-
														63446	17.7	20.7	0.05	-
														63447	20.7	22.5	0.07	-
														63448	22.5	24.0	0.03	-
														63449	24.0	26.0	0.45	-
														63450	26.0	28.0	0.04	-
														63451	28.0	30.0	0.02	-
														63452	30.0	32.0	0.02	-
														63453	32.0	34.0	0.01	-
														63454	34.0	36.0	0.03	-
														63455	36.0	38.0	0.07	-
														63456	38.0	40.0	0.02	-
														63457	40.0	42.0	0.01	-
														63458	42.0	44.0	0.02	-
														63459	44.0	46.0	0.01	-
														63460	46.0	48.0	0.01	-
														63461	48.0	50.0	0.02	-
														63462	50.0	52.0	0.02	-
														63463	52.0	54.0	0.01	-
														63464	54.0	56.0	0.02	-
														63465	56.0	58.0	0.01	-
														63466	58.0	60.0	0.02	-
														63467	60.0	62.0	0.04	-
														63468	62.0	64.0	0.03	-
														63469	64.0	66.0	0.03	-
														63470	66.0	68.0	0.05	-
														63471	68.0	70.0	0.01	-
														63472	70.0	72.0	0.02	-
														63473	72.0	74.0	0.02	-
														63474	74.0	76.0	0.03	-
														63475	76.0	78.0	0.02	-
														63476	78.0	80.0	0.01	-
														63477	80.0	82.0	0.08	-
														63478	82.0	84.0	0.02	-
														63479	84.0	86.0	0.01	-
														63480	86.0	88.0	0.01	-

Depth (m)		Description	%Py	%Cpy	%Bof Cc	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<i>cont'd sub-interval 25.5-43.0 m</i>																
		fracture/slips												63481	88.0	90.0	0.02	-
		44.5-44.7 m: Short zone of clay + ser + hem gouge filled shears (slips at 40-45° C.A.) with strong to intense dark green sericized selvage (mafics altered to ser + ca ± ep ± cpy (trace)) up to 4 cm wide into Guichon wallrock.												63482	90.0	92.0	0.02	-
		46.0-46.7 m: Sheared subparallel C.A. qtz + ca + ser ± ep ± hem vein with pink hematitic selvage (~2 cm wide) containing trace very fine disseminations of spec (?) (commonly with hem/lim nnds/haloes)												63483	92.0	94.0	0.02	-
		52.5-56.0 m: Well broken/crumbled Guichon (faulted?) with local (~ 54.2-55.7 m) poorly healed fault breccia with waxy light grey-green to red-brown ser + clay ± ca ± hem gouge/cement/slips (30, 60° and subparallel to C.A.). Note Guichon intensely altered (ser + ep + ca + spec [oxidized to hem]) dark green where fault breccia is strongest. Local subnormal and 40-45° C.A. ca + qtz veinlets (1-2 mm wide) with ep + ca ± ser envelopes/selvages												63484	94.0	96.0	0.03	-
		57.5-64.7 m: Fault breccia zone. Poorly to moderately well healed with strong ser + ca rich clay gouge/cement throughout/between moderate to intensely sericized Guichon clasts (subrounded, subangular, 1 mm-1 cm average in diam.). Locally sheared at subparallel, 30-40 and 60-65° C.A. with ser + clay ± ca ± hem slips at same orientation. Where Guichon is weakly brecciated (no gouge or slips) the rock is bleached white-pale green and appears foliated and "twisted" with pervasive ser + ca ± hem veinlets at irregular C.A. Note: trace cpy ± py grains finely disseminated throughout clay + ser + ca ± hem fault gouge breccia between 60.3-61.3 m												63485	96.0	98.0	0.02	-
		64.7-71.0 m: Strongly broken/crumbled Guichon (possible fault). Local weak foliation/brecciation (minor local ser + clay + ca gouge and slips at 45° C.A.). At 67.0-67.5 m: strongly broken section of strongly altered Guichon (ser + ca + ep ± chl - dark green) contains loose cpy (bright purple tarnish - bo?) ± py in trace amounts. Guichon becomes more competent/less foliated toward end of sub-interval.												63486	98.0	100.0	0.03	-
		71.0-73.6 m: Fault breccia zone. Poorly healed with clay + ser + ca ± hem cement and abundant gouge; ser + clay ± chl ± ca ± hem slips subparallel and 45° C.A. Fault breccia clast composition: 90% Hbl-Fsp porphyry dyke - dark grey-green, strongly sericized, non-mineralized, < 1 mm-6 cm in sub-angular diam; 10% Guichon - primarily near upper and lower "contacts", moderately altered, < 1 mm-1 cm in diam.												63487	100.0	102.0	0.02	-
		74.4-75.1 m: Thick, strong clay + ser + ca ± hem fault gouge (light green to dark grey) with fine to pebble sized sub-rounded clasts of Guichon wallrock mixed evenly throughout. Ser ± clay ± ca slips at 45° and subparallel C.A. Locally, volume of gouge >> amount of clasts within.												63488	102.0	104.0	0.01	-
		77.0-85.0 m: Guichon increasingly more friable, soft and crumbled (weak pervasive shearing/weathering related?). Moderate alteration (ser + ca ± clay ± chl ± hem; dusty white to light green-pink). Local very soft, pliable clay + ser ± ca ± hem gouge/slips at subparallel and sub-normal C.A. - commonly abundant sub-mm to pebble size clasts of crushed/sheared (?) Guichon. Strong fault brecciation towards end of sub-interval (~ 82.5-85.0 m) with 50-60° and subparallel shear planes (ser + clay + ca ± strong hem). Guichon moderately to strongly milled (milonic?) with increasing												63489	104.0	106.0	0.02	-
		<i>cont'd sub-interval 77.0-85.0 m</i>												<b>end of assay information</b>				

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%MoIy	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<p>volume of ser + clay + ca ± hem matrix/fill.</p> <p><b>81.0-82.3 m:</b> Zone of moderately hematitic clay + ser ± ca ± lim fault gouge with strong distribution of sub-rounded ± sub-angular clasts (&lt;1 mm-2 cm in approximate diam.) of Guichon Qtz Diorite and Hbl-Fsp Porphyry dyke. Strong subparallel shearing gives pebbly gouge and layered/foliated appearance. Guichon clasts primarily intensely sericitized and locally include cpy with lim nids near top of sub-interval. Hbl-Fsp Porphyry clasts moderately altered (ser + ca ± clay ± chl) with no mineralization evident.</p> <p><b>85.0-105.0 m:</b> Zone of strongly to intensely hematitic (dark red-brown to blood-red) fault brecciated and strongly gouged Guichon. Fault breccia weakly to moderately well healed with sandy clay + ser + hem ± ca cement/gouge. Local deep red clay + ser ± ca ± chl fracture sets and shear planes at subparallel to 25° and 40-45° C.A. Guichon strongly milled to sub-mm to 3 cm in diam sub-rounded to rounded clasts. Pervasively weathered/rotted/Fe-oxidized to a crumbled/friable texture. Local short zones (&lt;20 cm wide) of non-brecciated Guichon blocks exhibiting strong ser + chl + ca ± clay altn assemblage. Rare 5 mm-1 cm non-metallic charcoal-black fragments in gouge – possibly paleo-wood from Tertiary faulting? Strong oxidation/weathering/rotting from 103.0 m to end of sub-interval (Tertiary [?] contact.)</p>																
105.0	139.6	<p>Dacitic Qtz-Fsp-Bio-Hbl Lapilli Tuff Breccia (Tertiary?). Generally massive with sub-rounded/subangular 2 mm-2 cm average in diam lapilli distributed locally throughout. Light grey-purple colour, weakly magnetic. Fine grained qtz-fsp groundmass. Finely disseminated mag grains within groundmass/lapilli commonly oxidized to rusty brown-red hem. Generally unaltered. Moderately weathered/rotted with an easily crumbled/friable texture. Hbl needles (&lt; 3 mm in length) display a weakly trachytic/flow-like texture. Bio books and select hbl phenocrysts oxidized/weathered to hem ± lim. Commonly bio is bronze-brown (phlogopite?) and easily flaked. Generally well broken with local fault brecciation (poorly to moderately well healed with hematitic clay + ser gouge/matrix. Fracture sets at 45-60° and subparallel to 30° C.A. contain brown-green waxy ser ± clay ± chl ± lim. Calcite absent except as rare sub-mm veinlets (irregular C.A.) where fault brecciated.</p> <p><b>105.0-105.6 m:</b> Upper contact with Guichon. Strong clay + hem + ser (white) ± ca gouge/slips at 60-65 and 30-35° C.A. (possibly shear related) with slickensides displaying right-lateral movement. Fault brecciated fragments of Tertiary Dacite Tuff 1-2 mm mixed with pliable gouge. Strongly weathered/rotten and locally sandy.</p> <p><b>105.6-106.3 m:</b> Strongly hematitic/limonitic (yellow-brown) gouge enclosing Guichon ± Tertiary Dacitic clasts (sub-rounded, &lt; 1 mm to 3 cm in diam.). Hem + clay + ser slips containing sand-sized Guichon at sub-parallel to 30° C.A. (possible shear).</p> <p style="text-align: center;"><b>EOH 139.6 m</b></p>	-1	-1	-1	-1	-1	2	1	1	2	<1	-1					

Diamond Drill Log														Assays				
Project:		Getty North Project				Northing: 5602990		-1 = absent		Core: NQ2		Azm		Dip				
Hole #:		96-28				Easting: 642200		1 = background/fresh				270		-45				
Date:		29-Aug-96				Elevation: 1680 m		2 = weak										
Logged by:		R. Whiteaker						3 = moderate		4 = strong								
								5 = intense										
Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample	Interval (m)		%Cu	%Cu
From	To													Number	From	To	Total	Non Sulf
0	7.3	Casing/overburden												63490	7.3	8.5	0.01	-
														63491	8.5	10.0	0.02	-
7.3	73.5	Bio-Hbl-Qtz Dionte Monzodonte (Guichon variety) Medium grained, weakly equi-granular (to weakly porphyntic down section) and moderately magnetic. Light grey, speckled black & pink. Abundant finely disseminated mag (also as mafic inclusions) Bio- is both black-green & bronze-brown (phlogopite?) -- possibly two populations. Bio and Hbl occur as both medium grained poikilitic (mag-fsp-qtz enclosed) grains and as finer, scattered grains throughout rock. Feldspars fresh to weakly altered (ser ± ca ± clay hem stained), mafics weakly altered to ca ± chl ± ep ± mag (inclusions?) ± cpy (uncommon). Locally, alteration is strong (where Guichon is faulted/well broken) and silicic (qtz + ser + ep + ca ± alb ± cpy (mafic replacement)) -- possible chill zone. Fracture sets 6-10 per metre at 50-65°, subparallel and subnormal C.A. and contain ser + ca ± lim ± hem ± chl coatings. Local ca + qtz + ep ± ser ± hem veinlets - 1 mm wide at 50-60° and subparallel to 20° C.A. commonly have 5 mm-1 cm wide alb ± ser ± hem selvages. Note: qtz + ser ± ep ± cpy (thinly beaded in core) veinlets (sub-mm) at 50° C.A. are cross cut by sub-mm ca ± hem veinlets at 25° C.A. Locally, well broken without gouge/slips (weak fault?). <b>7.3-13.0 m:</b> Bright yellow-orange to red-brown lim ± hem coatings on fracture sets 50-65° and subparallel C.A. common. Locally well broken/fractures. At 11.6 m: 3 cm wide vein of alb + ep ± ser ± ca ± cpy (2 mm in diam average, with mal + lim rims) with 2-3 cm wide ep + ser ± hem envelopes at 30-35° C.A. <b>20.7-45.0 m:</b> Zone of variable strong to intense alteration/silicification, well to strongly broken/fractured rock and local weak to moderate fault brecciation and gouge. Possible Fault zone. Guichon is mottled dark grey-light green (fsp moderately altered to ser ± alb, mafics moderately to strongly altered to ca + ser ± chl ± spec (oxidized to hem) ± cpy (trace locally) to a dark gel-green (intense sericitization with cpy finely disseminated selvages of local qtz + ser + ep ± ca ± cpy veinlets at 40-45° C.A., < 1 mm wide). <b>20.7-26.0 m:</b> Moderately silicified with local alb + ser + ep ± cpy veins (ep + ca ± hem envelopes/selvages) and bright red hematitic ser + alb ± qtz ± ca ± chl ± cpy (finely disseminated) veins at 40-45° C.A. (both styles of veins 0.5-3 cm wide and associated with intense sericitized Guichon.) Cpy < 0.5%. Note: between 23.6-23.9 m: coarse cpy (up to 1 cm in diam) occurs as blebs and elongate beads within strongly sericitized hem + ca + qtz envelopes/selvages (?) to ca + ser ± hem (purple) ± qtz veins 0.5-1 cm wide at 40-50° C.A. (minor disseminated cpy in outer dark green sericitized selvage and within ca veins.) Strong silicic overprinting (chilled/Qtz alteration?)	-1	0.03	-1	-1	2	2	2	2	2	9	-1	63492	10.0	12.0	0.01	-
														63493	12.0	14.0	0.02	-
														63494	14.0	16.0	0.01	-
														63495	16.0	18.0	0.01	-
														63496	18.0	20.0	0.01	-
														63497	20.0	22.0	0.01	-
														63498	22.0	24.0	0.34	-
														63499	24.0	26.0	0.02	-
														63500	26.0	28.0	0.08	-
														63501	28.0	30.0	0.06	-
														63502	30.0	32.0	0.04	-
														63503	32.0	34.0	0.04	-
														63504	34.0	36.0	0.18	-
														63505	36.0	38.0	0.03	-
														63506	38.0	40.0	0.09	-
														63507	40.0	42.0	0.01	-
														63508	42.0	44.0	0.02	-
														63509	44.0	46.0	0.01	-
														63510	46.0	48.0	0.02	-
														63511	48.0	50.0	0.02	-
														63512	50.0	52.0	0.03	-
														63513	52.0	54.0	0.02	-
														63514	54.0	56.0	0.01	-
														63515	56.0	58.0	0.01	-
														63516	58.0	60.0	0.01	-
														63517	60.0	62.0	0.2	-
														63518	62.0	64.0	0.01	-
														63519	64.0	66.0	0.01	-
														63520	66.0	68.0	0.02	-
														63521	68.0	70.0	0.04	-
														63522	70.0	72.0	0.04	-
														63523	72.0	74.0	0.03	-
														63524	74.0	76.0	0.02	-
														63525	76.0	78.0	0.01	-
														63526	78.0	80.0	0.03	-
														63527	80.0	82.0	0.02	-

Depth (m)		Description	%Py	%Cpy	%Bor Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<p><b>35.0-39.7 m:</b> Fault brecciated Guichon Poorly healed with light grey-green clay                      + ca + ser gouge/matrix between angular-elongate strongly to intensely sercitized                      fragments of Guichon (3 mm-3 cm average in length) Gouge/matrix contains sub-                      mm to pebble-sized (ground-up/crushed) clasts of Guichon. qtz-ep-hem-ser veins                      and locally distributed cpy grains (&lt; 1-3 cm diam) Ser + clay ± ca ± hem slips and                      shears at 30-35° and subparallel C.A. <b>Upper 0.8 m:</b> intensely sercitized (dark                      green/grey) Guichon with disseminated sub-mm cpy as mafics replacement (0.5-1%)                      Local 2.5 cm wide vein at 30-35° C.A. of spec (fine flecks to powdered) partially                      oxidized to hem (purple-red) + cpy ± qtz with 2-3 cm wide ser + ca + qtz + cpy ± py                      (cpy &gt;&gt; py as coarse blebs up to 1 cm in diam) -- presence of clay + ser + ca gouge in                      outer selvage indicates possible shearing/slip surface. <b>Lower 0.4 m:</b> Gouge/slip                      contact at 40° C.A. with intensely sercitized (ser + ca + chl ± hem) Guichon to                      dark green-grey 1-2% finely disseminated cpy as mafics replacement. 2 mm-1 cm                      weak ser + ca ± hem veins/veinlets with beaded blebs of cpy up to 2 mm in diam  <b>55.0-60.0 m:</b> Increased fracturing/well broken Guichon No gouge/slips                      Moderate alteration (ser + alb + ca ± chl ± ep ± hem-stained feldspars) giving rock a                      pale green-peach colour with mottled/ghosted texture to mafics and feldspars. Ep +                      ca ± ser ± qtz ± hem (bright red-orange) veinlets 1 mm. wide at 55-65° C.A. with albit-                      ized selvages (+ ep ± ca ± ser) to 2 cm wide  <b>60.0-64.5 m:</b> Increase in alteration intensity. Dark green/black (ser + chl) to pale                      pink/green (ep + alb + qtz). Feldspars altered to ser ± alb ± clay. mafics altered to                      ser + chl ± ca ± ep ± py &gt; cpy. Locally strong ep + qtz flooding and abundant ep + qtz +                      ca ± ser ± cpy (± bo) ± py ± hem veins/veinlets 2 mm-1.5 cm wide at 40, 20, 30 &amp; 60°                      C.A. Local ser + chl + clay + ca shears/slip planes at 60° C.A. with albitized + qtz + ep                      selvages to 3 cm. Overall py &gt; cpy, although in veins cpy is greatest, locally occurring                      as coarse beaded blebs (up to 5 mm wide and 2 cm in length).  <b>64.5-69.5 m:</b> Intense pervasive ep + qtz + ca ± hem flooding/alteration. Pale to                      pistachio green with sub-mm bright red hem stringer veinlets (at irregular core axis                      angles) and as fracture fill. Sub-mm ca veinlets at 40-50° C.A. locally contain white                      ser ± cpy ± bo and calcite crystal clots (subrounded to subangular up to 1 cm in diam.)                      Cpy 0.5-1 % average.  <b>66.0-67.0 m:</b> local cov + NCu (hem?) within intensely ep + qtz + ca ± ser altered                      rock as sub-mm to 1 mm in diam. ragged blebs. Cpy with bo rims replace select mafics                      within a short 15 cm zone of intensely chloritized + ser + ep ± qtz ± ca Guichon (pos-                      sibly mafics dykelet responsible for epidotization of sub-interval (?) -- 45-50° C.A.)  <b>69.5-70.7 m:</b> Intensely altered Guichon (ser + chl + ep ± ca ± qtz -- to dark green)                      with ~ 0.5% cpy mafic replacement. Fault gouge (clay + ser + ca ± hem) containing                      sub-mm to pebble sized, rounded Guichon clasts throughout. Hemalitic clay + ser ±                      ca slips at 50-60° C.A. Shearing at 70.0 m (~ 60° C.A.), weakly brecciated dark green                      Guichon, 1-3 mm in diam cpy ± bo rims locally occupy irregular gash veins/mafics.  <b>70.4-70.7 m:</b> strong red-orange hematization of feldspars in selvages                      (1-3 cm in width) of ser ± ca 40-50° C.A.</p>	63528	82.0	84.0	0.05	-											
			63529	84.0	86.0	0.09	-											
			63530	86.0	88.0	0.04	-											
			63531	88.0	90.0	0.03	-											
			63532	90.0	92.0	0.03	-											
			63533	92.0	94.0	0.01	-											
			63534	94.0	96.0	0.02	-											
			63535	96.0	98.0	0.02	-											
			63536	98.0	100.0	0.02	-											
			63537	100.0	102.0	0.02	-											
			63538	102.0	104.0	0.24	-											
			63539	104.0	106.0	0.02	-											
			63540	106.0	108.0	0.02	-											
			63541	108.0	110.0	0.03	-											
			63542	110.0	112.0	0.02	-											
			63543	112.0	114.0	0.04	-											
			63544	114.0	116.0	0.05	-											
			63545	116.0	118.0	0.02	-											
			63546	118.0	120.0	0.02	-											
			63547	120.0	122.0	0.03	-											
			63548	122.0	124.0	0.06	-											
			63549	124.0	126.0	0.05	-											
			63550	126.0	128.0	0.05	-											
			63551	128.0	130.0	0.03	-											
			63552	130.0	132.0	0.04	-											
			63553	132.0	134.0	0.03	-											
			63554	134.0	136.0	0.05	-											
			63555	136.0	138.0	0.08	-											
		63556	138.0	140.0	0.16	-												
		63557	140.0	142.0	0.19	-												
		63558	142.0	144.0	0.06	-												
		63559	144.0	146.0	0.13	-												
		63560	146.0	148.0	0.10	-												
		63561	148.0	150.0	0.12	-												
		63562	150.0	152.0	0.59	-												
		63563	152.0	154.0	0.10	-												
		63564	154.0	156.0	0.04	-												
		63565	156.0	158.0	0.03	-												
		63566	158.0	160.0	0.02	-												
		63567	160.0	162.0	0.05	-												
		63568	162.0	164.0	0.05	-												
		63569	164.0	166.0	0.04	-												
		63570	166.0	168.0	0.12	-												
		63571	168.0	170.0	0.02	-												
		63572	170.0	172.0	0.02	-												

Depth (m)		Description	%Py	%Cpy	%Bo/Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
73.5	79.0	Bio-Hbl-needle Plag Porphyry dyke (D4?) Dark grey/green Moderately magnetic Qtz-fsp groundmass with finely disseminated mag grains. Mafics moderately altered to ser + chl ± ca fsp moderately altered to ca ± clay ± ser. Ep + Qtz ± ca veinlets 1-3 mm wide with seritized selvages up to 1 cm wide at 20-30° C.A. are cross cut by sub-parallel ca veinlets < 1 mm wide. Fracture sets, 6-10 per metre at 40-50° C.A. with chl + ser ± ca ± lim coating. Local ser + clay ± ca ± hem slips at 45° C.A. At 73.7 m clay + ser ± chl ± ca gouge/slip at 45° C.A. with spec and cpy ± bo grains, porphyry wallrock intensely seritized with criss-cross network of ca veinlets (1-4 mm wide, subparallel and 50° C.A.) -- commonly vuggy. Upper contact with Guichon contains 2 cm wide ep ± Qtz ± ser vein at 60° C.A. with a Qtz + ca ± ep envelope which grades upwards into strongly seritized to moderately albitized Guichon with py>>cpy replacing mafics as grains/clots 1-5 mm in diam. <b>77.8-79.0 m:</b> Intensely altered (ser + chl + ca ± clay) to deep grey/black with 3 mm-1 cm wide ep ± ser ± ca ± Qtz ± cpy (± bo nms) veins at 50-60° C.A. cross cut by subparallel to 30° C.A. Ca + ser veinlets 1-3 mm wide with ep ± ca ± ser ± chl envelopes. Lower contact with Guichon at ~ 50° C.A. contains ca + ser ± cpy (± bo nms) vein ~ 1 cm wide with ep ± Qtz ± ser envelope. Note clay + ser ± ca ± chl slip plane at 50° C.A. along vein wall.	0.1	0.05	0.01	-1	2	3	3	2	2	13	1	63573	172.0	174.0	0.02	-
			63574	174.0	176.0	0.19	-											
			63575	176.0	178.0	0.36	-											
			63576	178.0	180.0	0.22	-											
			63577	180.0	182.0	0.05	-											
			63578	182.0	184.0	0.07	-											
			63579	184.0	186.0	0.08	-											
			63580	186.0	188.0	0.03	-											
			63581	188.0	190.0	0.04	-											
			63582	190.0	192.0	0.02	-											
			63583	192.0	194.0	0.11	-											
			63584	194.0	196.0	0.03	-											
			63585	196.0	198.0	0.03	-											
			63586	198.0	200.0	0.02	-											
			63587	200.0	202.0	0.03	-											
			63588	202.0	204.0	0.04	-											
			63589	204.0	206.0	0.03	-											
63590	206.0	208.0	0.02	-														
63591	208.0	210.0	0.06	-														
79.0	101.3	Continuation of Guichon Bio-Hbl-Qtz diorite-Monzodiorite (slightly more porphyritic in texture). General increase in alteration giving rock a mottled/ghosted grey-pink colour to dark green (intense variable). Greater amount of evenly distributed pink (hematitic fsp or K-spar) speckling throughout rock (secondary K-spar?). Feldspars altered to ca ± clay ± ser, mafics altered to ser + ca + chl ± cpy (in select grains locally -- commonly near veinlets of K-spar < 2 mm wide at 35° C.A. with seritized selvages to 2 cm wide.) <b>85.1 m:</b> Spec veinlets 2-3 mm wide at 40° C.A. contain finely beaded cpy (mafic replacement) in envelope and selvage (seritized). <b>85.2-87.2 m:</b> Fault zone. Clay + ser ± ca ± hem gouge/slips at 35-40° C.A. Strongly broken/crumbled and intensely altered to dark green/blue (ser + chl + ca ± clay ± hem) locally. Upper 20 cm of sub-interval is gouge with crushed/milled, strongly seritized Guichon (< 1 mm-1 cm in diam, subrounded) along with local grains of cpy up to 5 mm in diam. <b>90.5-99.0 m:</b> Concentration of sub-mm to 2 mm wide ca ± ser (envelope) and ser ± ca veinlets (1-2 m per metre at 30-40° C.A.) with 2-6 cm wide selvages of intensely altered dark gel-green wallrock (fsp altered to ser ± ca ± clay, mafics altered to chl + ser + ca ± hem); other 1-2 cm of selvage is commonly strongly hematized (fsp) to deep red/orange. Local ep + ca + ser ± Qtz ± cpy (± bo nms) veinlets 1-2 mm wide, 35° C.A. with patchy ep + ser ± Qtz ± cpy (< 2 mm wide clots replacing mafics - rare bo nms) selvages to ~ 2 cm into wallrock. Clay + ser ± chl ± hem (flaky metallic-bronze colour/texture) ± ca slips at 35-40° C.A. commonly occur along vein walls (structural weakness?). At 95.4 m: ~ 10 cm wide fault gouge (clay + ser + ca) with crushed/amalgamated ep + Qtz + ca vein fragments and strongly to intensely altered Guichon clasts (subrounded, < 1 mm-1 cm in diam.) <b>100.1 m:</b> 5 m wide mag bearing (finely disseminated) aplite dykelet at 55° C.A.	?	0.01	0.04	-1	2	3	3	3	2	9	?	63592	210.0	212.0	0.08	-
			63593	212.0	214.0	0.04	-											
			63594	214.0	216.0	0.09	-											
			63595	216.0	218.0	0.10	-											
			63596	218.0	220.0	0.34	-											
			63597	220.0	222.0	0.04	-											
			63598	222.0	224.0	0.05	-											
			63599	224.0	226.0	0.06	-											
			63600	226.0	228.0	0.06	-											
			63601	228.0	230.0	0.11	-											
			63602	230.0	232.0	0.03	-											
			63603	232.0	234.0	0.03	-											
			63604	234.0	236.0	0.09	-											
			63605	236.0	238.0	0.18	-											
			63606	238.0	240.0	0.05	-											
			63607	240.0	242.0	0.02	-											
			63608	242.0	244.0	0.02	-											
63609	244.0	246.0	0.01	-														
63610	246.0	248.0	0.02	-														
63611	248.0	250.0	0.01	-														
63612	250.0	252.0	0.01	-														
63613	252.0	254.0	0.01	-														
63614	254.0	256.0	0.02	-														
63615	256.0	258.0	0.03	-														
63616	258.0	260.0	0.02	-														
63617	260.0	262.0	0.03	-														

Depth (m)		Description	%Fy	%Cpy	%Bo/Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	
From	To														From	To			
101.3		<i>cont'd sub-interval 100.1 m</i>												63618	262.0	264.0	0.02	-	
		cross cut by sub-mm ca ± ser veinlets at 20° C.A.												63619	264.0	266.0	0.01	-	
		Bio-Hbl-Fsp Crowded Porphyry Light grey/pinkish with mafic speckling Moderately magnetic Sparse interstitial groundmass of qtz-K-spar-plag-finely disseminated mag Hbl commonly contains abundant mag inclusions which locally completely replace grains Volume of Hbl>>Bio alteration is variable (weak to locally intense where fractured/veins) Fsp altered to ca • clay • ser mafics altered to ser + chl + ca ± hem (mag inclusions) Upper contact with Guichon at ~ 80° C.A. sub-mm qtz + cpy (finely beaded) ± ca veinlets cross cut Guichon and Bio-Hbl-Fsp porphyry at 40° C.A. at upper contact (which are subsequently cross cut by sub-mm ca veinlets at 20° C.A.) K-spar rich selvage into Guichon ~ 2 cm Fracture sets at 50-60, 35-40° and subparallel C.A. averaging 10-15 per metre with clay • ca ± ser ± chl ± lim coating/fill (locally fracture planes contain clay + ser ± ca slips at 60° C.A.) and commonly dark green/red ser + chl + hem altered selvages up to 4 cm wide Locally well broken/fractured Ep + qtz ± ca ± cpy veins (1-3 mm wide at 45° C.A.) with ser + chl + ca ± cpy (mafic replacement) envelopes/selvages to 3 cm are cross cut by ca ± ser ± hem veins (1-6 mm wide at 20-30° C.A.)	0.01	0.04	0.01	-1	2	3	3	3	2	-	-1	63620	266.0	268.0	0.02	-	
														63621	268.0	270.0	0.01	-	
														63622	270.0	272.0	0.01	-	
														63623	272.0	274.0	0.01	-	
														63624	274.0	276.0	0.02	-	
														63625	276.0	278.0	0.31	-	
														63626	278.0	280.0	0.07	-	
														63627	280.0	282.0	0.17	-	
														63628	282.0	284.0	0.05	-	
														63629	284.0	286.0	0.03	-	
														63630	286.0	288.0	0.01	-	
														63631	288.0	290.0	0.03	-	
														63632	290.0	292.0	0.05	-	
														63633	292.0	294.0	0.01	-	
														63634	294.0	296.0	0.03	-	
														63635	296.0	298.0	0.10	-	
			<b>103.0-103.5 m:</b> Weakly fault brecciated with hematitic clay + ser ± ca gouge/slips (at 30-35° C.A.) and sheared ca + ser + hem + cpy (coarse blebs) veins ~ 1 cm wide at 45° C.A.												63636	298.0	300.0	0.01	-
			<b>107.5-108.0 m:</b> Weak fault brecciation with strong clay + ser ± chl ± ca gouge/slips (30-35° C.A.) and local ca + qtz + ep ± ser ± cpy (coarse beaded blebs) ± spec (oxidized to hem) ~ 1 cm wide at 45° C.A.												63637	300.0	302.0	0.02	-
		<b>109.5-115.0 m:</b> Strongly broken/crushed Bio-Hbl-Fsp Crowded Porphyry (possible fault zone) without fault gouge Local increase in abundance of qtz + ep ± ca ± cpy (coarse ± fine blebs with rare bo rims) veins at 45-60° C.A. Cpy 0.01-0.5 over sub-interval.												63638	302.0	304.2	0.01	-	
		<b>115.0-123.0 m:</b> Chilled (?) Bio-Hbl-Fsp Crowded Porphyry Light grey/purple. Decreased volume of K-spar Weakly silicified (?) as fsp altered to clay + ser ± ca and mafics altered to chl + ser ± ca ± spec ± ep Fsp and mafics form a mottled-ghosted texture within rock. Local ca + ep + qtz ± ser ± cpy (coarse blebs in core) veins at 35-40° C.A., 3-6 mm wide, <1 per metre. Subparallel clay + ser ± ca ± chl slips with partially comminuted ser + chl + ca ± qtz ± cpy envelopes/selvages. Cpy <0.05% over sub-interval. Trace lim ± hem on fracture sets at 50-60 and 45° C.A.												<b>end of assay information</b>					
		<b>123.0-124.3 m:</b> Locally fault brecciated, intensely altered (ser + chl + ca ± clay -- dark green). Bio-Hbl-Fsp Crowded Porphyry with light grey-green clay + ser + ca ± chl ± hem gouge/crushed rock and slips (at 35-40° C.A.) Cpy mafic replacement in rare grains and in sub-mm veinlets/microfractures (?) at irregular C.A. 0.5-1% cpy.																	
		<b>124.3-143.0 m:</b> zone of intense (locally strong) alteration of Bio-Hbl-Fsp Crowded Porphyry. Pervasive dark green/grey colour with local patchy red hematization of feldspars within selvages (to 10 cm wide) to fracturing/veining Fsp typically altered to gel-green ser ± ca ± clay, mafics altered to ser + chl + ca ± spec ± ep (localized near vein selvages). Ser throughout rock is commonly in form of fine silver/white flakes. Local veins: subparallel to C.A., ca ± ser (< 1-2 mm wide), ep + qtz + ser ± ca ± cpy																	



Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<p><b>cont'd sub-interval 124.3-143.0 m</b></p> <p>(trace) at ~ 45° and subparallel C.A. (1-4 mm wide) and spec (oxidized to hem) + ser ± ca veinlets at 30-40° C.A. (1-2 mm wide). Fracturing decreases to 6-10 per metre. Rare cpy mafic replacement in select grains -- primarily near/within vein selvages.</p> <p>124.5-128.6 m: Local fault gouge (clay + ser ± ca ± chl) with abundant spec (oxidized to purple flaky hem). Spec + clay + ser + chl slips 35-45° C.A. Local sub-rounded, digested, stoped (?) fragments/blocks of Guichon Qtz diorite/Monzodiorite (approx 5-25 cm in length) bright orange (fsp hematization) and strongly altered (ser + chl + ca + clay ± mag ± py ± cpy (mafic replacement and vein cross cutting -- 0.05-0.1% cpy average.</p> <p>138.4-139.0 m: Fault breccia/shear: poorly healed with clay + ser + ca gouge between crushed/sheared sub-mm to pebble sized clasts of Bio-Hbl-Fsp porphyry. Hemattic clay + chl + ser ± ca slips/shear planes at subparallel ± 45° C.A. Local coarse cpy grains (1-4 mm in diam.) mixed in gouge along subparallel shear planes.</p> <p>140.0-140.8 m: concentration of ep + ca + qtz ± ser ± cpy (finely beaded) veins (2-5 mm wide, at 45-50° C.A.) and sub-mm cpy (± bo) ± qtz ± ca veinlets and fracture filling at subparallel C.A. (0.5-1%).</p> <p>143.0-145.7 m: 0.05-0.5% Cpy finely disseminated throughout intensely altered Crowded Porphyry (deep green -- ser + chl + spec + hem) and in ser + ca ± qtz ± spec ± chl veinlets at 50-60° C.A., 1-2 mm wide as blebs/beads up to 1.5 mm in diam.</p> <p>145.7-146.7 m: Sheared Crowded Porphyry (at ~ 55° C.A.) with intensely altered wallrock and increased abundance of ser + qtz + ca ± spec (oxidized to hem) ± ep ± cpy (~1-2% over sub-interval) veins, 2-5 mm in width at 50-60° C.A. Note: Subparallel ca ± ser veinlets &lt; 2 mm wide cross cut cpy bearing veins.</p> <p>147.0-148.3 m: Well broken, strongly altered Crowded Porphyry (possibly fault). Fracture surfaces contain dusty grey clay + ser + ca ± hem. Subparallel hematitic clay + ser + ca slip (shear?) at 148.0 m.</p> <p>150.0-151.2 m: Fault breccia. Moderately to well healed clay + ca ± ser ± hem matrix/gouge with comminuted wallrock throughout; &lt; 1 mm-5 cm in diam, subangular fragments of intensely altered dark green crowded porphyry contain disseminated cpy/veined cpy. Matrix also contains cpy pieces (crushed to sub-mm and locally up to 3 mm in diam).</p> <p>150.8-151.2 m: subparallel spec rich (oxidized to dusty metallic purple hem) slip/shear with 1-35 cpy as grains/blebs in gouge (clay + ca ± ser) crushed and milled.</p> <p>152.0-154.9 m: Fault zone. Well broken/fractured Crowded Porphyry (strongly altered and hem bleached to orange-red). Upper contact (~ 50 cm) contains ep + ser ± ca ± cpy vein/veinlets &lt; 2 mm wide at 55 and 20° C.A. with hematized (orange-bleached colour) selvages to 10 cm in width. Lower 50 cm is fault brecciated with clay + ser + ca ± hem gouge/slips at ~ 30° C.A. fault breccia contains dark green sericitic/chloritic Crowded Porphyry fragments, subangular fragments 1-2 cm in length, 0.5-1 cm in diam.</p> <p>154.9-156.3 m: Intensely altered Crowded Porphyry (pervasive ser + chl + ca ± ep ± spec -- dark grey/green). Feldspars dark gel-green ser ± ca ± clay.</p> <p>156.3-165.3 m: Possible fault zone. Well broken/fractured, locally crushed/crumbled. Fracture planes at 40-45, 55-65° C.A. and subparallel C.A. contain clay + ca ±</p>																

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<p><b>cont'd sub-interval 156.3-165.3 m</b></p> <p>chl ± ser ± lim. Broken rock has an overall orange-brown colour partially due to hem- atization of feldspars in selvages of ser + ca ± qtz ± spec (oxidized to hem) ± ep ± cpy (fine blebs) veinlets &lt; 1-3 mm wide at 30-40 and 55-60° C.A. Upper 0.8 m is fault brecciated/gouged (clay + ser + ca + chl) with 0.5-1% disseminated/crushed cpy throughout. Upper clay + ser + chl ± ca slip brecciated/gouged (clay + ser + ca + chl) with 0.5-1% disseminated/crushed cpy "contact" at 55° C.A., local cly + ser + chl ± ca ± hem (after spec) slips at 20-35° C.A. commonly contain albitized selvages ± ep ± cpy (mafic replacement) up to 2 cm into wallrock.</p> <p><b>165.3-174.0 m:</b> Moderately to locally intensely altered (ser + chl + ca ± spec ± clay ± ep). Locally abundant ser + chl ± ca veinlets (sub-mm at 20-30° C.A.) and qtz + ep + ca ± ser ± cpy veinlets (1-3 m wide at 20-30° C.A. with 2 cm wide intensely sericitized/chloritized (+ cpy mafic replacement) envelopes/selvages and 2-3 cm wide strongly hematized outer selvages. Prominent fracture sets at 45-50° and subparallel C.A., 8-12 per metre contain clay + ser ± chl ± ep ± lim. Rare unmineral- ized subparallel to 25° C.A. ca veins (1-3 mm wide – commonly vuggy).</p> <p><i>167.0-168.0 m: Weakly fault brecciated with light grey/green clay + ca + ser matrix developed between intensely clasts of Crowded Porphyry. Qtz ± ca ± ser veins at 50-60° C.A., 2-6 mm wide contain blebs of cpy to ~ 4 m in diam. Local hematitic (bronze-brown to purple-brown) clay + ser ± ca slips/shears (gouge fill) at subparallel to 20° C.A.</i></p> <p><b>174.0-176.2 m:</b> Shear-fault zone. Rock, well broken, crushed/milled and locally gouged (clay + ser + chl ± hem ± ca) with shear and slip planes at 20-30° C.A. Abundant spec + purple hem in gouge locally where intensely sericitized/chloritized Crowded porphyry has been fault brecciated to subangular fragments &lt; 2 cm in length. Crushed to milled cpy in gouge; and finely disseminated/smeared along sericitic/hem- atitic slips (0.5-15 over sub-interval). <i>Note:</i> wallrock ~ 20 cm up section from upper "contact" of shear zone is intensely altered to deep grey/green (ser + chl ± spec) and has local cpy replacing mafics. Local, commonly vuggy ca ± hem ± ser veinlets (&lt;1 mm wide at ~ 30° C.A.) contain rare blebs of cpy.</p> <p><b>176.2-178.5 m:</b> Zone of intensely altered (fsp altered to ser ± ca, mafics altered to chl + ser + ca ± ep ± spec. Dark green. Local qtz + ca + ep ± ser ± spec) oxidized to hem ± cpy coarsely beaded 5 mm by 1.5 cm) veins, approximately 2 mm by 2 cm wide at subparallel and 40-45° C.A. <i>Note:</i> qtz + ep ± spec ± cpy veins at 40-45° C.A. are cross cut by subparallel to 20° C.A. fractures/slips containing spec + ca + clay + chl + ser ± cpy (previously veined?)</p> <p><b>178.5-190.0 m:</b> Overall alteration is moderate – Crowded Porphyritic texture evi- dent with mottled pinkish/pale grey colour. Fsp altered to ca ± ser ± clay, mafics alter- ed to chl + ser + ca ± ep ± mag/spec (oxidized to hem) ± cpy (locally in select/rare grains). Ca + ser ± cpy veinlets (&lt; 1 mm wide) and qtz + ca + ep ± ser ± cpy (beaded to coarse blebs) veins 2 mm-2 cm wide at subparallel and 40-45° C.A. occur throughout 2-6 per metre) and commonly have intensely ser/chl selvages (dark green/grey) 1-5 cm wide. Local hematization of feldspars adjacent to outer selvages of veins (possi- bly albitized). At 187.7 m: clay + ser + chl ± ca slip subparallel to C.A.</p> <p><i>186.0-186.7 m: Weak fault breccia with light green-grey clay + ser + ca ±</i></p>																

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<i>cont'd sub-interval 186.0-186.7 m</i>																
		hem interclastic (Crowded porphyry) cement/gouge; 0.5-1.5 cm wide vuggy ca veins (possibly interstitial fill)																
190.0	239.5	Fine to medium grained Hbl-Bio-Fsp Porphyry Qtz Diorite (FP1). Grey-orange, iron stained plagioclase, 25% mafics. Mafics 80% altered to chl-ser-mag-hem. Plagioclase cloudy, zoned. Qtz-chl-ep-ser-clay-calcite filled fractures 1 mm-1 cm with cpy, trace bo. 10-20 per metre, 45-20° C.A. Generally weakly fractured, with 1-2 m sections of moderate to strong fracturing. Chl-ep-cpy slickensides at 60° C.A. suggest left lateral movement. Spec veins with cpy 1-2 mm locally. Trace cpy, bo replacing mafics throughout. Pervasive pale green ser and compositional changes down section, weak intrusion breccia.	0.1	0.2	0.1	-	2	3	2	3	2	15	-					
239.5	304.2	Medium to coarse grained (hbl)-bio-fsp porphyry Qtz Monzodiorite (FP1, D3). Texturally and compositionally variable, autoliths. 10% mafics. Mafics 90% altered to chl-ser-mag-hem. Brown-black bio. Plagioclase cloudy to pale-dark green in patches, prominent orange stained matrix in patches. Orange aplite dykelets to 2 cm locally subparallel to C.A. Local Qtz-K-spar veining, Qtz flooding. Subparallel fractures offset 45° C.A. ser-calcite veins right laterally. Trace cpy, bo in < 0.1 mm fractures & Qtz-chl-ser-clay-calcite filled fractures. Up to 5% cpy with spec in 0.5-1 cm veins along shears. Qtz increasing down section. <b>281.6 m:</b> ~ 6 cm wide hem + Qtz + Ca diffusion vein 50-60° C.A. with trace cpy (<0.5%) as fine disseminated blebs cross cut by Ca ± spec ± hem veinlets ~ 50° C.A., 1-4 mm wide. <b>283.1-283.5 m:</b> concentration of Ca + ser + hem ± cpy with bo rims (beaded blebs up to 2 mm in approximately diam) veins ~ 30-40° C.A., 2-5 mm wide, ~2 for every 10 cm. Selvages are intensely altered to pale green/orange (ser + chl + Ca + hem ± cpy) <i>cont'd sub-interval 283.1-283.5 m</i> - local mafic replacement). <b>197.2 m:</b> 3 cm wide Qtz + Ca + hem (purple) + ser ± spec vein ~ 20° C.A. with cpy ± bo as coarse blebs (to approximately 1 cm in diam) and beads/trails throughout vein/ along walls; ~ 5% cpy, 1% bo. Upper selvage strongly seritized Feldspar porphyry (ser + chl + Ca ± spec ± trace cpy to ~ 30 cm. Note: cross cut by < 1-2 mm wide Ca ± ser veinlets ~ 50-60° C.A. <b>197.5-304.2 m:</b> General decrease in alteration intensity and hematization of feldspars (Fe-staining). At 302.4 m. ~ 5 cm wide pink-orange aplite dykelet/vein (?) at 50-60° C.A. cross cut by a subparallel and sub-mm cpy + Mo veinlets (both as fine beads).  <b>EOH 304.2 m</b>	0.1	0.1	0.1	-	3	2	2	3	2	20	-					

Diamond Drill Log														Azim		Dip	
Project: Getty North		Northing: 5603215		-1 = absent		Core: NQ2		Collar		090		-45					
Hole #: 96-29		Easting: 642230		1 = background/fresh													
Date: 12-Sep-96		Elevation: 1667 m		2 = weak		4 = strong											
Logged by: R. Whiteaker				3 = moderate		5 = intense											

  

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays				
From	To													Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
0	12.8	casing/overburden												63639	12.8	15.0	0.02	-
12.8	48.8	Medium grained Hbl-Bio-Qtz Diorite (Guichon variety) Mainly light grey with pink/black speckling (K-spar + mafics). Locally dark grey/mottled where alteration is stronger. moderately magnetic. Weakly equigranular with note that mafic phenocrysts in general are slightly larger than plagioclase and hornblende. observed weak interstitial groundmass of K-spar, qtz, finer plagioclase and mag grains. Abundant freely disseminated mag grains throughout and locally as mafics inclusions (possibly secondary). Bio is commonly ragged and poikilitic (enclosing qtz, mag, fsp grains). Overall alteration is weak to moderate with local short zones of strong to intense alteration. feldspars altered to ca + clay ± ser ± Fe-stain, mafics alteration chl + ser + ca ± ep ± mag ± spec ± cpy ± py (both rare mafic replacement -- mainly where alteration is strongest). Bronze-silver mica with black-green bio/hbl -- possibly secondary product. Fracture sets 35-45, 55-60° C.A., 8-12 per metre (locally well broken/ crushed in zones of fault breccia/shearing) contain clay + ca + ser ± chl ± lim ± hem coatings. Rare aplitic hbl bearing dykelets/veins (?) ~ 40-50° C.A., 4-6 mm wide carry trace cpy as fine disseminated with lim rims. Ca + qtz ± ser ± ep ± cpy (trace fine disseminated) veinlets, 35-40 and 55-60° (± subparallel) C.A. < 1-4 m wide occur throughout and commonly have pale-dark green/reddish intensely altered selvages (ser + chl + clay ± spec ± cpy ± py ± hematization) up to 20 cm wide. Secondary silicification locally. Towards end of hole, alteration intensifies, giving Guichon a ghosted/mottled texture with pale grey/orange colour (qtz-hem-ser-clay-chl-ca) to a dark/pale green (seritized/chloritized clay). 12.8-20.7 m: Fractures contain weak to strong lim ± hem with local veins/fracture fill of mal/azur. Local clay + ca + hem (purple-brown) ± chl ± ser ± mal fault gouge with slips 50-60° and 35-40° C.A. with 5-10 cm wide seritized/albitized selvages. Note: soft, sooty-black patches on local fractures with lim -- possibly CC? 20.7-25.0 m: Fault brecciated/sheared deep green-grey Guichon (intensely altered to ser + chl ± ca ± cpy -- 0.5-1% mafic replacement ± py). Local qtz + ca + cpy veinlets, < 1 mm wide, ~45° C.A. Clay + ca + ser ± chl ± hem ± crushed/milled cpy > py gouge throughout subangular clasts to Guichon (approximately <1-4 mm wide. Coarse cpy grains (~1-7 mm in diam.) freely beaded throughout local ca + qtz ± chl ± ser veins (5 mm-1.5 cm wide) subsequently sheared/brecciated ~20-25° C.A. Gouge commonly contains 1-2 mm milled clasts to Guichon/veins (?) and is locally strongly hematitic with slips ~ 20-30 ± 45° C.A. 25.0-43.4 m: Local light/dark grey-green clay + ser + ca ± chl ± mica ± py ± cpy-rich fine brown sand/comminuted wallrock gouge with slips ~ 30-50° C.A. At 30.0, 39.0 and 42.5 m. 1-2 cm wide qtz + ca + ser + hem (purple streaks) ± chl ± ep ± cpy ± mal ± bo veins (both sulphides finely beaded blebs -- trace to 0.5% per vein) at ~50-60° C.A.	63640	15.0	17.0	0.07	-											
														63641	17.0	19.0	0.05	-
														63642	19.0	21.0	0.06	-
														63643	21.0	23.0	0.56	-
														63644	23.0	25.0	0.26	-
														63645	25.0	27.0	0.02	-
														63646	27.0	29.0	0.02	-
														63647	29.0	31.0	0.04	-
														63648	31.0	33.0	0.01	-
														63649	33.0	35.0	0.04	-
														63650	35.0	37.0	0.02	-
														63651	37.0	39.0	0.02	-
														63652	39.0	41.0	0.02	-
														63653	41.0	43.0	0.02	-
														63654	43.0	45.0	0.01	-
														63655	45.0	47.0	0.09	-
														63656	47.0	48.8	0.04	-
														SLUDGE	from (m)	to (m)	Cu %	
															48.8	51.2	0.08	
														hole abandoned end of assay information				

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<p>Selvages intensley sericitized ± hematized (with rare cpy-py mafic replacement)</p> <p><b>cont'd sub-interval 25.0-43.4 m</b></p> <p>pale-dark green to orange-red 15-20 cm outwards from vein walls. Local clay + ser + ca + chl + mal gouge along veins – possible post or syn-veining related.</p> <p><b>43.0-48.8 m:</b> Increased alteration of Guichon (pale bleach-green to dark green). Feldspars intensley altered to ser (gel-green) + ca + clay, mafics intensley altered to ser + chl + ca + mag + mica (musc) + hem ± ep ± cpy (rare replacement). Local ca + ser ± clay ± hem (purple) ± cpy ± bo (trace fine beads) veinlets ~ 30-35 and 50-60° C.A., &lt; 1-5 mm wide (less commonly ~ 1.5 cm wide). Local dark gre/black clay + chl + ser + ca ± hem fault gouge contains very fine, crushed and disseminated py&gt;cpy (&lt;0.05%), slips at 50-60° C.A. At 46.5 m: qtz + ca + ser + chl ± hem ± py veinlets (commonly vuggy) ~ 55-60° C.A. Short concentration of 1-4 mm wide.</p> <p>Hole stopped due to tightness/collapse near 48 m Strong/thick clay gouge/faulting encountered.</p> <p style="text-align: center;"><b>EOH 48.8 m</b></p>																

**Diamond Drill Log**

Project: Getty North  
 Hole #: 96-30  
 Date: 14-Sep-96  
 Logged by: R. Whiteaker

Northing: 5603215  
 Easting: 642230  
 Elevation: 1667 m

-1 = absent  
 1 = background/fresh  
 2 = weak  
 3 = moderate  
 4 = strong  
 5 = intense

Core: NQ2

	Azm	Dip
Collar	090	-60

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays				
From	To													Sample Number	Interval (m) From	To	%Cu Total	%Cu Non Suff
0	9.8	casing/overburden												63657	9.8	15.0	0.06	-
9.8	106.0	Medium grained Hbl-Bio-Qtz Diorite (Guichon variety) Moderately magnetic, weakly equigranular. Light grey with pink and black speckling of K-spar and mafics. Where weakly to moderately silicified (increasing down section) rock takes on a ghosted/mottled texture and a pale grey/orange colour. Bio commonly poikilitic enclosing qtz-mag-fsp grains. Overall alteration is weak to moderate with local short zones of strong to intense alteration within local fault gouge/shear/veining selvages. Feldspars altered to ca + clay + ser ± Fe-stain, mafics altered to chl + ser + ca ± ep ± mag ± spec ± py ± cpy (py>cpy over interval). Fracture sets 35-45, 55-65° ± subparallel to C.A., 8-12 per metre average, and contain clay + ser + ca ± chl ± lim ± qtz ± py ± cpy (mal). Local 45-60° fractures contain clay + ser + chl + ca ± hem ± py ± cpy slips and 1-3 cm wide intensely altered selvages that grade from hematized ± sericitized near envelope to sericitized/chloritized ± py>cpy-bo (0.5-1% mafic replacement) towards outer selvage. Ca + qtz + ser ± ep ± cpy (trace disseminated) veinlets ~ 35-40° and 55-65° C.A., < 1-3 mm wide occur throughout and commonly have intensely altered selvages (pale green/bleach orange -- ser + chl ± alb ± ca ± hem ± py ± cpy) ~1-10 cm wide on average. Local 2-4 mm wide orange aplite dykelets/veins (?) ~ 50-70° C.A. cross cut by 1-2 mm wide ca + hem (purple colour) + ser veinlets ~ 35-40° C.A. <b>9.8-23.5 m:</b> Guichon moderately to strongly altered to a ghosted pale grey/orange to light green colour/texture (ser-qtz-ca-chl-hem). Weak silicification throughout. Locally intense alteration (dark green -- ser + chl + ca + clay) 3-30 cm wide selvages to sheared fault breccia/gouge (poorly healed) containing light grey-green to chocolate brown clay + ca + ser ± chl ± hem ± lim cement/gouge between intensely altered subrounded < 1-2 cm in diam. Guichon clasts and sheared qtz-ca-ser-chl veins. Slips ~ 50-60° C.A. Fractures commonly contain coatings of strong lim + hem and trace py ± cpy ± mal. Py > cpy mafic replacement throughout. <b>18.5-22.5 m:</b> Local concentration of qtz + ep + ca ± ser ± chl veins, 5 mm-2 cm wide, ~ 60° C.A. with beaded/disseminated cpy + py ± bo (rim to cpy) throughout vein and into wallrock (< 2 cm outwards). Note: 1 cm wide subparallel ser + ca + qtz ± py vein with a 2 mm wide hem + ser + ca envelope and a 4 cm wide intensely altered selvage (Guichon -- deep green, ser + chl + clay ± hem). <b>30.5-46.5 m:</b> Increased silicification of Guichon to a pervasive mottled light grey-pale pink. Feldspars have ill-defined crystal form (ghosted texture). Local strong silicification commonly accompanied by ep veining (< 1 mm-1 cm wide average, 45-60° C.A.) and ep replacement mafics. Local ca ± ser ± chl ± hem veinlets ~ 50-65° C.A., 2-5 mm wide with 2-10 cm wide selvages of dark green ± blood red ser + chl ± ca ± clay ± Fe-stain ± spec alteration and stronger silicification. At 31.5 m: Clay-ca-ser ± chl ± hem fault gouge (intensely sericitized subangular Guichon fragments < 1 cm approximately in diam.) with clay + ser + ca and clay + hem ± cpy (crushed/milled) slips at 50-65° C.A.	0.5	0.1	0.05	0.05	2	2	2	2	2	18	1	63658	15.0	17.0	0.06	-
														63659	17.0	19.0	0.18	-
														63660	19.0	21.0	0.06	-
														63661	21.0	23.0	0.17	-
														63662	23.0	25.0	0.01	-
														63663	25.0	27.0	0.01	-
														63664	27.0	29.0	0.02	-
														63665	29.0	31.0	0.02	-
														63666	31.0	33.0	0.06	-
														63667	33.0	35.0	0.02	-
														63668	35.0	37.0	0.02	-
														63669	37.0	39.0	0.02	-
														63670	39.0	41.0	0.02	-
														63671	41.0	43.0	0.02	-
														63672	43.0	45.0	0.03	-
														63673	45.0	47.0	0.01	-
														63674	47.0	49.0	0.03	-
														63675	49.0	51.0	0.01	-
														63676	51.0	53.0	0.02	-
														63677	53.0	55.0	0.02	-
														63678	55.0	57.0	0.02	-
														63679	57.0	59.0	0.02	-
														63680	59.0	61.0	0.05	-
														63681	61.0	63.0	0.04	-
														63682	63.0	65.0	0.04	-
														63683	65.0	67.0	0.02	-
														63684	67.0	69.0	0.02	-
														63685	69.0	71.0	0.10	-
														63686	71.0	73.0	0.06	-
														63687	73.0	75.0	0.03	-
														63688	75.0	77.0	0.04	-
														63689	77.0	79.0	0.02	-
														63690	79.0	81.0	0.02	-
														63691	81.0	83.0	0.04	-
														63692	83.0	85.0	0.03	-
														63693	85.0	87.0	0.01	-
														63694	87.0	89.0	0.13	-
														63695	89.0	91.0	0.01	-
														63696	91.0	93.0	0.01	-
														63697	93.0	95.0	0.10	-

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<b>cont'd sub-interval 30.5-46.5 m</b>												63698	95.0	97.0	0.01	-
		At 44.0 m Fault gouge (possibly shear) with ~2.5% py crushed in gouge along with milled Guichon fragments, along clay + chl + ser + ca slips/fracture planes (~45-55° C.A.) and disseminated throughout dark green intensely sericitized (ser + chl + ca) selvage/wallrock (~8 cm either side of gouge)												63699	97.0	99.0	0.01	-
														63700	99.0	101.0	0.01	-
														63701	101.0	103.0	0.01	-
														63702	103.0	105.0	0.02	-
		<b>46.5-55.5 m:</b> Zone of intensely altered Guichon (light-dark green ser + chl + ca + clay + spec ± Fe-stain) with light grey-green to green-black ser + chl + ca-rich clay gouge throughout, waxy clay + ser ± chl slips/shear planes ~50-60° ± subparallel to C.A. Local 0.5-2 cm wide coarsely crystalline ca ± ser ± hem veins ~60° C.A. -- commonly segmented in gouge. <b>Rare</b> 1-2 mm wide qtz + ca ± ser ± cpy ± py veinlets ~45° C.A. 55+55.5 m concentration of 2 mm-1 cm wide ca + qtz + ser ± chl ± hem ± cpy (rare fine blebs) veins 50-60° C.A. (cross cut by drusy ca ± ser veinlets < 1-3 mm wide ~20-30° C.A.) with intensely altered selvages (ser + chl + ca + clay ± Fe-stain) giving rock a pervasively altered appearance.												63703	105.0	107.0	0.04	-
														63704	107.0	109.0	0.02	-
														63705	109.0	111.0	0.03	-
														63706	111.0	113.0	0.03	-
														63707	113.0	115.0	0.07	-
														63708	115.0	117.0	0.01	-
														63709	117.0	119.0	0.01	-
														63710	119.0	121.0	0.01	-
														63711	121.0	123.0	0.05	-
														63712	123.0	125.0	0.01	-
														63713	125.0	127.0	0.01	-
														63714	127.0	129.0	0.01	-
														63715	129.0	131.0	0.01	-
														63716	131.0	133.0	0.03	-
														63717	133.0	135.0	0.02	-
														63718	135.0	137.0	0.02	-
														63719	137.0	139.0	0.02	-
														63720	139.0	141.0	0.02	-
														63721	141.0	143.0	0.03	-
														63722	143.0	145.0	0.05	-
														63723	145.0	147.0	0.04	-
														63724	147.0	149.0	0.03	-
														63725	149.0	151.0	0.04	-
														63726	151.0	153.0	0.57	-
														63727	153.0	155.0	0.05	-
														63728	155.0	157.0	0.07	-
														63729	157.0	159.0	0.02	-
														63730	159.0	161.0	0.01	-
														63731	161.0	163.0	0.01	-
														63732	163.0	165.0	0.05	-
														63733	165.0	167.0	0.04	-
														63734	167.0	169.0	0.04	-
														63735	169.0	171.0	0.02	-
														63736	171.0	173.0	0.01	-
														63737	173.0	175.0	0.01	-
														63738	175.0	177.0	0.02	-
														63739	177.0	179.0	0.01	-
														63740	179.0	181.0	0.01	-
														63741	181.0	183.0	0.01	-
														63742	183.0	185.3	0.02	-
														<b>end of assay information</b>				

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
108.0	185.4	<p>Granophync Feldspar Porphyry Dyke (FP). Overall colour is pinkish-orange (K-spar) with cream/white plagioclase phenocrysts throughout (30-40% of rock). Weakly to moderately magnetic. Hbl&gt;Bio (mafics ~ 5-10% of total rock). Weakly to moderately altered, generally (plagioclase altered to clay-ca ± ser, mafics altered to ca + chl ± ser ± ep) with localized strong alteration (albitization/silicification) near qtz-ca-chl-ser ± py ± cpy veins (and fracture fill) &lt;1-5 mm wide, 50-70° C.A. with disseminated py-cpy-mo-bo (py&gt;cpy) in silicified ± albitized selvages up to 5 cm wide. Hbl commonly contains (and is adjacent to) qtz grains. Mag inclusions (secondary?) to mafics common. K-spar appears intergrown with qtz (granophync texture). Moderately fractured throughout at 50-70, 30-35° ± subparallel to C.A. with clay-ca-chl-ser-spec fill/coating with 0.5-2% py-cpy locally. Rare fault gouge and slips (clay-chl-ca-ser). Local subparallel, &lt;1-2 mm wide ca ± ser ± hem veinlets. Mineralization/silicification decrease towards EOH. Cpy ± bo&gt;py below ~ 125.0 m.</p> <p><b>128.0-134.4 m:</b> Dark grey-green chilled/silicified Hbl-Feldspar Porphyry Dyke cutting in and out of moderately altered FP (locally intense sericization of fsp adjacent to spec-qtz-ca ± ser ± cpy veinlets ~40-50° C.A.). Unmineralized. Prominent fracture sets subparallel to C.A. throughout dyke with ca ± clay fill.</p> <p><b>137.8-138.0 m:</b> Short zone of ca + ser + chl ± cpy (beaded + disseminated blebs) veinlets ~ 50° C.A., 1-3 mm wide, commonly with ca drusy vugs. Intense ser-chl-ca altered selvages give overall dark green colour. Clay-ser-ca-hem slips ~ subnormal to C.A. Cpy ~ 0.5%.</p> <p><b>142.0-168.0 m:</b> Increased fracturing/well broken (15-25 per metre), subparallel ± 50-70° C.A. Increase in mineralization (cpy ≥ py) as mafic replacement in intensely altered selvages (ser-chl-ca-hem, 3-10 cm wide) to chl-clay ± ca ± ser ± py ± cpy ± lim fractures/slips and ser-chl-ca ± spec ± qtz ± cpy veinlets ~ 30-40° C.A. Locally fault gouged (clay-chl-ser-ca ± hem ± cpy ≥ py, slips at ~ 45-55°, subnormal and subparallel to C.A.) with intense ser-chl-ca-hem altered selvages up to 15 cm wide containing 0.1-1% mafic replacement cpy.</p> <p><b>151.0-154.5 m:</b> shear zone of <b>intensely</b> altered Fp (chl-ser-qtz-ca-spec). Dark blue/green to light green with clay-chl-ser-ca ± hem shear planes/slips and ca-ser ± hem veinlets at ~ 30° C.A. 0.5-2% cpy ± bo as beaded + disseminated blebs (up to 5 mm X 1 cm in diam) oriented ~ 30-40° C.A.; local clay-ser-chl-ca-hem fault gouge with subrounded clasts of FP ± cpy throughout.</p> <p><b>168.0-185.4 m:</b> Less mineralization (cpy ~ 0.05%) and fracturing of FP unit. Rare sub-mm to 2 mm wide veinlets of ca-qtz-ser ± chl ± cpy ± bo (trace) ~ 50-60° C.A. with strongly sericized/hematized selvages 0.5-2 cm wide. Local sub-mm ep-qtz veinlets ~ 60° C.A. with albitized selvages ~ 4 mm wide.</p> <p><b>179.0-180.8 m:</b> Thickly gouged (clay-ser-ca ± chl ± hem) fault breccia with &lt;1 cm in diam, strongly altered, subangular, FP clasts; wallrock strongly ser-chl-qtz-ca altered and moderately hematized to orange-brown. Slip planes ~ 40-50° C.A.</p> <p style="text-align: center;"><b>EOH 185.4 m</b></p>	0.5	0.1	0.05	0.05	2	2	3	2	3	12	-1	<b>cont'd core logging</b>				



**Diamond Drill Log**

Project: Getty North Property  
 Hole #: 96-31  
 Date: 21-Sep-96  
 Logged by: R. Whiteaker, D. Blann

Northing: 5603140  
 Easting: 642005  
 Elevation: 1668 m

-1 = absent  
 1 = background/fresh  
 2 = weak  
 3 = moderate  
 4 = strong  
 5 = intense

Core: NQ2

	Azm	Dip
Collar	090	45

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays				
From	To													Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
0	6.7	Casing/overburden												63743	6.7	9.0	0.01	-
														63744	9.0	11.0	0.05	-
6.7	87.8	Hbl-Bio-Qtz Dione (Guichon variety) Weakly equigranular, moderately magnetic Light grey with pink-black speckling of K-spar/mafics Fracture/vein controlled silicification throughout (not pervasive) gives rock a ghosted-mottled texture and a pale grey to orange (weak hematization) colour Overall alteration is moderate feldspars altered to clay-ser ± ca ± Fe-stain ± alb, mafics altered to chl-ser-ca ± spec ± ep ± mag (possible inclusions) ± cpy ± bo (rare to trace) ± py (cpy >> py) Local strong to intense chl-ser-ca-spec alteration (dark green, fracture/slip controlled) Secondary Qtz (silicification) locally persistent down section and is consistently associated with Qtz + ep ± chl ± ser ± hem ± cpy ± mo (rare) veinlets (subnormal to 60° C.A., < 2 mm wide, albitized-sericitized selvages 1-4 cm wide) Ca-ser ± chl ± spec veinlets ~ 30-40 and 50-60° C.A., 1-6 mm wide commonly with hematized ± sericitized selvages up to 5 cm wide. Moderately fractured (6-10 per metre), 50° to subnormal and 30° to subparallel to C.A. with clay-ca-chl ± ser ± spec ± lim/hem fill/coatings Local light green to bnck red clay-chl-ser ± hem (commonly intense) ± spec ± lim slips/gouge ~ 35-45 and 55-65° C.A. Trace mal ± azur locally as rims to cpy and in drusy ca ± Qtz fractures/veins (commonly associated with possible Cc.)	0.1	0.3	0.05	0.05	3	3	3	3	2	20	2	63745	11.0	13.0	0.03	-
														63746	13.0	15.0	0.01	-
														63747	15.0	17.0	0.01	-
														63748	17.0	19.0	0.02	-
														63749	19.0	21.0	0.01	-
														63750	21.0	23.0	0.01	-
														68401	23.0	25.0	0.02	-
														68402	25.0	27.0	0.01	-
														68403	27.0	29.0	0.02	-
														68404	29.0	31.0	0.01	-
														68405	31.0	33.0	0.02	-
														68406	33.0	35.0	0.03	-
														68407	35.0	37.0	0.02	-
														68408	37.0	39.0	0.03	-
														68409	39.0	41.0	0.06	-
														68410	41.0	43.0	0.03	-
														68411	43.0	45.0	0.04	-
														68412	45.0	47.0	0.03	-
														68413	47.0	49.0	0.05	-
														68414	49.0	51.0	0.02	-
														68415	51.0	53.0	0.02	-
														68416	53.0	55.0	0.02	-
														68417	55.0	57.0	0.02	-
														68418	57.0	59.0	0.05	-
														68419	59.0	61.0	0.01	-
														68420	61.0	63.0	0.01	-
														68421	63.0	65.0	0.05	-
														68422	65.0	67.0	0.08	-
														68423	67.0	69.0	0.02	-
														68424	69.0	71.0	0.01	-
														68425	71.0	73.0	0.01	-
														68426	73.0	75.0	0.01	-
														68427	75.0	77.0	0.03	-
														68428	77.0	79.0	0.01	-
														68429	79.0	81.0	0.03	-
														68430	81.0	83.0	0.01	-
														68431	83.0	85.0	0.01	-
														68432	85.0	87.0	0.01	-
														68433	87.0	89.0	0.02	-
														68434	89.0	91.0	0.01	-
														68435	91.0	93.0	0.09	-

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
87.8	92.0	Dark, medium grained Hbl-Bio Qtz Diorite (Guichon) Moderate pervasive chl-ep. and in fractures 1-3 mm, 20 per metre with calcite, trace cpy, ± py, mag/hem. Local gouge + Qtz-ca shears to 5 cm with abundant hem at 75° C A.	-1	0.2	-1	-1	1	3	2	3	2	10	-1	68436	93.0	95.0	0.03	-
														68437	95.0	97.0	<.01	-
														68438	97.0	99.0	0.01	-
														68439	99.0	101.0	<.01	-
92.0	137.0	Grey-dark green-orange medium grained (Hbl)-Bio Qtz Diorite (Guichon) Orange, Qtz rich aplite dykes 5 mm - 10 cm, 1 every 2 metres, cross cut Guichon at 45-90° C A. Bleached, clay-ser altered contacts with hem (ochre + spec). Ser increasing down section.	-1	0.1	-1	-1	2	2	2	2	2	-	-	68440	101.0	103.0	<.01	-
														68441	103.0	105.0	0.02	-
														68442	105.0	107.0	0.01	-
														68443	107.0	109.0	0.02	-
		116.0-118.0 m: Medium grained orange Qtz-Feldspar Monzodiorite dyke												68444	109.0	111.0	0.01	-
		Cpy occurs with spec-chl as fracture fillings in 1 cm clay-Qtz-ca shears locally												68445	111.0	113.0	0.01	-
														68446	113.0	115.0	0.01	-
137.0	144.5	Dark green-grey, medium grained Hbl-Bio-Qtz Diorite (Guichon) 90% mafics altered, 75% plagioclase altered. Moderately fractured, crushed with clay gouge zones, minor Qtz-calcite veins and flooding ± cpy locally.	-1	0.2	-1	-1	2	3	3	4	3	5	-	68447	115.0	117.0	0.04	-
		143.0-144.5 m: Fault zone at 30° C A. Strong pervasive ser-Qtz-calcite-clay												68448	117.0	119.0	0.03	-
														68449	119.0	121.0	0.06	-
														68450	121.0	123.0	0.03	-
														68451	123.0	125.0	<.01	-
144.5	179.2	Grey, medium grained Hbl-Bio-Qtz Diorite (Guichon-Granophyre) Fine grained mafics in a medium grained plagioclase matrix. Mafics 50% altered replaced by chl-ep-ser, locally 80%. Plagioclase cloudy, weakly sericitic, locally pale green. Local alb patches. Mag weakly replaced by hem.	-1	0.1	-1	-1	-1	2	2	2	1	30	-	68452	125.0	127.0	0.13	-
		Cpy ± bo replacing altered mafics along ser microfractures (trace) with spec. Minor gouge with hem at 30-45 and 80° C A. Ep-Qtz flooding with cpy ± bo at 161.5, 175.5 m and 178.5 m (trace).												68453	127.0	129.0	0.03	-
		<b>EOH 179.2 m</b>												68454	129.0	131.0	0.01	-
														68455	131.0	133.0	0.01	-
														68456	133.0	135.0	<.01	-
														68457	135.0	137.0	<.01	-
														68458	137.0	139.0	0.04	-
														68459	139.0	141.0	0.05	-
														68460	141.0	143.0	0.15	-
														68461	143.0	145.0	<.01	-
														68462	145.0	147.0	<.01	-
														68463	147.0	149.0	<.01	-
														68464	149.0	151.0	0.01	-
														68465	151.0	153.0	0.03	-
														68466	153.0	155.0	0.01	-
														68467	155.0	157.0	<.01	-
														68468	157.0	159.0	<.01	-
														68469	159.0	161.0	0.03	-
														68470	161.0	163.0	0.01	-
														68471	163.0	165.0	0.01	-
														68472	165.0	167.0	0.01	-
														68473	167.0	169.0	0.01	-
														68474	169.0	171.0	0.02	-
														68475	171.0	173.0	0.01	-
														68476	173.0	175.0	0.01	-
														68477	175.0	177.0	0.03	-
														68478	177.0	179.2	0.02	-
														<b>end of assay information</b>				

**Diamond Drill Log**

**Project:** Getty North Property  
**Hole #:** 96-32  
**Date:** 22-Sep-96  
**Logged by:** R. Whiteaker, D. Blann

**Northing:** 5604500  
**Easting:** 642520  
**Elevation:** 1605 m

-1 = absent  
 1 = background/fresh  
 2 = weak  
 3 = moderate  
 4 = strong  
 5 = intense

**Core:** NQ2  

<b>Azm</b>	<b>Dip</b>
090	-45

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Assays				
From	To													Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	
0	27.4	Casing/overburden												68763	27.4	30.0	0.03	-
27.4	94.3	Medium grained Hbl-Bio Qtz Diorite (Guichon variety): Light grey with pink black speckling (K-spar mafics) Weakly equigranular with K-spar and bio grains slightly larger than plagioclase, hbl and disseminated mag. Moderately fractured (6-10 per metre at 35-40, 50-65° and subparallel to C.A.) -- locally well to poorly fractured. Mafics replaced 90% by green chl-ser-qtz-calcite-mag. Plagioclase cloudy to pale yellow-green, ser-clay. Cpy ± bo occurs up to 5% in silicified shear zones, weak breccia. At 30° C.A. grey clay gouge with ep. specular hematite. Cpy weakly replacing mafics. Py decreasing abruptly down section.	1	0.2	0.1	-1	3	3	3	2	3	10	-	68764	30.0	32.0	0.04	-
														68765	32.0	34.0	0.02	-
														68766	34.0	36.0	0.03	-
														68767	36.0	38.0	0.03	-
														68768	38.0	40.0	0.03	-
														68769	40.0	42.0	0.03	-
														68770	42.0	44.0	0.02	-
														68771	44.0	46.0	0.02	-
														68772	46.0	48.0	0.02	-
														68773	48.0	50.0	0.02	-
														68774	50.0	52.0	0.02	-
94.3	104.7	Dark grey-pale green, medium grained Hbl-Bio-Qtz Diorite (Guichon) Mafics 50% replaced by chl-ser-calcite-qtz-mag. Trace cpy ± bo replacing altered mafics. Weakly fractured overall. Plagioclase cloudy - pale green.	-1	0.2	0.1	-1	1	2	2	2	2	25	-1	68775	52.0	54.0	0.02	-
														68776	54.0	56.0	0.02	-
														68777	56.0	58.0	0.01	-
														68778	58.0	60.0	0.02	-
104.7	120.0	Grey, fine grained Crowded Feldspar Porphyry. Weakly fractured, weak pervasive ser. Mag replaced by hem. 104.7-108.0 m: Chilled, very fine grained, banded ser with qtz + cpy, bo clots. Contact (top) at 45° C.A. Moderately pervasive ser. Lower contact minor chill effect at 30° C.A.	-1	0.1	-1	-1	-1	2	2	3	2	30	-1	68779	60.0	62.0	0.04	-
														68780	62.0	64.0	0.05	-
														68781	64.0	66.0	0.03	-
														68782	66.0	68.0	0.02	-
														68783	68.0	70.0	0.01	-
														68784	70.0	72.0	0.02	-
120.0	126.5	Grey-green medium grained Hbl-Bio-Qtz Diorite (Guichon). Mafics 90% replaced by chl-ser-qtz-calcite-mag (hem). Trace cpy, bo replacing altered mafics. Plagioclase cloudy to pale green ser. Several dark chloritic and clay gouge filled shears with minor cpy at 30-45° C.A.	-1	0.1	0.1	-1	1	3	2	3	2	10	-1	68785	72.0	74.0	0.02	-
														68786	74.0	76.0	0.01	-
														68787	76.0	78.0	0.03	-
														68788	78.0	80.0	0.03	-
														68789	80.0	82.0	0.03	-
126.5	131.0	Pale green-grey, fine grained feldspar porphyry. Cloudy plagioclase phenocrysts set in a fine grained matrix of sericitic feldspar and mafics. Mag altered to hem. Top contact sharp at 40° C.A. Bottom contact broken at 20° C.A.	-1	-1	-1	-1	-1	3	2	2	1	20	-	68790	82.0	84.0	0.01	-
														68791	84.0	86.0	0.11	-
														68792	86.0	88.0	0.03	-
131.0	165.0	Grey, medium grained Hbl-Bio Qtz Diorite (Guichon). Mafics generally 50% replaced by chl-ser. 1-3 m sections where moderate pervasive ser-chl (dark green)-qtz-calcite with 0.2-0.3% cpy at 135.5, 154.0, 159.0 and 163.0 m replacing mafics, and local spec-qtz-ep veins with cpy + bo at 40-60° C.A.	0.1	0.2	0.1	-1	1	2	2	2	2	10	-	68793	88.0	90.0	0.03	-
														68794	90.0	92.0	0.19	-
														68795	92.0	94.0	0.19	-
														68796	94.0	96.0	0.45	-
														68797	96.0	98.0	0.02	-
														68798	98.0	100.0	0.02	-
165.0	175.6	Grey, medium grained (Hbl)-Bio-Qtz Diorite (Guichon). Fresh with minor qtz-chl-ser filled fractures, and 5-20 mm weak sericitic envelopes.	-1	-1	-1	-1	-1	1	1	2	-1	80	-	68799	100.0	102.0	0.01	-
														68800	102.0	104.0	0.01	-
														68801	104.0	106.0	0.07	-
														68802	106.0	108.0	0.01	-
														68803	108.0	110.0	<.01	-
														68804	110.0	112.0	<.01	-
														68805	112.0	114.0	<.01	-

EOH 175.6 m

Depth (m)		Description	%Py	%Cpy	%Bof Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
<b>cont'd assay information</b>																		
														68806	114.0	116.0	<.01	-
														68807	116.0	118.0	<.01	-
														68808	118.0	120.0	0.01	-
														68809	120.0	122.0	0.02	-
														68810	122.0	124.0	0.02	-
														68811	124.0	126.0	0.01	-
														68812	126.0	128.0	<.01	-
														68813	128.0	130.0	<.01	-
														68814	130.0	132.0	<.01	-
														68815	132.0	134.0	0.02	-
														68816	134.0	136.0	0.12	-
														68817	136.0	138.0	0.03	-
														68818	138.0	140.0	0.02	-
														68819	140.0	142.0	0.02	-
														68820	142.0	144.0	0.02	-
														68821	144.0	146.0	0.02	-
														68822	146.0	148.0	0.02	-
														68823	148.0	150.0	0.02	-
														68824	150.0	152.0	0.03	-
														68825	152.0	154.0	0.08	-
														68826	154.0	156.0	0.04	-
														68827	156.0	158.0	0.02	-
														68828	158.0	160.0	0.57	-
														68829	160.0	162.0	0.02	-
														68830	162.0	164.0	0.04	-
														68831	164.0	166.0	0.01	-
														68832	166.0	168.0	0.02	-
														68833	168.0	170.0	0.02	-
														68834	170.0	172.0	0.01	-
														68835	172.0	174.0	0.02	-
														68836	174.0	175.6	0.01	-
<b>end of assay information</b>																		

Diamond Drill Log														Azim		Dip		
Project: Getty North Project		Northing: 5604500		-1 = absent		Core: NQ2		Collar		270		-45						
Hole #: 96-33		Easting: 642520		1 = background/fresh														
Date: Sept 26, 196		Elevation: 1605 m		2 = weak		4 = strong												
Logged by: D Blann				3 = moderate		5 = intense												
														Assays				
Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Suff
From	To														From	To		
0	24.4	Casing												68837	24.4	28.0	0.03	-
														68838	28.0	30.0	0.04	-
24.4	28.0	Grey-pink-orange Hbl-Bio-Qtz Diorite (Guichon), yellow lim. gouge strongly broken, faulted	0.1	0.1	-1	-1	1	3	2	2	2	0	1	68839	30.0	32.0	0.03	-
														68840	32.0	34.0	0.03	-
														68841	34.0	36.0	0.01	-
28.0	48.5	Grey-green Hbl-Bio-Qtz Diorite (Guichon). Strongly broken, faulted at 20 & 40° & subparallel to C.A. Mafics 80% replaced by chl-ser-qtz-mag/hem. Plagioclase 90% replaced by ser-clay (pale-dark green). Earthy hem-chl filled fractures.	-1	-1	-1	-1	1	4	2	3	3	5	1	68842	36.0	38.0	<.01	-
														68843	38.0	40.0	0.02	-
														68844	40.0	42.0	<.01	-
														68845	42.0	44.0	<.01	-
48.5	61.0	Grey Hbl-Bio-Qtz Diorite (Guichon). Mafics 50-75% replaced by chl-ep-ser. Plagioclase cloudy, fresh. Minor chl-ser-calcite filled fractures at subparallel to 45° C.A.	-1	-1	-1	-1	1	2	2	2	1	30	1	68846	44.0	46.0	0.01	-
														68847	46.0	48.0	0.06	-
														68848	48.0	50.0	0.01	-
61.0	71.0	Dark green-grey Hbl-Bio-Qtz Diorite (Guichon). Soft, strongly broken. Moderate gouge locally subparallel to 45° C.A. Mafics 90% replaced by chl-ep-ser-hem. Plagioclase 80% replaced by pale green ser + clays. Earthy hem with chl-ep fills fractures 1-10 mm.	-1	-1	-1	-1	1	4	2	3	3	5	1	68849	50.0	52.0	0.01	-
														68850	52.0	54.0	0.01	-
														68851	54.0	56.0	0.01	-
														68852	56.0	58.0	0.01	-
														68853	58.0	60.0	<.01	-
71.0	115.0	Grey, medium grained, Hbl-Bio-Qtz Diorite (Guichon). Mafics 50% replaced by chl-ser-qtz. Plagioclase cloudy, locally pale green ser. Weakly fractured, filled by chl-ep-ser-calcite subparallel to 45° C.A. Local patches of alb with rare cpy, bo replacing altered mafics.	-1	-1	-1	-1	-1	2	1	2	1	40	1	68854	60.0	62.0	<.01	-
														68855	62.0	64.0	<.01	-
														68856	64.0	66.0	<.01	-
														68857	66.0	68.0	0.01	-
														68858	68.0	70.0	0.08	-
115.0	160.5	Grey-green medium grained Hbl-Bio-Qtz Diorite (Guichon). Mafics 80% replaced by chl-ser-qtz-calcite. Plagioclase cloudy-pale green ser-calcite (30%). Alteration and fracturing increasing down section. 119.0 m: 5 mm qtz-cpy vein subparallel to C.A., strong orange Fe stained plagioclase. 127.0-128.0 m: Fault at 20° C.A. 153.5-155.0 m: Fault at 20° C.A. Strong ser-clay. Mag replaced by hem, rare NCu.	-1	-1	-1	-1	-1	3	2	3	2	10	1	68859	70.0	72.0	0.01	-
														68860	72.0	74.0	0.01	-
														68861	74.0	76.0	0.02	-
														68862	76.0	78.0	0.02	-
														68863	78.0	80.0	0.01	-
														68864	80.0	82.0	0.02	-
														68865	82.0	84.0	0.02	-
														68866	84.0	86.0	0.02	-
160.5	184.0	Pale green medium grained Hbl-Bio-Qtz Diorite. Strong pervasive ser-clay. Mag replaced by hem. Strong fractured, healed with ser-clay. Weak breccia. Local qtz-ca-ser ± cpy veins (3-6 mm wide ~ 30° C.A.) with dark green intensely ser-chl selvages to 3 cm wide. Subparallel ser-clay filled fractures throughout. 163.0-166.5 m: Moderate brecciation, intense clay-ca-ser-qtz alteration (healed) with weak hem overprinting locally. Subparallel shears healed/filled with clay-ca-qtz-ser-hem veins locally containing trace bo as sub-mm disseminated blebs. Pale green/grey with patches of cream-brown clay. 183.7 m: Light green ser-clay-ca-chl-hem fault gouge with slips ~ 30° C.A. 179.0-184.0 m: Local subparallel to 30° C.A., orange Fe-stained bands 1-2 cm wide (hematization?) with trace cpy ± bo as fine disseminations replacing mafics	-1	-1	-1	-1	2	4	1	2	3	20	1	68867	86.0	88.0	0.01	-
														68868	88.0	90.0	0.01	-
														68869	90.0	92.0	0.02	-
														68870	92.0	94.0	0.02	-
														68871	94.0	96.0	0.02	-
														68872	96.0	98.0	0.02	-
														68873	98.0	100.0	0.01	-
														68874	100.0	102.0	0.01	-
														68875	102.0	104.0	0.01	-
														68876	104.0	106.0	0.01	-
														68877	106.0	108.0	0.01	-
														68878	108.0	110.0	0.02	-
														68879	110.0	112.0	0.01	-
														68880	112.0	114.0	0.01	-

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Suff
From	To														From	To		
184.0	228.3	Light grey to orange/pale grey medium grained Hbl-Bio-Qtz Diorite (Guichon). Moderate to strong alteration (increases down section) feldspars altered to ser-clay-ca ± Fe-stain, mafics altered to ser-chl-ca ± ep ± hem ± mag. Pink-red Fe-stain speckling common throughout. Moderately magnetic. Weak pervasive secondary qtz -- increasing down section. Overall, poorly fractured (4-6 per metre, subparallel to 30°, 40-45° and subnormal to C.A. with chl-clay-ser-ca-ep-hem fill) with local zones well broken. Local ca-qtz-ser- ± ep ± hem veinlets ~ 35-50° C.A., 1-4 mm wide. Rare subrounded sloped fragments of Bethlehem phase -- dark grey, fine grained granodiorite, unmineralized. Local tour (?)-qtz ± ser ± ca ± cpy ± bo (rare) veinlets 3-6 mm wide, ~ 20-30° C.A. commonly with bright orange Fe-stained selvages to ~ 1 cm. General increase in alteration -- pale orange-green (strong to intense ser-ca-Fe-stain ± chl-secondary qtz.) as well as greater abundance of subparallel to 30° C.A. ca-ser ± hem ± clay ± py veinlets with hematized selvages/envelopes and clay-ser-chl-ca slips ~ 30° C.A. 208.4 m: Ser-ca ± qtz ± hem veinlet 4 mm wide ~ 40° C.A. with finely disseminated cpy throughout 212.5-219.0 m: Parallel to subparallel ser-ca-qtz ± hem ± chl veins 0.5-2 cm wide -- sheared parallel to C.A. with chl-ser-clay-hem slips. 226.0 m: Shearing 20° C.A. with clay-ca-ser-hem slips fill and ca-hem-ep-qtz veining 2-3 cm wide along walls (possibly shear related). 20 cm of Feldspar porphyry (intensely altered deep orange) up section.	-1	0.05	0.02	-1	2	3	3	3	2	26	-1	68881	114.0	116.0	0.01	-
														68882	116.0	118.0	0.02	-
														68883	118.0	120.0	0.07	-
														68884	120.0	122.0	0.03	-
														68885	122.0	124.0	0.01	-
														68886	124.0	126.0	0.01	-
														68887	126.0	128.0	0.01	-
														68888	128.0	130.0	0.01	-
														68889	130.0	132.0	0.01	-
														68890	132.0	134.0	0.01	-
														68891	134.0	136.0	0.01	-
														68892	136.0	138.0	0.01	-
														68893	138.0	140.0	0.01	-
														68894	140.0	142.0	0.01	-
														68895	142.0	144.0	0.01	-
														68896	144.0	146.0	0.01	-
														68897	146.0	148.0	0.01	-
														68898	148.0	150.0	0.01	-
														68899	150.0	152.0	0.01	-
														68900	152.0	154.0	0.01	-
														68901	154.0	156.0	0.01	-
														68902	156.0	158.0	0.01	-
228.3	232.4	Intensely altered Hbl-Bio-Feldspar Porphyry. Light orange to pale green-grey. Pervasive ser-ca-clay-hem-qtz alteration. Feldspars chalky white (clay-ca ± ser, mafics ser-ca ± spec ± py (rare)). Non-magnetic. Moderately fractured (4-6 per metre). Upper/lower contacts ~ 30° C.A. Locally feldspars show a strong trachytic alignment subparallel to C.A. Ca ± qtz ± ser ± py veinlets <3 mm wide, ~ 40-50° C.A. throughout.	0.01	-1	-1	-1	2	2	3	2	3	22	-1	68903	158.0	160.0	0.01	-
														68904	160.0	162.0	0.01	-
														68905	162.0	164.0	0.02	-
														68906	164.0	166.0	0.01	-
														68907	166.0	168.0	0.01	-
														68908	168.0	170.0	0.01	-
														68909	170.0	172.0	0.01	-
232.4	236.5	Strongly altered Hbl-Bio-Qtz-Diorite (Guichon). Pale green with local orange Fe-stained selvages to ca-qtz-hem-ser ± cpy (rare) is ~ 40-50° C.A., 5 mm-1 cm wide. Feldspars altered to ser-ca-clay, mafics altered to ser-ca-chl-hem ± chl. Weak brecciation towards end of interval with ser-ca-qtz ± hem fill. Lower contact ~ 45-55° C.A., with black clay-ca-py (very fine disseminated coating) slip ~ 45° C.A. Local intense hem within fractures/veins -- deep red-purple.	0.02	-1	-1	-1	1	4	3	2	3	25	-1	68910	172.0	174.0	0.01	-
														68911	174.0	176.0	0.02	-
														68912	176.0	178.0	0.01	-
														68913	178.0	180.0	0.01	-
														68914	180.0	182.0	0.01	-
														68915	182.0	184.0	0.02	-
														68916	184.0	186.0	0.02	-
														68917	186.0	188.0	0.01	-
														68918	188.0	190.0	0.01	-
														68919	190.0	192.0	0.01	-
														68920	192.0	194.0	0.01	-
														68921	194.0	196.0	0.02	-
														68922	196.0	198.0	0.10	-
														68923	198.0	200.0	0.01	-
														68924	200.0	202.0	0.03	-
														68925	202.0	204.0	0.01	-
														68926	204.0	206.0	0.02	-
														68927	206.0	208.0	0.02	-
														68928	208.0	210.0	0.04	-
														68929	210.0	212.0	0.01	-
														68930	212.0	214.0	0.01	-
														68931	214.0	216.0	0.01	-
														68932	216.0	218.0	0.01	-

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
236.5	284.4	Bright to pale orange-brown (Bio)-Hbl-Feldspar Porphyry Pervasive hematization throughout Non-magnetic. 3-8% mafics, 70-80% plagioclase 10-20% feldspar + mafics groundmass Moderately to strongly altered -- feldspars altered to clay ± ser and are Fe-stained throughout, mafics altered to ser-clay ± spec ± chl ± cpy (rare) Moderately fractured -- 6-10 per metre average, ~ subnormal, 40-45 and 20-30° C.A. with clay + ser ± hem ± ca fill Local ca ± ser ± hem ± qtz ± cpy-bo (both rare) veinlets 50° to subnormal C.A. < 1.5 mm wide decreasing in abundance down section. Freely disseminated spec throughout -- commonly as irregularly shaped blebs up to 1 cm in approximated diam. Local clay-ser ± hem slips ~ 40-50° C.A. Local chalky-pale orange clay-ser-ca ± hem fault gouge with slips 35-50° C.A.	0.01	-1	-1	-1	1	4	2	1	4	15	-1	68933	218.0	220.0	0.01	-
														68934	220.0	222.0	0.04	-
														68935	222.0	224.0	0.01	-
														68936	224.0	226.0	0.02	-
														68937	226.0	228.0	0.04	-
														68938	228.0	230.0	0.01	-
														68939	230.0	232.0	0.01	-
														68940	232.0	234.0	0.03	-
														68941	234.0	236.0	0.09	-
														68942	236.0	238.0	0.04	-
														68943	238.0	240.0	0.01	-
														68944	240.0	242.0	< 0.01	-
														68945	242.0	244.0	< 0.01	-
														68946	244.0	246.0	0.01	-
														68947	246.0	248.0	0.01	-
														68948	248.0	250.0	0.01	-
														68949	250.0	252.0	0.01	-
														68950	252.0	254.0	0.01	-
														68951	254.0	256.0	0.01	-
														68952	256.0	258.0	0.01	-
														68953	258.0	260.0	0.02	-
														68954	260.0	262.0	0.01	-
														68955	262.0	264.0	0.02	-
														68956	264.0	266.0	0.01	-
														68957	266.0	268.0	0.01	-
														68958	268.0	270.0	0.01	-
														68959	270.0	272.0	< 0.01	-
														68960	272.0	274.0	0.01	-
														68961	274.0	276.0	< 0.01	-
														68962	276.0	278.0	< 0.01	-
														68963	278.0	280.0	0.01	-
														68964	280.0	282.0	0.01	-
														68965	282.0	284.4	< 0.01	-
														end of assay information				

Diamond Drill Log														Assays				
Project: Getty North		Northing: 5603490		-1 = absent		Core: NQ2		Azim		Dip								
Hole #: 96-34		Easting: 641965		1 = background/fresh				Collar		270		-45						
Date: 27-Sep-96		Elevation: 1650 m		2 = weak		4 = strong												
Logged by: D. Blann/R. Whiteaker				3 = moderate		5 = intense												
Depth (m)	Description	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)	%Cu Total	%Cu Non Sulf	%Mo	
From	To												Number	From	To			
0	11.0												68479	11.0	13.0	0.01	-	<.001
													68480	13.0	15.0	0.01	-	<.001
11.0	20.5												68481	15.0	17.0	0.02	-	<.001
													68482	17.0	19.0	0.07	-	<.001
													68483	19.0	21.0	0.22	-	<.001
													68484	21.0	23.0	0.44	-	<.001
													68485	23.0	25.0	0.63	-	0.003
20.5	31.0												68486	25.0	27.0	0.07	-	<.001
													68487	27.0	29.0	0.05	-	<.001
													68488	29.0	31.0	0.02	-	<.001
													68489	31.0	33.0	0.01	-	<.001
													68490	33.0	35.0	0.04	-	<.001
													68491	35.0	37.0	0.05	-	<.001
31.0	147.2												68492	37.0	39.0	0.02	-	<.001
													68493	39.0	41.0	0.02	-	<.001
													68494	41.0	43.0	0.01	-	<.001
													68495	43.0	45.0	0.01	-	<.001
													68496	45.0	47.0	0.01	-	<.001
													68497	47.0	49.0	0.01	-	<.001
													68498	49.0	51.0	0.21	-	<.001
													68499	51.0	53.0	0.01	-	<.001
													68500	53.0	55.0	0.03	-	<.001
													68501	55.0	57.0	0.01	-	<.001
													68502	57.0	59.0	0.05	-	<.001
													68503	59.0	61.0	0.06	-	<.001
													68504	61.0	63.0	0.06	-	<.001
													68505	63.0	65.0	0.12	-	<.001
													68506	65.0	67.0	0.01	-	<.001
													68507	67.0	69.0	0.06	-	0.001
													68508	69.0	71.0	0.07	-	<.001
													68509	71.0	73.0	0.05	-	<.001
													68510	73.0	75.0	0.03	-	<.001
													68511	75.0	77.0	0.03	-	<.001
													68512	77.0	79.0	0.02	-	<.001
													68513	79.0	81.0	0.02	-	<.001
													68514	81.0	83.0	0.08	-	<.001
													68515	83.0	85.0	0.04	-	<.001
													68516	85.0	87.0	0.02	-	<.001
													68517	87.0	89.0	0.04	-	<.001
													68518	89.0	91.0	0.15	-	0.001
													68519	91.0	93.0	0.11	-	<.001



Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	% Mo
From	To														From	To			
	69.0-71.5 m	Bright orange-yellow lim and trace mal on fractures Moderate to strong qtz-chl-ser-ep-hem/spec alteration -- dark grey-green mottled colour/texture												68520	93.0	95.0	0.09	-	<.001
														68521	95.0	97.0	0.11	-	0.001
	74.0-89.0 m	Increased competency of Guichon (2-5 fractures per metre) weak alteration												68522	97.0	99.0	0.11	-	<.001
														68523	99.0	101.0	0.11	-	<.001
		81.3-82.4 m 0.5-1% cpy (± py) finely disseminated in qtz-ca ± ep ± chl ± ser veinlets ~ 30° C.A. and on subparallel clay-chl-ser ± ca fractures (both with weak to moderate albic selvages) Note envelope to veinlets contains ep blebs with pink-rose haloes -- possibly hydrothermal garnet												68524	101.0	103.0	0.12	-	0.001
														68525	103.0	105.0	0.09	-	<.001
														68526	105.0	107.0	0.11	-	<.001
														68527	107.0	109.0	0.28	-	0.002
		89.5-90.0 m: Alb flooding with disseminated cpy Grey-black clay-chl-sulphide (smeared py?) slips ~ 30° C.A. Abundant qtz-chl-ep ± ser alteration of wallrock minerals 1-2% cpy												68528	109.0	111.0	0.11	-	0.003
														68529	111.0	113.0	0.05	-	0.002
														68530	113.0	115.0	0.16	-	0.001
														68531	115.0	117.0	0.04	-	0.001
														68532	117.0	119.0	0.05	-	0.001
														68533	119.0	121.0	0.03	-	0.001
														68534	121.0	123.0	0.03	-	0.001
														68535	123.0	125.0	0.03	-	<.001
		102.0 m: Cpy-py-mo (trace) disseminated in qtz-ep-chl veinlet ~40° C.A. -- alb-ized selvage/wallrock to 3 cm												68536	125.0	127.0	0.03	-	<.001
														68537	127.0	129.0	0.04	-	0.001
		103.0-109.5 m: Compositional variation of Guichon (possible Bethlehem block) -- fine to medium grained, moderately altered dark grey (Bio)-Hbl-Qtz Diorite, feldspars altered to alb ± ser ± clay, mafics altered to chl ± ser ± ca ± cpy ± py (cpy>py) Scattered 1-3 mm wide subrounded bio clots common throughout. Qtz-chl-alb ± ep ± ca ± ser veinlets (<1-8 mm wide, 20-40° C.A.) throughout contain blebs/disseminations of cpy (1-3% for sub-interval)-mo (<0.5% for sub-interval) with envelopes/selvages of alb-ep-chl-ep ± py ± mo 3 mm-1 cm wide (locally hematized)												68538	129.0	131.0	0.08	-	0.005
														68539	131.0	133.0	0.03	-	0.001
														68540	133.0	135.0	0.01	-	<.001
														68541	135.0	137.0	0.04	-	<.001
														68542	137.0	139.0	0.07	-	<.001
														68543	139.0	141.0	0.02	-	0.001
														68544	141.0	143.0	0.11	-	0.001
														68545	143.0	145.0	0.02	-	0.006
														68546	145.0	147.0	0.05	-	0.001
														68547	147.0	149.0	0.06	-	0.003
														68548	149.0	151.0	0.03	-	0.001
														68549	151.0	153.0	0.01	-	<.001
														68550	153.0	155.0	0.02	-	0.003
														68551	155.0	157.0	0.02	-	0.002
														68552	157.0	159.0	0.05	-	0.009
														68553	159.0	161.0	0.04	-	0.009
														68554	161.0	163.0	0.05	-	0.003
														68555	163.0	165.0	0.01	-	<.001
														68556	165.0	167.0	0.01	-	<.001
														68557	167.0	169.0	0.01	-	<.001
														68558	169.0	171.0	0.04	-	<.001
														68559	171.0	173.0	0.01	-	<.001
														68560	173.0	175.0	0.01	-	<.001
														68561	175.0	177.0	0.01	-	<.001
														68562	177.0	179.0	0.01	-	<.001
														68563	179.0	181.0	0.01	-	<.001
														68564	181.0	183.0	0.01	-	<.001
														68565	183.0	184.8	0.01	-	<.001
														end of assay information					

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo
From	To														From	To			
147.2	184.7	<p>Medium grained (Hbl)-Bio-Feldspar Porphyry (FP1?). Crowded-weakly equigranular texture with pinkish-translucent K-spar-qtz-plag-mag groundmass. Weak to moderate down section (feldspars altered to clay ± ser, mafics altered to chl-ca-ser ± py&gt;cpy (rare)), more commonly strongly altered (feldspars altered to ser-clay-Fe-stain ± alb, mafics altered to ser-chl-mag-ca ± py). Moderately magnetic.</p> <p>Overall moderately to well fractured/broken (10-20 + per metre) ~ 35-55° ± subparallel C.A. with chl-ser-clay-hem ± mo ± py (&gt;cpy) coating/fill (Note: mo smeared on "slipped" fractures ~ 40-50° C.A.). Local subparallel qtz-ep-chl-cpy-py veins -- possibly post-shear fill. Sub-mm ca ± ser veinlets ~ 40-50° C.A. throughout. Local orange aplitic/monzonitic feldspar porphyry dykelets ~ 30-45° C.A. 2-20 cm wide, unmineralized.</p> <p><b>147.2-162.5 m:</b> Fault brecciated/gouged and sheared FP (strong ser-Fe-stain-clay ± ca ± chl alteration). Well broken throughout. Strong hematization locally. Shearing/slips (clay-ser-chl-ca-py ± hem) ~ subparallel-30°, 45-55° C.A. Fault breccia poorly heated with clay-ser-ca ± hem ± chl ± py gouge between crushed/milled subangular fragments of FP. Py&gt;&gt;cpy mafics replacement throughout (0.5-1% total). Local sugary-white argillic altered gouge/breccia-clay-ca-qtz-py ± cpy (crushed and dispersed in subparallel trails throughout.) Rare mo smeared on ~ 50° C.A. slips.</p> <p><b>162.5-176.0 m:</b> Dark grey to FP. Feldspars translucent-ghosted lending rock a pervasive mottled glassy texture. Very hard. Local ep-qtz-cpy-py veining (subparallel), freely disseminated mag throughout. Decrease in py-cpy (py&gt;cpy) -- &lt; 0.05% cpy.</p> <p style="text-align: center;"><b>EOH 184.7 m</b></p>	0.5	0.05	-1	0.03	2	3	3	2	3	5	-1		<b>cont'd core logging</b>				

## Diamond Drill Log

Project: Getty North Property  
 Hole #: 96-35  
 Date: 23-Oct-96  
 Logged by: R. Whiteaker

Northing: 5604190  
 Easting: 641610  
 Elevation: 1760 m  
 Length: 192.6 m

- 1 = absent  
 1 = background/fresh  
 2 = weak  
 3 = moderate  
 4 = strong  
 5 = intense

Core: NQ2

	Azm	Dip
Collar	045	-55

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays					
From	To													Sample Number	Interval (m) From To		%Cu Total	%Cu Non Sulf	%Mo
0	3.7	Overburden/casing												68566	83.0	85.0	0.03	<.01	0.001
3.7	83.5	Tertiary Volcanics	-1	-1	-1	-1	-1	-1	-1	-1	-1			68567	85.0	87.0	0.03	<.01	0.001
		3.7-28.7 m: Dark grey-brown (Bio)-Hbl-Qtz (± zeolite?) Phync Basalt Moderately fractured (6-10 per metre at 30-50° C.A., with weak clay-hem coatings) Unaltered, <b>weakly</b> weathered. No slips/gouge. Moderately magnetic.												68568	87.0	89.0	0.03	<.01	0.001
		28.7-36.5 m: Pervasive deep brick-red to yellow-brown hem/lim stained/oxidized (Bio)-Hbl-Qtz Basalt. Soft, easily crumbled, <b>weakly</b> magnetic. Local pale lime-green interstitial clay (?) fill where weathering has created cavities in rock. Becoming fragmental towards end of sub-interval.												68569	89.0	91.0	0.05	<.01	0.001
		36.5-39.0 m: Fragmental clastic rock (possibly pyroclastic or sedimentary in origin) Upper contact ~ 40° C.A. Multilitic-Dacite, mafic-intermittent volcanics, granitic, -- average 3 mm-1 cm in approximate diam, angular to subangular. Primarily clast supported. Local hem oxidation on fractures/in clasts. Weak matrix possibly dacitic -- tuffaceous in composition.												68570	91.0	93.0	0.06	<.01	0.001
		39.0-83.5 m: Light brown to light grey, fine grained detrital/fragmental volcanics (possibly pyroclastic (Rhyo)-dacite or sediment origin). Feldspar-Qtz (crystals commonly broken) -bio-hbl ± mag composition (possibly rhyo-dacitic). Local angular fragments of granodiorite and (rhyo)-dacite composition throughout, increasing down section, 2 mm-1 cm in approximate diam. Unaltered, unweathered (hem stain near top of sub-interval). Local stratification of fine-coarser grained units (?) throughout ~ 30° C.A. Graded overall -- fining upwards. Gritty, sandy texture. Weakly fractured ~ 30-40° C.A., 2-4 per metre. Weak lim stain near end of sub-interval.												68571	93.0	95.0	0.03	<.01	0.001
		78.0-83.5 m: Local angular fragments of weakly altered Guichon Qtz Diorite (Hbl-Bio) 8-15 cm in approximate diam. with trace of NCu on fractures.												68572	95.0	97.0	0.04	<.01	0.001
														68573	97.0	99.0	0.03	<.01	0.001
														68574	99.0	101.0	0.12	<.01	0.001
														68575	101.0	103.0	0.25	0.02	0.001
														68576	103.0	105.0	0.12	<.01	0.004
														68577	105.0	107.0	0.15	<.01	0.004
														68578	107.0	109.0	0.34	0.01	0.004
														68579	109.0	111.0	1.10	0.61	0.004
														68580	111.0	113.0	1.71	1.17	0.004
														68581	113.0	115.0	0.74	0.38	0.004
														68582	115.0	117.0	0.32	0.05	0.004
														68583	117.0	119.0	0.40	0.23	0.004
														68584	119.0	121.0	0.50	0.26	0.004
														68585	121.0	123.0	0.31	0.06	0.004
														68586	123.0	125.0	0.22	0.04	0.007
														68587	125.0	127.0	0.67	0.41	0.007
														68588	127.0	129.0	0.84	0.10	0.007
														68589	129.0	131.0	1.60	0.05	0.007
														68590	131.0	133.0	0.07	0.01	0.007
83.5	89.0	Medium grained, light grey (speckled pink-black) Hbl-Bio Qtz Diorite (Guichon). Weakly magnetic. Upper contact ~ 20° C.A. Weak to moderate alteration (chl-ser-clay-ep-ca-hem) Brecciated/crushed throughout, poorly healed with clay-chl-ser ± ca matrix/gouge (~30-40° C.A.), 0.1-0.5% NCu mafic replacement throughout and on fractures ~ 30-50° C.A.	-1	-1	-1	-1	-1	2	1	2	3	10	-1	68591	133.0	135.0	0.10	0.01	0.007
														68592	135.0	137.0	0.16	0.02	0.007
														68593	137.0	139.0	1.08	0.04	0.007
														68594	139.0	141.0	0.81	0.05	0.007
														68595	141.0	143.0	0.42	0.05	0.007
														68596	143.0	145.0	0.47	0.05	0.001
														68597	145.0	147.0	0.20	0.03	0.001
89.0	131.0	Strongly brecciated Guichon (Hbl)-Bio Qtz Diorite. Angular to subrounded fragments of Guichon (< 1 -20 cm in diam. -- average 0.5-2 cm -- crushed, <b>weakly</b> milled), moderately to strongly altered (ser-chl-clay ± ca ± spec). Strong pervasive yellow-brown lim throughout -- primarily in matrix/cement (poorly healed with clay-commingled/crushed wallrock). Local gouge/slips (clay-lim) ~ 25-35° C.A. Note: clasts are non-magnetic. Clast to matrix supported (variable). Ca absent to rare.	0.05	-1	-1	0.01	-1	3	1	3	4	<.4	2	68598	147.0	149.0	0.16	0.01	0.001
														68599	149.0	151.0	0.25	0.02	0.001
														68600	151.0	153.0	0.14	0.02	0.001
														73601	153.0	155.0	0.15	0.01	0.001
														73602	155.0	157.0	0.19	0.02	0.001
														73603	157.0	159.0	0.12	0.01	0.001

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	% Mo			
From	To														From	To						
131.0	139.0	<p><b>92.5-100.5 m:</b> Block (?) of moderately to strongly altered (ser-chl-ca-clay-ser) pale green-yellow Guichon Qtz Diorite Sub-mm limonitic ca-ser ± chl veinlets ~40-50° ± subparallel to C.A. throughout. Alteration becoming intense down section (ser-ca-spec-chl) to a deep green/yellow-brown (due to pervasive lim) 13% RQD. Locally brecciated/crushed with clay-lim-ca-ser gouge/matrix/slips (~30° C.A.). Trace NCu on fractures/mafic replacement locally.</p> <p><b>110.5 m:</b> Bright yellow limonitic clay gouge ~ 30° C.A., approximately 5 cm wide.</p> <p><b>110.5-113.0 m:</b> Moderate mal/az interstitial to brecciated Guichon fragments and qtz veins (breccia 30-40° C.A.) Strong lim-hem. Possibly Cc with mal/az and as fracture fill. Strong lim-hem-clay weathering (gouge?) locally -- soft, very crumbly/mushy.</p> <p><b>113.0-114.0 m:</b> Possible Bio-Qtz-Fsp Porphyry Dyke (or altered Qtz-Diorite?) -- intensely altered (ser-clay) to a pale white-green colour.</p> <p><b>114.0-117.3 m:</b> 0.5-1 cm wide qtz veins (commonly brecciated) ~ 45-55° C.A. throughout. Weak to moderately brecciated overall -- fragments more angular, larger and less altered (weak to moderate ± strong clay-ser-chl ± hem). Strong weathering/oxidation -- abundant clay-lim/hem ± ser between clasts as poor matrix/breccia fill.</p> <p><b>116.0-116.7 m:</b> Strong, altered, moderately brecciated Guichon Qtz Diorite (clay-ser ± chl ± hem) with weak pervasive (fracture controlled) mal/az throughout giving rock a pale green-blue colour. Lim/hem on fractures/in matrix.</p> <p><b>117.3-128.6 m:</b> 80-90% Bio-Hbl (?) Feldspar Porphyry dyke, 10-20% Guichon Qtz Diorite. Well brecciated/broken, strong to intensely altered (clay-ser ± spec/hem ± chl). Strong lim throughout -- overall yellow-brown colour (chalky white to pale green where alteration is intense). Local pervasive mal/az oxidation giving very pale aqua-green colour. Local qtz veining ~ 20-40° C.A., 0.5-2 cm wide, commonly brecciated. <i>Note:</i> where brecciation is strongest -- poorly healed, well weathered/rotted limonitic clay ± ser fill/matrix (breccia fragments approximately angular).</p> <p>Trace NCu and py (± possibly Cc) ± mo fractures/mafic replacement down section (primarily within Fp unit). Intense deep brown-red lim fractures throughout 20-40° C.A.</p> <p><b>128.6-131.0 m:</b> Intense pervasive argillic alteration (clay-ser-py-qtz) of brecciated crushed/milled Feldspar Porphyry Dyke and lesser Guichon Qtz Diorite. Chalky white-grey, soft, poorly healed clay texture. 1-3% py evenly disseminated throughout, 0.1-1% mo disseminations and as 1-3 mm wide trails/slip fill ~ 30-40° C.A. Subparallel qtz-cpy-mo veinlets (&lt;4 mm wide) -- 0.1-0.5% cpy overall. Clay-lim slip ~ 40° C.A. at upper sub-interval contact (?). Mo-cpy and alteration intensity decreasing down sub-interval.</p>																				
			73604	159.0	161.0	0.11	0.02	0.001														
			73605	161.0	163.0	0.13	0.02	0.001														
			73606	163.0	165.0	0.10	0.02	0.001														
			73607	165.0	167.0	0.11	0.01	0.001														
			73608	167.0	169.0	0.21	0.03	0.001														
			73609	169.0	171.0	0.09	0.01	0.001														
			73610	171.0	173.0	0.12	0.02	0.001														
			73611	173.0	175.0	0.17	0.02	0.001														
			73612	175.0	177.0	0.15	0.02	0.001														
			73613	177.0	179.0	0.10	0.01	0.001														
			73614	179.0	181.0	0.17	0.02	0.001														
			73615	181.0	183.0	0.14	0.01	0.001														
			73616	183.0	185.0	0.21	0.02	0.001														
			73617	185.0	187.0	0.18	0.01	0.001														
			73618	187.0	189.0	0.09	<.01	0.001														
			73619	189.0	191.0	0.09	<.01	0.001														
			73620	191.0	192.6	0.08	<.01	*only 5														
			<b>sludge</b>																			
					<i>from (ft)</i>	<i>to (ft)</i>	<i>from (m)</i>	<i>to (m)</i>	<b>% tot Cu</b>													
					348	358	106.1	109.1	<b>0.09</b>													
		358	368	109.1	112.2	<b>0.15</b>																
		368	378	112.2	115.2	<b>0.10</b>																
		378	388	115.2	118.3	<b>0.11</b>																
		388	398	118.3	121.3	<b>0.17</b>																
		398	408	121.3	124.4	<b>0.09</b>																
		408	418	124.4	127.4	<b>0.09</b>																
		418	428	127.4	130.4	<b>0.54</b>																
		428	438	130.4	133.5	<b>0.74</b>																
		438	448	133.5	136.5	<b>0.75</b>																
		448	458	136.5	139.6	<b>0.58</b>																
		458	468	139.6	142.6	<b>0.56</b>																
		468	478	142.6	145.7	<b>0.72</b>																
		478	488	145.7	148.7	<b>0.52</b>																
		488	498	148.7	151.8	<b>0.43</b>																
		498	508	151.8	154.8	<b>0.42</b>																
		508	518	154.8	157.9	<b>0.36</b>																
		518	528	157.9	160.9	<b>0.38</b>																
		528	538	160.9	164.0	<b>0.34</b>																
		538	548	164.0	167.0	<b>0.30</b>																
		548	558	167.0	170.1	<b>0.33</b>																
		558	568	170.1	173.1	<b>0.31</b>																

Depth (m)		Description	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo																																							
From	To														From	To																																										
139.0	176.6	<p>Light grey-medium grey, medium grained Hbl-Bio-Qtz Diorite (Guichon variety); Moderately magnetic. Moderately to strongly (up section) altered (feldspars weakly altered to clay ± ser [translucent colour-texture], mafics altered to chl-mag-spec-ser ± py ± cpy ± NCu). Py&gt;&gt;cpy&gt;NCu&gt;mo mafic replacement/fracture fill. Lesser mo altered to clay ± ser [translucent colour-texture], mafics altered to chl-mag-spec-ser ± py ± cpy ± NCu). Py&gt;&gt;cpy&gt;NCu&gt;mo mafic replacement/fracture fill. Lesser mo down section. Well broken/fractured and moderately brecciated/crushed throughout. Local clay-lim-ser-comminuted Guichon, py ± cpy gouge, slips (+ fracture sets) ~ 20-40° C.A. Weakly to moderately limonitic (increasing down section); clay-chl-ser-py ± cpy filled fractures. Local limonitic qtz-mag-ser-py ± cpy veinlets ~ 30-40° C.A., 1-3 mm wide. Note: 1-3% disseminated/mafic replaced mag.</p> <p><b>150.3-152.0 m:</b> Strongly broken/fractured Bio-Hbl (?) Feldspar Porphyry Dyke (0% RQD). Pale grey. Strongly altered (feldspars altered to clay-ser, mafics altered to chl-ser ± mag ± clay ± py). Fractures contain lim (strong) - clay ± chl ± ser ± py (0.1% overall) ± ca. No NCu. <b>Weakly</b> magnetic.</p> <p><b>152.0-176.6 m:</b> Slightly weaker alteration (chl-ser ± clay ± mag/spec ± ep). Decrease in py &lt;0.5% overall), absent to rare cpy (mafic replacement) - mo (vein/fracture fill). Rare NCu mafic replacement, fracture fill (increasing from 172.0-176.6 m -- 0.1-0.5% locally). Strongly limonitic ser-qtz-py ± ca ± mo veinlets ~ 20-40° C.A. throughout, decreasing in abundance down section.</p>	1	0.1	-1?	0.1	1	3	1	3	4	<3	-1	<p><b>sludge</b></p> <table border="1"> <thead> <tr> <th>from (ft)</th> <th>to (ft)</th> <th>from (m)</th> <th>to (m)</th> <th>% tot Cu</th> </tr> </thead> <tbody> <tr> <td>568</td> <td>578</td> <td>173.1</td> <td>176.2</td> <td>0.35</td> </tr> <tr> <td>578</td> <td>588</td> <td>176.2</td> <td>179.2</td> <td>0.31</td> </tr> <tr> <td>588</td> <td>598</td> <td>179.2</td> <td>182.3</td> <td>0.36</td> </tr> <tr> <td>598</td> <td>608</td> <td>182.3</td> <td>185.3</td> <td>0.35</td> </tr> <tr> <td>608</td> <td>618</td> <td>185.3</td> <td>188.4</td> <td>0.34</td> </tr> <tr> <td>618</td> <td>625</td> <td>188.4</td> <td>190.5</td> <td>0.36</td> </tr> <tr> <td>628</td> <td>638</td> <td>191.4</td> <td>194.5</td> <td>0.34</td> </tr> </tbody> </table> <p><b>end of assay information</b></p> <p><b>cont'd core logging</b></p>					from (ft)	to (ft)	from (m)	to (m)	% tot Cu	568	578	173.1	176.2	0.35	578	588	176.2	179.2	0.31	588	598	179.2	182.3	0.36	598	608	182.3	185.3	0.35	608	618	185.3	188.4	0.34	618	625	188.4	190.5	0.36	628	638	191.4	194.5	0.34
from (ft)	to (ft)	from (m)	to (m)	% tot Cu																																																						
568	578	173.1	176.2	0.35																																																						
578	588	176.2	179.2	0.31																																																						
588	598	179.2	182.3	0.36																																																						
598	608	182.3	185.3	0.35																																																						
608	618	185.3	188.4	0.34																																																						
618	625	188.4	190.5	0.36																																																						
628	638	191.4	194.5	0.34																																																						
176.6	192.6	<p>Light to medium grey to pale orange-grey Bio-Hbl-Feldspar Porphyry Dyke. <b>Weakly</b> magnetic. Strong fracturing (~30-50° C.A.)/brecciation (poorly healed) throughout with clay-ser-ca-disseminated py ± cement/gouge/slips ~ 20-40° C.A., 4 mm-1.5 cm wide occur locally (less abundant towards EOH). Ca microveinlets, subparallel to 40° C.A. throughout.</p> <p><b>176.6-187.0 m:</b> Moderately to strongly lim-hem on fractures and throughout gouge/crushed Feldspars and veinlets.</p> <p><b>187.0-192.6 m:</b> Lim/hem absent throughout.</p> <p style="text-align: center;"><b>EOH 192.6 m</b></p>	0.5	<0.5	-1	<0.5	1	3	3	3	3	0	-1																																													

**Diamond Drill Log**

Project: Getty North Property  
 Hole #: 96-36  
 Date: 27-Oct-96  
 Logged by: R. Whiteaker

Northing: 5604175  
 Easting: 641625  
 Elevation: 1752 m  
 Length: 123.5 m

-1 = absent  
 1 = background/fresh  
 2 = weak  
 3 = moderate  
 4 = strong  
 5 = intense

Core: NQ2

	Azm	Dip
Collar	045	-50

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays					
From	To													Sample Number	Interval (m) From To		%Cu Total	%Cu Non Sulf	%Mo
0	3.4	Overburden/casing												73621	86.1	88.0	0.03	0.01	<.001
														73622	88.0	90.0	0.03	0.01	<.001
3.4	96.0	Tertiary Volcanics	-1	-1	-1	-1	-1	-1	-1	-1	-1	-	-1	73623	90.0	92.0	0.04	0.01	<.001
		3.4-30.8 m: Dark grey-brown (Bio)-Hbl-Qtz ( ± zeolite?) Phync Basalt Moderately fractured (6-10 per metre at 30-50° C.A. weak clay-hem coatings) Unaltered, weakly weathered. Moderately magnetic. Magnetic grains disseminated throughout -- commonly with hem rinds/haloes. Black Hbl-Bio grains/needles have a trachytic texture/pattern. Local Qtz-Hbl glomerocysts up to 0.5 cm in diam.												73624	92.0	94.0	0.04	0.01	<.001
		30.8-49.1 m: Pervasive/localized brick-red to yellow-brown hem-lim stained/oxidized (Bio)-Hbl-Qtz Phync Basalt. Basalt Breccia down section -- clasts subangular, average 0.5-2 cm in diam. matrix basaltic (possibly Dacitic) in composition, locally strong hem/lim with pale lim-yellow clay (?) fill (weather product?) between fragments/ in cavities.												73625	94.0	96.0	0.02	0.01	<.001
		49.1-59.6 m: Volcanic pyroclastic breccia. Fragments chiefly light grey Bio-Hbl-Qtz Phync Dacite with lesser darker brown to red basalt (clast angular, average 2-8 cm in approximate diam.) Matrix (dacitic) supported to clasts supported down section. Fining upwards to a more massive light grey dacite with weak lim on fractures (1% RQD) local pervasive red Fe-staining (hem)												73626	96.0	98.0	0.03	0.01	<.001
		59.6-96.0 m: Light grey to grey-brown, fine to medium grained pyroclastic deposit (locally tuffaceous). Over 95% feldspar-qtz-bio-hbl composition (dacitic), approximately 2-5% dacite ± granitic clasts <1.5 mm in diam (angular). Grading sequence -- fining upwards (down section 5-10% granitic, feldspar porphyry, monzonitic ± volcanic clasts 0.5-20 cm in diam. -- average 0.5-1 cm). Unaltered, weakly weathered/oxidized to brown hem up interval, brown-yellow lim down section. Gritty-sandy texture. Local stratification of finer and coarser units (?) 30-50° C.A. Abundance of heterolithic clasts moderate to strongly altered (chl-ser-ca-spec ± ep ± Fe-stain ± 0.1-0.3% NCu in local Guichon) increases to 15-30% down section (fine grained volcanic-dacite matrix - no ca)												73627	98.0	100.0	0.04	0.01	<.001
														73628	100.0	102.0	0.03	0.01	<.001
														73629	102.0	104.0	0.04	0.01	<.001
														73630	104.0	106.0	0.04	0.02	<.001
														73631	106.0	108.0	0.03	0.01	0.002
														73632	108.0	110.0	0.03	0.01	0.002
														73633	110.0	112.0	0.04	0.01	0.002
														73634	112.0	114.0	0.10	0.03	0.002
														73635	114.0	116.0	0.28	0.12	0.002
														73636	116.0	118.0	0.19	0.03	0.002
														73637	118.0	120.0	0.16	0.02	0.002
														73638	120.0	122.0	0.19	0.03	0.002
														73639	122.0	123.5	0.93	0.07	*only 9
<b>end of assay information</b>																			

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo
From	To														From	To			
96.0	116.0	<p>Fault brecciated clasts dominated pyroclastic deposit (?) (possibly no volcanic relationship – groundmass difficult to identify due to brecciation/oxidation). Clasts: approximately 90-95% Qtz-Diorite Guichon (weak propylitic alteration – chl-ser-ca + ep + spec + NCu [0.1-0.3% locally], angular - subangular, weak to moderately crushed/milled, locally Fe-stained), 5-10% fine to medium grained magnetic Bethlehem variety granodiorite (weak chl-ser + ca + mag/spec alteration, &lt; 2 cm fragments to 35 cm wide blocks, subangular), and red-orange monzonite, Fe-stained granitics, pale-green strongly sencitized granitics and minor amounts of Fe-stained Feldspar Porphyry Matrix/groundmass weakly to strongly limonitic (yellow-brown) throughout and contains crushed/comminuted multilithic clasts - ser-clay + chl + (dacitic tuff?) + ca.</p> <p>Note: some clasts are strongly limonitic while others are unoxidized.</p> <p>Poorly healed/easily crushed throughout (0% RQD). Lim in matrix/cement intensifies down section</p> <p>112.5-115.5 m: Clasts appear aligned ~ 30° C.A. in thick clay-ca-lim gouge.</p> <p>Note: minor core loss between 115.2-118.2 m.</p>	-1	-1	-1	-1	-1	2	2	2	3	0	-1	cont'd core logging					
116.0	123.5	<p>(Bio-Hbl?)-Feldspar Porphyry (Crowded FP1?). Strongly altered (chl-ep-ser-spec/hem-py [0.1-0.5% total]). Strongly broken/brecciated; intense yellow-brown lim on/in clay + ca + ser fractures/breccia matrix. Locally brecciated/crushed qtz veins.</p> <p style="text-align: center;">EOH 123.5 m</p> <p><b>Hole abandoned due to technical problems</b></p>	0.2	-	-	-	1	3	2	4	3	0	-						

**Diamond Drill Log**

**Project:** Getty North Project  
**Hole #:** 96-37  
**Date:** 29-Oct-96  
**Logged by:** R. Whiteaker/D. Blann

**Northing:** 5604020  
**Easting:** 641328  
**Elevation:** 1798 m  
**Length:** 404.8 m

-1 = absent  
 1 = background/fresh  
 2 = weak  
 3 = moderate  
 4 = strong  
 5 = intense

	<b>Azm</b>	<b>Dip</b>
<b>Collar</b>	090	-60
<b>Core:</b>	NQ2	

Depth (m) From To	Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays								
														Sample Number	Interval (m) From To	%Cu Total	%Cu NSx	Ag (g/t)	% Mo	Au (ppb)		
0	15.5	Casing/overburden												73640	24.5	26.8	0.01	-	n/d	<.001	5	
														73641	26.8	29.9	0.01	-	n/d	<.001	5	
15.5	24.6	Tertiary Volcanics. light grey-brown to bright yellow-brown (lim) pyroclastic air fall/surge deposit. Fining upwards. Multilitic - fragmental down section (granitics, FP's and mafic volcanics. < 1-3 cm in approximate diam. angular to subangular) grading upwards into fine grained tuffaceous material. Lim/hem intensifies down section.	Tv	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	73642	29.9	33.5	no recovery	-	no recovery			
														73643	33.5	36.0	0.01	-	n/d	<.001	5	
														73644	36.0	38.0	0.01	-	n/d	<.001	5	
														73645	38.0	39.0	0.01	-	n/d	<.001	5	
														73646	39.0	39.6	0.01	-	n/d	<.001	5	
24.6	73.5	Pale grey-green (Hbl)-Bio-Fsp Porphyry. Non-magnetic. mafics, weakly magnetic. Well broken. Weak to moderate clay-ser-chl-ep alteration. Fine grained interstitial mafics throughout (< 5% total mafics). 70-80% white, soft feldspars. Bio grains commonly larger than plagioclase. 0.5-1% finely disseminated py (cubic form) and mafic replacement, strongly limonitic (bright red-orange). Lim ± hem fractures throughout. Weak brecciation locally. Fracture sets 30-50° C.A. with clay-lim coating. Note: lost core between 29.9-33.5 m. Casing to 33.5 m and 45.7 m and 59.1 m (rounded core throughout). <b>38.5-72.5 m:</b> Decrease in lim and py disseminations. Increase in ep (as spots and mafic replacement, 1-5%). <b>72.5-73.5 m:</b> Chilled, deep grey-blue, with rounded absorbed Guichon Qtz (Monzo)-Diorite (down section unit/interval) xenoliths <1-3 cm in diam.	CFP	1	-1	-1	-1	-1	2	-1	2	2	4	-1	73647	39.6	45.7	no recovery	-	no recovery		
														73648	45.7	48.0	0.01	-	n/d	<.001	5	
														73649	48.0	51.2	0.01	-	0.1	<.001	5	
														73650	51.2	54.2	0.01	-	0.1	<.001	5	
														73651	54.2	55.8	0.01	-	0.1	<.001	5	
														73652	55.8	59.1	no recovery	-	no recovery			
														73653	59.1	60.3	0.01	-	0.1	<.001	5	
														73654	60.3	62.0	0.01	-	0.1	<.001	5	
														73655	62.0	64.0	<.01	-	0.1	<.001	5	
														73656	64.0	66.0	0.01	-	0.1	<.001	5	
														73657	66.0	68.0	0.01	-	0.1	<.001	5	
														73658	68.0	70.0	<.01	-	0.1	<.001	5	
														73659	70.0	72.0	0.02	-	* 9 samples			
73.5	115.3	Medium grained, light grey pink-black speckled Qtz (Monzo-) Diorite. 10-15% mafics (hbl>bio). Weakly to moderately magnetic. Generally equigranular, sparsely porphyritic locally. Weak to moderately propylitic alteration (mafics altered to chl-ca-ser-mag [inclusions?] ± spec ± cpy [rare], feldspars altered to ser-clay ± ca). Moderately to well brecciated - crushed (weakly milled) - fractured throughout (2% RQD) - generally decreasing down section. Brecciated - 20-40° C.A. with a loose-dusty/gritty clay-ser-ca ± lim ± chl matrix/breccia fill. Lim locally strong on fractures/slips (30-50° C.A., clay-ser-ca ± chl) and on (un-)fractured Qtz-ser ± chl ± py ± cpy (0.5-1% locally) veinlets (30-40° C.A., < 1-4 mm wide). Alteration intensity and lim increasing down section. Local fracture controlled Fe-stained selvages. Py>cpy increase to ~ 0.5-1.5 as mafic replacement-fracture/vein fill from 111.0-114.0 m. <b>84.0-84.8 m:</b> Thick grey-yellow clay-ca-ser-lim fault gouge (slips ~40° C.A.) with crushed-milled-comminuted Guichon clasts <1-6 mm in diam (average) throughout. <b>84.8-89.9, 93.5-95.5 &amp; 96.9-99.0 m:</b> Medium grey, medium grained (locally fine) (Bio-) Hbl-Qtz-Diorite. Moderately magnetic 15-20% mafics (Hbl>>bio) - hbl ± bio as medium to coarse grained clots (<1% of total) and as fine grained interstitial/bent groundmass (40-60% of total mafics). Moderate chl-spec ± ca ± ep-ser alteration. 0% RQD. Local medium to coarse grained drusy ca fracture fill (20° C.A.). Bright yellow-brown lim fracture coatings, veinlets throughout - common with 1-3 % red-orange-purple beaded grains (oxidized py or cpy). Diffuse (assimilated (?))	G	<0.1	<0.1	-1	-1	1	2	3	3	3	2	-1	73660	72.0	74.0	0.02	-	0.1	<.001	5
														73661	74.0	76.0	0.02	-	0.1	<.001	5	
														73662	76.0	78.0	0.01	-	0.1	<.001	5	
														73663	78.0	80.0	0.01	-	0.1	<.001	5	
														73664	80.0	82.0	0.02	-	0.1	<.001	5	
														73665	82.0	84.0	0.02	-	0.1	<.001	5	
														73666	84.0	86.0	0.02	-	0.1	<.001	5	
														73667	86.0	88.0	0.03	-	0.1	<.001	5	
														73668	88.0	90.0	0.03	-	0.1	<.001	5	
														73669	90.0	92.0	0.04	-	0.1	<.001	5	
														73670	92.0	94.0	0.04	-	0.1	<.001	5	
														73671	94.0	96.0	0.05	-	0.1	<.001	5	
														73672	96.0	98.0	0.05	-	0.1	<.001	5	
														73673	98.0	100.0	0.05	-	0.1	<.001	5	
														73674	100.0	102.0	0.03	-	0.1	<.001	5	
														73675	102.0	104.0	0.06	-	0.1	<.001	5	
														73676	104.0	106.0	0.08	-	0.1	<.001	5	
														73677	106.0	108.0	0.05	-	0.1	<.001	5	
														73678	108.0	110.0	0.04	-	0.1	<.001	5	
														73679	110.0	112.0	0.06	-	0.1	<.001	5	



Depth (m)		Description	Rock Type	%Py	%Cpy	%B/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu NSx	Ag (g/t)	%Mo	Au (ppb)
From	To															From	To					
115.3	139.5	<b>cont'd sub-interval 84.8-99.0 m</b> contacts with Guichon unit	G	1.5	0.5	-1	-1	2	5	4	4	3	15	-1	73680	112.0	114.0	0.06	-	0.1	<.001	5
		73681													114.0	116.0	0.08	-	0.1	<.001	5	
		73682													116.0	118.0	0.06	-	0.1	<.001	5	
		73683													118.0	120.0	0.13	-	0.1	<.001	5	
		73684													120.0	122.0	0.07	-	0.1	<.001	5	
		73685													122.0	124.0	0.10	-	0.1	<.001	5	
		73686													124.0	126.0	0.05	-	0.1	<.001	5	
		73687													126.0	128.0	0.09	-	0.1	<.001	5	
		73688													128.0	130.0	0.13	-	0.1	<.001	5	
		73689													130.0	132.0	0.08	-	0.1	<.001	5	
		73690													132.0	134.0	0.18	-	0.1	<.001	5	
		73691													134.0	136.0	0.05	-	0.1	<.001	5	
		73692													136.0	138.0	0.06	-	0.1	<.001	5	
		73693													138.0	140.0	0.05	-	0.1	<.001	5	
		73694													140.0	142.0	0.06	-	0.1	<.001	5	
		73695													142.0	144.0	0.08	-	0.1	<.001	5	
		73696													144.0	146.0	0.05	-	0.1	<.001	5	
		73697													146.0	148.0	0.09	-	0.1	<.001	5	
		73698													148.0	150.0	0.03	-	0.1	<.001	5	
73699	150.0	152.0	0.05	-	0.1	<.001	5															
73700	152.0	154.0	0.06	-	0.1	<.001	5															
73701	154.0	156.0	0.04	-	0.1	<.001	5															
73702	156.0	158.0	0.13	-	0.1	<.001	5															
73703	158.0	160.0	0.20	-	0.1	<.001	5															
73704	160.0	162.0	0.06	-	0.1	<.001	5															
73705	162.0	164.0	0.07	-	0.1	<.001	5															
73706	164.0	166.0	0.05	-	0.1	<.001	5															
73707	166.0	168.0	0.06	-	0.1	<.001	5															
73708	168.0	170.0	0.02	-	0.1	<.001	5															
73709	170.0	172.0	0.01	-	0.1	<.001	5															
73710	172.0	174.0	0.02	-	0.1	<.001	5															
73711	174.0	176.0	0.04	-	0.1	<.001	5															
73712	176.0	178.0	0.02	-	0.1	<.001	5															
73713	178.0	180.0	0.03	-	0.1	<.001	5															
73714	180.0	182.0	0.04	-	0.1	<.001	5															
73715	182.0	184.0	0.02	-	0.1	<.001	5															
73716	184.0	186.0	0.03	-	0.1	<.001	5															
73717	186.0	188.0	0.05	-	0.1	<.001	5															
73718	188.0	190.0	0.06	-	0.1	<.001	5															
73719	190.0	192.0	0.03	-	0.1	<.001	5															
73720	192.0	194.0	0.04	-	0.1	0.003	5															
73721	194.0	196.0	0.03	-	0.1	0.003	5															
73722	196.0	198.0	0.06	-	0.1	0.003	5															
73723	198.0	200.0	0.06	-	0.1	0.003	5															
73724	200.0	202.0	0.11	-	0.1	0.003	5															
73725	202.0	204.0	0.08	-	0.1	0.003	5															
73726	204.0	206.0	0.07	-	0.1	0.003	5															
73727	206.0	208.0	0.08	-	0.1	0.003	5															

Depth (m)	From	To	Description	Rock Type	%Py	%Cpy	%Ba/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu NSx	Ag (g/t)	%Mo	Au (ppb)
																	From	To					
169.5	201.8	167.0-167.2 m: Light green-grey fault gouge (clay-ca-ser-chl-py ± cpy) with slips 50-60° C.A. Brecciated fragments of Qtz-ca-py veins (weak to moderately milled)	CFP	1.5	0.1	-1	<0.05	1	3	3	3	3	12	-1		73728	208.0	210.0	0.03	-	0.1	0.003	5
																73729	210.0	212.0	0.31	-	0.1	0.003	5
																73730	212.0	214.0	0.22	-	0.1	0.004	5
																73731	214.0	216.0	0.17	-	0.1	0.004	5
																73732	216.0	218.0	0.19	-	0.1	0.004	5
																73733	218.0	220.0	0.08	-	0.1	0.004	5
																73734	220.0	222.0	0.11	-	0.1	0.004	5
																73735	222.0	224.0	0.36	-	0.1	0.004	5
																73736	224.0	226.0	0.19	-	0.1	0.004	5
																73737	226.0	228.0	0.17	-	* 8 samples		
																73738	228.0	230.0	0.39	-	0.1	0.007	5
																73739	230.0	232.0	0.54	-	0.1	0.007	5
																73740	232.0	234.0	0.45	-	0.1	0.007	5
																73741	234.0	236.0	0.56	-	0.1	0.007	5
																73742	236.0	238.0	0.53	-	0.1	0.007	5
																73743	238.0	240.0	0.55	-	0.1	0.007	5
																73744	240.0	242.0	0.41	-	0.1	0.007	5
																73745	242.0	244.0	0.43	-	0.1	0.007	5
																73746	244.0	246.0	0.59	-	0.1	0.007	5
																73747	246.0	248.0	0.54	-	0.1	0.007	5
73748	248.0	250.0	0.54	-	0.1	0.002	5																
73749	250.0	252.0	0.64	-	0.1	0.002	5																
73750	252.0	254.0	0.72	-	0.1	0.002	5																
73751	254.0	256.0	0.55	-	0.1	0.002	5																
73752	256.0	258.0	0.43	-	0.1	0.002	5																
73753	258.0	260.0	0.41	-	0.1	0.002	5																
73754	260.0	262.0	0.56	-	0.1	0.002	5																
73755	262.0	264.0	0.79	-	0.1	0.002	5																
73756	264.0	266.0	0.80	-	0.1	0.002	5																
73757	266.0	268.0	0.96	-	0.1	0.002	5																
201.8	230.0	Medium grained, mottled pale grey-green to grey-orange Qtz (Monzo-) Diorite (Guichon variety - G/GpP). Moderate to strong propylitic alteration: feldspars altered to clay ± ser ± ca (chalky-white to pale green), mafics altered to chl-ca-ser ± mag (inclusions?) ± spec ± py (0.5-1% average for interval) >>cpy (0.2% average for interval). Weakly magnetic. 10-15% mafics (bio>hbl). Moderately to well fractured/broken 10-20 per metre, 30-70° C.A. with chl-ser-ca-clay-py ± cpy ± lim coatings/fill (py>cpy). Ser-chl-ca-py ± cpy ± Qtz ± mo veinlets throughout (8-15+ per metre, 20-40 and 60° - subnormal to C.A. < 2 mm wide, locally cross cutting. Py-cpy mafic replacement strong in selvages 1-3 cm wide (commonly strongly altered to a paler green-grey colour -- clay-ca-ser alteration). Note: overall py>cpy vein fill out local zones where cpy>py to cpy>>py as vein fill (see below). Generally cpy increasing down section. Rare pale orange apitic dykelets/veins, weakly Fe-stained, 20-40° C.A., 2-4 cm wide, cross cut by ser-ca-chl-py ± cpy veinlets locally.	G/GpP	1.5	0.5	-1	0.05	-14	2	3	3	3	8	-1		73758	268.0	270.0	0.88	-	0.1	0.001	5
																73759	270.0	272.0	0.86	-	0.1	0.001	5
																73760	272.0	274.0	0.67	-	0.1	0.001	5
																73761	274.0	276.0	0.74	-	0.1	0.001	5
																73762	276.0	278.0	0.67	-	0.1	0.001	5
																73763	278.0	280.0	0.78	-	0.1	0.001	5
																73764	280.0	282.0	0.60	-	0.1	0.001	5
																73765	282.0	284.0	0.60	-	0.1	0.001	5
																73766	284.0	286.0	0.58	-	0.1	0.001	5
																73767	286.0	288.0	0.52	-	0.1	0.001	5
																73768	288.0	290.0	0.58	-	0.1	0.001	5
																73769	290.0	292.0	0.64	-	0.1	0.001	5
																73770	292.0	294.0	0.56	-	0.1	0.001	5
73771	294.0	296.0	0.38	-	0.1	0.001	5																
73772	296.0	298.0	0.39	-	0.1	0.001	5																
73773	298.0	300.0	0.47	-	0.1	0.001	5																
73774	300.0	302.0	0.35	-	0.1	0.001	5																
73775	302.0	304.0	0.32	-	0.1	0.001	5																

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu NSx	Ag (g/t)	%Mo	Au (ppb)
From	To															From	To					
		<b>cont'd interval 211.0-217.0 m</b>													73776	304.0	306.0	0.24	-	0.1	0.001	5
		veinlets with cpy ± py													73777	306.0	308.0	0.24	-	0.1	0.001	5
		216.0 m 2 mm wide ser-ca-mo (5-10% total) ± Qtz? veinlet subnormal to C A													73778	308.0	310.0	0.23	-	0.1	0.001	5
		<b>217.0-219.0 m:</b> Strong clay-ser-ca alteration (pale green-grey) Weakly brecciated. Local ca-qtz-ser-py-cpy veins and clay-chl-ser-ca slips ~ 20-30° C A													73779	310.0	312.0	0.31	-	0.1	0.001	5
		<b>222.0-224.0 m:</b> Well brecciated/crushed with splintery fractured fragments													73780	312.0	314.0	0.22	-	0.1	0.001	5
		<b>cont'd sub-interval 222.0-224.0 m</b>													73781	314.0	316.0	0.22	-	0.1	0.001	5
		throughout 0% RQD													73782	316.0	318.0	0.27	-	0.1	0.001	5
		223.4-224.0 m Pale orange-brown Hbl-Qtz-Fsp Porphyry apitic dykelet (D2?) with ~ 40° C A contacts. cross cut by Qtz-ca-py-ser veinlets ~ 25° C A													73783	318.0	320.0	0.26	-	0.1	0.001	5
		<b>224.0-230.0 m:</b> Cpy to py ratio increasing (cpy ≥ py)													73784	320.0	322.0	0.05	-	0.1	0.001	5
															73785	322.0	324.0	0.03	-	0.1	0.001	5
															73786	324.0	326.0	0.03	-	0.1	0.001	5
															73787	326.0	328.0	0.02	-	0.1	0.001	5
230.0	233.0	Pale green Feldspar Porphyry (FP) ser-clay altered plagioclase (90%)	FP	2	0.75	-	-	1	4	2	2	3	10	-	73788	328.0	330.0	0.01	-	0.1	<.001	5
															73789	330.0	332.0	0.03	-	0.1	<.001	5
233.0	290.0	Medium grained Bio-Hbl-Qtz Diorite (G/GpP) Cloudy, zoned, pale green ser/clay altered plagioclase (70%) Chl-ser altered mafics (75%) Py. cpy and trace mo replacing altered mafics along microfractured, and in qt-ser-clay ± chl veinlets 1-10 mm, 20-50 per metre. subparallel to 80° C.A., cross cutting Local Qtz-chl-veins to 1 cm with cpy -- rare bo. Local aplite dykes to 10 cm, 30-60° C A.	GpP	1	1.2	-	0.1	2	3	3	2	2	12	-	73790	332.0	334.0	0.01	-	0.1	<.001	5
		<b>FP dykes:</b> 253.5-254.3, 258.4-260.5 silicified													73791	334.0	336.0	<.01	-	0.1	<.001	5
		<b>Faults:</b> 236.5-237.3, 241.0-241.5 & 253.5-254.0 m													73792	336.0	338.0	0.01	-	0.1	<.001	5
		<b>Note:</b> Bio-Hbl-Qtz Diorite texture/composition varies throughout -- weakly equigranular to sparsely porphyritic; 10-20% mafics. Cpy generally decrease near end of interval.													73793	338.0	340.0	0.01	-	0.1	<.001	5
															73794	340.0	342.0	<.01	-	0.1	<.001	5
															73795	342.0	344.0	0.01	-	0.1	<.001	5
															73796	344.0	346.0	0.52	-	0.1	<.001	5
															73797	346.0	348.0	0.72	-	0.1	<.001	5
															73798	348.0	350.0	0.78	-	0.1	<.001	5
															73799	350.0	352.0	0.65	-	0.1	<.001	5
															73800	352.0	354.0	0.22	-	0.1	<.001	5
															73801	354.0	356.0	0.32	-	0.1	<.001	5
290.0	314.5	Medium grained Bio-Hbl-Qtz Diorite (G/GpP). Weakly equigranular to sparsely porphyritic throughout (compositional variations). Cloudy, zoned, pale green ser-clay altered plagioclase. Mafics chl-ser-ca ± spec altered. Cpy-py ± mo mafic replacement and fracture fill and in Qtz-ser-chl ± ca veinlets, 20-60° C.A., 20-30 per metre. Clay-ser-ca-chl fault gouge: 295.3-295.5, 303.6-303.7 m, ~ 40-50° C.A. Qtz ± alb veins 3 mm-2 cm wide, 20-70° C.A., 2-6 per metre, locally with 0.1% fine disseminated cpy	GpP	0.5	0.6	-1	0.05	2	3	2	3	2	25	-1	73802	356.0	358.0	0.34	-	0.1	<.001	5
		301.0 m ca-drusy vein/fracture fill 20° C.A., 6 mm wide. <b>Weakly</b> magnetic.													73803	358.0	360.0	0.35	-	0.1	<.001	5
		<b>308.0-314.5 m:</b> Compositionally variable (strong "packed porphyritic" texture to weakly equigranular) -- possible gradation assimilation of Bio-Hbl-Qtz-Diorite and Hbl-Qtz-Bio-Feldspar Crowded Porphyry (down section unit). Well broken (0% RQD) local clay-ser-ca-chl fault gouge (slips ~ 30° C.A.). Moderate to strong ser-chl-ca alteration. Orange aplite (Qtz-K-spar) veins, 3 mm-3 cm wide, 30-70° C.A., 3-4 per metre.													73804	360.0	362.0	0.37	-	0.1	<.001	5
		312.7-312.8 m Dark grey Hbl-Qtz-Fsp Porphyry dykelet, upper and lower contacts ~ 40-50° C.A., 1 mm wide pink Qtz-K-spar envelopes, unmineralized, moderately magnetic.													73805	362.0	364.0	0.40	-	0.1	<.001	5
															73806	364.0	366.0	0.32	-	0.1	<.001	5
															73807	366.0	368.0	0.43	-	0.1	<.001	5
															73808	368.0	370.0	0.57	-	0.1	<.001	5
															73809	370.0	372.0	0.57	-	0.1	<.001	5
															73810	372.0	374.0	0.54	-	0.1	<.001	5
															73811	374.0	376.0	0.48	-	* only 4 samples		5
															73812	376.0	378.0	0.32	-	0.1	<.001	5
															73813	378.0	380.0	0.34	-	0.1	<.001	5
															73814	380.0	382.0	0.18	-	0.1	<.001	5
															73815	382.0	384.0	0.28	-	0.1	<.001	5
															73816	384.0	386.0	0.29	-	0.1	<.001	5
															73817	386.0	388.0	0.32	-	0.1	<.001	5
															73818	388.0	390.0	0.32	-	0.1	<.001	5
															73819	390.0	392.0	0.31	-	0.1	<.001	5
															73820	392.0	394.0	0.22	-	0.1	<.001	5
															73821	394.0	396.0	0.34	-	0.1	<.001	5
															73822	396.0	398.0	0.32	-	0.1	<.001	5
															73823	398.0	400.0	0.42	-	0.1	<.001	5

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu NSx	Ag (g/t)	%Mo	Au (ppb)	
From	To															From	To						
314.5	331.0	Light grey, fine to medium grained Hbl-Bio-Feldspar "Crowded/packed" Porphyry (Beth related CFP?) Sparse interstitial groundmass of fine grained feldspar-hbl-bio-qtz-mag. Upper contact at 25-35° C.A. magnetic. 5-10% mafics (bio ≥ hbl). Bio ± Hbl poikilitic enclosing feldspar-mag + Qtz. Bio-Hbl commonly as coarse grained clots (< 1% of total rock). Feldspars weakly ser-clay altered (zoned, white to pale grey-green) mafics weakly chl-ca ± ep altered with 0.1% cpy, < 0.05% bo and < 0.05% py replacement (Note: replacement is rare and scattered throughout). Orange Qtz-K-spar ± ep veins with Qtz envelopes, 40-60° C.A., 5 mm-3 cm wide, commonly displaying graphic textures. Rare orange Qtz-fsp aplitic porphyry dykelets 40° C.A., 1-3 cm wide. Cpy ± py in microfractures locally. Poorly fractured throughout. 6-12 per metre, 50-70° ± 20-30° C.A., with weak clay-ca ± ser coatings. 1-2% mag as free disseminations and mafic inclusions.  316.5-319.5 m: G/GpP (up section interval unit) Upper contact gradational with Hbl-Qtz-Bio-Feldspar Porphyry, lower contact sharp ~ 45-55° C.A. (Note: each contact GpP mineralized, Hbl-Qtz-Bio-Fsp Porphyry unmineralized). 1-2% py, 0.5% cpy mafic replacement, fracture and Qtz-chl-ser ± ca ± ep vein fill.	CFP	0.05	0.1	0.05	-1	2	3	2	2	2	35	-1	73824	400.0	402.0	0.30	-	0.1	<.001	5	
															73825	402.0	404.8	0.28	-	* 14 samples			
																eoh							
																sludge		feet		metres			
																from	to	from	to	Cu (%)			
																648	658	197.5	200.5	0.04			
																end of assay information							
331.0	337.5	Light grey to pale green-orange fine to medium grained (Bio-) Hbl-Fsp "Crowded/Packed" Porphyry (CFP - as above by Hbl>Bio) Sulphides (cpy) absent to rare. Sulphides (mafic replacement). Sparse interstitial groundmass of feldspar (plagioclase + pink K-spar) hbl-bio-qtz-mag. Weak propylitic alteration (ser-clay-chl-ca ± ep ± spec) increasing (moderately to strongly) down section. Mag inclusions/disseminations increasingly oxidized to spec/hem towards end of interval. No aplitic veins/dykelets.	CFP	-1	<.05	-1	-1	1	3	2	2	3	34	-1									
337.5	345.5	(Bio-) Hbl-Fsp Crowded Porphyry (CFP as above). Light to dark green, pale brown-green down section (weak Fe-staining). Strong to intense ser-clay-ca-chl alteration -- pervasive. Primary textures obliterated to faint throughout. Well broken with light grey-green clay-ser-ca ± chl coatings.  339.0-341.0, 342.5-343.0 & 345.3-345.5 m: Fault breccia/gouge. Strong chl-ser-ca ± chl ± hem gouge/matrix between crushed, weakly milled subrounded/ angular fragments of D3 and Qtz veins to 4 cm in diam. Slip planes 20-40° C.A.	CFP	-1	-1	-1	-1	1	7	7	3	3	10	-1									
345.5	351.2	Strongly to intensely altered Guichon Qtz Dionte (G)/Guichon related Granophytic Porphyry (?) (GpP)/Crowded Feldspar Porphyry (CFP/D3 beth related). Intensity of alt'n & slight textural variations make contact/unit identification difficult. G>GpP>CFP. Medium to deep green to bright orange-red due to pervasive ser-clay-ca-chl-hem/ spec alteration and variable moderate to strong Fe-staining (fracture/vein controlled). Feldspars soft, medium to dark green (ser-clay-ca) + bright red (Fe), mafics pale green to dark red (ser-clay-spec-ca), locally primary textures completely obliterated. 0.5-2% (locally) bo, 0.4-1% cpy -- as fine disseminations (locally within Qtz ± ca veins, 1-2 per metre, 0.5-2 cm wide, at 40-60° C.A.), mafic replacement and as fracture fill (ser-ca-clay-chl-hem, 45-65° C.A., 10-20 per metre). Overall, moderately fractured (8-12 per metre) with rare clay-ser-ca slips ~ 50° C.A.	CFP/GpP	-1	0.8	1	-1	2	5	4	4	4	10	-1									

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu NSx	Ag (g/t)	%Mo	Au (ppb)
From	To															From	To					
351.2	361.0	Fault zone: strong fault breccia/gouge (clay-ca-ser ± hem) of D3/CFP ≥ GpP> Guichon Qtz Diorite (G). Overall chalky green to light brown-grey (pervasive ser-clay-ca ± chl ± hem) altn of brecciated fragments (crushed, weakly milled, 1-25 cm in diam). Slip/shear planes 50-60° C.A. Locally brecciated qtz ± ca ± bo >cpy veins throughout (1-2 cm wide, subparallel to 60° C.A.). Bo ~ 0.5-1% as fine disseminations along qtz ± ca vein envelopes, mafic replacement and locally milled throughout gouge. Rare lim gouge down section	FAULT	-1	0.4	0.6	-1	2	4	4	3	4	<2	-1	cont'd core logging							
361.0	378.3	Strongly to intensely altered (pervasive ser-clay-ca-chl ± spec) Guichon variety Qtz Diorite/Granophyric Porphyry (?) (GpP) ± Crowded Feldspar Porphyry (CFP/D3 variety). Gradational-diffusional unit. Contacts and variable alteration intensity throughout. Medium to deep green to medium to deep red throughout. Local moderate to strong pervasive Fe-staining of feldspars and groundmass. Feldspars soft, ser-clay ± ca altered to pale deep green. Bo-cpy >> py as fine free disseminations, mafic replacement and with ser-ca-chl ± qtz ± clay fracture fill. Ca ± ser veinlets throughout, 10-25 per metre, 40-60° C.A., < 1-8 mm wide. Well fractured, 10-20 per metre. Local clay-ser-ca ± hem slips 20-50° C.A. Qtz ± ca ± cpy >bo veins (< 1 per metre, 20-50° C.A., 0.5-1 cm wide). Note: locally qtz veins cross cut ca veins. <b>364.8-366.1 m:</b> Dark green-grey ser-chl-ca altered CFP with 1-3R fine to medium grained bronze-black bio books -- possibly secondary? <b>365.0 m:</b> ser-chl-ca fracture fill ~ 40° C.A. with 2 mm wide envelope of 20-60% bo-cpy mafic replacement of bio ± hbl. <b>370.7-371.1 m:</b> 1-35 py mafic replacement/disseminations throughout D3/CFP unit. Py>>cpy>bo. <b>373.5-373.6 m:</b> Orange-brown Qtz-Plag apite Porphyry (mafic phase present - bio ± hbl) ~ 30° C.A. < 0.1% cpy mafic replacement. Weak pervasive Fe-staining. <b>366.5-366.7, 371.0-371.8, 374.5-375.9 m:</b> Fault breccia/gouge (poorly to moderately healed with clay-ca-ser). 20-40° C.A. slip planes. Weakly crushed - milled fragments.	CFP	0.05	0.5	0.4	-1	2	4	4	3	3	5	-1								
378.3	404.8	Bethlehem D3: Grey, medium grained, hard Bio-Fsp-Qtz Diorite. Finely disseminated, fine grained bio, locally medium grained. Hbl completely replaced by (bio)-chl-ser-qtz-mag/spec. Plagioclase cloudy, faint outline, sericitic, locally intensely ser-clay altered where fractured. Qtz flooding of matrix locally. Grey, cross cutting qtz veins subparallel to 80° C.A. 0.5-1 cm, 20 per metre. Cpy, bo replaces altered mafics and occurs along hairline fractures in sericitic plagioclase. Local orange apite dykes to 3 cm. Qtz veins only locally mineralized, with cpy, bo. Local clots of mag. <b>380.8-381.3 m:</b> Fine grained packed plagioclase (Fp) 60° C.A. strong ser-clay altered contact.  EOH 404.8 m	D3	0.1	0.3	0.2	0.05	4	3	3	2	2	40	-1								

Diamond Drill Log															Azm		Dip	
Project:	Getty Southwest <th>Northing:</th> <td>5603190 <td colspan="2">-1 = absent</td> <td colspan="2"></td> <td colspan="2"></td> <td>Core:</td> <td>NQ2</td> <td>Collar</td> <td>090</td> <td>-60</td> </td>				Northing:	5603190 <td colspan="2">-1 = absent</td> <td colspan="2"></td> <td colspan="2"></td> <td>Core:</td> <td>NQ2</td> <td>Collar</td> <td>090</td> <td>-60</td>	-1 = absent						Core:	NQ2	Collar	090	-60	
Hole #:	BH96-1 <th>Easting:</th> <td>640060</td> <td colspan="2">1 = background/fresh</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td>				Easting:	640060	1 = background/fresh											
Date:	14-Sep-96 <th>Elevation:</th> <td>1688 m</td> <td colspan="2">2 = weak</td> <td colspan="2">4 = strong</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td>				Elevation:	1688 m	2 = weak		4 = strong									
Logged by:	R. Whiteaker						3 = moderate		5 = intense									
Assays																		
Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample	Interval (m)		%Cu	%Cu
From	To													Number	From	To	Total	Non Sulf
0	2.1	casing/overburden												68711	173.0	175.0	0.04	-
														68712	175.0	177.0	0.03	-
2.1	173.0	Tertiary Volcanics	-1	-1	-1	-1	-1	-1	-1	1	1	20	-1	68713	177.0	179.0	0.03	-
		2.1-39.5 m: Dark grey to grey-brown olivine (?) -pyroxene phric basalt.												68714	179.0	181.0	0.02	-
		Groundmass of feldspars, mafics and possible zeolites. Moderately magnetic.												68715	181.0	183.0	0.03	-
		Relatively fresh with lim-hem weathering/oxidized increasing down section giving unit												68716	183.0	185.0	0.03	-
		a yellow-brown stained colour. Weak to moderate lim + hem oxidation of mafics												68717	185.0	187.0	0.04	-
		throughout. Overall moderately fractured (average 5-10 per metre, at 55-60, 45° and												68718	187.0	189.0	0.05	-
		20-30° C.A.) with fill/coatings of beige-grey to red-orange coloured clay (?), lim-hem												68719	189.0	191.0	0.08	-
		and soft, silver-black Fe/Mn-oxide (?) or possibly carbonized paleo-wood (?).												68720	191.0	193.0	0.20	-
		Weakly brecciated throughout with open space/fracture fill of a soft cream-yellow												68721	193.0	195.0	0.15	-
		clay (?) (commonly lim stained) between angular fragments of non-rotated/transported												68722	195.0	197.0	0.12	-
		basalt. Locally fault gouged with chocolate-brown clay gouge/slips (~25-45° C.A.)												68723	197.0	199.0	0.06	-
		29.0-29.5 m: Subparallel shear/fault breccia with brown-cream coloured clay ±												68724	199.0	201.0	0.07	-
		lim gouge containing angular broken (weakly milled) fragments of volcanic wallrock												68725	201.0	203.0	0.05	-
		(~ 5 mm-2 cm in diam.). Enclosed in gouge is a silver-black graphitic piece of paleo-												68726	203.0	205.0	0.05	-
		wood or wad (?) 2 X 3 cm in dimension, with a bright orange-red lim rim.												68727	205.0	207.0	0.01	-
		33.5-39.5 m: Increased lim-hem staining (oxidation of volcanics and breccia fill/												68728	207.0	209.0	0.01	-
		matrix (possibly injected clay?) giving an irregular overall pale brown-yellow to cream												68729	209.0	211.0	0.03	-
		colouration. Volcanics (Basalt) has a pock-marked texture. Where mafic, iron-rich												68730	211.0	213.0	0.04	-
		minerals have weathered possibly contributing to oxidation processes. Locally in-												68731	213.0	215.0	0.02	-
		tense fracture controlled bright yellow-orange-brown lim staining where basalt is a												68732	215.0	217.0	0.02	-
		pervasively dull-brown. Magnetism and specific gravity is lower than up section												68733	217.0	219.0	0.01	-
		(Fe-loss). A black-sooty to sub-metallic and non-magnetic mineral coats fractures												68734	219.0	221.0	0.02	-
		near strong lim/hem oxidation as blebs and irregular sheets -- possible Fe/Mn-oxide?												68735	221.0	223.0	0.03	-
		39.5-78.0 m: Clast to matrix supported Tuff breccia (multilithic: mafic-felsic vol-												68736	223.0	225.0	0.18	-
		canic, feldspar porphyry, Qtz-Diorite, monzonite, granodiorite) -- possibly volcanic												68737	225.0	227.0	0.08	-
		collapse breccia. Yellow lim on stained Basalt at top of sub-interval. Pale yellow-												68738	227.0	229.0	0.04	-
		brown/cream to purple-grey and light grey-blue down section. Clasts/blocks angular,												68739	229.0	231.0	0.05	-
		1 mm-2 cm in diam. (approximately) -- averaging 1-3 cm. Commonly elongate in												68740	231.0	233.0	0.06	-
		shape. Tuff has a Bio-Fsp-Qtz composition (fine grained). Local lim stain (pervasive).												68741	233.0	235.0	0.09	-
		Compacted thin black fragments of paleo-wood throughout -- commonly flattened/												68742	235.0	237.0	0.05	-
		deformed along stratigraphic horizons and containing very finely disseminated sul-												68743	237.0	239.0	0.01	-
		phides (py-cpy (?)). Bedding/statigraphic horizons/bands of pebbly/sandy (1-2 mm												68744	239.0	241.0	0.02	-
		diam. clasts) lithic tuff (?) between finer layers of compacted light grey tuff (<1 mm												68745	241.0	243.0	0.01	-
		clasts) throughout, increasing in frequency down section (Note: thicknesses of												68746	243.0	244.7	0.01	-
		both beds < 5 cm). Poorly to moderately fractured throughout (3-6 per metre, 40-60°												Plus select samples from Tertiary Volcanics				
		± subparallel to C.A.). No gouge/slips. Local cross-bedding of tuff-pebbly-sandy																

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<b>cont'd sub-interval 39.5-78.0 m</b>																
		<b>beds.</b>												<b>select samples from Tertiary Volcanics</b>				
		<b>78.0-126.0 m: Stratified beds of light grey Tuff (&lt;&lt;1 mm grains with local pyroclastics &lt; 1-3 mm in diam ) and coarser grained (&lt; 1-2 mm in diam.) compacted beds/horizons of light grey to chalky pebbly-sandy (washed?) tuffaceous pyroclastics containing flattened, elongate black paleo-wood (commonly with sulphides between grains and in wood fragments/slivers). Grading sequences? Local zones (beds?) of clasts supported (~ 95% clasts, angular, 5-25 cm in average diam.) Tuff Breccia -- clasts/blocks are mafic volcanic, dacitic, Fe-stained Feldspar, diorite, granodiorite in composition. No lim staining. Fracture sets ~ 3-5 per metre.</b>												<b>28 element ICP and Au</b>				
		<b>118.0 m: Cobble sized fragments of moderately altered (qtz?) Granodiorite (Bethlehem or Guichon border phase?) in Tuff Breccia with 0.5-2% cpy ± py mafic replacement/on fractures.</b>												<b>tag #</b>	<b>from (m)</b>	<b>to (m)</b>	<b>Au (ppb)</b>	<b>Cu (ppm)</b>
		<b>126.0-160.0 m: Clast supported (&lt;90%) Tuff Breccia. Clasts -- &lt; 1 mm-20 cm (average 1-2 cm) in diam, angular, dacite composition dominant with mafic volcanics, granitic clasts/blocks. Local short beds/horizons of gritty (washed?) sandy tuff pyroclastic/breccia. Note: decrease in sulphide-rich compacted paleo-wood/slivers. No lim staining.</b>												68747	39.5	40.5	5	39
		<b>160.0-173.0 m: Matrix supported (60-80%) Tuff Breccia interrelated with tuff and washed (?) gritty-sandy tuffaceous pyroclastics (with local compacted paleo-wood with rare sulphide banding).</b>												68748	43.3	44.3	10	24
														68749	44.5	46.5	5	19
														68750	64.8	65.8	10	36
														68761	69.9	70.9	5	10
														68762	80.1	81.1	5	19
														68763	83.0	83.5	5	15
														68764	87.0	87.0	5	18
														68765	96.5	98.0	5	18
														68766	104.6	97.5	5	21
														68767	107.6	108.1	10	40
														68768	119.2	108.8	5	83
														68769	121.2	123.2	5	58
														68760	123.2	125.6	5	44
														68761	125.6	126.2	10	61
														68762	161.8	163.6	5	32
														<b>end of assay information</b>				
173.0	244.7	(Hbl)-Bio-Qtz Diorite (Guichon variety). Overall light grey with strong mafic speckling. Moderately magnetic and weakly equigranular. Rough, dusty texture due to weak weathering (possibly pre-Tertiary). Local weak to moderate fracture/vein controlled Fe-staining gives unit a pale peach-red colour. Weak to moderate pervasive alteration (feldspars weakly altered to ser-ca-clay, mafics weak to moderately altered to chl-spec-ser ± mag (possible inclusions) ± ca ± hem (red) ± ep). Local strong chl-ser-ca-Fe-stain ± NCu (trace) alteration in selvages to chl-ca-ser ± ep veinlets (1-5 mm wide, 30-40° C.A., 2-3 per metre) and local, black-dark green chl-clay-ser ± ca gouge/slips (~40-60° C.A.). Pink, Fe-stained ca veinlets (parallel to subparallel, 1-4 mm wide, <2 per metre). Upper paleo-contact with Tertiary Tuff Breccia contains black-steel grey fault gouge (~ 40 cm wide) with py ± cpy (?) crushed sparsely throughout, slips 40-60° C.A.; possible organic component to black gouge. Mod fractured, 4-8 per metre at 50-70, 30-40° ± subparallel to C.A. with chl + ser ± clay ± ca ± hem fill/coating. Local deep green-black clay-chl-ser ± ca gouge and slips ~ 35-40, 60° and subparallel to C.A. Becomes less weathered down section to EOH. Local criss-crossing conjugate joint/fracture sets. <b>190.0-198.0 m: Slight increase in chl-ca-ser veining, fracturing (8-12 per metre) &amp; alteration (ser-chl-Fe-stain-spec) w/ trace (~0.1-0.5%) NCu on dark green-black to rusty orange-green chl-clay-ser ± hem fractures and slips (both ~ 20-30 &amp; 50° C.A.). Locally weakly brecciated with a pale green-orange colour and a crumbled/gouge texture (± trace NCu, sub-mm flecks). <b>211.0-217.0 m: Weakly brecciated Guichon. Locally rock appears foliated/"twisted". Prominent parallel/subparallel brown-red clay-chl-hem ± ser fractures/slips</b></b>	-1	0.05	-1	-1	-1	2	2	3	2	27	-1					

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<p><b>cont'd sub-interval 211.0-217.0 m</b></p> <p>throughout. Subparallel ca-ser-chl veins/fracture fill throughout (&lt; 3 mm wide with ~ 1 cm wide weakly hematized selvages) – locally with ca-gypsum (?) druse.</p> <p><b>223.5-238.0 m:</b> 0.1-1% (average 0.4%) cpy as mafics replacement in strongly altered (ser-chl-ca-spec) and moderately hematized (pale to bright orange-red) selvages to &lt; 1-3 mm wide ca ± ser veinlets (subparallel to 30° C.A.) and qtz-ser-ca ± cpy veinlets (35-45° C.A., 1-2 mm wide). Clay-ser-ca ± chl slips 55-60° C.A.</p> <p><i>Note:</i> 224.5-224.6 m: coarse cpy (3 X 8 mm in dimension) + bo ± mo (silver metallic grey associated w/ cpy) in irregular 1 cm wide chl-ser-ca ± qtz veins (subparallel -30° C.A., vuggy, possibly crackle breccia controlled). Frequency and intensity of fracturing and mineralized selvages/veins decreases towards end of sub-interval where only trace-rare cpy ± mo occurs.</p> <p><b>238.0-244.7 m:</b> Guichon is less fractured (2-5 per metre), altered (<b>weak</b>) and veined (ca ± hem ± ser ± ep, &lt; 1 per metre). Unweathered. <i>Note:</i> ep remains as significant mafic alteration product. Local stopes/xenoliths of dark grey-blue fine grained Bio-Hbl-Qtz Granodiorite – magnetic, digested, rounded, 2-20 cm in diam., unmineralized.</p> <p style="text-align: center;"><b>EOH 244.7 m</b></p>																
															<b>cont'd core logging</b>			



Diamond Drill Log																		
Project:		Getty Southwest			Northing: 5602810		-1 = absent				Core: NQ2		Azm	Dip				
Hole #:		BH96-2			Easting: 644160		1 = background/fresh				Collar	090	-45					
Date:		18-Sep-96			Elevation: 1704 m		2 = weak		4 = strong									
Logged by:		R. Whiteaker					3 = moderate		5 = intense									
Assays																		
Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample	Interval (m)		%Cu	%Cu
From	To													Number	From	To	Total	Non Sulf
0	3.0	overburden/casing												no samples sent in for assay:				
3.0	150.3	<p><b>Tertiary Volcanics</b></p> <p><b>3.0-12.6 m:</b> Dark grey-brown purox-oliv-hbl phyric/vesicular Basalt. Weakly magnetic, well fractured (10-15 per metre, ~ 50° and subparallel-30° C.A.). Weak lim on fractures increasing to end of sub-interval where it is locally pervasive (overall muddy-brown/yellow colour -- possibly related to clay alteration). Texture becomes pock marked towards end of sub-interval due to weathered out Fe-rich mafics. Weakly altered, moderately weathered.</p> <p><b>12.6-35.1 m:</b> Bedded/layered tuff-tuff breccia-pyroclastics with local fragments/blocks of Bio-Qtz-Hbl-Mag phyric dacite. (1 cm to 1 m wide, weakly altered, weakly to moderately weathered, light grey to purple-grey). Tuff breccia is mainly matrix (tuff) supported and multilithic containing angular fragments (3 mm-10 cm in average width) of dacite-hematized granitic-dionite/granodiorite-feldspar porphyry. Locally tuff breccia appears tectonically brecciated with interstitial cream-butterscotch coloured clay (?) -- possibly injected/compressed into breccia. Tuff-tuff breccia are locally pervasively limonitic (dull-bright yellow). Strong lim/hem staining locally (bright rusty yellow to curry-lime green). Overall moderately fractured (2-6 per metre, 35-55° C.A.) Locally, dacite blocks have a light dark grey banding which is irregularly foliated throughout unit.</p> <p><b>35.1-150.3 m:</b> Fine grained, black to dark-light grey porphyritic-vesicular basalt. Moderately magnetic, relatively unaltered, locally showing weak to moderate weathering/oxidation. Pyroxene phenocrysts have a subparallel trachytic texture. Vesicles (&lt;1.5 mm in diam.) filled by qtz-tridymite, pyroxene and magnetite (possible glomero-cysts). moderately to well fractured throughout (8-12 per metre average) ~ 30-40, 60° and subparallel to C.A.</p> <p><b>35.1-41.2 m:</b> Brick-red colour to basalt due to strong hem oxidation (possible paleo-weathering surface).</p> <p><b>94.0-94.5 m:</b> Fault brecciated basalt (~ 1 cm clasts, subangular in clay-lim cement) with well broken rock ~ 6 m up and down section.</p> <p><b>104.3-149.1 m:</b> Pyroclastic tuff flow breccia. Clast dominated -- basalt, dacite, tuff and local granitics are subrounded, have diffusive edges and average ~ 1-5 cm in diam. Matrix is tuffaceous (possibly dacitic), pale brown to cream colour and moderately weathered -- i.e. open spaces and cracks between clasts prominent (locally filled with a soft cream-yellow clay (?) which is lim stained.</p> <p style="text-align: center;"><b>EOH 149.1 m</b></p>																

Diamond Drill Log																			
Getty South Project GS96-01 (96-22) 30-May-96 V. Niessen				Location:		1 = background/fresh 2 = weak 3 = moderate			4 = strong 5 = intense			Core: HQ NQ2 from 213.5 m			Azimuth		Dip		
				Northing:								Collar		090		-45			
				Easting:															
				Elevation:															
				Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.															
													Assays						
(m)	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
7.0	Casing, Overburden	-	-	-	-	-	-	-	-	-	-	-	37022	7.0 9.0	0.02	-	<.001	5	0.1
													37023	9.0 11.0	0.03	-	<.001	5	0.1
24.0	Polymictic, matrix supported intrusive breccia, sub-rounded to angular clasts, coarse sand size to 2 cm in matrix, 5-10 cm, and occasional boulders to ~ 60 cm, fine grained black matrix- tourmaline? + chl ± spec. Calcite ± qtz void filling, locally.	0.01	0.05	-1	-1	-1	4	3	3	2	30	2	37024	11.0 13.0	0.02	-	<.001	5	0.1
													37025	13.0 15.0	0.02	-	<.001	5	0.1
													37026	15.0 17.0	0.02	-	<.001	5	0.1
													37027	17.0 19.0	0.01	-	<.001	5	0.1
													37028	19.0 21.0	0.02	-	<.001	5	0.1
	15.5-16.0 m: fault, clay gouge with milled clasts < 1 cm, shear at ~ 50° C.A.												37029	21.0 23.0	0.05	-	<.001	5	0.1
	- 5 % of clasts pale green, waxy, very strongly sericitic, possible volcanics?, 70-75% porphyntic intrusive;												37030	23.0 25.0	0.04	-	<.001	5	0.1
	20-25% probable Highland Valley Phase												37031	25.0 27.0	0.01	-	<.001	5	0.1
	Clasts not mineralized, trace to weakly magnetic; matrix non-magnetic												37032	27.0 29.0	0.01	-	<.001	5	0.2
	22.0-24.0 m: fault, clay gouge, milled clasts < 1 cm, local red FeOx												37033	29.0 31.0	0.02	-	<.001	5	0.2
	Weak mal locally on fractures.												37034	31.0 33.0	0.05	-	<.001	5	0.2
													37035	33.0 35.0	2.76	0.11	<.001	5	0.2
													37036	35.0 37.0	2.02	0.52	<.001	5	0.2
													37037	37.0 39.0	0.75	0.38	<.001	5	0.2
													37038	39.0 41.0	1.40	0.09	<.001	5	0.2
													37039	41.0 43.0	0.69	0.06	<.001	5	0.2
33.5	Polymictic, clast supported intrusion Breccia; rounded to sub-angular clasts 5-25 cm, smaller population	0.01	0.02	-1	-1	2	5	3	4	2	5	2	37040	43.0 45.0	1.94	0.07	<.001	5	0.2
	0.5-2 cm, locally. Fine grained black matrix - tourmaline? + chl + spec. Qtz + calcite void filling, locally vuggy, with coarsely crystalline qtz ± mal												37041	45.0 47.0	1.28	0.15	<.001	5	0.2
	Very Strong pervasive ser + chl ± ca altered clasts.												37042	47.0 49.0	3.50	0.37	<.001	5	0.1
	5-10 % clasts pale green, waxy, very strongly sericitic (volcanic clasts?)												37043	49.0 51.0	0.29	0.07	<.001	5	0.1
	Clasts trace to weakly magnetic, matrix non-magnetic												37044	51.0 53.0	0.07	-	<.001	5	0.1
	Clast margins and margins of qtz + ca filled voids frequently rimmed with 0.5-2 mm bands of specularite (more coarsely crystalline than that in the matrix)												37045	53.0 55.0	0.08	-	<.001	5	0.1
	Weak yellow FeOx locally in fractures. Fracture sets 60-70° C.A. and sub-parallel												37046	55.0 57.0	0.07	-	<.001	5	0.1
	31.9-32.1 m: gouge, 1-5 mm milled clasts in clay matrix; trace mal; shear at ~ 60° C.A.												37047	57.0 59.0	0.03	-	<.001	5	0.1
													37048	59.0 61.0	0.10	-	<.001	5	0.1
													37049	61.0 63.0	0.05	-	<.001	5	0.1
													37050	63.0 65.0	0.10	-	<.001	5	0.1
													37051	65.0 67.0	0.07	-	<.001	5	0.1
													37052	67.0 69.0	0.20	-	<.001	5	0.1
													37053	69.0 71.0	0.74	-	<.001	5	0.1
													37054	71.0 73.0	0.13	-	<.001	5	0.1
													37055	73.0 75.0	0.44	-	<.001	5	0.1

m) To	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
51.0	Dislocation breccia (autoclastic) mainly clast supported, locally matrix supported, vuggy Matrix composition variable tourmaline? + chl + spec, coarsely crystalline qtz ± ca ± mal, usually vuggy. cpy ± py ± spec ± earthy hem. Fine grained specularite generally nms clasts, becoming very fine grained to microcrystalline in matrix. <b>37.0-42.0 m:</b> coarse, drusy qtz void filling with trace mal. (Qtz crystals to 2 cm) Yellow and red-brown FeOx fracture filling, as pervasive stain and in breccia matrix, locally Cpy clots in matrix (cpy occasionally forms matrix) 1-3 cm, often with minor py. Cpy intergrowths in massive chalcocite with subordinate bornite and covellite, 45.5 m Clay filled fractures 60-70° C.A., occasionally sub-parallel and normal C.A., 4-5 per metre <b>46.0-48.0 m:</b> vuggy qtz ± ca ± mal void filling. Qtz and calcite usually coarsely crystalline. Specular hematite in matrix decreasing.	0.05	1	0.5	-1	2	5	2	3	3	5	2	37056	75.0	77.0	0.18	-	<.001	5	0.1
													37057	77.0	79.0	0.06	-	<.001	5	0.1
													37058	79.0	81.0	0.08	-	<.001	5	0.1
													37059	81.0	83.0	0.18	-	<.001	5	0.1
													37060	83.0	85.0	0.10	-	<.001	5	0.1
													37061	85.0	87.0	0.09	-	<.001	5	0.1
													37062	87.0	89.0	0.21	-	<.001	5	0.1
													37063	89.0	91.0	0.08	-	<.001	5	0.1
													37064	91.0	93.0	0.05	-	<.001	5	0.1
													37065	93.0	95.0	0.05	-	<.001	5	0.1
													37066	95.0	97.0	0.06	-	<.001	5	0.1
													37067	97.0	99.0	0.33	-	<.001	5	0.1
													37068	99.0	101.0	0.06	-	<.001	5	0.1
													37069	101.0	103.0	0.07	-	<.001	5	0.1
													37070	103.0	105.0	0.02	-	<.001	5	0.1
													37071	105.0	107.0	0.02	-	<.001	5	0.1
													37072	107.0	109.0	0.02	-	<.001	5	0.2
													37073	109.0	111.0	0.01	-	<.001	5	0.2
													37074	111.0	113.0	0.01	-	<.001	5	0.2
													37075	113.0	115.0	0.03	-	<.001	5	0.2
													37076	115.0	117.0	0.02	-	<.001	5	0.2
													37077	117.0	119.0	0.03	-	<.001	5	0.2
													37078	119.0	121.0	0.02	-	<.001	5	0.2
													37079	121.0	123.0	0.84	-	<.001	5	0.2
													37080	123.0	125.0	0.30	-	<.001	5	0.2
													37081	125.0	127.0	0.02	-	<.001	5	0.2
													37082	127.0	129.0	0.02	-	<.001	5	0.1
													37083	129.0	131.0	0.02	-	<.001	5	0.1
													37084	131.0	133.0	0.01	-	<.001	5	0.1
													37085	133.0	135.0	0.01	-	<.001	5	0.1
37086	135.0	137.0	0.01	-	<.001	5	0.1													
37087	137.0	139.0	0.02	-	<.001	5	0.1													
37088	139.0	141.0	0.01	-	<.001	5	0.1													
37089	141.0	143.0	0.02	-	<.001	5	0.1													
37090	143.0	145.0	0.01	-	<.001	5	0.1													
37091	145.0	147.0	0.01	-	<.001	5	0.1													
37092	147.0	149.0	0.01	-	<.001	5	0.1													
37093	149.0	151.0	0.01	-	<.001	5	0.1													
37094	151.0	153.0	0.01	-	<.001	5	0.1													
37095	153.0	155.0	0.02	-	<.001	5	0.1													
37096	155.0	157.0	0.02	-	<.001	5	0.1													

(m) To	Description	%Py	%Cpy	%Ba/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
84.0	Hbl-Bio-Granodiorite, <b>Guichon</b> variety, local weak brecciation Variable moderate to strong pervasive alteration Mafics strongly chl + ser + ca altered. Feldspars variably strongly saussuritic to ser + ca + ep altered. Local creamy/pale green-grey feldspars suggest weak pervasive albitization. Mod to strong chl + ser + ca + spec + tourmaline? fract filled. Fracture sets 60-80° C.A. and sub-parallel C.A. Local weak cpy fracture filling. Weak to moderately magnetic. Weak hem after mag. Black chl + spec + tourmaline? matrix where brecciated. Patchy fine grained, locally crystalline NCu in fractures and microfractures, weakly disseminated, locally and associated with chl + ser + ca altered mafics. Often occurs with bright orange CuOx, (positive H <sub>2</sub> SO <sub>4</sub> nail test) (CuOx after NCu). Suspect NCu will account for most of Cu values in this interval. <b>69.0-75.0 m:</b> polymictic, matrix supported intrusion breccia; sub-angular to sub-rounded clasts in variable grey to black fine grained matrix. ~ 50% of clasts are creamy to pale green-grey to tan coloured, siliceous. Many show curved/swirled banding/lamination (encrustation?) and appear to have been fragmented and weakly heated. Prominent lacy, dendritic NCu in fractures in this interval.	0.01	0.02	-1	-1	-1	3	3	3	2	17	2	37097	157.0	159.0	0.02	-	< .001	5	0.1
		37098	159.0	161.0	0.14	-	< .001	5	0.1											
		37099	161.0	163.0	0.01	-	< .001	5	0.1											
		37100	163.0	165.0	0.01	-	< .001	5	0.1											
		37101	165.0	167.0	0.02	-	< .001	5	0.1											
		37102	167.0	169.0	0.03	-	< .001	5	0.2											
		37103	169.0	171.0	0.01	-	< .001	5	0.2											
		37104	171.0	173.0	0.03	-	< .001	5	0.2											
		37105	173.0	175.0	0.02	-	< .001	5	0.2											
		37106	175.0	177.0	0.02	-	< .001	5	0.2											
		37107	177.0	179.0	0.02	-	< .001	5	0.2											
		37108	179.0	181.0	0.02	-	< .001	5	0.2											
		37109	181.0	183.0	0.05	-	< .001	5	0.2											
		37110	183.0	185.0	0.03	-	< .001	5	0.2											
		37111	185.0	187.0	0.01	-	< .001	5	0.2											
		37112	187.0	189.0	0.01	-	< .001	5	0.1											
		37113	189.0	191.0	0.01	-	< .001	5	0.1											
		37114	191.0	193.0	0.01	-	< .001	5	0.1											
		37115	193.0	195.0	0.01	-	< .001	5	0.1											
		37116	195.0	197.0	0.01	-	< .001	5	0.1											
		37117	197.0	199.0	0.01	-	< .001	5	0.1											
		37118	199.0	201.0	0.01	-	< .001	5	0.1											
		37119	201.0	203.0	0.02	-	< .001	5	0.1											
		37120	203.0	205.0	0.03	-	< .001	5	0.1											
		37121	205.0	207.0	0.03	-	< .001	5	0.1											
		37122	207.0	209.0	0.02	-	< .001	5	0.1											
		37123	209.0	211.0	0.02	-	< .001	5	0.1											
		37124	211.0	213.0	0.02	-	< .001	5	0.1											
		37125	213.0	215.0	0.02	-	< .001	5	0.1											
		37126	215.0	217.0	0.01	-	< .001	5	0.1											
		37127	217.0	219.0	0.02	-	< .001	5	0.1											
		37128	219.0	221.0	0.03	-	< .001	5	0.1											
		37129	221.0	223.0	0.02	-	< .001	5	0.1											
		37130	223.0	225.0	0.03	-	< .001	5	0.1											
		37131	225.0	227.0	0.02	-	< .001	5	0.1											
		37132	227.0	229.0	0.01	-	< .001	5	0.1											
		37133	229.0	231.0	0.01	-	< .001	5	0.1											
37134	231.0	233.0	0.02	-	< .001	5	0.1													
37135	233.0	235.0	0.02	-	< .001	5	0.1													
37136	235.0	237.0	0.02	-	< .001	5	0.1													
37137	237.0	239.0	0.02	-	< .001	5	0.1													

(m) To	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
102.5	Polymictic, matrix supported (locally clast supported)	0.05	0.5	-1	-1	2	4	3	3	2	12	-1	37138	239.0	241.0	0.02	-	<.001	5	0.1
	Intrusion Breccia, becomes coarser, clast supported												37139	241.0	243.0	0.03	-	<.001	5	0.1
	down section: 0.5-20 cm sub-rounded to sub-angular												37140	243.0	245.0	0.03	-	<.001	5	0.1
	strongly altered lithic clasts (75% Guichon variety Bio-												37141	245.0	247.0	0.09	-	<.001	5	0.1
	Qtz-Dionte, 25% various porphyries)												37142	247.0	249.0	0.02	-	<.001	5	0.1
	Clasts moderate to strongly chl + ser + ca + clay altered												37143	249.0	251.0	0.04	-	<.001	5	0.1
	Matrix trace to non-calcareous, chl + spec + tourma-												37144	251.0	253.0	0.03	-	<.001	5	0.1
	line? + qtz.												37145	253.0	255.0	0.02	-	<.001	5	0.1
	88.0-89.5 m: fault, shear at 50-60° C.A., several												37146	255.0	257.0	0.02	-	<.001	5	0.1
	10-20 cm sections clay gouge with milled clasts < 1 cm												37147	257.0	259.0	0.03	-	<.001	5	0.1
	Fracture sets 30-60° C.A. and sub-parallel. Moderate												37148	259.0	261.0	0.13	-	<.001	5	0.1
	to strong chl + ca + ser + spec fracture filled.												37149	261.0	263.0	0.02	-	<.001	5	0.1
	Sparse 0.5-1 cm cpy clots in matrix. Trace cpy replac-												37150	263.0	265.0	0.02	-	<.001	5	0.1
	ing strongly chl + ser + ca altered mafics in clasts.												37151	265.0	267.0	0.04	-	<.001	5	0.1
	Clasts trace to weakly magnetic, matrix non-magnetic.												37152	267.0	269.0	0.02	-	<.001	5	0.1
130.0	Hbl-Bio-Granodiorite, Guichon variety, local weak	-1	0.2	-1	-1	-1	3	3	3	-1	15	-1	37153	269.0	271.0	0.02	-	<.001	5	0.1
	brecciation. Local weak foliation (especially mafic												37154	271.0	273.0	0.02	-	<.001	5	0.1
	alignment) 30-40° C.A.												37155	273.0	275.0	0.02	-	<.001	5	0.1
	Moderate to strong chl + ser + ca + ep alteration of												37156	275.0	279.0	0.02	-	<.001	5	0.1
	mafics. Feldspars variably white, clouded to pale												37157	279.0	281.0	0.02	-	<.001	5	0.1
	green-grey, strongly saussuritized, to pervasive alb-												37158	281.0	283.0	0.02	-	<.001	5	0.1
	ep altered. Weak to moderately magnetic, weak hem												37159	283.0	285.0	0.01	-	<.001	5	0.1
	after mag.												37160	285.0	287.0	0.02	-	<.001	5	0.1
	Strongly chl + ca + ser + spec fracture filled. Fracture												37161	287.0	289.0	0.02	-	<.001	5	0.1
	sets 60-70° C.A., less frequently 20-30° and sub-												37162	289.0	291.0	0.03	-	<.001	5	0.1
	parallel to C.A.												37163	291.0	293.0	0.06	-	<.001	5	0.1
	Chl veins/veinlets 0.5-5 mm, 60-70° C.A., 3-4 per												37164	293.0	295.0	0.02	-	<.001	5	0.1
	metre, with weak to moderately developed alb + ep												37165	295.0	297.0	0.02	-	<.001	5	0.1
	envelopes, 0.5-2 cm.												37166	297.0	299.0	0.03	-	<.001	5	0.1
	Cpy clots 0.5-1 cm in brecciated sections. Trace ep												37167	299.0	301.1	0.02	-	<.001	5	0.1
replacing chl + ser ca altered mafics. Trace to weak	end of Assay information																			
fine grained NCu in fractures 117.0-119.0 m.																				

\*last composite only 6 samples.

1) To	Description	%Py	%Cpy	%Bo/ Cc	%Mo1y	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
185.8	<p>Hbl-bio-Qtz Diorite to Granodiorite, Guichon variety/  <b>Hybrid:</b> medium grained with intermittent textural variation. Locally fine to coarse grained mafic rich sections (10-20 cm) partially assimilated xenoliths. Local weak foliation. variable fresh to strong fracture controlled chl + ser + ca + clay altered. Moderate to strong chl + ser + ca + spec fracture filled. Fracture sets 20-70° C.A., rarely subparallel and normal C.A. Mafics moderate to strongly chl + ser + ca + ep altered. Feldspars white to pale creamy green, hard, with weak alb + ep where least altered, to strong ser + chl + ca altered in intensely fractured sections. Trace to weak NCu in fractures. Trace to weak cpy in 60-70° C.A. fractures, locally. NCu &gt; cpy.</p> <p><b>131.0-133.5 m:</b> Fault, 40-50° C.A., local gouge, 10-20 cm with milled clasts. Sense of slip dextral, ~ normal C.A.</p> <p><b>137.0-138.0 m:</b> Fault, 40° C.A. local thin gouge, 1-2 cm, sense of slip dextral, ~ normal C.A.</p> <p><b>139.0-141.0 m:</b> locally crushed, some slip surfaces ~ 70° C.A., local weak brecciation.</p> <p><b>143.0-146.5 m:</b> clay filled slips ~ 30° C.A., black matrix breccia 20-30 cm, broken as irregular dyke 2-3 cm, ~ 30° C.A., contains stoped wallrock particles.</p> <p><b>167.0-170.7 m:</b> Fault, dark green to black, strong chl + ser altered. Several 5-10 cm clay gouge sections, 50-60° C.A. Relict ep clots to 1 cm. Weak spec, trace NCu on fractures and slips.</p> <p><b>180.5-185.0 m:</b> Fault, two 30-40 cm sections crushed/gouge with milled clasts, ca vein fragments, 60 cm diast supported breccia with weak spec in black matrix.</p> <p>Non-magnetic where altered, weak to moderately magnetic elsewhere.</p>	0.01	0.05	-1	-1	-1	2	2	3	2	15	-1	cont'd core logging							

m) To	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
201.5	Hbl?-Plagioclase Crowded Porphyry, D3? variety, medium grained plagioclase phenos; chilled contacts. upper contact irregular, dark grey to black groundmass to 186.5 m; lower contact broken, dark grey groundmass 201.0-201.5 m. Plagioclase phenos pale grey-brown, hard (striations still evident), weakly saussuritic. Dark grey-green groundmass, moderate to strongly chl + ser + ca + ep altered. Scattered, diffuse ep patches 1-2 cm. Moderate to strong chl + ca + ser + spec fracture filled. Fractures sets 30-60° C.A., rarely sub-parallel and normal C.A. Weak yellow FeOx locally on fractures. Trace to weakly magnetic, hem after mag. Trace fine grained NCu locally on fractures. Fine grained spec in groundmass. Weak plagioclase alignment 60-70° C.A., locally.	-1	-1	-1	-1	-1	3	3	3	-1	4	-1	cont'd core logging							
236.0	Hbl-Bio-Qtz Diorite to Monzodiorite, Gulchon variety, pink mottled. Variable fresh to moderate, fracture controlled pervasive chl + ser + ca + ep altered. Feldspars generally hard, white to pale creamy green, weakly saussuritic. Moderate chl + ca + ser + ep ± spec fracture filled. Fracture sets 30-60° C.A., 5-10 per metre, less frequently sub-parallel and normal C.A. Local ca veins, 2-5 mm, sub-parallel, 1-2 cm alb + ep + chl envelopes. Black chl + qtz + tour ± ca ± spec veins, 2-10 mm, < 1 per metre, 40-50° C.A., several with 1-2 cm alb envelopes. Moderately magnetic where fresh, trace to non-magnetic where altered. Hem after mag. Trace cpy replacing chl + ser + ca altered mafics and in fractures. Trace to weak fine grained NCu chl filled fractures and in microfractures, usually associated with mafics. HQ core ends at 213.5 m	0.01	0.02	-1	-1	-1	2	2	2	-1	25	-1								

To	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
267.0	<p><b>Fault Zone</b></p> <p><b>236.0-249.0 m:</b> fault gouge/fault breccia; milled clasts &lt; 1 cm; shear at 40-50° C.A.</p> <p><b>249.0-267.0 m:</b> strongly fractured/broken Bio-Qtz-Diorite, <b>Guichon</b>; slip surfaces and thin gouge, 2-3 per metre, ~ 20° C.A. Local strong drill rounding. Mafics strongly chl + ser + ca ± clay altered. Feldspars chalky, strong ser ± clay ± ca altered. Feldspar porphyry fragments, strongly drill rounded, 259.0-260.5 m.</p> <p>Poor recovery (~ 60%) 255.0-262.0 m. Trace fine grained NCu in fractures. Local bright orange CuOx (CuOx after NCu) with NCu and yellow FeOx fracture filling.</p>	-1	-1	-1	-1	-1	3	4	2	4	0	-1	cont'd core logging							
301.1	<p>Hbl-bio-Qtz-Diorite, <b>Guichon</b> variety; variable moderate, locally strong pervasive chl ± ser ± ca ± ep altered. Feldspars pale green, locally chalky, ser + chl ± ca ± ep ± clay altered.</p> <p>Moderate to strong chl + ser + ca ± ep fracture filled. Clay filled slip surfaces, &lt;1 per metre, 30-50° C.A. Fracture sets 20-70° C.A. Irregular ca veins (calcite/ankerite?) 3-5 per metre, &lt; 0.5 cm, with weak red-brown FeOx stain. Trace to weak local NCu on fractures, usually with FeOx, occasionally with bright orange CuOx (CuOx after NCu.) Trace NCu with mafics.</p> <p><b>287.0-289.0 m:</b> Fault, locally crushed/gouge, strong chl + ser + ca altered. Several black chl + Qtz + ca + tourmaline? ± ep veins with ~ 1 cm alb envelopes, ~ 45° C.A. Trace to non-magnetic where strongly altered. Moderate to strongly magnetic elsewhere. Possible secondary mag?</p> <p style="text-align: center;"><b>EOH 301.1 m</b></p>	-1	-1	-1	-1	-1	3	3	3	2	5	-1								



Diamond Drill Log																					
Getty South Project GS96-02 6-Jun-96 D. Blann				Location: Northing: Easting: Elevation:				1 = background/fresh 2 = weak 3 = moderate				4 = strong 5 = intense				Core: HQ		Azimuth 090		Dip -45	
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.												Assays									
m)	To	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl + Ep	Clay	RQD %	Ox	Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
	7.6	Casing												37168	27.4 30.5	0.02	-	<.001	5	0.1	
	33.5	Dislocation Breccia: grey-green, medium grained, Qtz Dionite. Strongly broken, 10% recovery. Chl-ep-calcite altered matrix, and vein filling. Trace limonite ± hematite in veins.	-	-	-	-	2	1	3	1	-	-	-	37169	30.5 33.0	0.04	-	<.001	5	0.1	
														37170	33.0 35.0	0.04	-	<.001	5	0.1	
														37171	35.0 37.0	0.06	-	<.001	5	0.1	
														37172	37.0 39.0	0.02	-	<.001	5	0.1	
														37173	39.0 41.0	0.05	-	<.001	5	0.1	
														37174	41.0 43.0	0.04	-	<.001	5	0.1	
	52.0	Fault Breccia: grey, soft, polymictic intrusion breccia. Strong chl-ep-clay altered matrix, gouge. Bleached zones contain limonite, NCu. Fractures at 30, 45 and 80° C.A. Qtz-ca veins from 1-10 mm, locally Qtz vein breccia to 10 cm, with tourmaline.	-	0.05	-	-	2	4	3	4	4	0	4	37175	43.0 45.0	0.01	-	<.001	5	0.1	
														37176	45.0 47.0	0.02	-	<.001	5	0.1	
														37177	47.0 49.0	0.01	-	<.001	5	0.1	
														37178	49.0 51.0	0.02	-	<.001	5	0.1	
														37179	51.0 53.0	0.01	-	<.001	5	0.1	
														37180	53.0 54.9	0.01	-	<.001	5	0.1	
	54.8	Intrusion Breccia: dark grey-orange-green, medium grained Qtz Dionite, Gulchon. Strong cross cutting fractures filled with chl-ca-ep-qtz ± tourmaline?, specularite. NCu dendrites locally. 54.0-54.4 m: Dark fine grained feldspar porphyry dyke. Clots to specularite, local NCu.  EOH: HOLE LOST												*HOLE LOST							
																			*last composite is only 3 samples		

## Diamond Drill Log

Getty South  
GS96-03  
9-Jun-96  
D. Blann/V. Niessen

Location:

Northing:

Easting:

Elevation:

1 = background/fresh

2 = weak

3 = moderate

4 = strong

5 = intense

Core: HQ

NQ2 from 152.4 m

	Azimuth	Dip
Collar	090	-50

Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays							
												Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
													From	To					
Casing												37181	24.4	26.0	0.01	-	< 0.01	5	0.1
Fine polymictic Intrusive breccia/fault, pale grey-dark green, fine grained and medium grained bio-hbl-qtz Diorite and various feldspar porphyry breccia fragments Strong chl-ep-ser-calcite matrix. Pervasive, intense chl-clay fault gouge with hem. Qtz veinlets crosscut and fill fractures in breccia matrix. Cpy occurs in chl-ser-ca + qtz veins, 1-5 mm and locally in fragment matrix.	0.3	0.5	-	-	2	3	4	4	3	0	2	37182	26.0	28.0	0.01	-	< 0.01	5	0.1
												37183	28.0	30.0	0.01	-	< 0.01	5	0.1
												37184	30.0	32.0	0.01	-	< 0.01	5	0.1
												37185	32.0	34.0	0.01	-	< 0.01	5	0.1
												37186	34.0	36.0	0.02	-	< 0.01	5	0.1
												37187	36.0	38.0	0.02	-	< 0.01	5	0.1
												37188	38.0	40.0	0.03	-	< 0.01	5	0.1
												37189	40.0	42.0	0.01	-	< 0.01	5	0.1
												37190	42.0	44.0	0.03	-	< 0.01	5	0.1
33.0-37.2 m: intense clay altered fault, local sand fill (cave).												37191	44.0	46.0	0.23	-	< 0.01	5	0.1
37.5-47.6 m: Fault breccia. Locally broken, coarse cpy.												37192	46.0	48.0	0.32	-	< 0.01	5	0.1
												37193	48.0	50.0	0.03	-	< 0.01	5	0.1
												37194	50.0	52.0	0.01	-	< 0.01	5	0.1
												37195	52.0	54.0	0.01	-	< 0.01	5	0.1
Coarse, polymictic Intrusive breccia. Grey-green to dark green, medium grained Qtz Diorite, feldspar porphyry fragments, 5-50 cm. Strong pervasive chl-ser-calcite alteration and fracture fillings. Locally clay altered gouge zones. Minor qtz-calcite veins and breccia. Py and Cpy occur as clots and fine disseminations through pervasively altered matrix of select clasts (Cpy>py) and in veinlets, 1-3 mm, 10 & 45° C.A.	0.3	0.3	-	-	2	4	4	4	3	30	1	37196	54.0	56.0	0.01	-	< 0.01	5	0.1
												37197	56.0	58.0	0.04	-	< 0.01	5	0.1
												37198	58.0	60.0	0.01	-	< 0.01	5	0.1
												37199	60.0	62.0	0.19	-	< 0.01	5	0.1
												37200	62.0	64.0	0.15	-	< 0.01	5	0.1
												40201	64.0	66.0	0.25	-	0.001	5	0.2
												40202	66.0	68.0	0.16	-	0.001	5	0.2
												40203	68.0	70.0	0.40	-	0.001	5	0.2
70.0-71.5 m: Fault. FeOx gouge.												40204	70.0	72.0	0.50	-	0.001	5	0.2
76.5-77.0 m: Fault. Crushed zone												40205	72.0	74.0	0.46	-	0.001	5	0.2
78.0-86.0 m: local thin FeOx stained gouge, 0.5-1 cm, sub-parallel to 20° C.A. Scattered coarse cpy>py clots to 2 cm and as irregular veinlets 1-2 mm. Strong ca + qtz alteration. Local breccia with open spaces.												40206	74.0	76.0	0.17	-	0.001	5	0.2
												40207	76.0	78.0	0.31	-	0.001	5	0.2
												40208	78.0	80.0	0.14	-	0.001	5	0.2
												40209	80.0	82.0	0.26	-	0.001	5	0.2
												40210	82.0	84.0	0.54	-	0.001	5	0.2
												40211	84.0	86.0	0.17	-	< 0.01	< 5	0.1
												40212	86.0	88.0	0.05	-	< 0.01	< 5	0.1
												40213	88.0	90.0	0.19	-	< 0.01	< 5	0.1
												40214	90.0	92.0	1.04	-	< 0.01	< 5	0.1
												40215	92.0	94.0	0.14	-	< 0.01	< 5	0.1

Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
													From	To					
Fine grained volcanic? dyke, tan to pale olive green to grey-green, strong to intense pervasive ser + ca ± clay ± qtz altered. Locally, exhibits laminar, often swirled flow (fluidized?) fabric. Laminae at 30-40° C.A. Strongly altered lithic fragments trace to weakly magnetic--secondary magnetite? Trace to weak mal/chrys locally in fractures. Local bright orange CuOx (CuOx after NCu). Dark grey streaks and clots of qtz + chl + tourmaline (fine grained) with trace cpy>py. <b>90.0-92.0 m:</b> weak Fault, 30-40° C.A. 1 cm cpy vein parallel to gouge. Several 0.5-2 cm gouge sections. <b>106.0-108.0 m:</b> weak Fault, local thin gouge. <b>111.5-112.8 m:</b> weak Fault, locally crushed. <b>108.5-114.2 m:</b> Porphyritic interval. Soft, clay altered plagioclase phenos. Contact with breccia at 118.0 m. Laminae are bent and truncated at contact.  Heterolithic, groundmass supported Intrusion Breccia, strongly ser + ca + chl ± clay altered clasts, clast sizes 1-20 cm, sub-angular to rounded; 75% Highland Valley Phase. 15-20% various porphyries, 5-10% pale green to tan, fine grained volcanics. Dark grey to black fine grained qtz + chl ± tourmaline ± ca groundmass. <b>119.2-121.5 m:</b> tan to olive green, porphyry, locally exhibits strongly fluidized/strained fabric with prominent 40-50° C.A. lamination. Black spots and streaks with fine grained qtz + tourmaline + chl + cpy ± py. Fracture sets 20-70° C.A.; strong ser + ca ± clay fracture filled. Clasts trace to weakly magnetic, (secondary mag?). groundmass trace to non-magnetic. Trace, fine grained cpy disseminated in select clasts.	0.05	0.05	-1	-1	2	4	4	3	3	27	2	40216	94.0	96.0	0.11	-	<.001	<5	0.1
	40217	96.0	98.0	0.11	-	<.001	<5	0.1											
	40218	98.0	100.0	0.03	-	<.001	<5	0.1											
	40219	100.0	102.0	0.04	-	<.001	<5	0.1											
	40220	102.0	104.0	0.02	-	<.001	<5	0.1											
	40221	104.0	106.0	0.03	-	<.001	<5	0.1											
	40222	106.0	108.0	0.05	-	<.001	<5	0.1											
	40223	108.0	110.0	0.05	-	<.001	<5	0.1											
	40224	110.0	112.0	0.03	0.03	<.001	<5	0.1											
	40225	112.0	114.0	0.01	-	<.001	<5	0.1											
	40226	114.0	116.0	0.01	-	<.001	<5	0.1											
	40227	116.0	118.0	0.01	-	<.001	<5	0.1											
	40228	118.0	120.0	0.01	-	<.001	<5	0.1											
	40229	120.0	122.0	0.06	-	<.001	<5	0.1											
	40230	122.0	124.0	0.03	-	<.001	<5	0.1											
	40231	124.0	126.0	0.02	-	<.001	<5	0.1											
	40232	126.0	128.0	0.05	-	<.001	<5	0.1											
	40233	128.0	130.0	0.03	-	<.001	<5	0.1											
	40234	130.0	132.0	0.02	-	<.001	<5	0.1											
	40235	132.0	134.0	0.02	-	<.001	<5	0.1											
40236	134.0	136.0	0.01	-	<.001	<5	0.1												
40237	136.0	138.0	0.01	-	<.001	<5	0.1												
40238	138.0	140.0	0.01	-	<.001	<5	0.1												
40239	140.0	142.0	0.01	-	<.001	<5	0.1												
40240	142.0	144.0	0.01	-	<.001	<5	0.1												
40241	144.0	146.0	0.03	-	<.001	<5	0.1												
40242	146.0	148.0	0.03	-	<.001	<5	0.1												
40243	148.0	150.0	0.01	-	<.001	<5	0.1												
40244	150.0	152.0	0.02	-	<.001	<5	0.1												
40245	152.0	154.0	0.01	-	<.001	<5	0.1												
40246	154.0	156.0	0.01	-	<.001	<5	0.1												
40247	156.0	158.0	0.06	-	<.001	<5	0.1												
40248	158.0	160.0	0.01	-	<.001	<5	0.1												
40249	160.0	162.0	0.02	-	<.001	<5	0.1												
40250	162.0	164.0	0.01	-	<.001	<5	0.1												
40251	164.0	166.0	0.01	-	<.001	<5	0.1												
40252	166.0	168.0	0.01	-	<.001	<5	0.1												
40253	168.0	170.0	0.01	-	<.001	<5	0.1												
40254	170.0	172.0	0.01	-	<.001	<5	0.1												
40255	172.0	174.0	0.01	-	<.001	<5	0.1												
40256	174.0	176.0	0.01	-	<.001	<5	0.1												
40257	176.0	178.0	0.01	-	<.001	<5	0.1												
40258	178.0	180.0	0.03	-	<.001	<5	0.1												

	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
														From	To						
3	Heterolithic, groundmass supported intrusion Breccia, 20-25% strongly ser + chl + ca altered clasts, sub-rounded to rounded, often rimmed by waxy, green ser, tan to green laminated/swirled groundmass (exhibits fluidized fabric)-tan coloured section/laminae strongly siliceous, green laminae strongly sericitic. Bottom contact 40° C.A., chilled, 0.5-1 cm dark green chill margin. <b>141.0-141.8 m:</b> weak Fault, thin clay gouge, crushed sections, Sparse, relict ser + clay altered phenos in groundmass Trace to non-magnetic.	-1	0.03	-1	-1	3	4	3	3	2	40	-1		40259	180.0	182.0	0.01	-	<.001	<.5	0.1
														40260	182.0	184.0	0.01	-	<.001	<.5	0.1
														40261	184.0	186.0	0.01	-	<.001	<.5	0.1
														40262	186.0	188.0	0.01	-	<.001	<.5	0.1
														40263	188.0	190.0	0.01	-	<.001	<.5	0.1
														40264	190.0	192.0	0.02	-	<.001	<.5	0.1
														40265	192.0	194.0	0.01	-	<.001	<.5	0.1
														40266	194.0	196.0	0.01	-	<.001	<.5	0.1
														40267	196.0	198.0	0.01	-	<.001	<.5	0.1
														40268	198.0	200.0	0.01	-	<.001	<.5	0.1
														40269	200.0	202.0	0.01	-	<.001	<.5	0.1
														40270	202.0	204.0	0.01	-	<.001	<.5	0.1
														40271	204.0	206.0	0.01	-	<.001	<.5	0.1
														40272	206.0	208.0	0.01	-	<.001	<.5	0.1
														40273	208.0	210.0	0.01	-	<.001	<.5	0.1
0	Autoclastic (monolithic), locally heterolithic, clast supported intrusion Breccia, 75-80% of clasts are Guichon variety Hbl-Bio-Qtz-Monzodionite, 20-25% plagioclase crowded porphyry. Clasts moderate to strongly ser + chl + ca ± ep altered, locally red FeOx stained. Dark grey to black qtz + chl + tourmaline + spec + ca matrix with variable percentage of comminuted wallrock <b>147.8-151.0 m:</b> competent Hbl-Bio-Qtz Dionite, Guichon variety, mafics weakly chl + ca ± ep altered. Moderate to strongly magnetic. Trace to weak cpy + bo/Cc as small clots, 1-2 mm in matrix and occasionally in select clasts. <b>151.1-152.0 m:</b> Fault, 40° C.A., crushed. <b>160.8-171.0 m:</b> competent Hbl-Bio-Qtz Dionite, Guichon variety, locally fine grained, mafic rich; mafics weakly chl + ca ± ep altered. Moderate to strongly magnetic. Top and bottom 10-20 cm, dark strongly chl + ser altered. <b>152.0-153.8 m, 164.0-165.2 m and 171.0-172.0 m:</b> Plagioclase Crowded Porphyry, D37 variety, medium grained plagioclase phenos, pale grey-brown, generally hard, weakly sericitic. Dark grey-green groundmass, moderate to strongly chl + ser + ca ± ep altered. (conf. GS96-01, 185.8-201.5 m) Local ca ± ep ± spec open space filling, occasionally with cpy clots 2-3 mm. Strong chl + ser + ca ± clay fracture filled. Fracture sets 30-60° C.A.	-1	0.05	0.01	-1	-1	4	3	3	-1	30	2	40274	210.0	212.0	0.01	-	<.001	<.5	0.1	
													40275	212.0	214.0	0.01	-	<.001	<.5	0.1	
													40276	214.0	216.0	0.01	-	<.001	<.5	0.1	
													40277	216.0	218.0	0.02	-	<.001	<.5	0.1	
													40278	218.0	220.0	0.01	-	<.001	<.5	0.1	
													40279	220.0	222.0	0.01	-	<.001	<.5	0.1	
													40280	222.0	224.0	0.02	-	<.001	<.5	0.1	
													40281	224.0	226.0	0.02	-	<.001	<.5	0.1	
													40282	226.0	228.0	0.01	-	<.001	<.5	0.1	
													40283	228.0	230.0	0.01	-	<.001	<.5	0.1	
													40284	230.0	232.0	0.01	-	<.001	<.5	0.1	
													40285	232.0	234.0	0.01	-	<.001	<.5	0.1	
													40286	234.0	236.0	0.01	-	<.001	<.5	0.1	
													40287	236.0	238.0	0.02	-	<.001	<.5	0.1	
													40288	238.0	240.0	0.01	-	<.001	<.5	0.1	
40289	240.0	242.0	0.02	-	<.001	<.5	0.1														
40290	242.0	244.0	0.02	-	<.001	<.5	0.1														
40291	244.0	246.0	0.01	-	<.001	<.5	0.1														
40292	246.0	248.0	0.02	-	<.001	<.5	0.1														
40293	248.0	250.0	0.04	-	<.001	<.5	0.1														
40294	250.0	252.0	0.01	-	<.001	<.5	0.1														
40295	252.0	254.0	0.02	-	<.001	<.5	0.1														
40296	254.0	256.0	0.04	-	<.001	<.5	0.1														
40297	256.0	258.0	0.02	-	<.001	<.5	0.1														
40298	258.0	260.0	0.02	-	<.001	<.5	0.1														
40299	260.0	262.0	0.03	-	<.001	<.5	0.1														
40300	262.0	264.0	0.04	-	<.001	<.5	0.1														
40301	264.0	266.0	0.05	-	<.001	<.5	0.1														

Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
													From	To					
Plagioclase Crowded Porphyry, D3? variety, medium grained plagioclase phenos, weak to moderate ser + ca altered, pale grey-brown. Dark grey-green to grey groundmass, moderate to strongly chl + ser + ca ± ep altered. Moderate to strong chl + ser + ca ± clay fracture filled Local red FeOx ± spec in fractures. Fracture sets 30-60° C.A. <b>189.5-192.0 m:</b> pale green, bleached, strong qtz + ca + ser altered. Top and bottom contacts weak fault breccia with thin clay gouge. Suspect this is tan to green "volcanic" unit seen up section. Trace to non-magnetic.	-1	-1	-1	-1	-1	3	4	3	-1	10	2	40302	266.0	268.0	0.08	-	<001	<5	0.1
	40303	268.0	270.0	0.06	0.04	<001	<5	0.1											
	40304	270.0	272.0	0.02	<001	<5	0.1												
	40305	272.0	274.0	0.02	<001	<5	0.1												
	40306	274.0	276.0	0.02	<001	<5	0.1												
	40307	276.0	278.0	0.02	<001	<5	0.1												
	40308	278.0	280.0	0.45	<001	<5	0.1												
	40309	280.0	282.0	0.07	<001	<5	0.1												
	40310	282.0	284.0	0.07	<001	<5	0.1												
	40311	284.0	286.0	0.06	<001	<5	0.1												
	40312	286.0	288.0	0.03	<001	<5	0.1												
	40313	288.0	290.0	0.05	<001	<5	0.1												
	40314	290.0	292.0	0.02	<001	<5	0.1												
	40315	292.0	294.0	0.02	<001	<5	0.1												
Hbl-Bio-Qtz Diorite, Guichon variety, locally mafic rich, fine grained, local weak foliation. Monolithic, locally heterolithic, last supported intrusion Breccia; locally Fault brecciated, local competent sections of Guichon Q.D. to monzodiorite. Variable moderate to strong pervasive chl + ser ± ca ± ep altered. <b>202.7-205.0 m:</b> competent Guichon, mafics weak to moderately chl ± ca ± ep altered. Feldspars white to pale green, weakly sericitic. Ep veinlets, 1-2 mm, with 0.5-1 cm albite envelopes, 20-30° C.A., 2-3 per metre. <b>205.0-214.0 m:</b> Fault zone moderate to strong pervasive chl + ser + ca ± clay altered, crushed/milled sections, 30 cm gouge at bottom. Black qtz + chl + tourmaline? as intrusion breccia matrix and locally as crosscutting veinlets 1-5 mm. Strong ser + ca ± chl ± clay ± ep fracture filled. Local red FeOx in fractures. Trace cpy locally in breccia matrix as small, 1-2 mm, clots, and occasionally replacing altered mafics in select clasts. Moderate to strongly magnetic where competent; trace to non-magnetic elsewhere. <b>214.0-225.5 m:</b> competent clast supported black matrix intrusion breccia/Guichon Q.D.; prominent, patchy ep alteration of mafics and feldspars in clasts. Increasing cpy in matrix and replacing chl + ser + ca altered mafics. Ep + ca ± cp veinlets, 0.5-1 mm, with	-1	0.03	0.01	-1	-1	4	3	3	2	10	2	40316	294.0	296.0	0.03	0.21	<001	<5	0.1
	40317	296.0	298.0	0.08	<001	<5	0.1												
	40318	298.0	300.0	0.65	<001	<5	0.1												
	40319	300.0	302.0	0.08	<001	<5	0.1												
	40320	302.0	304.0	0.03	<001	<5	0.1												
	40321	304.0	306.0	0.74	<001	<5	0.1												
	40322	306.0	308.0	0.30	<001	<5	0.1												
	40323	308.0	310.0	0.33	<001	<5	0.1												
	40324	310.0	312.0	0.62	<001	<5	0.1												
	40325	312.0	314.0	0.03	<001	<5	0.1												
	40326	314.0	316.0	0.02	<001	<5	0.1												
	40327	316.0	318.0	0.06	<001	<5	0.1												
	40328	318.0	320.0	0.02	<001	<5	0.1												
	40329	320.0	322.0	0.01	<001	<5	0.1												
40330	322.0	324.0	0.02	<001	<5	0.1													
40331	324.0	326.0	0.01	0.02	<001	<5	0.1												
40332	326.0	328.0	0.02	<001	<5	0.1													
40333	328.0	330.0	0.02	<001	<5	0.1													
40334	330.0	332.0	0.03	<001	<5	0.1													
40335	332.0	334.0	0.02	<001	<5	0.1													
40336	334.0	336.0	0.01	<001	<5	0.1													
40337	336.0	338.0	0.02	<001	<5	0.1													
40338	338.0	338.9	0.01	<001	<5	0.1													
End of assay information													*last composite only 8 samples						

Description	%Py	%Cpy	%Bo/ Cc	%Moiy	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
													From	To					
<b>continued 197.2-225.5 m</b> weakly developed alb envelopes. trace cpy, bo/Cc replacing mafics in envelopes													<b>continued Core logging</b>						
Fine grained volcanic? dyke, tan to pale olive green to grey green, strong to intense pervasive ser + qtz + ca + chl altered. Variable swirled to laminated (fluidized) fabric. Laminae commonly 30-40° C.A. Green to olive green laminae are waxy, strongly sericitic. Tan sec- tions/laminae strongly siliceous. Chl + ca + red FeOx clots, 2-5 mm, speckled throughout. Local bright orange CuOx (positive nail test) in fractures. Trace very fine grained crystalline NCu with pink FeOx stained ser + clay in fractures, locally	-1	0.03	-1	-1	4	5	4	3	2	50	2								

9	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
	<p>Hbl-Bio-Qtz Diorite, <b>Guichon</b> variety, monolithic (autoclastic), locally heterolithic, generally clast supported intrusion Breccia with intervals of competent Guichon; matrix/groundmass supported intervals are generally heterolithic.</p> <p>Incipient chl ± ca alteration of mafics, feldspars fresh to hard, pale green, weakly sennitic, chl ± ep ± ca veinlets 4-5 per metre, 0.5-1 mm, with moderately developed chl + ser + ca ± ep ± alb envelopes, 0.5-1 cm, in competent sections.</p> <p>Moderate to strong pervasive chl + ser + ca + ep altered clasts in brecciated intervals, with patchy yellow and red FeOx staining ser.</p> <p>Dark green to black chl + qtz ± tourmaline ± ca as matrix and locally as crosscutting veinlets, 1-5 mm. Trace to weak cpy occurs locally as blebs, 3-4 mm, in matrix and rarely in veinlets. Trace Ncu locally in chl + ca ± ser filled fractures and slips, locally with mafics in select altered clasts and within strong chl + ser + ca envelopes, 2-3 cm, on fractures and veinlets.</p> <p><b>269.0-270.0 m:</b> weak Fault, 20-30 cm clay gouge 40-50° C.A.</p> <p><b>279.0-280.0 m:</b> weak Fault, ~50° C.A., coarsely crystalline qtz + ca with cpy blebs in vugs. Qtz + ca + spec + py open space filling.</p> <p><b>290.0-291.0 m:</b> Fault, 30-40° C.A. Local Fault Breccia, several 10-20 cm sections gouge; red FeOx at bottom, 30 cm.</p> <p><b>305.0-312.0 m:</b> coarse cpy as blebs, 1-2 cm, in breccia matrix (occasionally forming matrix), locally as coarse disseminations in wallrock. Qtz + ca open space filling 1-1.5 % cpy.</p> <p><b>325.0-328.0 m:</b> weak Fault, crushed, 10-20 cm gouge.</p>	0.01	0.2	-1	-1	-1	4	3	4	2	35	2		continued Core logging						
	<b>EOH 338.9 m</b>																			

**Diamond Drill Log**

Getty South Project  
GS96-4  
20-Jun-96  
V Niessen, D. Blann

**Location:**  
**Northing:** 1 = background/fresh 4 = strong  
**Easting:** 2 = weak 5 = intense  
**Elevation:** 3 = moderate

Core: NQ2

	Azimuth	Dip
Collar	090	-45

Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

o	Description	%Py	%Cpy	%Bo/Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Assays							
													Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
8	Casing												40339	16.8	18.8	0.01	-	<.001	5	0.1
10	<b>Fault zone, Hbl-Bio-Qtz Diorite, Guichon variety.</b> Variable matrix to coarse, clast supported fault breccia, intermittent clay gouge, 0.5-30.0 cm, with milled clasts, coarse sand size to 2 cm, [Fault brecciated black matrix breccia 16.8-45.0 m, weathered: weak, irregular cpy veinlets, locally, within black Qtz + chl + tourmaline? matrix.] Strong red FeOx stained clay matrix, gouge and clay fracture filling/slips to 70.0 m. Variable moderate to strong clay + ca + chl + FeOx fracture filled. Fractures slips, gouge 30-50° C.A., occasionally sub-parallel. Ep + ca + cpy + FeOx veinlets, 1-3 mm, 30-50° C.A., 5-10 per metre, in local competent sections, often feathery/anastomosing, with diffuse ep and moderate to well developed, 0.5-1 cm, alb envelopes. Variable moderate to strong pervasive albitization of feldspars. Mafics strongly chl + ser + ca + ep altered. Ep veinlets are crosscut, and frequently offset by 1-2 mm Qtz + ca veinlets, 30-50° C.A. Local yellow FeOx fracture filled. Trace mal locally in fractures with FeOx. Trace NCu, locally in fractures with FeOx. Crushed sulphides, cpy>>pyr. Locally in crush/gouge sections. Qtz + ca healed breccia and vein fragments, as clasts in fault breccia. These usually contain fine grained, blebby cpy. Trace chalcocite, locally with cpy intergrowths. Non-magnetic throughout.	0.01	0.1	-1	-1	-1	4	4	4	4	2	3	40340	18.8	20.8	0.01	-	<.001	5	0.1
													40341	20.8	22.8	0.01	-	<.001	5	0.1
													40342	22.8	24.8	0.03	-	<.001	5	0.1
													40343	24.8	26.8	0.03	-	<.001	5	0.1
													40344	26.8	28.8	0.03	-	<.001	5	0.1
													40345	28.8	30.8	0.03	-	<.001	5	0.1
													40346	30.8	32.8	0.05	-	<.001	5	0.1
													40347	32.8	34.8	0.12	-	<.001	5	0.1
													40348	34.8	36.8	0.06	-	<.001	5	0.1
													40349	36.8	38.8	0.02	-	<.001	5	0.1
													40350	38.8	40.8	0.01	-	<.001	5	0.1
													40351	40.8	42.8	0.01	-	<.001	5	0.1
													40352	42.8	44.8	0.04	-	<.001	5	0.1
													40353	44.8	46.8	0.02	-	<.001	5	0.1
													40354	46.8	48.8	0.01	-	<.001	5	0.1
													40355	48.8	50.8	<.01	-	<.001	5	0.1
													40356	50.8	52.8	<.01	-	<.001	5	0.1
													40357	52.8	54.8	0.01	-	<.001	5	0.1
													40358	54.8	56.8	0.02	-	<.001	5	0.1
													40359	56.8	58.8	0.03	-	0.001	5	0.2
													40360	58.8	60.8	0.10	-	0.001	5	0.2
													40361	60.8	62.8	0.04	-	0.001	5	0.2
													40362	62.8	64.8	0.03	-	0.001	5	0.2
													40363	64.8	66.8	0.25	-	0.001	5	0.2
													40364	66.8	68.8	0.41	-	0.001	5	0.2
													40365	68.8	70.8	0.07	-	0.001	5	0.2
													40366	70.8	72.8	0.02	-	0.001	5	0.2
													40367	72.8	74.8	0.16	-	0.001	5	0.2
													40368	74.8	76.8	0.54	-	0.001	5	0.2
													40369	76.8	78.8	0.08	-	<.001	5	0.1
													40370	78.8	80.8	0.02	-	<.001	5	0.1



0	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Cnl	Clay	ROD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
0	<b>Fault Zone</b> , Hbl-Bio-Qtz Dionte, Guichon variety, variable fresh to weakly propylitic altered clasts in clay fault breccia matrix.	-1	-1	-1	-1	-1	3	2	2	3	0	2	40371	80.8	82.8	0.03	-	< 0.01	5	0.1
													40372	82.8	84.8	0.03	-	< 0.01	5	0.1
													40373	84.8	86.8	0.05	-	< 0.01	5	0.1
	<b>89.0-90.3 m:</b> Highly broken, bleached, clay altered gouge filled fault breccia. Locally limonite-hematite												40374	86.8	88.8	0.01	-	*only 6 samples this composite		
													40375	88.8	90.3	0.02	-	0.001	5	0.1
													no sample	90.3	95.0	no sample	-	no sample	no sample	no sample
3.0	Hbl-bio-Qtz Dionte ( <b>Guichon</b> ). Fresh to weak perva- sive chl-ser-ca. Alb-ep-ca veinlets 1-5 mm locally Trace cpy replacing mafics in matrix. Scattered fine grained autoliths of Qtz Dionte (1-2 cm) locally contain 1-5 % cpy.	-1	0.1	-1	-1	-1	2	2	3	2	25	2	40376	95.0	97.0	0.03	-	0.001	5	0.1
													40377	97.0	99.0	0.03	-	0.001	5	0.1
													40378	99.0	101.0	0.02	-	0.001	5	0.1
													40379	101.0	103.0	0.01	-	0.001	5	0.1
													40380	103.0	105.0	0.02	-	0.001	5	0.1
	<b>103.0-105 + m:</b> Chl-ser-ep-calcite-alb increasing Trace cpy disseminated. Faulting increasing.												40381	105.0	107.0	0.33	-	0.001	5	0.1
													40382	107.0	109.0	0.03	-	0.001	5	0.1
	<b>105 + -107.0 m:</b> 5 cm dark chloritic fine grained dyke with coarse cpy clots (semi-massive vein at 80° C.A.) Strong calcite-ep. Chl-ep-ca veinlets also at subparallel - 25° C.A.												40383	109.0	111.0	0.06	-	0.001	5	0.1
													40384	111.0	113.0	0.01	-	0.001	5	0.1
													40385	113.0	115.0	0.04	-	< 0.01	5	0.1
													40386	115.0	117.0	0.04	-	< 0.01	5	0.1
	<b>107.0-108.5+ m:</b> Gouge decreasing, trace cpy locally.												40387	117.0	119.0	0.06	-	< 0.01	5	0.1
													40388	119.0	121.0	0.02	-	< 0.01	5	0.1
	<b>116.0-123.0 m:</b> several 1 metre sections of strong fracturing subparallel and 45° C.A. with chl-ser-qtz- ca alteration, veinlets, with earthy and specular hem- atite, trace disseminated cpy, locally clots in veins 3-10 mm.												40389	121.0	123.0	0.03	-	< 0.01	5	0.1
													40390	123.0	125.0	0.05	-	< 0.01	5	0.1
													40391	125.0	127.0	0.05	-	< 0.01	5	0.1
													40392	127.0	129.0	0.01	-	< 0.01	5	0.1
													40393	129.0	131.0	0.24	-	< 0.01	5	0.1
													40394	131.0	133.0	0.31	-	< 0.01	5	0.1
													40395	133.0	135.0	0.01	-	< 0.01	5	0.1
													40396	135.0	137.0	0.01	-	< 0.01	5	0.1
													40397	137.0	139.0	0.01	-	< 0.01	5	0.1
													40398	139.0	141.0	0.01	-	< 0.01	5	0.1
													40399	141.0	143.0	0.03	-	< 0.01	5	0.1
													40400	143.0	145.0	0.04	-	< 0.01	5	0.1
													40401	145.0	147.0	0.01	-	< 0.01	5	0.1
													40402	147.0	149.0	0.02	-	< 0.01	5	0.1
													40403	149.0	151.0	0.04	-	< 0.01	5	0.1
													40404	151.0	153.0	0.04	-	< 0.01	5	0.1
													40405	153.0	155.0	0.06	-	0.001	5	0.1
													40406	155.0	157.0	0.04	-	0.001	5	0.1
													40407	157.0	159.0	0.03	-	0.001	5	0.1
													40408	159.0	161.0	0.02	-	0.001	5	0.1

o	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)														
														From	To																			
3.7	Biotite-Hbl-Qtz Diorite (Guichon). Moderate pervasive chl (ep)-ser-clay-calcite. Plagioclase weakly altered to ser-ca biotite to chl- (mag)-hematite + ca. Trace cpy, bo, Cc ± NCu replacing hematite. Moderate to strongly broken with chl-clay gouge slips, locally fault breccia with hem, cpy (at 126.0 m, 3 cm, 135.0 m, 3 cm at 45° C.A., dark green). <b>128.0-130.0 m:</b> Pervasive chl-qtz-ca-clay, qtz veining, qtz vein breccia, healed with clay gouge. 1-2% cpy, trace bo in qtz, 40° C.A. Mineralized zone is crushed/milled. <b>At 134.5 m:</b> subparallel fractures displace strong orange Fe stained ca-qtz vein north laterally-east side down or south side to west/east. <b>136.0-137.0 m:</b> Strong FeOx gouge at 60° C.A. with shattered wallrock, clay filled fractures. <b>142.0-143.5 m:</b> Mineralized fault breccia, 0.5 cpy in chl-clay altered gouge matrix.	-1	0.1	0.1/0.1	-1	2	3	3	3	3	10	1	40409	161.0	163.0	0.02	-	0.001	5	0.1														
														40410	163.0	165.0	0.01	-	0.001	5	0.1													
														40411	165.0	167.0	0.02	-	0.001	5	0.1													
														40412	167.0	169.0	0.14	-	0.001	5	0.1													
														40413	169.0	171.0	0.02	-	0.001	5	0.1													
														40414	171.0	173.0	0.06	-	0.001	5	0.1													
														40415	173.0	175.0	0.02	-	<.001	5	0.1													
														40416	175.0	177.0	0.01	-	<.001	5	0.1													
														40417	177.0	179.0	0.01	-	<.001	5	0.1													
														40418	179.0	181.0	0.01	-	<.001	5	0.1													
														40419	181.0	183.0	0.22	-	<.001	5	0.1													
														40420	183.0	185.0	0.04	-	<.001	5	0.1													
														40421	185.0	187.0	0.04	-	<.001	5	0.1													
														40422	187.0	189.0	0.25	-	<.001	5	0.1													
														40423	189.0	191.0	1.13	-	<.001	5	0.1													
														40424	191.0	193.0	0.10	-	<.001	5	0.1													
														1.0	Medium grained Hbl-bio Qtz Diorite. Weak crowded porphyritic plagioclase, possible Bethlehem-scattered mafic clots; light coloured groundmass. Fresh, weak chl-ep-calcite. Moderate to strongly broken. Chl-ser-calcite-clay filled fractures at 0 & 45° C.A. Local hem fault gouge. Specularite replacing mafics at 150.0 calcite-ep vein with cpy 1 cm at 60 and 20° C.A.	0.1	0.1	-1	-1	-1	2	2	2	2	25	1	40427	197.0	199.0	0.05	-	<.001	5	0.1
40428	199.0	201.0	0.06	-	<.001	5	0.1																											
40429	201.0	203.0	0.32	-	<.001	5	0.1																											
40430	203.0	205.0	0.16	-	<.001	5	0.1																											
40431	205.0	207.0	0.08	-	<.001	5	0.1																											
40432	207.0	209.0	0.03	-	<.001	5	0.1																											
40433	209.0	211.0	0.04	-	<.001	5	0.1																											
40434	211.0	213.0	0.02	-	<.001	5	0.1																											
7.0	Bio-Hbl-Qtz Diorite (Guichon). Moderate pervasive chl + ep + albite. Qtz-calcite-chl-ep-clay filled fractures & gouge zones with trace cpy alteration increasing down section. top contact at 60° C.A.. Trace cpy replacing chl-ser-specularite mafics. Weak ep + veinlets, 2-3 per metre, 0.5-1 mm, 20-30° C.A. with bleached, FeOx stained alb envelopes. Trace to weakly magnetic where alb + ep altered; moderate to strongly magnetic elsewhere.	0.1	0.2	-1	-1	1	3	3	3	3	5	-1	40435															213.0	215.0	0.01	-	<.001	5	0.3
																												40436	215.0	217.0	0.01	-	<.001	5
														40437	217.0	219.0	0.06	-	<.001	5	0.3													
														40438	219.0	221.0	0.38	-	<.001	5	0.3													
														40439	221.0	223.0	0.01	-	<.001	5	0.3													
														40440	223.0	225.0	0.04	-	<.001	5	0.3													
														40441	225.0	227.0	0.08	-	<.001	5	0.3													
40442	227.0	229.0	0.03	-	<.001	5	0.3																											
													40443	229.0	231.0	0.02	-	<.001	5	0.3														
														40444	231.0	233.0	0.02	-	<.001	5	0.3													
														40445	233.0	235.0	0.01	-	<.001	5	0.2													
														40446	235.0	237.0	0.03	-	<.001	5	0.2													
														40447	237.0	239.0	0.01	-	<.001	5	0.2													

30	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)													
														From	To																		
30	<b>Fault Zone</b> , in Hbl-Bio-Qtz-Diorite, <b>Guichon</b> variety. Moderate to strong pervasive chl + ser + ca ± ep ± alb ± clay altered. Strong ser + ca + clay ± chl ± red FeOx fracture filled. Local fault breccia and clay gouge, frequently with crushed cpy. Local dark green to black irregular qtz + ca ± ep ± tourmaline ± cpy veins, 0.1-3 cm. <b>183.0-199.0 m:</b> strong to intense chl + ser + clay + ca altered, dark green, subparallel qtz + ca + spec + cpy vein, 1-2 cm; coarse cpy blebs in matrix of intrusion breccia.	0.05	0.1	0.01	-1	-1	4	3	4	3	5	2	40448	239.0	241.0	0.02	-	<.001	5	0.2													
													40449	241.0	243.0	0.02	-	<.001	5	0.2													
													40450	243.0	245.0	0.04	-	<.001	5	0.2													
													40451	245.0	247.0	0.06	-	<.001	5	0.2													
													40452	247.0	249.0	0.05	-	<.001	5	0.2													
													40453	249.0	251.0	0.05	-	<.001	5	0.2													
													40454	251.0	253.0	0.07	-	<.001	5	0.2													
													40455	253.0	255.0	0.01	-	<.001	5	0.2													
													40456	255.0	257.0	0.03	-	<.001	5	0.2													
													40457	257.0	259.0	0.02	-	<.001	5	0.2													
													40458	259.0	261.0	0.03	-	<.001	5	0.2													
													40459	261.0	263.0	1.73	-	<.001	5	0.2													
													34	Polyolithic, variable clast to matrix supported intrusion breccia in <b>Guichon</b> variety Bio-Qtz-Diorite 70%; grey brown, plagioclase crowded porphyry 20%; 10% various fine grained to porphyritic intrusive/volcanic (?) phases. Locally Fault brecciated with clay gouge sections + red FeOx staining. 210.0-213.0 m, 218.0-219.0 m, 222.5-229.0 m, 243.0-244.5 m, 255.5-258.0 m, strong to intense pervasive ser + ca + chl + clay altered with brecciated/ crushed ca + qtz ± cpy veins. Guichon clasts strongly ser + ca + chl ± clay ± ep altered, chl + ser + ca ± ep replacing bio and ser + ca ± clay ± ep replacing feldspars. Feldspar porphyry clasts weak to moderately ser + chl ± ca altered. Patchy ca ± cpy ± actinolite (?) ± ep open space filling, occasionally vuggy. Variable percentage of comminuted wallrock in black qtz + chl + ca ± tourmaline breccia matrix with patchy coarse cpy ± Cc/bo. <b>260.0-263.7 m:</b> reactivated fault breccia, strong cpy as coarse disseminations in qtz/ca fragments. Local chalky, argillic alteration. Crushed cpy in gouge. Local fine grained cpy weakly disseminated in Guichon clasts; increasing slightly down section. Strong alb + ep ± ca clast alteration, ep occasionally extends into matrix, 272.0-305.4 m. <b>EOH: 305.4 m</b>	-1	0.2	0.05	-1	-1	4	4	4	2	10	-1	40460	263.0	265.0	0.29	-	<.001	5	0.2
																										40461	265.0	267.0	0.03	-	<.001	5	0.2
																										40462	267.0	269.0	0.01	-	<.001	5	0.2
																										40463	269.0	271.0	0.01	-	<.001	5	0.2
																										40464	271.0	273.0	0.02	-	<.001	5	0.2
40465	273.0	275.0	0.03	-	<.001	5	0.2																										
40466	275.0	277.0	0.02	-	<.001	5	0.2																										
40467	277.0	279.0	0.01	-	<.001	5	0.2																										
40468	279.0	281.0	0.05	-	<.001	5	0.2																										
40469	281.0	283.0	0.05	-	<.001	5	0.2																										
40470	283.0	285.0	0.01	-	<.001	5	0.2																										
40471	285.0	287.0	0.01	-	<.001	5	0.2																										
40472	287.0	289.0	0.01	-	<.001	5	0.2																										
40473	289.0	291.0	0.01	-	<.001	5	0.2																										
40474	291.0	293.0	0.02	-	<.001	5	0.2																										
40475	293.0	295.0	0.02	-	<.001	5	0.1																										
40476	295.0	297.0	0.07	-	<.001	5	0.1																										
40477	297.0	299.0	0.01	-	<.001	5	0.1																										
40478	299.0	301.0	0.01	-	<.001	5	0.1																										
40479	301.0	303.0	0.01	-	<.001	5	0.1																										
40480	303.0	305.4	0.02	-	*last composite only 6 samples																												

**Diamond Drill Log**

Getty South Project  
 GS96-5  
 05-Jul-96  
 B. Perry, V. Niessen

**Location:**  
**Northing:** 1 = background/fresh 4 = strong  
**Easting:** 2 = weak 5 = intense  
**Elevation:** 3 = moderate

Core: NQ2

	<b>Azimuth</b>	<b>Dip</b>
<b>Collar</b>	090	-45

Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Assays							
												Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
Casing												47301	6.1	8.0	0.01	-	<.001	5	0.1
1) <b>Breccia Zone in Guichon</b> variety granodiorite, monomictic, sericitized + carbonized clasts varying extremely in size from <.1 cm and upwards of 15 cm, mostly cemented by tourmaline (?), but rarely qtz + ca. Occasionally mal/az, rare cpy as clots (1-5 cm) interstitial to clasts. Specular hematite abundantly below 35 m, uncommon above. Possibly very rare chalcocite. <b>30.9-33.4 m:</b> possible dykes, grey, fresh, crowded feldspar porphyry <b>44.5-45.2 m:</b> brown, argillic altered fine grained (dyke?) <b>61.9-62.2 m:</b> qtz veins, qtz cemented breccia with 3-5% cpy as patches 2-3 cm <b>62.2-62.4 m:</b> brown, argillic alteration zone, soft, + milled wallrock fragments 1-2 mm, some angular fragments.	<.01	<.01	-1	-1	-1	4	3	2	1	-30	2	47302	8.0	10.0	0.01	-	<.001	5	0.1
	47303	10.0	12.0	0.02	-	<.001	5	0.1											
	47304	12.0	14.0	0.02	-	<.001	5	0.1											
	47305	14.0	16.0	0.02	-	<.001	5	0.1											
	47306	16.0	18.0	0.01	-	<.001	5	0.1											
	47307	18.0	20.0	0.04	-	<.001	5	0.1											
	47308	20.0	22.0	0.26	-	<.001	5	0.1											
	47309	22.0	24.0	0.10	-	<.001	5	0.1											
	47310	24.0	26.0	0.02	-	<.001	5	0.1											
	47311	26.0	28.0	0.04	-	<.001	5	0.2											
	47312	28.0	30.0	0.01	-	<.001	5	0.2											
	47313	30.0	32.0	0.01	-	<.001	5	0.2											
	47314	32.0	34.0	0.01	-	<.001	5	0.2											
	47315	34.0	36.0	0.03	-	<.001	5	0.2											
47316	36.0	38.0	0.05	-	<.001	5	0.2												
47317	38.0	40.0	0.04	-	<.001	5	0.2												
47318	40.0	42.0	0.01	-	<.001	5	0.2												
47319	42.0	44.0	0.01	-	<.001	5	0.2												
1) <b>Heterolithic, clast supported Intrusion Breccia</b> , in <b>Guichon</b> variety Bio-Qtz-diorite and lesser brown, plagioclase crowded porphyry; locally matrix supported. Clasts moderate to strongly ser + ca + chl + clay altered. Dark green to black chl + qtz + ca + tourmaline? + specular hem matrix with rare cpy as clots to 0.5 cm. Overall alteration decreases down section. Guichon Quartz Diorite clasts frequently exhibit hard, pale creamy orange-brown FeOx stained feldspars in otherwise strongly chl + ser + ca altered matrix, suggests previous albitization (thin section?). Guichon variety clasts trace to weakly magnetic. Calcite void filling, locally vuggy with drusy calcite. Dark green-black chl + ca + hem + tourmaline? veins in Guichon variety, truncated at 118.1 m by chilled plagioclase crowded porphyry contact at 50° C.A. ~ 1 cm dark chill margin in porphyry.	-1	0.05	-1	-1	-1	4	3	3	2	25	2	47320	44.0	46.0	0.02	-	<.001	5	0.2
47321	46.0	48.0	<.01	-	<.001	5	0.1												
47322	48.0	50.0	<.01	-	<.001	5	0.1												
47323	50.0	52.0	<.01	-	<.001	5	0.1												
47324	52.0	54.0	0.01	-	<.001	5	0.1												
47325	54.0	56.0	0.01	-	<.001	5	0.1												
47326	56.0	58.0	0.02	-	<.001	5	0.1												
47327	58.0	60.0	0.02	-	<.001	5	0.1												
47328	60.0	62.0	0.14	-	<.001	5	0.1												
47329	62.0	64.0	0.17	-	<.001	5	0.1												
47330	64.0	66.0	0.02	-	<.001	5	0.1												
47331	66.0	68.0	0.08	-	<.001	5	0.2												
47332	68.0	70.0	0.05	-	<.001	5	0.2												
47333	70.0	72.0	0.02	-	<.001	5	0.2												
47334	72.0	74.0	0.02	-	<.001	5	0.2												
47335	74.0	76.0	0.01	-	<.001	5	0.2												
47336	76.0	78.0	0.01	-	<.001	5	0.2												
47337	78.0	80.0	0.19	-	<.001	5	0.2												
47338	80.0	82.0	0.01	-	<.001	5	0.2												
47339	82.0	84.0	0.02	-	<.001	5	0.2												
47340	84.0	86.0	0.02	-	<.001	5	0.2												

2	Description	%Py	%Cpy	%Bof Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
														From	To					
2	Heterolithic, mainly angular clast supported, intrusion Breccia in brown/grey-brown plagioclase crowded porphyry (85%) and Guichon variety Bio-Qtz-Diorite (15%). Plagioclase phenos hard, pale orange-brown, weakly ca + ser altered. Groundmass moderate to strongly chl + ser + ca altered. Guichon intervals exhibits stronger brecciation with greater percentage of black chl + ca + qtz ± tourmaline (?) matrix. Guichon clasts strong to intensely ser + ca + clay ± chl ± alb altered. Moderate to strong ser + chl + ca ± clay ± FeOx fracture filled. Fracture sets 30-60° C.A. Local strong yellow FeOx fracture filled. <b>119.0-120.0 m:</b> strong pervasive yellow FeOx stained; strong to intense ser + clay + ca altered, locally crushed. <b>132.0-133.0 m:</b> Fault; fault brecciated/milled; strong ser + ca, shear at 50° C.A.	-1	0.05	-1	-1	-1	4	4	3	2	25	2	47341	86.0	88.0	0.03	-	<.001	5	0.1
													47342	88.0	90.0	0.04	-	<.001	5	0.1
													47343	90.0	92.0	0.02	-	<.001	5	0.1
													47344	92.0	94.0	0.01	-	<.001	5	0.1
													47345	94.0	96.0	0.01	-	<.001	5	0.1
													47346	96.0	98.0	0.02	-	<.001	5	0.1
													47347	98.0	100.0	0.01	-	<.001	5	0.1
													47348	100.0	102.0	0.01	-	<.001	5	0.1
													47349	102.0	104.0	<.01	-	<.001	5	0.1
													47350	104.0	106.0	0.02	-	<.001	5	0.1
													47351	106.0	108.0	0.01	-	<.001	5	0.2
													47352	108.0	110.0	0.01	-	<.001	5	0.2
													47353	110.0	112.0	0.01	-	<.001	5	0.2
													47354	112.0	114.0	0.01	-	<.001	5	0.2
													47355	114.0	116.0	0.01	-	<.001	5	0.2
													47356	116.0	118.0	0.01	-	<.001	5	0.2
													47357	118.0	120.0	0.01	-	<.001	5	0.2
47358	120.0	122.0	0.01	-	<.001	5	0.2													
47359	122.0	124.0	0.01	-	<.001	5	0.2													
47360	124.0	126.0	0.01	-	<.001	5	0.2													
0	Heterolithic, mainly angular to sub-angular, clast supported intrusion breccia in Guichon variety Bio-Qtz-Diorite (50%) and brown/grey-brown plagioclase crowded porphyry (50%). Dark green to black chl + ca + qtz ± tourmaline? ± specular hem matrix with rare cpy grains < 1 mm. <b>152.0-160.0 m:</b> Fault; fault brecciated, locally crushed/milled with yellow FeOx stained clay matrix RQD = 0. Variable moderate to intense ser + ca ± clay ± chl ± alb clast alteration. Albitized patches are generally pale, creamy orange-brown, FeOx stained. Local a + spec hem void filling. Trace to non-magnetic throughout. <b>175.0-184.7 m:</b> weak Fault zone, locally crushed/ milled; local fault breccia; limonite stained where crushed; ~ 30 cm clay gouge at bottom, shear at 40° C.A. <b>193.5-197.0 m:</b> competent Guichon variety Qtz Diorite, moderate to strong chl + ser + ca ± alb; possible secondary, black biotite. Patchy red FeOx staining. <b>203.5-205.0 m:</b> Fault, crushed, local clay gouge < 10 cm.	-1	0.05	-1	-1	-1	4	4	3	2	23	2	47361	126.0	128.0	0.01	-	<.001	5	0.1
													47362	128.0	130.0	0.01	-	<.001	5	0.1
													47363	130.0	132.0	0.01	-	<.001	5	0.1
													47364	132.0	134.0	0.03	-	<.001	5	0.1
													47365	134.0	136.0	0.01	-	<.001	5	0.1
													47366	136.0	138.0	0.01	-	<.001	5	0.1
													47367	138.0	140.0	0.01	-	<.001	5	0.1
													47368	140.0	142.0	0.01	-	<.001	5	0.1
													47369	142.0	144.0	0.01	-	<.001	5	0.1
													47370	144.0	146.0	0.01	-	<.001	5	0.1
													47371	146.0	148.0	0.01	-	<.001	5	0.1
													47372	148.0	150.0	0.04	-	<.001	5	0.1
													47373	150.0	152.0	0.01	-	<.001	5	0.1
													47374	152.0	154.0	0.01	-	<.001	5	0.1
													47375	154.0	156.0	0.01	-	<.001	5	0.1
													47376	156.0	158.0	0.01	-	<.001	5	0.1
													47377	158.0	160.0	0.01	-	<.001	5	0.1
													47378	160.0	162.0	0.01	-	<.001	5	0.1
													47379	162.0	164.0	0.01	-	<.001	5	0.1
													47380	164.0	166.0	0.01	-	<.001	5	0.1
47381	166.0	168.0	0.01	-	<.001	5	0.1													
47382	168.0	170.0	0.01	-	<.001	5	0.1													
47383	170.0	172.0	0.01	-	<.001	5	0.1													
47384	172.0	174.0	0.01	-	<.001	5	0.1													
47385	174.0	176.0	0.01	-	<.001	5	0.1													
47386	176.0	178.0	0.01	-	<.001	5	0.1													
47387	178.0	180.0	0.01	-	<.001	5	0.1													

	Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Suff	%Mo	Au (g/t)	Ag (g/t)
														From	To					
0	<b>Fault zone</b> in heterolithic intrusion Breccia, Guichon Qtz Diorite and brown to grey plagioclase crowded porphyry.	-1	0.1	-1	-1	2	5	4	4	3	5	2	47388	180.0	182.0	0.01	-	<0.01	5	0.1
													47389	182.0	184.0	0.01	-	<0.01	5	0.1
													47390	184.0	186.0	0.02	-	<0.01	5	0.1
	<b>207.0-207.5 m:</b> Qtz + ca + hem healed fault breccia with open spaces: fine grained cpy blebs < 1 cm.												47391	186.0	188.0	0.01	-	<0.01	5	0.2
													47392	188.0	190.0	0.01	-	<0.01	5	0.2
	<b>213.0-216.5 m:</b> gouge/fault breccia, locally with open spaces: ca healed/cemented.												47393	190.0	192.0	0.01	-	<0.01	5	0.2
													47394	192.0	194.0	0.01	-	<0.01	5	0.2
	<b>222.0-224.0 m:</b> Qtz + ca + hem healed fault breccia; 2-3 % cpy as coarse blebs. Qtz + ca + hem + cpy vein, 1-2 cm, subparallel. Cpy often has rnd of silver-grey metallic chalcocite and/or purple/blue- purple lamish (diginite?)												47395	194.0	196.0	0.01	-	<0.01	5	0.2
													47396	196.0	198.0	0.02	-	<0.01	5	0.2
													47397	198.0	200.0	0.01	-	<0.01	5	0.2
													47398	200.0	202.0	0.01	-	<0.01	5	0.2
													47399	202.0	204.0	0.01	-	<0.01	5	0.2
	<b>224.0-230.0 m:</b> clay gouge, 40° C.A., with milled clasts usually < 1 cm												47400	204.0	206.0	0.01	-	<0.01	5	0.2
													47401	206.0	208.0	0.08	-	0.001	5	0.4
													47402	208.0	210.0	0.01	-	0.001	5	0.4
													47403	210.0	212.0	0.01	-	0.001	5	0.4
+	Hbl-Bio-Qtz Diorite, <b>Guichon</b> variety, variable fresh to moderate, fracture controlled chl + ser + ca + ep + alb alteration.	-1	-1	-1	-1	-1	3	2	3	-1	30	-1	47404	212.0	214.0	0.02	-	0.001	5	0.4
													47405	214.0	216.0	0.02	-	0.001	5	0.4
													47406	216.0	218.0	0.04	-	0.001	5	0.4
	Mafics moderate to strongly chl + ser + ca + ep + alb altered; feldspars generally hard, pink speckled, (probably deuteric effect), to pale green-white, weakly sericitic, occasionally ep + ca + alb altered.												47407	218.0	220.0	0.14	-	0.001	5	0.4
													47408	220.0	222.0	0.08	-	0.001	5	0.4
													47409	222.0	224.0	0.82	-	0.001	5	0.4
													47410	224.0	226.0	0.86	-	0.001	5	0.4
	Moderate to strong ser + ca + chl + FeOx + clay fracture filled. Fracture sets 20-70° C.A.												47411	226.0	228.0	0.10	-	<0.01	5	0.1
													47412	228.0	230.0	0.06	-	<0.01	5	0.1
	Weak to moderately magnetic.												47413	230.0	232.0	0.02	-	<0.01	5	0.1
	Qtz + ca + ep veins, < 1 per metre, 0.5-3 cm												47414	232.0	234.0	0.06	-	<0.01	5	0.1
													47415	234.0	236.0	0.02	-	<0.01	5	0.1
	<b>EOH: 268.2 m</b>												47416	236.0	238.0	0.03	-	<0.01	5	0.1
													47417	238.0	240.0	0.02	-	<0.01	5	0.1
													47418	240.0	242.0	0.02	-	<0.01	5	0.1
													47419	242.0	244.0	0.02	-	<0.01	5	0.1
													47420	244.0	246.0	0.02	-	<0.01	5	0.1
													47421	246.0	248.0	0.01	-	<0.01	5	0.1
													47422	248.0	250.0	0.01	-	<0.01	5	0.1
													47423	250.0	252.0	0.02	-	<0.01	5	0.1
													47424	252.0	254.0	0.02	-	<0.01	5	0.1
													47425	254.0	256.0	0.02	-	<0.01	5	0.1
													47426	256.0	258.0	0.01	-	<0.01	5	0.1
													47427	258.0	260.0	0.01	-	<0.01	5	0.1
													47428	260.0	262.0	0.02	-	<0.01	5	0.1
													47429	262.0	264.0	0.02	-	<0.01	5	0.1
													47430	264.0	266.0	0.03	-	<0.01	5	0.1
													47431	266.0	268.2	0.03	-	<0.01	5	0.1
													*last composite 11 samples							
													end of assay information							

<b>Diamond Drill Log</b>																				
Getty South Property GS96-6 11-Jul-96 V Niessen, D. Blann		Location: <b>Northing:</b> 5600747 <b>Easting:</b> 642153 <b>Elevation:</b> 1610 m		1 = background/fresh 2 = weak 3 = moderate			4 = strong 5 = intense			Core: NQ2		Azimuth		Dip						
												Collar		090		-45				
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																				
Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays								
												Sample Number	Interval (m) From To		%Cu Total	%Cu Non Suff	%Mo	Au (ppb)	Ag (g/t)	
5 Casing, overburden												47432	12.5	14.5	0.02	-	<001	5	0.1	
												47433	14.5	16.5	0.02	-	<001	5	0.1	
) Bio-Qtz-Diorite to Qtz Monzodiorite, <b>Guichon</b> variety, variable moderate to strong fracture controlled pervasive alteration. Mafics strongly chl + ser + ca + ep altered. First appearance trace NCu associated with altered mafics at 16.0 m. Feldspars variably alb + ep + ca to strong ser + ca + chl + ep altered. Weak to moderately magnetic where weakly altered. Trace to non-magnetic where strongly altered (especially alb + ep). <b>29.0-45.0 m:</b> moderate to strong pervasive alb + ep, spec and earthy hem as breccia matrix and/or fracture filled often with fine grained NCu. Trace to weak mal/az in breccia matrix. <b>43.5-44.5 m:</b> dark grey-green, fine grained bio- qtz-diorite dyke (?). Pervasive ser altered plagioclase increases down section. Trace to weak NCu and cpy associated with mafic increases down section.	-1	0.5	0.25	-1	2	4	3	4	3	5	-1	47434	16.5	18.5	0.02	-	<001	5	0.1	
												47435	18.5	20.5	0.08	-	<001	5	0.1	
													47436	20.5	22.5	0.02	-	<001	5	0.1
													47437	22.5	24.5	0.01	-	<001	5	0.1
													47438	24.5	26.5	0.02	-	<001	5	0.1
													47439	26.5	28.5	0.03	-	<001	5	0.1
													47440	28.5	30.5	0.04	-	<001	5	0.1
													47441	30.5	32.5	0.06	-	<001	5	0.1
													47442	32.5	34.5	0.51	-	<001	5	0.1
													47443	34.5	36.5	0.05	-	<001	5	0.1
													47444	36.5	38.5	0.09	-	<001	5	0.1
													47445	38.5	40.5	0.15	-	<001	5	0.1
													47446	40.5	42.5	0.23	-	<001	5	0.1
													47447	42.5	44.5	0.04	-	<001	5	0.1
													47448	44.5	46.5	0.03	-	<001	5	0.1
													47449	46.5	48.5	0.07	-	<001	5	0.1
													47450	48.5	50.5	0.06	-	<001	5	0.1
												47451	50.5	52.5	0.06	-	<001	5	0.1	
) Heterolithic Intrusive Breccia; <b>NCu</b> interval up to 1% , patchy. Strongly faulted breccia zone with limonitic gouge, NCu dendrites and plates. Qtz + ca + chl + tourmaline (?) breccia matrix with vuggy qtz. Gouge, crush zones 60° C.A. 10% dark, very fine grained, shattered siliceous clasts. Patchy NCu down section, cpy/chalc increasing down section. Spec replacing mag.	-1	0.5	0.25	-1	2	4	3	4	3	5	-1	47452	52.5	54.5	0.11	-	<001	5	0.1	
												47453	54.5	56.5	0.16	-	<001	5	0.1	
													47454	56.5	58.5	0.48	-	<001	5	0.1
													47455	58.5	60.5	3.00	-	<001	5	0.1
													47456	60.5	62.5	0.46	-	<001	5	0.1
													47457	62.5	64.5	0.05	-	<001	5	0.1
													47458	64.5	66.5	0.11	-	<001	5	0.1
													47459	66.5	68.5	0.28	-	<001	5	0.1
													47460	68.5	70.5	0.67	-	<001	5	0.1
													47461	70.5	72.5	0.99	-	<001	5	0.1
													47462	72.5	74.5	0.07	-	0.001	5	0.2
													47463	74.5	76.5	0.04	-	0.001	5	0.2
												47464	76.5	78.5	0.12	-	0.001	5	0.2	
												47465	78.5	80.5	0.19	-	0.001	5	0.2	
												47466	80.5	82.5	0.02	-	0.001	5	0.2	
												47467	82.5	84.5	0.02	-	0.001	5	0.2	
												47468	84.5	86.5	0.17	-	0.001	5	0.2	
												47469	86.5	88.5	0.21	-	0.001	5	0.2	
												47470	88.5	90.5	0.18	-	0.001	5	0.2	
												47471	90.5	92.5	0.19	-	0.001	5	0.2	

Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
													From	To					
Polyolithic Intrusive/Volcanic (?) Breccia, 20% very fine grained, dark siliceous fragments (Nicola meta-sediments?) cross cut by cpy veinlets <b>73.0-76.5 m:</b> Light pale green pervasive ser-clay feldspar porphyry dyke. Clay altered plagioclase phenos. Siliceous fragments are FeOx rimmed <b>90.6-93.0 m:</b> fault breccia with limonite stained clay gouge sections. Intensely sericitic grey green volcanic (?) dyke. Trace NCu associated with FeOx rimming clasts	-1	0.5	0.1	-1	1	4	2	3	3	20	-1	47472	92.5	94.5	0.01	-	<0.01	5	0.1
	47473	94.5	96.5	0.01	-	<0.01	5	0.1											
	47474	96.5	98.5	0.01	-	<0.01	5	0.1											
	47475	98.5	100.5	0.04	-	<0.01	5	0.1											
	47476	100.5	102.5	0.03	-	<0.01	5	0.1											
	47477	102.5	104.5	0.10	-	<0.01	5	0.1											
	47478	104.5	106.5	0.08	-	<0.01	5	0.1											
	47479	106.5	108.5	0.15	-	<0.01	5	0.1											
	47480	108.5	110.5	0.05	-	<0.01	5	0.1											
	47481	110.5	112.5	0.32	-	<0.01	5	0.1											
Polyolithic, generally clast supported, Intrusion Breccia, <b>Fault zone.</b> Angular to sub-angular, strongly ser + chl ± ca ± clay altered clasts in black qtz + chl ± ca ± tourmaline matrix. <b>95.0-98.0 m:</b> weak Fault, locally crushed with thin clay gouge; subparallel shear, strong pervasive limonite staining. <b>104.2-108.8 m:</b> Fault, locally crushed/milled 30 cm clay gouge, ~40° C.A.; strong limonite staining clasts and in matrix. Patchy NCu in limonite on clast margins. Trace cpy in select clasts (Guichon variety). Trace to non-magnetic.	-1	0.1	0.05	-1	-1	4	3	3	3	25	-1	47482	112.5	114.5	0.03	-	<0.01	5	0.1
	47483	114.5	116.5	0.65	-	<0.01	5	0.1											
	47484	116.5	118.5	0.34	-	<0.01	5	0.1											
	47485	118.5	120.5	0.40	-	<0.01	5	0.1											
	47486	120.5	122.5	0.09	-	<0.01	5	0.1											
	47487	122.5	124.5	0.01	-	<0.01	5	0.1											
	47488	124.5	126.5	0.04	-	<0.01	5	0.1											
	47489	126.5	128.5	0.06	-	<0.01	5	0.1											
	47490	128.5	130.5	0.04	-	<0.01	5	0.1											
	47491	130.5	132.5	0.03	-	<0.01	5	0.1											
Polyolithic, variable clast to matrix supported Intrusion/Volcanic (?) Breccia; rounded to sub-rounded clasts; Guichon variety 50%, feldspar porphyry 40-45%, intensely ser + clay altered pale green volcanic (?) clasts 5-10 % Patchy pink to red FeOx staining, especially feldspar porphyry clasts, hem after mag. Strong pervasive ser + chl ± clay ± qtz ± ca altered clasts, pale green to yellow-green. Black, fine grained qtz + chl + tourmaline ± ca matrix with patchy coarse cpy as clast and locally filling interclast spaces. <b>122.0-125.5 m:</b> pale yellow-green laminated to swirled porphyritic volcanic (?) dyke. Laminae at 40-50° C.A. locally. Strong to intensely sericitic. Local limonite staining.	-1	0.5	0.05	-1	2	4	2	3	3	55	-1	47492	132.5	134.5	0.02	-	<0.01	5	0.1
	47493	134.5	136.5	0.02	-	<0.01	5	0.1											
	47494	136.5	138.5	0.05	-	<0.01	5	0.1											
	47495	138.5	140.5	0.02	-	<0.01	5	0.1											
	47496	140.5	142.5	0.05	-	<0.01	5	0.1											
	47497	142.5	144.5	0.04	-	<0.01	5	0.1											
	47498	144.5	146.5	0.24	-	<0.01	5	0.1											
	47499	146.5	148.5	0.03	-	<0.01	5	0.1											
	47500	148.5	150.5	0.12	-	<0.01	5	0.1											
	47501	150.5	152.5	0.08	-	<0.01	5	0.1											
	47502	152.5	154.5	0.10	-	<0.01	5	0.1											
	47503	154.5	156.5	0.03	-	<0.01	5	0.1											
	47504	156.5	158.5	0.10	-	<0.01	5	0.1											
	47505	158.5	160.5	0.12	-	<0.01	5	0.1											
	47506	160.5	162.5	0.03	-	<0.01	5	0.1											
	47507	162.5	164.5	0.08	-	<0.01	5	0.1											
	47508	164.5	166.5	0.02	-	<0.01	5	0.1											
	47509	166.5	168.5	0.02	-	<0.01	5	0.1											
	47510	168.5	170.5	0.01	-	<0.01	5	0.1											
	47511	170.5	172.5	0.02	-	<0.01	5	0.1											
47512	172.5	174.5	0.01	-	0.001	5	0.2												
47513	174.5	176.5	0.01	-	0.001	5	0.2												
47514	176.5	178.5	0.01	-	0.001	5	0.2												
47515	178.5	180.5	0.01	-	0.001	5	0.2												
47516	180.5	182.5	0.01	-	0.001	5	0.2												
47517	182.5	184.5	0.01	-	0.001	5	0.2												
47518	184.5	186.5	0.16	-	0.001	5	0.2												
47519	186.5	188.5	0.28	-	0.001	5	0.2												



Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
													From	To					
Heterolithic, clast supported, locally matrix supported Intrusion Breccia in Bio-Qtz-Diorite. Guichon variety 80-90%, pink to brown feldspar porphyry 10-20%. Variable weak to strong pervasive ser + chl ± ca ± alb altered. Mafics strong to intense chl + ser ± ca ± clay altered. Feldspars variably weak to strongly ser ± chl ± ca ± alb altered. Ca open space filling, frequently with bladed/radiating bundles of spec hem, occasionally vuggy Black to dark green-black qtz + chl + tourmaline ± ca ± spec matrix with minor interstitial cpy. Rare 1-3 mm veinlets of radiating, black tourmaline. <b>141.5-145.0 m: Fault, milled with local clay gouge</b> 40-50° C.A.; strongly calcareous; crushed cpy ± Bo/ Cc <b>145.5-146.6 m: pale green laminated porphyritic</b> volcanic (?) dyke. Laminae at 60-70° C.A. Scattered lithic fragments < 1 cm. <b>187.0-192.0 m: strong, patchy cpy in breccia</b> matrix. <b>193.5-196.0 m: strongly broken locally crushed,</b> local strong limonite ± NCU.	-1	0.1	-1	-1	-1	4	2	3	-1	45	-1	47520	188.5	190.5	0.33	-	0.001	5	0.2
	47521	190.5	192.5	0.09	-	0.001	5	0.2											
	47522	192.5	194.5	0.04	-	<0.001	5	0.1											
	47523	194.5	196.5	0.33	-	<0.001	5	0.1											
	47524	196.5	198.5	0.05	-	<0.001	5	0.1											
	47525	198.5	200.5	0.03	-	<0.001	5	0.1											
	47526	200.5	202.5	0.03	-	<0.001	5	0.1											
	47527	202.5	204.5	0.02	-	<0.001	5	0.1											
	47528	204.5	206.5	0.02	-	<0.001	5	0.1											
	47529	206.5	208.5	0.02	-	<0.001	5	0.1											
	47530	208.5	210.5	0.02	-	<0.001	5	0.1											
	47531	210.5	212.5	0.02	-	<0.001	5	0.1											
	47532	212.5	214.5	0.02	-	<0.001	5	0.1											
	47533	214.5	216.5	0.02	-	<0.001	5	0.1											
	47534	216.5	218.5	0.02	-	<0.001	5	0.1											
	47535	218.5	220.5	0.20	-	<0.001	5	0.1											
	47536	220.5	222.5	0.02	-	<0.001	5	0.1											
	47537	222.5	224.5	0.03	-	<0.001	5	0.1											
	47538	224.5	226.5	0.19	-	<0.001	5	0.1											
	47539	226.5	228.5	0.15	-	<0.001	5	0.1											
47540	228.5	230.5	0.04	-	<0.001	5	0.1												
47541	230.5	232.5	0.03	-	<0.001	5	0.1												
47542	232.5	234.5	0.03	-	<0.001	5	0.1												
Heterolithic, generally clast supported, Intrusion Breccia, in Bio-Qtz Diorite, Guichon variety 70-80%, and brown, plagioclase crowded porphyry 20-30%. Dark green to black qtz + tourmaline + chl ± ca ± spec matrix; local incomplete void filling. Strong pervasive ser + chl + ca ± alb ± ep alteration in Guichon Qtz Diorite, trace to non-magnetic, hem after mag. Guichon clasts often exhibit chl + alb ± ep altered rims and strong chl + ser + ca ± ep altered cores. Generally weaker overall ser + chl + ca alteration in feldspar porphyry clasts, weak to moderate magnetism. Ca + cpy ± spec ± earthy hem open space filling, often vuggy. Moderate to strong chl + ser + ca ± limonite fracture filled. Fracture sets 30-60° C.A. <b>209.5 m: Limonite vein, 2 cm, 50° C.A. with several</b> 1 cm euhedral qtz crystals. Trace to weak cpy ± bo/Cc replacing strongly chl + ser + ca altered mafics in Guichon Qtz Diorite clasts, increasing down section. <b>250.0-254.5 m: Fault, locally crushed/milled;</b> several clay gouge sections with crushed qtz + ca + cpy veins. Shear at 30-40° C.A.	-1	0.5	-1	-1	-1	4	4	4	2	30	-1	47543	234.5	236.5	0.03	-	<0.001	5	0.1
	47544	236.5	238.5	0.02	-	<0.001	5	0.1											
	47545	238.5	240.5	0.02	-	<0.001	5	0.1											
	47546	240.5	242.5	0.02	-	<0.001	5	0.1											
	47547	242.5	244.5	0.02	-	<0.001	5	0.1											
	47548	244.5	246.5	0.02	-	<0.001	5	0.1											
	47549	246.5	248.5	0.02	-	<0.001	5	0.1											
	47550	248.5	250.5	0.08	-	<0.001	5	0.1											
	47551	250.5	252.5	0.24	-	<0.001	5	0.1											
	47552	252.5	254.5	0.48	-	<0.001	5	0.2											
	47553	254.5	256.5	0.40	-	<0.001	5	0.2											
	47554	256.5	258.5	0.05	-	<0.001	5	0.2											
	47555	258.5	260.5	0.13	-	<0.001	5	0.2											
	47556	260.5	262.5	0.11	-	<0.001	5	0.2											
	47557	262.5	264.5	0.99	-	<0.001	5	0.2											
	47558	264.5	266.5	0.64	-	<0.001	5	0.2											
	47559	266.5	268.5	0.21	-	<0.001	5	0.2											
47560	268.5	270.5	0.45	-	<0.001	5	0.2												
47561	270.5	272.5	0.12	-	<0.001	5	0.2												
47562	272.5	274.5	0.20	-	<0.001	5	0.1												
47563	274.5	276.5	0.14	-	<0.001	5	0.1												
47564	276.5	278.5	0.12	-	<0.001	5	0.1												
47565	278.5	280.5	0.16	-	<0.001	5	0.1												
47566	280.5	282.5	0.12	-	<0.001	5	0.1												
47567	282.5	284.5	0.09	-	<0.001	5	0.1												

Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
													From	To					
Polyolithic, variable matrix to clast supported, intrusion Breccia, in Bio-Qtz-Diorite, Guichon variety: brown to red brown plagioclase crowded porphyry, and green to pale green porphyritic volcanics (?); plagioclase phytic Dark green to black Qtz + chl + tourmaline ± ca ± spec matrix with patchy fine grained disseminated cpy. Strong pervasive ser + chl + ca ± clay ± alb. Patchy red FeOx staining, hem after mag. <b>258.1-262.3 m:</b> Grey-green to pale yellow-green laminated volcanic (?) dyke. Irregular top and bottom contacts, not chilled. Strong red FeOx stained wallrock above upper contact. sparse cpy blebs, 1-5 mm. Laminae at 50-60° C.A. <b>270.0-290.0 m:</b> rounded to sub-rounded clasts, matrix supported. Average clast diameter 5-10 cm. <b>288.5-296.5 m:</b> Fault, strong to intense ser + clay + ca; local limonite and hem + clay filled slips, locally crushed/milled with clay gouge. fault breccia with clay matrix. Shear at 50-60° C.A. Crushed cpy in gouge.	0.05	1	-1	-1	-1	4	4	3	3	5	-1	47568	284.5	286.5	0.15	-	< 0.01	5	0.1
	47569	286.5	288.5	0.12	-	< 0.01	5	0.1											
	47570	288.5	290.5	0.07	-	< 0.01	5	0.1											
	47571	290.5	292.5	0.03	-	< 0.01	5	0.1											
	47572	292.5	294.5	0.04	-	< 0.01	5	0.1											
	47573	294.5	296.5	0.25	-	< 0.01	5	0.1											
	47574	296.5	298.5	0.03	-	< 0.01	5	0.1											
	47575	298.5	300.5	0.03	-	< 0.01	5	0.1											
	47576	300.5	302.5	0.03	-	< 0.01	5	0.1											
	47577	302.5	304.5	0.03	-	< 0.01	5	0.1											
	47578	304.5	306.5	0.02	-	< 0.01	5	0.1											
47579	306.5	308.5	0.02	-	< 0.01	5	0.1												
47580	308.5	310.5	0.02	-	< 0.01	5	0.1												
47581	310.5	312.5	0.03	-	< 0.01	5	0.1												
47582	312.5	313.9	0.04	-	*last composite 11 samples														
end of Assay information																			
Hbl-Bio-Qtz-Diorite, Guichon variety; fresh to weak pervasive chl + ser ± ep ± alb ± ca alteration. Moderate to strong chl + ser ± ca fracture filled. Fracture sets 20-70° C.A., 5-10 per metre. Moderate to strongly magnetic. Weakly developed alb + ep + chl envelopes on fractures and 1-2 mm ca veinlets.	-1	0.05	-1	-1	-1	2	2	2	-1	45	-1								
<b>EOH 313.9 m</b>																			

**Diamond Drill Log**

Getty South Property		Location:											Core:		Azimuth		Dip		
GS96-7		Northing: 5600747		1 = background/fresh			4 = strong					NQ2		Collar		270		-45	
20-Jul-96		Easting: 642153		2 = weak			5 = intense												
V. Niessen		Elevation: 1610 m		3 = moderate															
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																			
													Assays						
To	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
4.0	Casing/overburden												47583	4.0 6.0	0.02	-	<.001	5	0.1
26.0	Hbl-Bio-Qtz-Diorite, Guichon variety, Fault Zone Fault breccia, locally re-brecciated, crushed/milled sections with intermittent clay gouge. Local hem stained ser and clay. Sub-parallel shear. Local competent sections, weakly ser + chl ± ca ± ep ± alb altered. Patchy strong pervasive alb with ep veinlets. 14.0-49.0 m, 60.0-80.0 m: crushed/milled, fault breccia with local gouge, local strong hem stain in breccia matrix. Trace py>cpy replacing strongly chl + ser + ca altered mafics in select clasts. 89.0-96.0 m: RQD 10; weak chl + ca ± ep altered mafics, weak ser ± ep altered feldspar, pink speckled. Fracture sets 20-70° C.A., 5-10 per metre. 112.0-120.0 m: Fault breccia, milled, ca-cemented, rounded to sub-rounded weak to moderately altered clasts 1-5 cm, matrix supported.	0.01	0.01	-1	-1	-1	4	4	3	2	3	-1	47584	6.0 8.0	0.02	-	<.001	5	0.1
													47585	8.0 10.0	0.01	-	<.001	5	0.1
													47586	10.0 12.0	0.01	-	<.001	5	0.1
													47587	12.0 14.0	0.02	-	<.001	5	0.1
													47588	14.0 16.0	0.03	-	<.001	5	0.1
													47589	16.0 18.0	0.02	-	<.001	5	0.1
													47590	18.0 20.0	0.02	-	<.001	5	0.1
													47591	20.0 22.0	0.02	-	<.001	5	0.1
													47592	22.0 24.0	0.06	-	<.001	5	0.1
													47593	24.0 26.0	0.05	-	<.001	5	0.1
													47594	26.0 28.0	0.05	-	<.001	5	0.1
													47595	28.0 30.0	0.05	-	<.001	5	0.1
													47596	30.0 32.0	0.07	-	<.001	5	0.1
													47597	32.0 34.0	0.06	-	<.001	5	0.1
													47598	34.0 36.0	0.07	-	<.001	5	0.1
													47599	36.0 38.0	0.07	-	<.001	5	0.1
													47600	38.0 40.0	0.05	-	<.001	5	0.1
													47601	40.0 42.0	0.02	-	<.001	5	0.1
47602	42.0 44.0	0.02	-	<.001	5	0.1													
47603	44.0 46.0	0.02	-	<.001	5	0.1													
55.5	Bio-Qtz-Diorite, Guichon variety, Fault Zone, local fault breccia with crushed/milled sections, local clay gouge at 20-30° C.A. - sense of slip indicates possible W. side down. Strong to intensely chl + ser + ca ± clay altered, more competent, weak to moderate chl + ser + ca alteration 126.0-134.0 m: RQD 9. Strong limonite + clay filled slips, patchy strong limonite ± hem in gouge and crushed/milled sections. **Local strong NCu + chalcocite ± az ± cpy usually associated with lim, NCu + chalc > cpy. Local cup in fractures. Possible turquoise Irregular ca veinlets 1-10 mm. Local ca ± qtz cemented fault breccia, several sections re-brecciated. Qtz + ca vein fragments in crushed sections. Weakly magnetic 126.0-134.0 m, hem after mag 150.0-155.5 m: intense ser + ca + clay, lim out, trace NCu, disseminated cpy increasing, local coarse dissemination. Brecciated qtz + ca + cpy ± bo veins.	0.05	0.3	0.3	-1	2	4	4	4	3	5	2	47604	46.0 48.0	0.02	-	<.001	5	0.1
													47605	48.0 50.0	0.02	-	<.001	5	0.1
													47606	50.0 52.0	0.02	-	<.001	5	0.1
													47607	52.0 54.0	0.02	-	<.001	5	0.1
													47608	54.0 56.0	0.02	-	<.001	5	0.1
													47609	56.0 58.0	0.02	-	<.001	5	0.1
													47610	58.0 60.0	0.01	-	<.001	5	0.1
													47611	60.0 62.0	0.02	-	<.001	5	0.1
													47612	62.0 64.0	0.01	-	<.001	5	0.1
													47613	64.0 66.0	0.01	-	<.001	5	0.1
													47614	66.0 68.0	0.07	-	<.001	5	0.1
													47615	68.0 70.0	0.03	-	<.001	5	0.1
													47616	70.0 72.0	0.02	-	<.001	5	0.1
													47617	72.0 74.0	0.01	-	<.001	5	0.1
47618	74.0 76.0	0.02	-	<.001	5	0.1													
47619	76.0 78.0	0.02	-	<.001	5	0.1													
47620	78.0 80.0	0.02	-	<.001	5	0.1													
47621	80.0 82.0	0.01	-	<.001	5	0.1													
47622	82.0 84.0	0.02	-	<.001	5	0.1													

To	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
														From	To					
169.0	Bio-Qtz-Diorite, <b>Guichon</b> variety, locally crushed/ fault brecciated, with thin clay gouge, 40° C.A. at 164.0 m Moderate to strong pervasive chl + ser + ca ± ep altered Ep veinlets, 2-4 mm, 5-10 per metre locally, with well developed FeOx stained alb envelopes. 40-50° C.A. Irregular ca veinlets 1-5 mm, 2-5 per metre Strong chl + ca + clay ± ser fracture filled. Fracture sets 40-50° C.A. Trace to weakly magnetic, hem after mag. Trace to weak cpy + bo > py replacing strongly altered mafics	0.05	0.1	0.1	-1	-1	3	3	3	2	10	-1	47623	84.0	86.0	0.02	-	<.001	5	0.1
													47624	86.0	88.0	0.01	-	<.001	5	0.1
													47625	88.0	90.0	0.01	-	<.001	5	0.1
													47626	90.0	92.0	0.01	-	<.001	5	0.1
													47627	92.0	94.0	0.01	-	<.001	5	0.1
													47628	94.0	96.0	0.01	-	<.001	5	0.1
													47629	96.0	98.0	0.01	-	<.001	5	0.1
													47630	98.0	100.0	0.03	-	<.001	5	0.1
													47631	100.0	102.0	0.02	-	<.001	5	0.1
													47632	102.0	104.0	0.02	-	<.001	5	0.1
													47633	104.0	106.0	0.01	-	<.001	5	0.1
													47634	106.0	108.0	0.01	-	<.001	5	0.1
													47635	108.0	110.0	0.01	-	<.001	5	0.1
200.0	Bio-Qtz-Diorite, <b>Guichon</b> variety, <b>Fault Zone</b> , fault breccia, variable clast to clay matrix supported. Sub- rounded to sub-angular clasts, 1-5 cm. Strong chl + ser + ca ± clay altered, locally intense. Patchy ep replacing mafics and plagioclase. Crushed cpy > py in breccia matrix and replacing mafics in select clasts.	0.1	0.3	-1	-1	-1	4	3	4	2	5	-1	47637	112.0	114.0	0.02	-	<.001	5	0.1
													47638	114.0	116.0	0.02	-	<.001	5	0.1
													47639	116.0	118.0	0.04	-	<.001	5	0.1
													47640	118.0	120.0	0.02	-	<.001	5	0.1
													47641	120.0	122.0	0.02	-	<.001	5	0.1
													47642	122.0	124.0	0.01	-	<.001	5	0.1
													47643	124.0	126.0	0.02	-	<.001	5	0.1
245.3	Bio-Qtz-Diorite, <b>Guichon</b> variety. Locally fault brecciated, crushed with strong ca + clay ± red FeOx. Variable fresh to moderate fracture controlled chl + ser ± ca ± ep ± alb alteration. Overall alteration intens- ity decreases down section. Mafics weak to moderately chl ± ser ± ep altered. Feldspars fresh to weakly ser ± ep ± alb ± ca altered. Weak ep ± ca veinlets, 0.5-2 mm, with diffuse ep ± alb envelopes up to 1 cm into wallrock, 45-55° C.A., 1-2 per metre. Local weak ca veins, 2-3 per metre, 1-4 mm - normal C.A. Moderate to strong chl + ca ± ser ± red FeOx fracture filled, decreasing down section. Fault brecciated/crushed: 207-207.5 m, 222.0- 224.0 m and 239.2-239.4 m. Weak to moderate mag, increasing down section.  <b>EOH 245.3 m</b>	0.05	0.01	-1	-1	-1	2	2	2	-1	3	-1	47645	128.0	130.0	0.02	-	<.001	5	0.1
													47646	130.0	132.0	0.06	-	<.001	5	0.1
													47647	132.0	134.0	0.04	-	<.001	5	0.1
													47648	134.0	136.0	0.13	-	<.001	5	0.1
													47649	136.0	138.0	1.59	-	<.001	5	0.1
													47650	138.0	140.0	0.29	-	<.001	5	0.1
													47651	140.0	142.0	0.09	-	<.001	5	0.1
													47652	142.0	144.0	0.04	-	<.001	5	0.1
													47653	144.0	146.0	0.04	-	<.001	5	0.3
													47654	146.0	148.0	0.09	-	<.001	5	0.3
													47655	148.0	150.0	0.15	-	<.001	5	0.3
													47656	150.0	152.0	0.25	-	<.001	5	0.3
													47657	152.0	154.0	0.47	-	<.001	5	0.3
													47658	154.0	156.0	0.04	-	<.001	5	0.3
													47659	156.0	158.0	0.01	-	<.001	5	0.3
													47660	158.0	160.0	0.01	-	<.001	5	0.3
													47661	160.0	162.0	0.02	-	<.001	5	0.3
47662	162.0	164.0	0.23	-	<.001	5	0.3													
47663	164.0	166.0	0.03	-	<.001	5	0.1													
47664	166.0	168.0	0.06	-	<.001	5	0.1													
47665	168.0	170.0	0.06	-	<.001	5	0.1													
47666	170.0	172.0	0.44	-	<.001	5	0.1													
47667	172.0	174.0	0.26	-	<.001	5	0.1													
47668	174.0	176.0	0.05	-	<.001	5	0.1													
47669	176.0	178.0	0.05	-	<.001	5	0.1													
47670	178.0	180.0	0.05	-	<.001	5	0.1													

To	Description	%Py	%Cp	%Bof Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
														From	To						
														47671	180.0	182.0	0.02	-	<.001	5	0.1
														47672	182.0	184.0	0.07	-	<.001	5	0.1
														47673	184.0	186.0	0.27	-	<.001	5	0.1
														47674	186.0	188.0	0.12	-	<.001	5	0.1
														47675	188.0	190.0	0.1	-	<.001	5	0.1
														47676	190.0	192.0	0.34	-	<.001	5	0.1
														47677	192.0	194.0	0.03	-	<.001	5	0.1
														47678	194.0	196.0	0.03	-	<.001	5	0.1
														47679	196.0	198.0	0.02	-	<.001	5	0.1
														47680	198.0	200.0	0.05	-	<.001	5	0.1
														47681	200.0	202.0	0.02	-	<.001	5	0.1
														47682	202.0	204.0	0.02	-	<.001	5	0.1
														47683	204.0	206.0	0.02	-	<.001	5	0.1
														47684	206.0	208.0	0.03	-	<.001	5	0.1
														47685	208.0	210.0	0.02	-	<.001	5	0.1
														47686	210.0	212.0	0.03	-	<.001	5	0.1
														47687	212.0	214.0	0.02	-	<.001	5	0.1
														47688	214.0	216.0	0.01	-	<.001	5	0.1
														47689	216.0	218.0	0.01	-	<.001	5	0.1
														47690	218.0	220.0	0.02	-	<.001	5	0.1
														47691	220.0	222.0	0.02	-	<.001	5	0.1
														47692	222.0	224.0	0.04	-	<.001	5	0.1
														47693	224.0	226.0	0.03	-	<.001	5	0.1
														47694	226.0	228.0	0.02	-	<.001	5	0.1
														47695	228.0	230.0	0.09	-	<.001	5	0.1
														47696	230.0	232.0	0.02	-	<.001	5	0.1
														47697	232.0	234.0	0.02	-	<.001	5	0.1
														47698	234.0	236.0	0.02	-	<.001	5	0.1
														47699	236.0	238.0	0.02	-	<.001	5	0.1
														47700	238.0	240.0	0.02	-	<.001	5	0.1
														47701	240.0	242.0	0.02	-	<.001	5	0.1
														47702	242.0	244.0	0.04	-	<.001	5	0.1
														47703	244.0	245.3	0.05	-	<.001	5	0.1
													<b>end of assay information</b>								
															*last composite has 11 samples						

i-96

LABORATORIES LTD.  
Trans Canada Highway  
B.C.

ICP CERTIFICATE OF ANALYSIS AK 96-742

73-5700  
73-4557

GS96-7  
from 124.0 m to 162.0 m.

m unless otherwise reported

Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb
70 47643-47652 **	<0.2	2.35	<5	60	<5	2.66	<1	27	83	2244	5.10	<10	1.60	1211	5	0.04	18	990	6	<5
30 47653-47662 **	<0.2	1.81	<5	330	<5	3.64	<1	19	78	1237	4.11	<10	1.01	847	10	0.04	18	870	8	<5
70 47643-47652 **	<0.2	2.37	<5	60	<5	2.66	<1	27	83	2270	5.14	<10	1.59	1218	6	0.04	19	1000	8	<5
	1.0	1.85	65	160	<5	1.87	<1	20	65	90	4.30	<10	1.01	741	<1	0.02	20	760	20	<5

Composite samples

per#6

RECEIVED  
Aug 8  
P

Diamond Drill Log																					
Getty South Property GS96-8 01-Aug-96 R. Whiteaker, V. Niessen			Location:		Northing: 5600647 Easting: 642057 Elevation: 1575 m					1 = background/fresh 2 = weak 3 = moderate			4 = strong 5 = intense			Core: NQ2		Azimuth 270		Dip -45	
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																					
Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays									
												Sample Number	Interval (m) From To		%Cu Total	%Cu Non Suff	%Mo	Au (ppb)	Ag (g/t)		
casing/overburden												47704	27.4	28.9	0.01	-	<001	5	0.1		
												47705	28.9	32.0	0.02	-	<001	5	0.1		
Fault breccia zone, poorly to moderately well heated with ca ± FeOx. Overall alteration is moderate.	-1	-1	-1	-1	1	3	3	2	3	0	-1	47706	32.0	35.0	0.01	-	<001	5	0.1		
Assemblage: clay + ser + ca ± hem ± qtz ± ep ± lim ± chl. Locally clay gouge.												47707	35.0	38.1	0.02	-	<001	5	0.1		
Fracture sets: 40-50, 60-65, 80-85° C.A.												47708	38.1	41.1	0.01	-	<001	5	0.1		
Fracture filling: clay + ser ± ca ± hem ± lim.												47709	41.1	42.2	0.02	-	*only 6 samples in this composite				
Veins: ca ± ep ± ser ± qtz at 55-60, 80-85, 20-30° C.A.																					
Mafics moderately altered to ser + clay + ca. Feldspars altered to ser ± ca																					
Sulphides - absent																					
EOH 44.2 m (HOLE ABANDONED)																					

## Diamond Drill Log

Getty South Property  
GS96-9  
02-Aug-96  
V Niessen, R Whiteaker

Location: -1 = absent  
Northing: 5600638 1 = background/fresh 4 = strong  
Easting: 642057 2 = weak 5 = intense  
Elevation: 1595 m 3 = moderate

Core: NQ2

Azimuth	Dip
Collar 270	-45

Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays							
												Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
													From	To					
casing/overburden												47710	15.2	17.2	0.07	-	<.001	5	0.1
												47711	17.2	19.2	0.09	-	<.001	5	0.1
Heterolithic, generally black matrix supported	-1	0.1	-1	-1	-1	4	4	4	3	5	-1	47712	19.2	21.2	0.04	-	<.001	5	0.1
<b>Intrusion Breccia</b> in Bio-Qtz-Diorite, Guichon												47713	21.2	23.2	0.04	-	<.001	5	0.1
variety 75-80%, plagioclase crowded porphyry 15-20%												47714	23.2	25.2	0.08	-	<.001	5	0.1
green volcanics(?) clasts 5-10%												47715	25.2	27.2	0.08	-	<.001	5	0.1
Clasts strongly chl + ser + ca ± clay altered, (Guichon												47716	27.2	29.2	0.05	-	<.001	5	0.1
variety more strongly altered than porphyry) rounded												47717	29.2	31.2	0.02	-	<.001	5	0.1
to sub-angular, size range 1-20 cm, average probably												47718	31.2	33.2	0.50	-	<.001	5	0.1
5-10 cm.												47719	33.2	35.2	0.08	-	<.001	5	0.1
Moderate to strong pervasive lim stained clasts to												47720	35.2	37.2	0.02	-	<.001	5	0.1
30.3 m.												47721	37.2	39.2	0.02	-	<.001	5	0.1
Local fault brecciated, strong lim stained clay gouge,												47722	39.2	41.2	0.09	-	<.001	5	0.1
sub-parallel slips with slicks at 40-50° C.A., + clay												47723	41.2	43.2	0.07	-	<.001	5	0.1
filled slips. Black chl + qtz + tourmaline ± spec matrix												47724	43.2	45.2	0.03	-	<.001	5	0.1
with variable (~5-50%) comminuted wallrock.												47725	45.2	47.2	0.02	-	<.001	5	0.1
Trace NCu with lim.												47726	47.2	49.2	0.03	-	<.001	5	0.1
Trace cpy replacing strongly chl + ser + ca altered												47727	49.2	51.2	0.07	-	<.001	5	0.1
mafics. Non-magnetic. hem after mag.												47728	51.2	53.2	0.02	-	<.001	5	0.1
												47729	53.2	55.2	0.02	-	<.001	5	0.1
Heterolithic, black matrix supported <b>Intrusion</b>	-1	0.5	0.05	-1	-1	4	4	4	3	35	-1	47730	55.2	57.2	0.06	-	0.001	5	0.1
<b>Breccia</b> in: Bio-Qtz-Diorite, Guichon variety 70-75%;												47731	57.2	59.2	0.03*	-	0.001	5	0.1
plagioclase crowded porphyry 15-20%, green												47732	59.2	61.2	0.40	-	0.001	5	0.1
volcanic (?) clasts 5%; dark grey/black fine grained												47733	61.2	63.2	1.46	-	0.001	5	0.1
hard clasts (possibly re-brecciated black matrix?) ~5%												47734	63.2	65.2	0.06	-	0.001	5	0.1
Guichon variety clasts strongly chl + ser + ca ± clay												47735	65.2	67.2	0.07	-	0.001	5	0.1
altered. Plagioclase porphyry moderately chl + ser +												47736	67.2	69.2	0.07	-	0.001	5	0.1
clay altered. Green volcanic (?) clasts usually soft,												47737	69.2	71.2	0.07	-	0.001	5	0.1
intensely ser + clay altered, clay altered plagioclase (?)												47738	71.2	73.2	0.04	-	0.001	5	0.1
phenos.												47739	73.2	75.2	0.01	-	0.001	5	0.1
Black chl + qtz + tourmaline ± spec matrix with crushed												47740	75.2	77.2	<.01	-	0.001	5	0.1
wallrock particles usually <2 cm.												47741	77.2	79.2	0.01	-	0.001	5	0.1
Local ca ± cpy open space filling. Peacock tarnished												47742	79.2	81.2	0.03	-	0.001	5	0.1
cpy ± bo/Cc locally rims select clasts. Trace/weak												47743	81.2	83.2	0.01	-	0.001	5	0.1
cpy replacing strongly chl + ser + ca altered mafics in												47744	83.2	85.2	0.03	-	0.001	5	0.1
select Guichon clasts. Trace NCu in strongly altered												47745	85.2	87.2	0.06	-	0.001	5	0.1
lim stained clasts. Non-magnetic. hem after mag.												47746	87.2	89.2	0.66	-	0.001	5	0.1
												47747	89.2	91.2	1.57	-	0.001	5	0.1



Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
													From	To					
<b>Fault Zone</b> in Heterolithic black matrix supported <b>Intrusion Breccia</b> , Guichon variety 30-40% plagioclase crowded porphyry 30-40%, green volca- ics (?) 20-30% Average clasts size 2-3 cm Guichon clasts strongly chl + ser + ca + clay altered Plagioclase porphyry moderately ser + chl + ca altered Green volcanic (?) clasts strong to intensely clay (?) altered Volcanic (?) fragments in this interval, overall smaller clast size, greater percentage comminuted wallrock in matrix <b>39.0-44.0 m:</b> strongly lim stained clay matrix sup- ported fault breccia/gouge, shear at 40-50° C.A., milled Intrusion Breccia clasts to ~5 cm., trace to weak NCu in clay matrix <b>51.2-55.4 m:</b> competent Heterolithic matrix sup- ported Intrusion Breccia, RQD 60. <b>55.4-64.0 m: Fault Breccia</b> , local lim stained in clay matrix and in strongly altered clasts (Guichon and Fp), numerous Qtz fragments. Strong NCu as dendrites in fractures, replacing strongly altered mafics in clasts and as sub-millimeter veinlets 60.5-63.5 m. Trace to weak cpy replacing strongly chl + ser + ca altered mafics in select Guichon (?) variety clasts and locally as coarse disseminations in black matrix. Non-magnetic: hem after mag.	-1	0.5	-1	-1	-1	5	4	4	4	5	-1	47748	91.2	93.2	0.20	-	0.001	5	0.1
	47749	93.2	95.2	0.08	-	0.001	5	0.1											
	47750	95.2	97.2	0.05	-	<.001	5	0.1											
	47751	97.2	99.2	0.10	-	<.001	5	0.1											
	47752	99.2	101.2	0.72	-	<.001	5	0.1											
	47753	101.2	103.2	0.35	-	<.001	5	0.1											
	47754	103.2	105.2	0.06	-	<.001	5	0.1											
	47755	105.2	107.2	0.07	-	<.001	5	0.1											
	47756	107.2	109.2	0.04	-	<.001	5	0.1											
	47757	109.2	111.2	0.03	-	<.001	5	0.1											
	47758	111.2	113.2	0.01	-	<.001	5	0.1											
	47759	113.2	115.2	0.05	-	<.001	5	0.1											
	47760	115.2	117.2	0.03	-	<.001	5	0.1											
	47761	117.2	119.2	0.02	-	<.001	5	0.1											
	47762	119.2	121.2	0.43	-	<.001	5	0.1											
	47763	121.2	123.2	0.02	-	<.001	5	0.1											
	47764	123.2	125.2	0.03	-	<.001	5	0.1											
	47765	125.2	127.2	0.02	-	<.001	5	0.1											
	47766	127.2	129.2	0.68	-	<.001	5	0.1											
	47767	129.2	131.2	0.11	-	<.001	5	0.1											
	47768	131.2	133.2	0.09	-	<.001	5	0.1											
	47769	133.2	135.2	0.02	-	<.001	5	0.1											
	47770	135.2	137.2	0.37	-	<.001	5	0.1											
	47771	137.2	139.2	0.11	-	<.001	5	0.1											
	47772	139.2	141.2	0.09	-	<.001	5	0.1											
	47773	141.2	143.2	0.04	-	<.001	5	0.1											
	47774	143.2	145.2	0.06	-	<.001	5	0.1											
	47775	145.2	147.2	0.06	-	<.001	5	0.1											
47776	147.2	149.2	0.11	-	<.001	5	0.1												
47777	149.2	151.2	0.03	-	<.001	5	0.1												
47778	151.2	153.2	0.07	-	<.001	5	0.1												
47779	153.2	155.2	0.13	-	<.001	5	0.1												
47780	155.2	157.2	0.07	-	0.001	5	0.1												
47781	157.2	159.2	0.02	-	0.001	5	0.1												
47782	159.2	161.2	0.07	-	0.001	5	0.1												
47783	161.2	163.2	0.02	-	0.001	5	0.1												
47784	163.2	165.2	0.06	-	0.001	5	0.1												
47785	165.2	167.2	0.18	-	0.001	5	0.1												
47786	167.2	169.2	0.05	-	0.001	5	0.1												
47787	169.2	171.2	0.03	-	0.001	5	0.1												
47788	171.2	173.2	0.14	-	0.001	5	0.1												
47789	173.2	175.2	0.03	-	0.001	5	0.1												
47790	175.2	177.2	0.03	-	0.001	5	0.1												
47791	177.2	179.2	0.02	-	0.001	5	0.1												
47792	179.2	181.2	0.05	-	0.001	5	0.1												

Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Mo	Au (ppb)	Ag (g/t)
													From	To					
Heterolithic, variable matrix to clast supported <b>Intrusion Breccia</b> locally Fault brecciated, shear at 40-50° C A  Guichon variety clasts variable moderate to strongly chl + ser + ca ± clay altered, separate population strongly alb + chl + ser altered with pale pink-orange FeOx stain (not K-spar)  Plagioclase crowded porphyry moderately chl + ser + ca altered plagioclase phenos hard, pale brown, groundmass strongly chl + ser + ca altered Green volcanic (?) clasts strong to intensely ser + clay altered  Angular to sub-angular clasts, average size ~5 cm two populations 5-10 cm and larger, 0.5-3 cm Matrix dark-green/black, qtz + chl ± tour ± spec ± ca ± cpy, locally strong, feited spec in matrix Local lim stained clay matrix in fault breccia, lim stained clasts, lim + clay ± ca filled slips and fractures Local coarsely crystalline qtz ± ca ± hem open space filling patchy cpy as coarse, incomplete open space filling with chalcocite nnd (100 5 m). Trace to weak cpy replacing strongly chl + ser + ca altered Mafics in select Guichon variety clasts, occasionally peacock tarnished  Qtz + tourmaline as cross cutting veins, 1-3 mm, locally in larger clasts (>20 cm), veins end at clast margins Breccia matrix locally very fine grained, black -- resembles angular clasts seen elsewhere within breccia matrix Non-magnetic, hem after mag	-1	0.5	0.05	-1	1	4	4	4	3	25	-1	47793	181.2	183.2	0.07	-	0.001	5	0.1
	47794	183.2	185.2	0.15	-	0.001	5	0.1											
	47795	185.2	187.2	0.04	-	0.001	5	0.1											
	47796	187.2	189.2	0.06	-	0.001	5	0.1											
	47797	189.2	191.2	0.58	-	0.001	5	0.1											
	47798	191.2	193.2	0.10	-	0.001	5	0.1											
	47799	193.2	195.2	0.03	-	0.001	5	0.1											
	47800	195.2	197.2	0.06	-	<.001	5	0.1											
	47801	197.2	199.2	0.02	-	<.001	5	0.1											
	47802	199.2	201.2	0.07	-	<.001	5	0.1											
	47803	201.2	203.2	0.03	-	<.001	5	0.1											
	47804	203.2	205.2	0.02	-	<.001	5	0.1											
	47805	205.2	207.2	0.14	-	<.001	5	0.1											
	47806	207.2	209.2	0.02	-	<.001	5	0.1											
	47807	209.2	211.2	0.14	-	<.001	5	0.1											
	47808	211.2	213.2	0.23	-	<.001	5	0.1											
	47809	213.2	215.2	0.03	-	<.001	5	0.1											
	47810	215.2	217.2	0.06	-	<.001	5	0.2											
	47811	217.2	219.2	0.09	-	<.001	5	0.2											
	47812	219.2	221.2	0.02	-	<.001	5	0.2											
	47813	221.2	223.2	0.03	-	<.001	5	0.2											
	47814	223.2	225.2	0.09	-	<.001	5	0.2											
47815	225.2	227.2	0.02	-	<.001	5	0.2												
47816	227.2	229.2	0.02	-	<.001	5	0.2												
47817	229.2	231.2	0.02	-	<.001	5	0.2												
47818	231.2	233.2	0.03	-	<.001	5	0.2												
47819	233.2	235.2	0.07	-	<.001	5	0.2												
47820	235.2	237.2	0.02	-	<.001	5	0.1												
47821	237.2	239.2	0.15	-	<.001	5	0.1												
47822	239.2	241.1	0.08	-	<.001	5	0.1												

\*last composite only 3 samples

**end of assay information**  
**\*metallic screen values**

leg	weight (g)	+140 wt	+140 Cu	-140 Cu	Net Cu
47731	152.16	0.471	0.042	0.02	0.02
47732	120.48	0.646	1.022	0.35	0.35
47733	223.39	4.400	4.523	1.28	1.34
47734	255.39	10.319	0.061	0.06	0.06
47735	158.39	1.718	0.163	0.07	0.07

5	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
														From	To					
	<p>Hbl-Bio-Qtz-Diorite, Guichon variety. Variable moderate to strong chl + ser + ca ± clay ± alb altered. <b>Mafics</b> strongly chl + ser + ca ± clay altered. Feldspars dark, ghost-like, moderate to strongly ser + ca ± chl, locally strong chl + alb altered.</p> <p>Moderate to strong chl + ser + ca ± clay ± ilm fracture filled. Local ep veinlets, &lt;1 per metre, ~ 2 mm, 30° C.A. with 1 cm alb envelopes. FeOx stained.</p> <p>Local intrusion brecciated; black qtz + tourmaline ± spec matrix; pink-orange albitized clasts; patchy, coarse clots of cpy; trace to weak cpy&gt;py replacing altered mafics.</p> <p><b>101.6-107.0 m: Fault</b>, fault breccia; locally strong ilm stain, numerous irregular ca ± qtz veins, 0.1-2 cm; strong to intense chl + ser + ca + clay altered, locally crushed, ca-cemented. Local clay gouge, ~ 2 cm, 40-50° C.A.</p> <p>Weak to moderately magnetic: hem after mag.</p>	0.05	0.1	-1	-1	-1	3	3	4	2	20	-1	<b>cont'd core logging</b>							

Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
													From	To					
<p><b>Fault zone</b> in Bio-Qtz-Dionite, Guichon variety</p> <p>Fault breccia/gouge locally; clay matrix, local lim + hem stained, weakly ca-cemented, locally re-brecciated, crushed.</p> <p>Strong to intense chl + ser + ca + clay altered. Numerous irregular ca + qtz veins 0.1-4 cm, 2-10 per metre, locally crosscutting. Locally ca + qtz gash veins. Qtz vein fragments in breccia with hem + cpy. Local strongly siliceous clasts with strong disseminated fine grained cpy.</p> <p><b>127.5-141.0 m:</b> intrusion breccia, variety matrix to clast supported, chl + qtz ± spec ± tourmaline matrix; strong alb + chl altered clasts.</p> <p><b>156.0-156.5 m:</b> clay gouge, 20-30° C.A.</p> <p><b>162.7-165.5 m:</b> gouge/fault breccia, trace to weak crushed cpy.</p> <p><b>173.0-180.0 m:</b> overall decrease in alteration intensity, moderate to strong chl + ser + ca + clay; local lim + clay filled slips; strong chl + ser + ca fracture filling.</p> <p><b>180.0-190.0 m:</b> <b>Fault breccia/gouge</b> with milled clasts &lt; 1 cm, qtz + ca vein fragments; siliceous clasts with strong coarsely disseminated cpy; weak cpy replacing strongly altered mafics in clasts.</p> <p>RQD 15% to 159.0 m, 0% below.</p> <p>1-2 mm ep veinlets in moderately altered Guichon clasts. Cpy + qtz veinlets, 2-3 mm, locally in strongly altered Guichon clasts. Locally weak to moderately magnetic.</p>	0.05	0.1	-1	-1	2	4	4	4	3	8	-1								

Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
													From	To					
<p>1 Hbl-Bio-Qtz Dionte (Guichon), medium grained, equigranular, weakly (near alteration) to moderately magnetic (where less altered).</p> <p>Pervasive alteration is weak to moderate with frequent strong vein ± fracture controlled alteration.</p> <p>Main assemblage: ser + clay + ca ± chl ± qtz ± cpy ± hem/lim.</p> <p>Fracture sets predominantly 40-50° C.A., less frequently 20-30 and 75-85° C.A. ~8-12 per metre. Fill is ser + ca ± clay ± chl ± hem ± cpy ± lim.</p> <p>2 mm-2 cm veins of ca + qtz + cpy/py ± clay. Discontinuous hem ± chl ± ser selvages approximately 1-3 mm wide common. Longer sub-parallel veins often display vuggy nature. Envelopes of chl + hem ± ser &lt; 1 cm up to 10 cm wide; 20-25 and 55-60° C.A. at 5-10 per metre from 190.0-220.0 m; and 2-5 per metre from 220.0 m to EOH.</p> <p>Beaded and coarsely disseminated cpy occurs as vein (± fracture) fill from 190.0-220.0 m.</p> <p>secondary ser + clay ± chl ± ca replace mafics.</p> <p><b>238.0-241.1 m:</b> increase in disseminated cpy replacing mafics and as vein fracture fill to 0.5-1 %.</p> <p style="text-align: center;"><b>EOH 241.1 m</b></p> <p>*acid test 53-55°</p>	0.05	0.1	-1	-1	2	2	2	2	2	16.8	-1								

## Diamond Drill Log

Getty South Property  
GS96-10  
07-Aug-96  
R. Whiteaker

Location:  
Northing: 5600647  
Easting: 642528  
Elevation: 1620 m

1 = background/fresh  
2 = weak  
3 = moderate  
4 = strong  
5 = intense

Core: NQ2

	Azimuth	Dip
Collar	270	-45

Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

m)	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays							
													Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
														From	To					
19.8	Casing/overburden												47823	19.8	22.9	0.02	-	<.001	5	0.1
													47824	22.9	24.9	0.02	-	<.001	5	0.1
303.3	Hbl-Bio-Qtz Diorite (Guichon variety) Medium grained. Non to weakly magnetic	0.01	0.3	-1	-1	3	3	2	2	2	6	-1	47825	24.9	26.9	0.02	-	<.001	5	0.1
	19.8-28.7 m: moderately to strongly weathered (sandy, crumbly and broken) RQD 1%												47826	26.9	28.9	0.01	-	<.001	5	0.1
	20.0-29.0 m: weakly to moderately altered Guichon. plagioclase altered to ser ± ca, mafics altered to ser ± ca ± mag ± ep. Irregular hematitic clay gouge associated with ser + hem + ca ± spec fractures at ~30-35° C.A. Mineralization is absent												47827	28.9	30.9	0.02	-	<.001	5	0.1
													47828	30.9	32.9	0.02	-	<.001	5	0.1
													47829	32.9	34.9	0.02	-	<.001	5	0.1
													47830	34.9	36.9	0.01	-	<.001	5	0.1
													47831	36.9	38.9	0.02	-	<.001	5	0.1
													47832	38.9	40.9	0.01	-	<.001	5	0.1
													47833	40.9	42.9	0.01	-	<.001	5	0.1
													47834	42.9	44.9	0.01	-	<.001	5	0.1
													47835	44.9	46.9	0.01	-	<.001	5	0.1
													47836	46.9	48.9	0.01	-	<.001	5	0.1
													47837	48.9	50.9	0.03	-	<.001	5	0.1
													47838	50.9	52.9	0.03	-	<.001	5	0.1
													47839	52.9	54.9	0.03	-	<.001	5	0.1
													47840	54.9	56.9	0.03	-	<.001	5	0.1
													47841	56.9	58.9	0.03	-	<.001	5	0.1
													47842	58.9	60.9	0.02	-	<.001	5	0.1
													47843	60.9	62.9	0.03	-	<.001	5	0.1
													47844	62.9	64.9	0.03	-	<.001	5	0.1
													47845	64.9	66.9	0.03	-	<.001	5	0.1
													47846	66.9	68.9	0.01	-	<.001	5	0.1
													47847	68.9	70.9	0.02	-	<.001	5	0.1
													47848	70.9	72.9	0.02	-	<.001	5	0.1
													47849	72.9	74.9	0.02	-	<.001	5	0.1
													47850	74.9	76.9	0.02	-	<.001	5	0.1
													47851	76.9	78.9	0.02	-	<.001	5	0.1
													47852	78.9	80.9	0.01	-	<.001	5	0.1
													47853	80.9	82.9	0.02	-	<.001	5	0.2
													47854	82.9	84.9	0.03	-	<.001	5	0.2
													47855	84.9	86.9	0.02	-	<.001	5	0.2
													47856	86.9	88.9	0.03	-	<.001	5	0.2
													47857	88.9	90.9	0.02	-	<.001	5	0.2
													47858	90.9	92.9	0.02	-	<.001	5	0.2
													47859	92.9	94.9	0.03	-	<.001	5	0.2
													47860	94.9	96.9	0.02	-	<.001	5	0.2
													47861	96.9	98.9	0.03	-	<.001	5	0.2
													47862	98.9	100.9	0.03	-	<.001	5	0.2

To	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
														From	To						
	<b>cont'd 19.8-303.3 m</b>													47863	100.9	102.9	0.03	-	<.001	5	0.1
	<b>77.0-81.3 m:</b> Strong alteration of Guichon package													47864	102.9	104.9	0.05	-	<.001	5	0.1
	White/pale-pink colour Feldspars altered to alb + ser													47865	104.9	106.9	0.12	-	<.001	5	0.1
	Fracture sets 6-10 per metre at 65° C.A. contain ca +													47866	106.9	108.9	0.03	-	<.001	5	0.1
	ser + ca Mafics altered to ser + ca + clay ± ep Micro-													47867	108.9	110.9	0.04	-	<.001	5	0.1
	veinlets of ep ± ca at 20-30° C.A. Weakly magnetic													47868	110.9	112.9	0.05	-	<.001	5	0.1
	<b>81.5-85.0 m:</b> concentration of ca + ser ± qtz ±													47869	112.9	114.9	0.02	-	<.001	5	0.1
	hem ± ep ± spec veinlets within moderately fractured/													47870	114.9	116.9	0.02	-	<.001	5	0.1
	altered Guichon. 20-30° C.A.													47871	116.9	118.9	0.02	-	<.001	5	0.1
	Where veinlet network is intense (8-10 per 20 cm)													47872	118.9	120.9	0.02	-	<.001	5	0.1
	trace cpy and NCu occur as disseminated beads in													47873	120.9	122.9	0.04	-	<.001	5	0.1
	qtz + ser ± ca veinlets													47874	122.9	124.9	0.03	-	<.001	5	0.1
	Fracture surfaces contain ser ± ca ± hem ± CuOx at													47875	124.9	126.9	0.05	-	<.001	5	0.1
	50-60 and 35° C.A.													47876	126.9	128.9	0.02	-	<.001	5	0.1
	<b>85.0-88.5 m:</b> Fault zone, moderately to strongly													47877	128.9	130.9	0.01	-	<.001	5	0.1
	fractured/broken Guichon Fracture sets at 20-30 &													47878	130.9	132.9	0.05	-	<.001	5	0.1
	70-80° C.A. contain ser ± clay ± ca ± chl ± lim ± CuOx													47879	132.9	134.9	0.02	-	<.001	5	0.1
	(blood red flecks)													47880	134.9	136.9	0.03	-	<.001	5	0.1
	<b>91.4-94.3 m:</b> Dark blue-grey bio-hbl-feldspar													47881	136.9	138.9	0.20	-	<.001	5	0.1
	porphyry dyke Fine grained groundmass of qtz>fsp>													47882	138.9	140.9	0.03	-	<.001	5	0.1
	mag. Mafic phenocrysts moderately to strongly altered													47883	140.9	142.9	0.06	-	<.001	5	0.1
	to ser + clay ± ca Groundmass altered to ser ± ca ± ep													47884	142.9	144.9	0.03	-	<.001	5	0.1
	contains rounded mafic clots average 5 mm in diameter													47885	144.9	146.9	0.02	-	<.001	5	0.1
	altered to ser ± ep ± ca.													47886	146.9	148.9	0.04	-	<.001	5	0.1
	Fracture sets 40-45, 70-80° C.A. 8-10 per metre													47887	148.9	150.9	0.02	-	<.001	5	0.1
	contain ser + ca ± chl ± lim ± clay ± trace NCu flecks.													47888	150.9	152.9	0.03	-	<.001	5	0.1
	<1 mm veinlets of ca + qtz + ep ± hem ± lim 20-25° C.A.													47889	152.9	154.9	0.02	-	<.001	5	0.1
	10-20 per metre. Note: Ca ± qtz veinlets crosscut													47890	154.9	156.9	0.02	-	<.001	5	0.1
	ep ± qtz ± lim ± hem veinlets. At 94.3 m: lower contact													47891	156.9	158.9	0.09	-	<.001	5	0.1
	of dyke and Guichon unit highly fractured/veined,													47892	158.9	160.9	0.03	-	<.001	5	0.1
	both containing increased spec, ep and CuOx.													47893	160.9	162.9	0.12	-	<.001	5	0.1
	(After NCu?)													47894	162.9	164.9	0.05	-	<.001	5	0.1
	<b>95.0-113.0 m:</b> Increased fracturing and alteration													47895	164.9	166.9	0.20	-	<.001	5	0.1
	of Guichon. Fracture sets 15-25 per metre at 50-60													47896	166.9	168.9	0.06	-	<.001	5	0.1
	and 20-30° C.A., with ca + ser + clay ± chl ± CuOx ±													47897	168.9	170.9	0.04	-	<.001	5	0.1
	lim fracture coating. Feldspars strongly to intensely													47898	170.9	172.9	0.04	-	<.001	5	0.1
	altered to ser ± ca.													47899	172.9	174.9	0.02	-	<.001	5	0.1
	Mafics altered to ser + clay + ca. At 99.0 m, seritic/													47900	174.9	176.9	0.04	-	<.001	5	0.1
	hematitic clay gouge, subparallel to 55° C.A.													63001	176.9	178.9	0.02	-	<.001	5	0.1
	<b>104.0-113.0 m:</b> Stronger zone of fracturing and													63002	178.9	180.9	0.03	-	<.001	5	0.1
	clay gouge. Gouge at 50-60 and 20-30° C.A. contain													63003	180.9	182.9	0.09	-	<.001	5	0.1
	clay ± hem ± ca ± lim ± ser ± spec. Core strongly bro-													63004	182.9	184.9	0.05	-	<.001	5	0.1
	ken with ep + ca ± qtz ± spec veinlets (1-4 mm) at 25-													63005	184.9	186.9	0.05	-	<.001	5	0.1
	35° C.A.													63006	186.9	188.9	0.04	-	<.001	5	0.1
	<b>112.0-112.8 m:</b> Crackle/dilational breccia. Black-													63007	188.9	190.9	0.05	-	<.001	5	0.1
	dark grey matrix of qtz + ser ± tourmaline ± ca ± spec													63008	190.9	192.9	0.03	-	<.001	5	0.1
	with trace flecks of NCu. Sub-millimetre to 2.5 cm													63009	192.9	194.9	0.04	-	<.001	5	0.1
	shattered, angular and elongate to blocky Guichon													63010	194.9	196.9	0.07	-	<.001	5	0.1

m) To	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
														From	To						
	<b>cont'd 19.8-303.3 m</b>													63011	196.9	198.9	0.03	-	<.001	5	0.1
	fragments have weak alignment 25-30° C.A.													63012	198.9	200.9	0.07	-	<.001	5	0.1
	Guichon fragments moderately to strongly altered to a ser + ca + clay + hem ± lim ± NCu assemblage.													63013	200.9	202.9	0.31	-	<.001	5	0.1
	<b>120.9-125.5 m: Fault zone</b> containing clay + hem + ser + ca ± lim ± CuOx with trace py>cpy. Slightly more competent yet crumbled sections contain ca + hem ± qtz ± ser gash veins with ep + spec ± qtz envelopes (?) at 60° C.A. Clay + ca + ser slips at 55-60° C.A.													63014	202.9	204.9	0.06	-	<.001	5	0.1
														63015	204.9	206.9	0.04	-	<.001	5	0.1
														63016	206.9	208.9	0.03	-	<.001	5	0.1
														63017	208.9	210.9	0.06	-	<.001	5	0.1
														63018	210.9	212.9	0.07	-	<.001	5	0.1
														63019	212.9	214.9	0.06	-	<.001	5	0.1
														63020	214.9	216.9	0.08	-	<.001	5	0.1
	<b>126.4 m:</b> Sub-parallel shear with hem + ser + ep ± clay as filling													63021	216.9	218.9	0.23	-	<.001	5	0.1
														63022	218.9	220.9	0.05	-	<.001	5	0.1
	<b>131.0-131.4 m:</b> Hbl-bio porphyry dykelet (Bethlehem variety?). Qtz + fsp + mag groundmass. Ca + ser alteration of mafics and feldspars is weak. Flaky/dendritic NCu on lim ± spec ± hem fracture surfaces at 60° C.A.													63023	220.9	222.9	0.07	-	<.001	5	0.1
														63024	222.9	224.9	0.03	-	<.001	5	0.1
														63025	224.9	226.9	0.04	-	<.001	5	0.1
														63026	226.9	228.9	0.03	-	<.001	5	0.1
														63027	228.9	230.9	0.07	-	<.001	5	0.1
	<b>136.0-168.5 m:</b> Increasing frequency of black matrix crackle breccia (1-5 cm wide) and related crackle veinlets (i.e.: both contain matrix of qtz + ser + ep ± tourmaline ± ca with cpy and spec as clots/coarse disseminations up to 5 mm in diameter.)													63028	230.9	232.9	0.53	-	<.001	5	0.1
														63029	232.9	234.9	1.25	-	<.001	5	0.1
														63030	234.9	236.9	0.03	-	<.001	5	0.1
														63031	236.9	238.9	0.02	-	<.001	5	0.1
														63032	238.9	240.9	0.36	-	<.001	5	0.1
	Shattered, elongate fragments of Guichon 1 mm- 1 cm in length within crackle breccia are non-mineralized.													63033	240.9	242.9	0.08	-	<.001	5	0.1
	Irregular and frequently criss-crossing crackle veinlets average 2-5 per metre, <1 mm-1 cm wide, 10-20° C.A. ± 30, 40° C.A. Fracture sets 5-10 per metre at 25, 45 and 55-60° C.A. with ser + ca + clay ± lim/hem ± chl ± MnOx with trace cpy flecks.													63034	242.9	244.9	0.11	-	<.001	5	0.1
														63035	244.9	246.9	0.07	-	<.001	5	0.1
														63036	246.9	248.9	0.43	-	<.001	5	0.1
														63037	248.9	250.9	0.13	-	<.001	5	0.1
														63038	250.9	252.9	0.08	-	<.001	5	0.1
														63039	252.9	254.9	0.17	-	<.001	5	0.1
	Second type of veinlets: ep + qtz + ca ± cpy (1-3% as blebs/coarse disseminated vein fill) ± hem ± NCu (trace flecks) with ser ± ep ± ca ± hem envelopes 1-3 mm wide													63040	254.9	256.9	0.08	-	<.001	5	0.1
														63041	256.9	258.9	0.04	-	<.001	5	0.1
														63042	258.9	260.9	0.12	-	<.001	5	0.1
	crosscut mineralized black matrix crackle veinlets at 50-60° C.A.; spec blebs occur at intersection and are often oxidized. Vuggy ca + qtz + cpy veins up to 1 cm wide are common.													63043	260.9	262.9	0.12	-	<.001	5	0.1
														63044	262.9	264.9	0.02	-	<.001	5	0.1
														63045	264.9	266.9	0.02	-	<.001	5	0.1
														63046	266.9	268.9	0.02	-	<.001	5	0.1
	Ca + ser + lim + clay filled shear between 149.5-150.8 m with 25° C.A. slip at upper contact.													63047	268.9	270.9	0.04	-	<.001	5	0.1
														63048	270.9	272.9	0.02	-	<.001	5	0.1
	Guichon wallrock is strongly to intensely altered to ser + ca ± alb ± clay ± Fe stained feldspar giving the selvage a waxy green/grey to mottled orange/white appearance.													63049	272.9	274.9	0.01	-	<.001	5	0.1
														63050	274.9	276.9	0.04	-	<.001	5	0.1
														63051	276.9	278.9	0.06	-	<.001	5	0.1
														63052	278.9	280.9	0.07	-	<.001	5	0.1
	<b>171.5-232.3 m:</b> Well fractured/crumbled Guichon (fracture sets at 50, 35° and subparallel to C.A., 15-25 per metre with ser + ca ± chl ± spec ± cpy ± lim coating) locally fault gouge (clay + ser + ca ± chl ± hem). Clay + ser + hem slips at 50-60° C.A.													63053	280.9	282.9	0.03	-	<.001	5	0.1
														63054	282.9	284.9	0.18	-	<.001	5	0.1
														63055	284.9	286.9	0.07	-	<.001	5	0.1
														63056	286.9	288.9	0.04	-	<.001	5	0.1
														63057	288.9	290.9	0.03	-	<.001	5	0.1
	Guichon wallrock strongly to intensely altered to a													63058	290.9	292.9	0.03	-	<.001	5	0.1



n) To	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
														From	To					
	<b>cont'd 19.8-303.3 m</b>												63059	292.9	294.9	0.02	-	<.001	5	0.1
	ghost-mottled pink/waxy green coloured ser + alb + hem + ca alteration assemblage. Within selvage (2-5 cm wide) of crackle veinlets/stingers and crackle breccias (both contain qtz + ser + ep ± ca ± tourmaline ± spec fine grained black matrix) 5-10 per metre at 15-25, 40-45° C.A. Trace cpy ± py replacing mafics in alteration selvage grading away to nearly absent in fresher competent Guichon rock. Crackle veinlets (1-3 cm wide) & breccia (4 mm-3 cm wide) carry coarse disseminated/beads of cpy up to 2 cm in diameter. Possible late stage ca ± qtz veinlets (1-3 cm wide <1 per metre, at 40° C.A.) also carry coarse cpy blebs (1-2 cm diam.) Locally shear at 50° C.A., ca + clay + ser + spec ± cpy (1-3% over 3-6 cm) ± black matrix breccia filling. Local crackle breccias up to 6 cm wide contain elongate/rice shaped Guichon fragments (2 mm- 3 cm in length) oriented in black matrix at 45-55° C.A.												63060	294.9	296.9	0.04	-	<.001	5	0.1
													63061	296.9	298.9	0.04	-	<.001	5	0.1
													63062	298.9	300.9	0.03	-	<.001	5	0.1
													63063	300.9	302.9	0.03	-	<.001	5	0.1
													63064	302.9	303.3	0.03	-			
													<b>end of assay information</b>							
	<b>232.3-236.2 m:</b> Fault breccia, well healed with ser + ca + clay + hem + qtz matrix between fragments of strong to intensely altered and partially silicified Guichon and bio-hbl porphyry dyke. Ca + ser + hem ± qtz ± cpy (1-3% over interval) form intense network of shear related subparallel and 35-45° C.A. veinlets and gash veins. Mineralization forms exclusively within these breccia fill veins and not in fragments.																			
	<b>236.2-244.4 m:</b> Hbl-bio-feldspar porphyry (Beth?) dyke. Strongly broken and fracture (30-40° C.A. with ca + lim ± ser ± clay ± MnOx (?) fill). Subparallel and 35-45° C.A. irregular and vuggy veins of ca + lim ± qtz ± ep, 2 mm-3 cm wide contain none to trace cpy. At lower end of interval near contact with Guichon, Hbl-bio-fsp porphyry dyke becomes brecciated with a ser + qtz ± ca ± cpy (<5 mm coarse blebs) weakly milled matrix between 1 mm-5 cm long, angular lens-shaped fragments of hbl-bio-fsp porphyry and lesser Guichon. Locally gouged with clay + ser + ca ± lim filling.																			
	<b>244.4-258.0 m:</b> Bio-Hbl-Qtz Diorite (Guichon) Strongly altered with local short intervals (< 1 m) of intense alteration [feldspars completely altered to gel-green ser ± ca, mafics altered to ser + ca ± clay ± mag ± cpy (trace)]. Local clay + ca + ser + lim, gouge in top 3 m of contact. Crackle brecciated throughout with ser + ca + qtz ± cpy in green/black matrix. Subparallel and 30-40° C.A. fracture sets contain ser + ca + clay ± hem ± cpy. Coarse to fine cpy blebs/disseminated fill ca + qtz + ser veins/veinlets with irregular C.A. (crackle breccia																			

m) To	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)
														From	To					
	<p><i>cont'd 19.8-303.3 m</i></p> <p>controlled?). Alteration of Guichon is intense at lower contact with Bio-hbl-fsp porphyry dyke.</p> <p><b>258.0-275.2 m:</b> Bio-hbl-feldspar porphyry dyke</p> <p><i>Note:</i> mafic phenos up to 4 mm diam. Well fractured 10-15 per metre. Variable alteration reflected in colour and textural differences throughout -- primarily brown-red where least altered (fsp altered to ser + ca + Fe-stain, mafics altered to ser + clay ± ca ± mag) with lesser grey-green where strongly altered (fsp entirely altered to ser + ca, mafics altered to ser + ca ± mag ± cpy (0.5-1%). Trace cpy &gt;&gt; py in fractures, 40-50° C.A., with ser + ca ± hem ± clay coating. Infrequent (1-5 mm) ca ± qtz ± cpy veinlets throughout (&lt;1 per metre), commonly ca + lim vuggy.</p> <p><b>262.5-266.4 m:</b> Poorly healed clay + ser + ca + lim ± hem filled fault-crackle breccia with trace cpy &gt; py sparsely flaked nearer to fractures. Fault gouge (clay + ser + ca ± lim) and strong fracturing increases towards end of sub-interval with ser + clay ± ca slips at 40-45° C.A.</p> <p>Weakly magnetic, RQD 1% from 229.0-278.0 m.</p> <p><b>275.2-280.0 m:</b> zone of moderately brecciated (crackle?), strongly fractured/crumbled Bio-hbl-fsp porphyry dyke wallrock and bio-hbl-qtz diorite (Guichon wallrock from lower contact.) Intense propylitic overprinting (ser + ca + qtz ± clay). Subparallel and subnormal ca + ser ± qtz ± hem ± cpy ± spec veinlets and gash (dilation?) veins interstitial to digested, rounded wallrock fragments. Rare silicified ser + ca + cpy veined sections up to 10 cm wide. Cpy mineralization increases towards lower contact with Guichon primarily as vein fill with lesser mafic replacement in some fragments.</p> <p><b>280.0-303.3 m:</b> Bio-hbl-Qtz Diorite (Guichon variety). Variable alteration intensity throughout subintervals; strong alteration (mottled red-grey colour) to intense alteration (light green-bleached to darker green colour). Ca ± qtz ± ser ± hem vein/veinlets 2 mm-1.5 cm wide at 20-35 and 60-70° C.A. contain fine to coarse disseminated/blebs of cpy (up to 4 mm diam./length) and occur in ser + qtz ± ca ± hem matrix of crackle/intrusion related breccia at top of contact. Fragments carry low (trace) cpy &gt; py in mafics. Local ser + qtz ± ca crackle veining (with ± cpy) and gouge (with clay + hem + ca ± ser fill). Cpy ± py is absent to trace in mafics towards end of hole.</p> <p><b>289.4:</b> 20 cm wide stoped (?) grey-black bio-hbl-fsp</p>																			

n) To	Description	%Py	%Cp	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (ppb)	Ag (g/t)	
														From	To						
	<p><i>cont'd 19.8-303.3 m</i></p> <p>porphyry dykelet (?)</p> <p><b>294.2-299.0 m:</b> increase in hem gouge (60-70% of subinterval) and fracturing (subparallel and 30° C.A. ser + clay ± ca ± bnck red hem ± lim ± cpy/py fill.</p> <p><b>EOH 303.3 m</b></p>																				

**Diamond Drill Log**

Project:	Getty South Project	Northing: 5600863	-1 = absent	Core: NQ2	Azimuth	Dip
Hole #:	GS96-11	Easting: 642208	1 = background/fresh	4 = strong	Collar	090
Date:	13-Aug-96	Elevation: 1617 m	2 = weak	5 = intense		-45
Logged by:	R.Whiteaker		3 = moderate			

Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays							
From	To													Sample Number	Interval (m) From To		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
0	3.0	Casing /overburden												63065	3.0	5.0	0.02	-	<.001	5	0.1
														63066	5.0	7.0	0.02	-	<.001	5	0.1
3.0	83.8	Hbl-Bio-Qtz Diorite (Guichon variety) Medium grained weakly equigranular & weakly to moderately magnetic Pink-green-yellow due to K-spar and weakly sericitic plag. Mafics weakly altered to ser ± ca ± mag ± clay Feldspars weakly altered to ser ± ca Mineralization is absent in mafics & fractures/veins. Moderately to well fractured/broken. 25-35° and 45-50° C.A. with ser + clay + ca ± hem ± lim (stronger down section with increasing alteration) Local clay ± ca ± ser ± hem/lim gouge 5-40 cm wide. Rare sub-mm ca ± ep ± ser veinlets near gouge and stronger fracturing. Infrequent stoped/xenolithic (?) subrounded, partially digested fragments of Bethlehem variety.												63067	7.0	9.0	0.04	-	<.001	5	0.1
														63068	9.0	11.0	0.03	-	<.001	5	0.1
														63069	11.0	13.0	0.02	-	<.001	5	0.1
														63070	13.0	15.0	0.02	-	<.001	5	0.1
														63071	15.0	17.0	0.03	-	<.001	5	0.1
														63072	17.0	19.0	0.03	-	<.001	5	0.1
														63073	19.0	21.0	0.02	-	<.001	5	0.1
														63074	21.0	23.0	0.07	-	<.001	5	0.1
														63075	23.0	25.0	0.04	-	<.001	5	0.1
														63076	25.0	27.0	0.03	-	<.001	5	0.1
														63077	27.0	29.0	0.02	-	<.001	5	0.1
														63078	29.0	31.0	0.03	-	<.001	5	0.1
														63079	31.0	33.0	0.10	-	<.001	5	0.1
														63080	33.0	35.0	0.03	-	<.001	5	0.1
														63081	35.0	37.0	0.02	-	<.001	5	0.1
														63082	37.0	39.0	0.02	-	<.001	5	0.1
														63083	39.0	41.0	0.07	-	<.001	5	0.1
														63084	41.0	43.0	0.04	-	<.001	5	0.1
														63085	43.0	45.0	0.06	-	<.001	5	0.1
														63086	45.0	47.0	0.05	-	<.001	5	0.1
														63087	47.0	49.0	0.05	-	<.001	5	0.1
														63088	49.0	51.0	0.02	-	<.001	5	0.1
														63089	51.0	53.0	0.01	-	<.001	5	0.1
														63090	53.0	55.0	0.02	-	<.001	5	0.1
														63091	55.0	57.0	0.03	-	<.001	5	0.1
														63092	57.0	59.0	0.02	-	<.001	5	0.1
														63093	59.0	61.0	0.02	-	<.001	5	0.1
														63094	61.0	63.0	0.02	-	<.001	5	0.1
														63095	63.0	65.0	0.02	-	<.001	5	0.1
														63096	65.0	67.0	0.02	-	<.001	5	0.1
														63097	67.0	69.0	0.02	-	<.001	5	0.1
														63098	69.0	71.0	0.01	-	<.001	5	0.1
														63099	71.0	73.0	0.02	-	<.001	5	0.1
														63100	73.0	75.0	0.07	-	<.001	5	0.1
														63101	75.0	77.0	0.03	-	<.001	5	0.1
														63102	77.0	79.0	0.04	-	<.001	5	0.1
														63103	79.0	81.0	0.04	-	<.001	5	0.1
														63104	81.0	83.0	0.08	-	<.001	5	0.1
														63105	83.0	85.0	0.05	-	<.001	5	0.1
														63106	85.0	87.0	0.04	-	<.001	5	0.1
														63107	87.0	89.0	0.03	-	<.001	5	0.1



Depth (m)		Description	%Py	%Cpy	%Bof Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
106.8	147.0	<p>Heterolithic intrusion breccia. Clast supported with a black ser + qtz + ca ± (± tourmaline?) ± cpy (near rims of clasts and in mafics). Clasts: 85% Guichon variety, subangular to angular, &lt; 1 mm-25 cm in diam. length to width ratio typically 3:1 ± 2:1, 10% Bio-Hbl-Fsp porphyry fragments, angular, &lt; 1 mm-5 cm in diam., &lt; 5% black-green volcanic clasts, 1-2 cm diam, and minor aplitic fragments &lt; 1 mm-1 cm diam. Clasts are moderate to intensely altered to ser + ca ± chl ± clay ± cpy (mafic replaced) ± hem. Locally clasts are lim rimmed and as well internally limonitic. Towards end of interval clasts become progressively more altered/Fe-stained pink/orange. Local fault breccia with strongly limonitic clay + ser + ca gouge/slips at 60° C.A. Lim + hem stained fractures at 25, 60° C.A. and subnormal to C.A. contain trace cpy flecks to 121.0 m. Mal/azur in trace amounts occur uncommonly in ca + qtz ± hem ± cpy (0.01-1%) veinlets 1 mm-1 cm wide with a strongly hematitic envelope and selvage. Mal also in trace amounts in mafics of select Guichon clasts. Very weakly magnetic.</p> <p><b>121.0-133.0 m:</b> Presence of cpy in veins, replacing mafics in fragments and in black matrix decreases to trace amounts. Increase in lim/hem oxidation of clasts &amp; deeper pink colour to Guichon clasts (Fe-staining?).</p> <p><b>133.0-147.0 m:</b> Matrix of intrusion breccia becomes light grey/green to dark grey/black. Stronger sericitization of matrix (ser + qtz + ca ± hem). Clasts appear more subrounded (possible assimilation?) and have prevalent lim nnds (as well, phenos in clasts are rimmed by lim.) Trace NCu on fracture surfaces with strong lim/hem + qtz ± ser veinlets at 50° C.A. Fracture sets and slips take on a soft sooty black appearance (Cc?) at 45-50° C.A. and subnormal C.A. with ca + clay + ser fill. Locally, coarse cpy blebs (1-5 mm diam) occur in qtz ± ca veinlets that cross cut black breccia matrix at 45° C.A.; cpy locally tarnished to purple/violet. Towards end of interval breccia clasts become smaller (&lt; 5 cm diam.), the matrix weaker and less competent, and the appearance of cpy blebs and disseminations more common (to 1% over &lt; 10 m), also greater, abundance of strong lim/hem oxidation "bands" in a more sooty black/green breccia matrix.</p>	0.03	0.1	-1	-1	-1	4	3	3	2	10	1	63159	191.0	193.0	0.01	-	< .001	5	0.1
			63160	193.0	195.0	0.01	-	< .001	5	0.1											
			63161	195.0	197.0	0.02	-	< .001	5	0.1											
			63162	197.0	199.0	0.01	-	< .001	5	0.1											
			63163	199.0	201.0	0.02	-	< .001	5	0.1											
			63164	201.0	203.0	0.05	-	< .001	5	0.1											
			63165	203.0	205.0	0.04	-	< .001	5	0.1											
			63166	205.0	207.0	0.02	-	< .001	5	0.1											
			63167	207.0	209.0	0.02	-	< .001	5	0.1											
			63168	209.0	211.0	0.05	-	< .001	5	0.1											
			63169	211.0	213.0	0.03	-	< .001	5	0.1											
			63170	213.0	215.0	0.03	-	< .001	5	0.1											
			63171	215.0	217.0	0.03	-	< .001	5	0.1											
			63172	217.0	219.0	0.03	-	< .001	5	0.1											
			63173	219.0	221.0	0.01	-	< .001	5	0.1											
			63174	221.0	223.0	0.02	-	< .001	5	0.1											
			63175	223.0	225.0	0.02	-	< .001	5	0.1											
			63176	225.0	227.0	0.02	-	< .001	5	0.1											
			63177	227.0	229.0	0.02	-	< .001	5	0.1											
			63178	229.0	231.0	0.02	-	< .001	5	0.1											
			63179	231.0	233.0	0.02	-	< .001	5	0.1											
			63180	233.0	235.0	0.02	-	< .001	5	0.1											
			63181	235.0	237.0	0.01	-	< .001	5	0.1											
			63182	237.0	239.0	0.02	-	< .001	5	0.1											
			63183	239.0	241.0	0.01	-	< .001	5	0.1											
			63184	241.0	243.0	0.01	-	< .001	5	0.1											
			63185	243.0	245.0	0.01	-	< .001	5	0.1											
			63186	245.0	247.0	0.03	-	< .001	5	0.1											
		63187	247.0	249.0	0.02	-	< .001	5	0.1												
		63188	249.0	251.0	0.02	-	< .001	5	0.1												
		63189	251.0	253.0	0.01	-	< .001	5	0.1												
		63190	253.0	255.0	0.02	-	< .001	5	0.1												
		63191	255.0	257.0	0.02	-	< .001	5	0.1												
		63192	257.0	259.0	0.01	-	< .001	5	0.1												
		63193	259.0	260.9	0.02	-	*last composite only 9 samples														
<b>end of assay information</b>																					

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chi	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
147.0	158.0	Strong to intensely altered Bio-Hbl-Fsp porphyry (not FP1). Deep grey/green to slightly pinkish grey. Pervasive alteration assemblage of ser + hem + ca ± lim. Strongly fractured. Sooty black (CC?) ± cpy coated fracture sets and local fault gouge (often limonitic). Cpy is coarsely distributed and commonly tarnished to orange/bronze. Hematitic/sooty to metallic grey fracture fill sets at 45-50° and subparallel to C.A. Mineralization is not pervasive into wallrock. Non-magnetic. <b>153.3-154.0 m:</b> Well healed fault breccia with clay + ser + ca ± hem cement. Light green-grey. Slips at 60° C.A. contain 1-4 mm clusters of cpy (trace total over sub-interval). <b>154.0-155.4 m:</b> Moderately altered Bio-Hbl-Qtz Diorite (Guichon). Well fractured with limonitic and hematitic waxy clay + ser ± ca fill and slips (both at 50 & 30° C.A.) Overall orangy-yellow/reddish colour due to strong lim/hem (pervasive). Non-mineralized.	0.05	0.05	?	-1	-1	3	3	-1	2	<1	-1	cont'd core logging							
158.0	163.2	Bio-Hbl-Qtz Diorite (Guichon): moderate to strongly altered. Fsp altered to ser + ca + alb. Mafics altered to ser ± clay ± ca. Upper contact at 50° C.A. Strongly altered Guichon in a limonitic fault breccia with clay + ser + ca + lim ± hem cement and local gouge. Fractures and veinlets (<1 mm) at 50 & 30° C.A. contain ser + ca ± lim ± hem. Locally veins are intensely limonitic with a lim + ca ± alb selvage/envelope. Lower contact with Bio-Hbl-Fsp porphyry at 65° C.A. contains ser + ca + ep ± hem ± lim.	-1	-1	-1	-1	-1	2	2	-1	2	20	-1								
163.2	200.5	Bio-Hbl-Fsp porphyry dyke. Variable altn & hematization (mod to strong) give unit a red/brown colour. Fracture sets at 30, 40-50° & subparallel C.A., 8-12 per metre coated with ser + hem + ca ± lim ± spec ± mal (where spec is strongest & fractures appear "crackle-filled"). Local subparallel ca veinlets (1-4 mm wide) are strongly limonitic and commonly vuggy/drus. <b>179.2-189.3 m:</b> Faulted/partially Fault brecciated section of Bio-Hbl-Fsp Qtz diorite (Guichon). Upper contact at 70° C.A. Alteration is moderate to strong (pink to bleach white to dark grey) with a ser + ca ± alb ± spec. 3-6 mm wide crackle breccia veins at 45° C.A. contain ser + ca + qtz ± spec ± hem matrix, selvages are albitized and mafics strongly replaced by spec; comminuted wallrock is intensely altered to alb + Fe-oxide ± ser. <b>183.5-189.3 m:</b> Moderate to well healed fault breccia. Light grey green clay + ser + ca ± lim/hem cement gouge. Upper contact at 30° C.A. is silicified (1 cm wide) to Guichon wallrock. Down section becomes intensely limonitic and hematitic, very crumbled.	-1	-1	-1	-1	2	2	2	-1	2	6	1								

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Suff	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
		<i>cont'd sub-interval 179.2-189.3 m</i> and dusty yellow-red. Ser + hem + lim ± ca slips at 30° C.A. NCu appears at 185.0 m as small flecks finely disseminated on fracture sets (30-40° C.A., deep red hem ± lim ± spec fill) and on slips (similar orientation and competency). NCu rarely visible after 189.0 m. Trace mal in local limonitic clay + ca ± ser gouge. Lower contact bleached green/white (ser + alb + ca). Local silicification in ca + ser vuggy fractures where brecciated.																			
189.3	200.5	Bio-Hbl-Fsp dyke. Variable alteration gives unit a red-brown to light grey-pink colour. Strongly limonitic/hematitic upper contact, poorly healed fault breccia at 191.0 m with strongly limonitic clay + ser + ca ± quartz fill/cement. Overall alteration is moderate to strong with a ser + ca ± clay ± Fe-stain (hem) assemblage. Variation in pink-red colour due to level of Fe-staining of feldspars. Moderate to well fractured 10-15 per metre with sets at 30 & 60° C.A. containing ser + ca ± lim ± clay (± spec ± py primarily in top 2 m of interval). No pervasive mineralization or mafic replacement.	0.01	-1	-1	-1	1	2	2	-1	2	8	-1								
200.5	260.9	Bio-Hbl-Qtz Diorite (Guichon). Medium grained light grey/speckled pinkish. Weak to moderately magnetic. Weakly equigranular. Upper contact at 60° C.A. is weakly crackle brecciated with a ser + clay + hem ± ca fracture surfaces contact and an aplitic selvage (2 cm wide). Overall alteration is weak to moderate. Fsp weakly altered to ser ± alb ± ca. Mafics weak to moderately altered to bleached white/green to pink/white (ser + ca + clay + chl). Generally no pervasive mineralization or in selvages of vnits/fracts. Guichon becomes less altered/fractured towards EOH (last 10 cm). Fract sets (6-8 per metre average at 45-55°, subnormal and subparallel to C.A.) contain ser + ca ± clay ± lim (hem coating). Local weak fault related brecciation (?) down section (ie: little rotation/milling of wallrock, lightly friable). Ca + ser ± ep veinlets (<1-4 mm wide) at 60-70° and subparallel to C.A., 4-6 per metre enclosed by envelope/selvage of Fe-stained plag + ser ± alb ± ep ± hydrothermal garnet (?) ± lim. <b>200.5-241.1 m:</b> Well fractured/crumbled and moderately altered Guichon (pinkish-white bleach colour). Locally sheared fault breccia at 204.8 m (55° C.A.). Subparallel and 35° C.A. fractures contain trace spec and lim/hem. Intermittent weak fault breccia, well to moderately healed with ser + clay + ca ± hem/lim cement and associated gouge (commonly containing deep red hem). Slips of ser + clay ± hem at 30° and subparallel to C.A.	-1	-1	-1	-1	1	3	3	-1	2	14	-1								



Depth (m)		Description	%Py	%Cpy	%Ba/Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)												
From	To														From	To																	
		<p>217.8 m: Deep rust-brown hem rich clay + ser + ca gouge 3 cm wide at 60° C.A. 2 cm wide intensely sericitized/albitized wallrock selvage.</p> <p>224.5 m: 4 cm wide ep + stringy hem vein at 65° C.A. with ser + qtz envelope and albitized selvage (to 5 cm).</p> <p>227.0-231.0 m: Well broken/fractured Guichon, moderately altered and hem + lim on fracture sets (not a fault zone)</p> <p>234.7-237.7 m: zone of apitic/ep flooding (?). Increase in ep + ca + qtz + ser veinlets (1 mm-3 cm wide) &amp; loc brecciated character to Guichon w/ angular, elongate (to 4 cm) partially epidotized clasts of aplite &amp; Guichon. Well healed fault breccia with hem slips at 65° C.A. and cement of ser + clay + ca + lim. Rare ep + ca ± qtz veinlets at 60° C.A. contain trace blebs of mal and lim oxidized cpy.</p> <p>239.4-241.5 m: Bio-Hbl-Fsp porphyry dyke. Overall moderate alteration assemblage of ser + ca ± ep. Brown-grey to dark grey-black at chilled contact with Guichon. Moderately fractured at 40 &amp; 60° C.A. with clay + ser ± ca fill. Non-mineralized. Weakly magnetic. Lower contact with albitized Guichon at 65° C.A.</p> <p>243.8-246.1 m: Strong to intense pervasive lim ± hem in selvages of ca + ser ± qtz veins (20-30° C.A.) and on fracture surfaces (30, 60° C.A.); both commonly vuggy with ca + lim ± mal encrustations</p> <p>250.0-250.4 m: Poorly healed fault breccia with hem/lim rich clay + ca + ser. Clay + lim + ser slips at 50° C.A. Intensely altered Guichon at lower contact; fsp/mafics in selvage are a waxy gel-green colour with lesser amounts of Fe-staining closer to local ca ± ser veinlets. No mineralization.</p> <p style="text-align: center;"><b>EOH 260.9 m</b></p>																															
<b>cont'd core logging</b>																																	

Diamond Drill Log																					
Project: Getty South Project		Northing: 5600856		-1 = absent				Azim		Dip											
Hole #: GS96-12		Easting: 643367		1 = background/fresh		Core: NQ2		Collar		090		-45									
Date: 17-Aug-96		Elevation: 1637 m		2 = weak		4 = strong															
Logged by: R. Whiteaker				3 = moderate		5 = intense															
Note: all assays for Ag, Mo and Au are 10 SAMPLE COMPOSITES, unless otherwise noted.																					
												Assays									
Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
0.0	6.1	casing/overburden												63194	6.1	8.0	0.06	-	<.001	5	0.1
														63195	8.0	10.0	0.03	-	<.001	5	0.1
6.1	76.3	Intrusion Breccia zone Weakly to strongly crackle brecciated locally with Guichon Bio-Hbl-Qtz Dionite wall rock weakly to intensely altered. Clast supported (90% Guichon, 8% FP and 2% volcanic (Nic?)). Black to green-grey ser + chl + qtz (± tour?) ± ca ± cpy (finely disseminated to 5 mm blebs). Interclastic, coarse (up to 4 cm in diam) angular ca + qtz ± hem ± lim ± cpy (commonly with oxide ± mal rims) irregular veins/open space fill, frequently vuggy with well formed qtz crystals and hem mattes. Fragments, contain none to trace cpy as mafic replacement, range in size from 1 mm to 20 cm (average size 3-8 cm) in diam, length to width ratio 3:1 to 6:1, angular, elongate to blocky in general to shard-like and shattered where strongly crackle adjacent to more competent Guichon. Clasts moderate to strongly altered to a ser + ca ± alb ± hem (Fe-stain) assemblage, clasts locally rimmed by lim ± hem, less commonly lim is pervasive. Variable comminuted wallrock. Trace mal associated with cpy/lim blebs in matrix. Local mud-brown clay (slightly lim) gouge with 30-35° C.A. slips. Fracture sets 4-8 per metre at 30-40, 70° and subparallel to C.A., ser + clay + ca ± lim fill.	0.01	0.05	-1	-1	3	3	3	3	2	20	1	63196	10.0	12.0	0.05	-	<.001	5	0.1
														63197	12.0	14.0	0.03	-	<.001	5	0.1
														63198	14.0	16.0	0.04	-	<.001	5	0.1
														63199	16.0	18.0	0.03	-	<.001	5	0.1
														63200	18.0	20.0	0.04	-	<.001	5	0.1
														63201	20.0	22.0	0.02	-	<.001	5	0.1
														63202	22.0	24.0	0.06	-	<.001	5	0.1
														63203	24.0	26.0	0.07	-	<.001	5	0.1
														63204	26.0	28.0	0.06	-	<.001	5	0.1
														63205	28.0	30.0	0.11	-	<.001	5	0.1
														63206	30.0	32.0	0.07	-	<.001	5	0.1
														63207	32.0	34.0	0.06	-	<.001	5	0.1
														63208	34.0	36.0	0.03	-	<.001	5	0.1
														63209	36.0	38.0	0.03	-	<.001	5	0.1
														63210	38.0	40.0	0.06	-	<.001	5	0.1
														63211	40.0	42.0	0.10	-	<.001	5	0.1
														63212	42.0	44.0	0.04	-	<.001	5	0.1
														63213	44.0	46.0	0.06	-	<.001	5	0.1
														63214	46.0	48.0	0.06	-	<.001	5	0.1
														63215	48.0	50.0	0.16	-	<.001	5	0.1
														63216	50.0	52.0	0.13	-	<.001	5	0.1
														63217	52.0	54.0	0.08	-	<.001	5	0.1
														63218	54.0	56.0	0.45	-	<.001	5	0.1
														63219	56.0	58.0	0.21	-	<.001	5	0.1
														63220	58.0	60.0	0.08	-	<.001	5	0.1
														63221	60.0	62.0	0.21	-	<.001	5	0.1
														63222	62.0	64.0	0.03	-	<.001	5	0.1
														63223	64.0	66.0	0.04	-	<.001	5	0.1
														63224	66.0	68.0	0.35	-	<.001	10	0.1
														63225	68.0	70.0	0.07	-	<.001	10	0.1
														63226	70.0	72.0	0.19	-	<.001	10	0.1
														63227	72.0	74.0	0.38	-	<.001	10	0.1
														63228	74.0	76.0	0.17	-	<.001	10	0.1
														63229	76.0	78.0	0.05	-	<.001	10	0.1
														63230	78.0	80.0	0.03	-	<.001	10	0.1
														63231	80.0	82.0	0.03	-	<.001	10	0.1
														63232	82.0	84.0	0.02	-	<.001	10	0.1
														63233	84.0	86.0	0.02	-	<.001	10	0.1
														63234	86.0	88.0	0.03	-	<.001	5	0.1

Depth (m)		Description	%Py	%Cpy	%Bo Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
		<i>cont'd sub-interval 20.0-22.5 m</i>												63235	88.0	90.0	0.02	-	< .001	5	0.1
		ser + ca + clay) Non-mineralized. Moderately fractured with strong lim coating on clay + ca + ser surfaces at sub-normal and 35° C.A. Upper contact weakly crackle brecciated and crumbled.												63236	90.0	92.0	0.02	-	< .001	5	0.1
		22.5-34.0 m: zone of stronger fracturing and fault gouge (Fault zone?) gouge ranges from sooty black (CC?) to bleach white yellow in colour. Characterized by a gritty/sandy crumbled, commonly vuggy (qtz crystals) texture. Fracture surfaces and gouge are moderate to strongly lim/hem. clay + ca + ser + lim. Slips at 45° and sub-parallel to C.A. Fracture sets at 45° C.A. locally contain spec + mal. Trace cpy in matrix of breccia (< 0.04%), none in crackle brecciated blocks of Guichon.												63237	92.0	94.0	0.02	-	< .001	5	0.1
		34.5-52.5 m: Increase in quantity of irregularly shaped coarse, vuggy ca + qtz open space filling and veins (?) within matrix/between clasts. Increase in abundance of cpy blebs/disseminated (<1.4 mm in diam.) in black matrix and associated with ca + qtz + hem vein/fill. Locally mal + lim rims cpy. Intense alteration (ser + ca ± alb ± clay) of Guichon blocks (?). Moderate lim on 35° C.A. fracture sets. Between 0.05-1.5% cpy over sub-interval. Slightly less clasts supported, more matrix supported.												63238	94.0	96.0	0.02	-	< .001	5	0.1
		53.5 m: Intense yellow-brown limonitic fracture/slip (48° C.A.) continuing up to 10 cm into intensely altered (sericitized) breccia.												63239	96.0	98.0	0.01	-	< .001	5	0.1
		54.4-59.1 m: Fault breccia, poor to well healed with local strong to intense yellow-brown limonitic clay + ca ± ser cement/gouge. Slips at 35° and sub-normal to C.A. mal and deep red lim common in gouge zones filled with coarse qtz crystals (up to 1.5 cm diam.). Possible fine grained dyke between 54.9 - 55.3 m; intense lim oxidation masks textures of lithology in sub-interval.												63240	98.0	100.0	0.01	-	< .001	5	0.1
		59.1-70.5 m: Change in lithology of breccia fragments: 50% Bio-Hbl-Fsp porphyry (dark grey-green), 30% Guichon Qtz Diorite, 20% Fsp porphyry (pink-brown). Guichon fragments show greatest alteration (moderate to intense ser ± alb), Bio-Hbl-Fsp porphyry shows the least alteration (weak ser ± ca). Strong bright yellow to deep red lim in local crumbled clay ± ca gouge and on subparallel fractures with mal. Cpy occurs as coarse blebs (up to 2 cm diam.) in vuggy ca + qtz interclastic fill/veins and is commonly strongly lim (red-brown crusts to cpy). Limonitic clay + ca ± ser slips at 40-50° C.A. Possible CC on fractures and in gouge (sooty black flecks).												63241	100.0	102.0	0.01	-	< .001	5	0.1
														63242	102.0	104.0	0.02	-	< .001	5	0.1
														63243	104.0	106.0	0.02	-	< .001	5	0.1
														63244	106.0	108.0	0.03	-	<i>only Cu assays from here</i>		
														63245	108.0	110.0	0.03	-			
														63246	110.0	112.0	0.02	-			
														63247	112.0	114.0	0.01	-			
														63248	114.0	116.0	0.02	-			
														63249	116.0	118.0	0.01	-			
														63250	118.0	120.0	0.02	-			
														63251	120.0	122.0	0.01	-			
														63252	122.0	124.0	0.03	-			
														63253	124.0	126.0	0.04	-			
														63254	126.0	128.0	0.03	-			
														63255	128.0	130.0	0.02	-			
														63256	130.0	132.0	0.02	-			
														63257	132.0	134.0	0.04	-			
														63258	134.0	136.0	0.02	-			
														63259	136.0	138.0	0.03	-			
														63260	138.0	140.0	0.02	-			
														63261	140.0	142.0	0.02	-			
														63262	142.0	144.0	0.02	-	<i>only Cu assays</i>		
														63263	144.0	146.0	0.09	-			
														63264	146.0	148.0	0.02	-			
														63265	148.0	150.0	0.06	-			
														63266	150.0	152.0	0.01	-			
														63267	152.0	154.0	0.02	-			
														63268	154.0	156.0	0.05	-			
														63269	156.0	158.0	0.03	-			
														63270	158.0	160.0	0.02	-			
														63271	160.0	162.0	0.02	-			
														63272	162.0	164.0	0.02	-			
														63273	164.0	166.0	0.05	-			
														63274	166.0	168.0	0.01	-			
														63275	168.0	170.0	0.01	-			
														63276	170.0	172.0	0.04	-			
														63277	172.0	174.0	0.21	-			
														63278	174.0	176.0	0.17	-			
														63279	176.0	178.0	0.02	-			
														63280	178.0	180.0	0.02	-			
														63281	180.0	182.0	0.02	-			
														63282	182.0	184.0	0.04	-			
														63283	184.0	186.0	0.02	-			

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)	
From	To														From	To						
		70.5-74.8 m: Fault zone, possibly re-brecciated intrusion breccia. Strongly limonitic clay + ser ± ca gouge and shearing occurs locally (shears at clay + lim + ser slips at 50-60° C.A.). Where shearing has affected mineralized intrusion breccia cpy with lim rims ± mal occurs in crushed/dusty yellow-brown cement/gouge.													63284	186.0	188.0	0.05	-			
															63285	188.0	190.0	0.02	-			
															63286	190.0	192.0	0.03	-			
															63287	192.0	194.0	0.03	-			
															63288	194.0	196.0	0.03	-			
															63289	196.0	198.0	0.03	-			
															63290	198.0	200.0	0.04	-			
		74.8-76.3 m: Very fine grained, chilled (silicified), dark blue-black matrix to intrusion breccia. No ca + qtz + cpy vein/open space filling. Clasts strongly altered (ser + ca ± alb ± Fe-stain) and limonitic. Decrease in mineralization, rare cpy blebs in ca + qtz ± ser veinlets with irregular C.A., also cpy ± mal with patchy network of deep red-brown lim/hem coatings along fractures and in veinlets. Dark brown-grey Bio-Hbl-Fsp porphyritic dykelet between 75.6-76.0 m, lower contact at 40° C.A. Fractures sets at 40° C.A. strongly limonitic with dendritic black oxide (Mn oxide?) ± mal (at contacts only).														63291	200.0	202.0	0.03	-		
															63292	202.0	204.0	0.04	-			
															63293	204.0	206.0	0.03	-			
															63294	206.0	208.0	0.05	-			
															63295	208.0	210.0	0.03	-			
															63296	210.0	212.0	0.02	-			
															63297	212.0	214.0	0.02	-			
															63298	214.0	216.0	0.04	-			
															63299	216.0	218.0	0.03	-			
															63300	218.0	220.0	0.03	-			
															63301	220.0	222.0	0.03	-		only Cu assays	
															63302	222.0	224.0	0.05	-			
															63303	224.0	226.0	0.04	-			
															63304	226.0	228.0	0.05	-			
76.3	149.3	Bio-Hbl-Qtz Diorite-Monzodiorite (Guichon variety). Variable alteration leads to a light grey to mottled dark grey-pink to bleached white/peach colouration. Equigranular and weakly to non-magnetic (where alteration is most intense). Feldspars weakly to moderately altered to ser ± alb ± ca, mafics weakly to strongly altered to ser + ca ± mag (oxidized to hem) ± lim ± clay ± ep. Overall, moderately fractured, locally well fractured/broken where intensely altered/gouged. Fracture sets 8-12 per metre at 40-50°, sub-normal ± sub-parallel to C.A. contain ser + ca ± clay ± lim ± shiny brick-red hem. Sparse distribution of ep + qtz ± ca ± stringy hem 1 mm-3 cm wide with ser ± lim ± hem envelopes and commonly albitized/pinkish selvages to 2 cm wide, 50-60° and subparallel to C.A. Upper contact at 65° C.A. is weakly crackle brecciated & moderately limonitic to 77.0 m. No evident mineralization. Note: alteration intensifies towards/adjacent to lower contact with dull red-brown Bio-Hbl-Fsp porphyry.	-1	-1	-1	-1	2	3	2	-1	2	9	-1		63305	228.0	230.0	0.04	-			
															63306	230.0	232.0	0.04	-			
															63307	232.0	234.0	0.03	-			
															63308	234.0	236.0	0.02	-			
															63309	236.0	238.0	0.02	-			
															63310	238.0	240.0	0.02	-			
															63311	240.0	242.0	0.07	-			
															63312	242.0	244.0	0.05	-			
															63313	244.0	246.0	0.05	-			
															63314	246.0	248.0	0.01	-			
															63315	248.0	250.0	0.03	-			
															63316	250.0	252.0	0.02	-			
															63317	252.0	254.0	<.01	-			
															63318	254.0	256.0	0.04	-			
															63319	256.0	258.0	0.06	-			
															63320	258.0	260.0	0.75	-			
															63321	260.0	262.0	0.23	-			
															63322	262.0	264.0	0.10	-			
															63323	264.0	266.0	0.03	-			
		77.0-77.5 m: Faulted Guichon; clay + ser ± ca ± hem crumbled gouge with grey-brown clay + hem slips at 65 and 30° C.A.													63324	266.0	268.0	0.01	-			
															63325	268.0	270.0	0.01	-			
															63326	270.0	272.0	0.02	-			
		83.5-85.0 m: Dark grey Bio (?) Hbl-Fsp porphyritic dyke. Non-magnetic and non-mineralized. Feldspars weak to moderately altered to ser ± ca. Mafics moderately to strongly altered to ser + ca ± lim ± mag (spec?) oxidized to hem. No veinlets.													63327	272.0	274.0	0.04	-			
															63328	274.0	276.0	0.02	-			
															63329	276.0	278.0	0.02	-			
															63330	278.0	280.0	0.02	-			
															63331	280.0	282.0	0.02	-			
		94.5-98.0 m: Zone of strong to intense pervasive													63332	282.0	284.0	0.02	-			

Depth (m)		Description	%Py	%Cpy	%Bor/Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	%Mo	Au (g/t)	Ag (g/t)
From	To														From	To					
		<i>cont'd interval 94.5-98.0 m</i>												63333	284.0	286.0	0.02	-			
		alteration (alb + ep + ser ± ca), peach-light green												63334	286.0	288.0	0.02	-			
		Locally well broken and crumbled with hematitic clay + ser + ca gouge between competent sections. Thick, waxy hematitic slips at 50° C.A. High concentration of ep + qtz ± ca ± hem veins and silicic associated flooding (?)												63335	288.0	290.0	0.02	-			
														63336	290.0	292.0	0.02	-			
														63337	292.0	294.0	0.02	-			
														63338	294.0	296.0	0.01	-	only Cu assays		
														63339	296.0	298.0	0.02	-			
		106.0-107.4 m: Strongly limonitic Guichon. Bnght yellow-brown. Crumbled and sandy throughout (faulted?), no slips recognizable												63340	298.0	300.0	0.01	-			
														63341	300.0	301.7	0.01	-			
		109.1-118.6 m: Bio-Hbl-Fsp Porphyry Dyke. Dull red-brown to grey. Very weakly magnetic. Feldspars weakly to moderately altered to ser + ca ± alb, mafics moderately altered to ser + ca ± spec (oxidized to hem). Fracture sets at 20, 50° and subparallel C.A. clay + ser + ca ± strong lim/hem coating. Trace mal on local subparallel fractures. Local ca ± lim ± ser ± spec gash veins (< 2 cm wide) as subparallel and 45° C.A.												end of assay information							
		130.5-149.5 m: General alteration intensification of Guichon unit. Mottled dark grey-pink (ser ± alb ± ca ± hem) to a deep green (feldspar intensely sericized, mafics altered to spec (oxidized to hem). Local clay + ser + ca ± hem cemented fault breccia (moderately to well healed) and gouge at sub-normal and 60° C.A. with abundant spec (oxidized to hem). Ser + clay ± hem slips at 60° C.A.																			
		Local weak crackle brecciation (i.e. ser + qtz ± ca ± chl (± tour?) black matrix between weakly separated Guichon wallrock – limited comminuted wallrock).																			
		Trace mal + cpy + lim + hem + spec in ser ± ca black matrix at 144.8 m.																			
149.5	157.9	Pale brown to grey-green Bio-Hbl-Fsp porphyry dyke. Aphanitic groundmass of fsp and qtz. Non to weakly magnetic. No pervasive cpy mineralization of mafics. Generally moderately to strongly altered, fsp altered to ser ± ca (often hem stained), mafics altered to ser + ca ± mag ± spec (oxidized to hem) ± NCu (trace flecks in random/select mafics). Fracture sets at 20-30, 60-70° C.A., 4-6 per metre contain ser + ca ± clay ± lim/ hem ± mal. Ca + qtz + ser ± lim veins 2 mm-1 cm wide contain local coarse cpy blebs (to 5 mm diam.) ± CC ±	-1	0.1	0.01	-1	3	2	2	-1	2	30	2								
		<i>cont'd interval 149.5-157.9 m</i>																			
		hem nnds at 25° C.A. Both upper contact (at 60° C.A.) and lower contact (at 30° C.A.) are chilled (silicic, dark grey, fine grained).																			









Diamond Drill Log														Assays				
Project:		Getty South Project		Northing: 5600400		1 = absent		Core: NQ2		Azm		Dip						
Hole #:		GS96-13		Easting: 642405		2 = weak				090		-45						
Date:		06-Sep-96		Elevation: 1637 m		3 = moderate		4 = strong										
Logged by:		R. Whiteaker				5 = intense												
Depth (m)		Description	%Py	%Cpy	%Ba/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
0	15.2	casing/overburden												63342	15.2	16.1	0.01	-
15.2	25.7	Bio-Hbl-Qtz Diorite (Guichon variety). Zone of intrusive crackle veins/brecciation (black tour + chl + qtz + ser matrix) -- weakly magnetic and weakly equigranular. Well broken/fractured, locally fault brecciated with thick clay ± ca ± ser ± hem ± lim gouge. Alteration is strong (feldspars altered to ser ± ca ± clay ± alb [vein envelopes], mafics altered to chl + ser + ca ± spec ± ep). Abundant ser + qtz + tour (perfect radiating crystals) ± ca ± spec ± chl crackle veins, ~ 1-6 mm wide at subparallel and 30-40° C.A. 10-20 per metre, a second set of qtz + ep ± ser ± ca ± tour (introduced post-vein?) veins 0.5-1 cm wide at 50° C.A. are commonly cross cut by < 1-3 mm wide, subparallel to C.A. tour + qtz + ca veinlets. Fracture sets at approximately 20 & 45° C.A. 10-15 per metre contain chl + ser + clay ± ca ± lim fill. Local short sections (<20 cm) of intrusive brecciated Guichon: strongly altered (ser + chl + ca ± spec ± alb) subangular fragments averaging 1-4 cm in diam with dark green/black ser + qtz + chl ± spec ± tour. 20.0-23.0 m: Fault brecciated/gouged Guichon. Local subparallel shears and slips (clay + ser + ca ± ser ± hem ± lim). sheared gouge contains milled/crushed Guichon (sub-mm to 2 mm in diam). 24.7-25.7 m: Strongly broken intrusive breccia with subangular fragments of both Guichon (70%) and Feldspar Porphyry (30%). Note: many pieces of core are rounded off from drilling and 1.5 m of sand noted in box at 25.3 m.	-1	-1	-1	-1	2	3	2	3	3	0	-1	63343	16.1	18.0	0.01	-
														63344	18.0	20.0	0.01	-
														63345	20.0	22.2	0.02	-
														63346	22.2	25.3	0.02	-
														63347	25.3	29.9	0.01	-
														63348	29.9	32.9	0.02	-
														63349	32.9	36.0	0.01	-
														63350	36.0	38.0	0.01	-
														68601	38.0	40.0	0.02	-
														68602	40.0	42.0	0.01	-
														68603	42.0	44.0	0.01	-
														68604	44.0	46.0	0.01	-
														68605	46.0	48.0	0.01	-
														68606	48.0	50.0	0.01	-
														68607	50.0	52.0	0.01	-
														68608	52.0	54.0	0.01	-
														68609	54.0	56.0	0.01	-
														68610	56.0	58.0	0.02	-
														68611	58.0	60.0	0.01	-
														68612*	60.0	62.0	0.19*	-
25.7	70.5	Bio-Hbl Feldspar Porphyry Dyke/stock. Pale grey/brown to bright bleached orange (due to preferential/local hematization). Fsp phenocrysts are cream-white to pale green (ep) and display a weak trachytic texture. Non-magnetic. Overall alteration is moderate to strong with mafics altered to chl + ser + ca ± ep ± spec (oxidized to hem) and feldspars altered to ser ± ca ± ep ± clay. fracturing/sets at 30-45, 55-60° and subparallel C.A., 8-12 per metre contain chl ± ser ± clay ± lim ± ep coatings. Local (5-10 per metre) tour + qtz ± ca ± ser ± spec veinlets 1-2 mm wide at 30° C.A. (lesser at 45-55° C.A.) commonly cross cut ep + qtz ± ca ± ser ± tour (as fine radiating clusters) 1-5 mm wide at 45-55° C.A. Note: tour in veinlets as excellent radiating crystals/blades. 25.7-32.4 m: Porphyry unit is strongly altered to a ghosted/mottled deep red-brown colour (hematization of feldspars/groundmass) and texture (fsp altered to ser ± hem ± ca ± clay, mafics altered to ser + ca ± chl ± spec ± clay ± ep). Strongly broken/crushed rock. Fractures at 40-45° & subparallel C.A. contain spec and yellow-brown lim coatings. Qtz + spec + ca ± ser ± spec ± tour veinlets (subparallel and 30-40° C.A., < 2 mm wide, 2-3 per metre) are locally drusy and contain well formed qtz crystals (sub-mm in length) and trace lim ± mal.	-1	<01	-1	-1	1	2	3	3	2	5	1	68613	62.0	64.0	0.01	-
														68614	64.0	66.0	0.01	-
														68615	66.0	68.0	0.01	-
														68616	68.0	70.0	0.01	-
														68617	70.0	72.0	0.01	-
														68618	72.0	74.0	0.03	-
														68619	74.0	76.0	0.02	-
														68620	76.0	78.0	0.02	-
														68621	78.0	80.0	0.01	-
														68622	80.0	82.0	0.04	-
														68623	82.0	84.0	0.04	-
														68624	84.0	86.0	0.04	-
														68625	86.0	88.0	0.01	-
														68626	88.0	90.0	0.01	-
														68627	90.0	92.0	0.01	-
														68628	92.0	94.0	0.01	-
														68629	94.0	96.0	0.03	-

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<b>34.2-34.4 m:</b> Light green clay + ser + ca ± lim fault gouge (possibly shear). Slip plane at 45° C.A.												<b>68630</b>	96.0	98.0	<b>0.09</b>	-
														<b>68631</b>	98.0	100.0	<b>0.05</b>	-
		<b>34.4-37.6 m:</b> Prominent set of subparallel to 25° C.A. fracture sets (8-10 per metre) containing rusty yellow-brown lim ± hem coatings. Ca + chl + qtz + tour ± lim veins 1-3 mm wide at 20-30° C.A. occur locally.												<b>68632</b>	100.0	102.0	<b>0.21</b>	-
														<b>68633</b>	102.0	104.0	<b>0.20</b>	-
														<b>68634</b>	104.0	106.0	<b>0.01</b>	-
		<b>37.6-39.5 m:</b> Block of stoped (?) Guichon Qtz diorite. Strongly altered, weakly fault brecciated with local black matrix (qtz + chl + tour + spec ± ser) crackle veinlets.												<b>68635</b>	106.0	108.0	<b>0.05</b>	-
		<i>Note:</i> lim-rich box-work fill occurs locally within Guichon near short sections of concentrated spec + qtz ± tour ± chl ± ca veinlets. At 38.6-39.0 m: Fault gouge/shear (?). Intense ep-rich clay + ser + ca ± hem ± lim ± spec gouge. Slips planes of clay + ser ± hem at 45-55° C.A.												<b>68636</b>	108.0	110.0	<b>0.02</b>	-
														<b>68637</b>	110.0	112.0	<b>0.01</b>	-
														<b>68638</b>	112.0	114.0	<b>0.01</b>	-
														<b>68639</b>	114.0	116.0	<b>0.01</b>	-
														<b>68640</b>	116.0	118.0	<b>0.01</b>	-
		<b>46.3 m:</b> Fault gouge/sheared Feldspar porphyry. Light green/grey clay + ser + ca ± ep ± lim ± hem ± spec gouge with mixed subangular crushed wallrock. Slips at ~30° C.A.												<b>68641</b>	118.0	120.0	<b>0.02</b>	-
														<b>68642</b>	120.0	122.0	<b>0.02</b>	-
														<b>68643</b>	122.0	124.0	<b>0.06</b>	-
		<b>56.5-59.0 m:</b> Block of strongly altered (ser + chl + ca + spec (oxidized to hem) ± alb Guichon Qtz Diorite with 50 cm of chilled (siliceous, dark blue/grey, well fractured) fsp porphyry at upper/lower contacts. Subparallel and 45-60° C.A. fracture sets are strongly limonitic/hematitic with abundant sub-mm, soft black flecks (commonly dendritic) -- possibly Mn-oxide or CC?. Subparallel to 30° C.A. spec + qtz + ser and qtz + tour + ser ± ca ± spec veinlets 1-3 mm wide locally have pink albitized selvages to 1 cm wide. Clay + lim + hem slips at 45° C.A.												<b>68644</b>	124.0	126.0	<b>0.02</b>	-
														<b>68645</b>	126.0	128.0	<b>0.02</b>	-
														<b>68646</b>	128.0	130.0	<b>0.07</b>	-
														<b>68647</b>	130.0	132.0	<b>0.07</b>	-
														<b>68648</b>	132.0	134.0	<b>0.03</b>	-
														<b>68649</b>	134.0	136.0	<b>0.02</b>	-
														<b>68650</b>	136.0	138.0	<b>0.01</b>	-
		<b>60.3-64.3 m:</b> Trace mal in local limonitic qtz + tour + ca + chl ± ser veinlets (commonly vuggy) 1-4 mm wide at 30-40° C.A. and on intensely limonitic (bright yellow-rust brown) fracture sets which have spotted black-sooty coatings -- Mn-oxide or CC?.												<b>68651</b>	138.0	140.0	<b>0.02</b>	-
														68652	140.0	142.0	0.04	-
														68653	142.0	144.0	0.02	-
														68654	144.0	146.0	0.02	-
		<i>Note:</i> at 61.6 m: strong mal (bright green radiating crystals) and lim fracture coating and open space fill with trace cpy blebs segmented and enclosed by lim/mal.												68655	146.0	148.0	0.02	-
														68656	148.0	150.0	0.12	-
		<b>64.5-69.5 m:</b> Bio-Hbl-Fsp porphyry contains much less hematitic staining giving it a grey-brown colour with white to pale green (ser + ca) feldspars. Slight decrease in amount of tour + qtz ± ca ± ser veinlets. Moderately fractured (10-20 per metre) to well broken with trace lim ± hem on fracture planes.												68657	150.0	152.0	0.02	-
														68658	152.0	154.0	0.04	-
														68659	154.0	156.0	0.03	-
														68660	156.0	158.0	0.03	-
		<b>69.5-70.5 m:</b> Chilled Feldspar Porphyry. Light grey-blue. Silicified, fine grained with sparse mafic phenocrysts strongly altered to spec (oxidized to hem). Local veinlets (< 2 mm wide) and fracture sets containing tour + spec + qtz ± ca ± lim at subparallel and 40-50° C.A.												68661	158.0	160.0	0.02	-
														68662	160.0	162.0	0.04	-
														68663	162.0	164.0	0.03	-
														68664	164.0	166.0	0.02	-
														68665	166.0	168.0	0.03	-
														68666	168.0	170.0	0.16	-
														68667	170.0	172.0	0.07	-
														68668	172.0	174.0	0.05	-
														68669	174.0	176.0	0.03	-
														68670	176.0	178.0	0.02	-
														68671	178.0	180.0	0.03	-
														68672	180.0	182.0	0.01	-
														68673	182.0	184.0	0.02	-
														68674	184.0	186.0	0.01	-

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	
From	To														From	To			
70.5	121.5	Bio-Hbl-Qtz Diorite/Monzodiorite (Guichon variety) Weakly equigranular, moderately magnetic. Speckled black, pink, white and pale green. Alteration is generally weak to moderate (feldspars altered to ser ± ca ± clay, mafics altered to ser + ca ± chl ± spec/hem ± ep) with locally strong sericitization/chloritization ± lim near veining/fracturing/brecciation. Ragged bronze coloured mica is commonly associated with hbl -- possibly secondary. Fracture sets 5-10 per metre (locally greater) at 50-65° and subparallel to 20° C.A. contain coatings of chl + ca + ser ± clay ± lim ± spec ± NCu (locally strong at sub-intervals mentioned below). Local clay + ser + ca ± chl ± hem slips at 55-60, 40° and subparallel to C.A. Sparse to locally intense networks of ca + qtz + tour ± ser ± chl ± spec ± lim veins/veinlets, 3-15 per metre (greatest in zones of intrusive breccia), subparallel and 30-40° C.A., < 1 mm-1cm wide, commonly drusy with well formed qtz crystals. Local zones of fault breccia, gouge, intrusive breccia/crackle veining (< 4 m in core length). Upper contact limonitic clay + ser + chl + ca gouge/slips at 60° C.A.	-1	0.02	-1	-1	1	2	2	2	2	14	1	68675	186.0	188.0	0.03	-	
														68676	188.0	190.0	0.02	-	
														68677	190.0	192.0	0.07	-	
														68678	192.0	194.0	0.01	-	
														68679	194.0	196.0	0.21	-	
														68680	196.0	198.0	0.14	-	
														68681	198.0	200.0	0.02	-	
														68682	200.0	202.0	0.02	-	
														68683	202.0	204.0	0.02	-	
														68684	204.0	206.0	0.02	-	
														68685	206.0	208.0	0.02	-	
														68686	208.0	210.0	0.02	-	
														68687	210.0	212.0	0.02	-	
														68688	212.0	214.0	0.01	-	
														68689	214.0	216.0	0.01	-	
														68690	216.0	218.0	0.01	-	
														68691	218.0	220.0	0.01	-	
														68692	220.0	222.0	0.02	-	
														68693	222.0	224.0	0.01	-	
														68694	224.0	226.0	0.01	-	
														68695	226.0	228.0	0.01	-	
														68696	228.0	230.0	0.01	-	
														68697	230.0	232.0	0.01	-	
														68698	232.0	234.0	0.01	-	
														68699	234.0	236.0	0.01	-	
														68700	236.0	238.0	0.01	-	
														68701	238.0	240.0	0.01	-	
														68702	240.0	242.0	0.01	-	
														68703	242.0	244.0	0.01	-	
														68704	244.0	246.0	0.01	-	
														68705	246.0	248.0	0.01	-	
														68706	248.0	250.0	0.01	-	
														68707	250.0	252.0	0.01	-	
														68708	252.0	254.0	0.01	-	
														68709	254.0	256.0	0.01	-	
														68710	256.0	257.4	0.01	-	
														<b>sludge</b>	<b>from (m)</b>	<b>to (m)</b>	<b>Cu %</b>		
															29.9	32.9	0.04		
															32.9	36.0	0.06		
														<b>*metallic screen values</b>			<b>all values in %</b>		
														<b>tag</b>	<b>+140 wt</b>	<b>-140 wt</b>	<b>+140 Cu</b>	<b>-140 Cu</b>	<b>Net Cu</b>
														68612	4.714	282.50	0.05	0.21	0.21
														68613	7.099	293.53	0.02	0.02	0.02
														68614	3.604	263.61	0.01	0.01	0.01
														68615	2.461	230.57	0.01	0.01	0.01

Depth (m)	Description	%Py	%Cpy	%Bo/Co	%Moly	Dc	Ser	Ca	Cl	Clay	RSD	Ox	Sample	Interval		%Cu	%Cu	Net Cu						
													Number	From	To	Total	Non Sulf							
From	To												tag	+140 wt	-140 wt	+140 Cu	-140 Cu							
121.5	183.0	0.01	0.05	-1	-1	2	4	3	3	4	3	1	95.5-111.8 m: Zone of increased NCU on fractures (subparallel, 45-55° C.A.) in ruggy qtz + ca + lim + spec veins/open space fill (5 mm-1.5 cm wide, subparallel and 30° C.A.) and in gouge/slips (clay + ser + ca + hem/lim + spec at 45-55° C.A.) Local 20-40 cm wide zones of weak to strong crackle/intrusion breccia with trace cpy blebs (<2 mm in diam) NCU flecks and intense lim/cup (?) within black matrix between strongly altered, angular clasts of Guichon (5 mm-1 cm in diam average). At 96.7 m, strong lim/hem and lesser mal and cup (bright red dusty coating) within fractured qtz + ca + ser + chl vein 25° C.A. 98.9-99.7 m: Fault gouge (clay + ca + ser + hem + lim) with sub-mm to 2 mm in diam crushed Guichon throughout, 25 and 45-55° C.A. slips and 10-15 cm wide selvages of dark green (ser + chl) and mottled orange (hematized) Guichon. At 102.8 m, 1 cm wide qtz + tour + chl + ser + ep + cpy (fine beads) vein at 60° C.A. with a series 60° C.A. clay + ser + hem + NCU slips of 20 cm up section. 106.0-106.1 m: waxy clay + ser + lim + ca + hem fault gouge with milled/crushed Guichon (<2 mm in diam) throughout, slips at 45 & 60° C.A. 111.5-111.8 m: Intrusion/crackle breccia with ~ 10% Fsp porphyry clasts and ~ 90% Guichon (both subangular, strongly altered (ser + chl + ca + hem) average diam of ~ 3 mm-1.5 cm 111.8-121.5 m: Moderately fractured Guichon (15-20 per metre). Locally crumbled/crushed. Rare subparallel qtz + chl + ser + tour + spec + ca veinlets < 2 mm wide (crackle veins). No fault gouge. Note: local fracture planes (40-50° C.A.) contain hard, clear platy mineral coating of possible gypsum/anhydrite. Overall alteration is weak to moderate. Last 50 cm of sub-interval is weakly brecciated -- intense network of sub-mm ca + lim veinlets and clay + ser + ca + lim fracture fill/slips						68616	9.445	265.35	0.01	0.06	0.06
													68617	8.592	279.76	0.01	0.02	0.02						
													68618	12.101	246.31	0.03	0.04	0.04						
													68619	10.251	268.31	0.02	0.02	0.02						
													68620	13.016	276.45	0.01	0.02	0.02						
													68621	14.460	282.69	0.01	0.02	0.02						
													68622	15.841	238.57	0.03	0.06	0.06						
													68623	16.486	240.50	0.13	0.06	0.07						
													68624	18.541	226.61	0.06	0.05	0.05						
													68625	3.368	255.42	0.05	0.02	0.02						
													68626	2.382	273.97	0.03	0.02	0.02						
													68627	1.159	242.36	0.07	0.02	0.02						
													68628	1.846	259.90	0.03	0.02	0.02						
													68629	2.847	269.68	0.13	0.03	0.02						
													68630	1.731	255.88	2.87	0.10	0.12						
													68631	3.886	262.50	0.43	0.06	0.07						
													68632	2.424	250.09	2.67	0.24	0.26						
													68633	2.199	241.44	7.12	0.15	0.21						
													68634	3.540	254.36	0.02	0.02	0.02						
													68635	1.886	254.78	0.54	0.06	0.06						
													68636	2.243	226.12	0.05	0.02	0.02						
													68637	3.365	257.18	0.02	0.01	0.01						
													68638	2.228	238.75	0.01	0.01	0.01						
													68639	3.056	254.41	0.02	0.01	0.01						
													68640	3.082	256.35	0.02	0.02	0.02						
													68641	2.040	261.93	0.10	0.02	0.02						
													68642	3.842	253.92	0.06	0.02	0.02						
													68643	7.990	255.21	0.10	0.09	0.09						
													68644	4.868	254.61	0.03	0.02	0.02						
													68645	8.057	253.07	0.02	0.02	0.02						
													68646	4.968	258.85	0.08	0.08	0.08						
													68647	3.534	259.21	0.10	0.09	0.09						
68648	4.879	253.68	0.05	0.04	0.04																			
68649	4.188	260.54	0.04	0.03	0.03																			
68650	3.525	254.64	0.02	0.01	0.01																			
68651	2.542	257.58	0.03	0.02	0.02																			
end of assay information																								
121.5-129.0 m: Guichon unit only -- strongly fault brecciated, thick, light green/grey clay + ser + ca + lim gouge with crushed/milled Guichon fragments (<1 mm-3 cm in subrounded diam). Predominant slip/shear planes at 40° and subparallel to C.A. Note: Locally, Guichon fragments are elongate and oriented at ~ 35-40° C.A. 128.3-128.7 m: Tough, thick grey-brown gouge (clay + ca + ser + lim) -- very difficult to bend or break apart.																								

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<p><b>129.0-136.5 m:</b> Intrusion Breccia (Trojan) and Guichon -- fault brecciated (poorly healed), thick zones of clay + ser + ca ± spec ± chl ± qtz gouge. Guichon (brecciated and non-brecciated) is strongly to intensely sericitized to light green. Rare NCu flecks and mal ± cpy-nch clasts as well as locally intense lim (possibly following a shear/slip plane) mixed throughout gouge.</p> <p><b>136.5-139.0 m:</b> moderately fractured (4-6 per metre at 40 &amp; 60° C.A.) and altered (ser + chl + ca ± clay ± ep ± spec) Guichon. Local clay + ser + ca ± lim slips (at 60° C.A.) and qtz + chl ± ser ± spec ± ca ± tour veinlets, subparallel to 40° C.A. Non-<i>cont'd sub-interval 136.5-139.0 m</i></p> <p>brecciated/gouge. Trace NCu on fractures as sub-mm flecks.</p> <p><b>139.0-156.5 m:</b> Intrusion Breccia (Trojan). Clast supported primarily. Approximately 2 mm-5 cm in diam., angular, strongly to intensely altered (ser + chl + ca ± spec ± lim ± clay) Guichon clasts within black qtz + chl + ser ± tour ± spec ± ca matrix (with local vuggy ca + qtz ± ser ± spec ± lim open space fill/veining). Coarse cpy blebs up to 1 cm in diam occupy ca + qtz ± lim open space fill only rarely (less than once per 3 m approximately). Angular, elongate Guichon fragments in matrix are weakly aligned at ~ 35-45° C.A. Fault brecciation and gouge (clay + ser + ca ± lim ± spec ± chl ± cpy [trace crushed]) prevalent throughout (&gt;80% of sub-interval) as well as local shearing (slips/shear planes at 40-50° and subparallel to C.A.)</p> <p><b>154.0-156.5 m:</b> Strongly sheared/foliated fault brecciated Intrusion Breccia. Pervasive alignment of clasts (elongate), slips (clay + ser + chl), matrix and shear planes ~ 35-40 ± 20° C.A.; local cpy as coarse blebs in sheared ca ± qtz ± ser ± chl veins and crushed/disseminated throughout gouge. At 156.0 m: subparallel ser + clay + chl ± ca slip/shear plane has a 2 cm wide inner selvage of intensely sericitized gel-green feldspars and a 10-15 cm wide outer selvage of strong hematization/sericitized (fsp stained with hem, altered to ± ser).</p> <p><b>161.5 m:</b> Limonitic clay + ser + chl + ca ± hem fault gouge with slip/fracture plane (chl + ser + clay) at 35° C.A. containing bright yellow lim, trace NCu flecks, mal and cup (? -- bright red encrustation).</p> <p><b>163.5 m:</b> rounded, partially digested xenolith/stoped clast of Bethlehem phase: 4 cm in diam, light grey with hem rim. Non-mineralized.</p> <p><b>164.0-168.0 m:</b> Very weakly brecciated Guichon (moderately altered to ser + chl + ca ± clay ± ep ± spec ± hem of feldspars -- pale pink/cream). Rock appears "twisted" and foliated, mafics are aligned/"stretched" at 30-40° C.A. Subnormal qtz + chl + tour ± spec ± ca ± cpy veinlets, 1-2 mm wide are cross-cut and offset by 1-4 mm wide qtz + ser + ep ± ca ± py&gt;cpy veinlets at 30° C.A. (Note: local trace disseminated cpy replacing mafics in selvages to both styles of veins up to 3 cm into Guichon wallrock. Subparallel chl + ser + clay ± ca ± hem ± spec slips, 2-3 per metre.</p> <p><b>168.0-175.5 m:</b> Sheared fault breccia. Strong clay + ser + chl ± ca rich gouge. Shear planes/slips at 35-40, 60° and subparallel to C.A. Brecciated and sheared (crushed/milled) fragments of Guichon and Trojan Breccia (which locally contain sheared/foliated qtz + ca ± spec ± chl ± tour ± ser ± cpy (3-8 mm wide blebs) open space fill/veins.</p> <p><b>174.0 m:</b> 15 cm wide grey-green clay + ser + ca ± chl fault gouge (&lt;10% crushed/milled sub-mm clasts) with slips at ~ 35° C.A.</p>																
<b>cont'd core logging</b>																		

Depth (m)		Description	%Py	%Cpy	%Bof Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
		<b>cont'd sub-interval 174.0 m</b>													<b>cont'd core logging</b>			
		174.2-174.5 m: Poorly healed (clay + ser + ca ± chl) fault breccia/gouge sheared 35° and subparallel to C.A. Heterolithic -- subangular to angular clasts (~ 1 mm-1 cm in diam) of Guichon, felsic granodiorite and green fine grained volc (?) -- alteration is weak to strong in all clasts. Crushed py ± cpy (< 2 mm in diam) mixed sparsely in gouge/matrix.																
		175.5-182.2 m: Weakly brecciated Guichon. Pale pink-cream. "Twisted"/foliated appearance with rare cpy mafic replacement in selvages of 1-2 mm wide ca + ser ± qtz ± chl ± ep veinlets ~ 35° C.A. Local stoped/xenolithic partially digested fragments of Bethlehem phase (dark grey-green, fine grained mafics and qtz-fsp composition -- moderately altered to chl + ser + ca, non-mineralized).																
		182.2-183.0 m: Strongly sheared Guichon with dark blue-green gouge/cement (clay + chl + ser ± ca ± tour (?)). Shearing/slips at ~ 35° C.A. Cpy disseminated (1-3 mm in diam) in gouge and within sheared qtz + ca + chl + ser ± tour (?) veins ~ 3-6 mm wide.																
183.0	190.0	Bio-Hbl Fsp Porphyry dyke. Dark grey-brown. Weakly silicified (locally strong). Very weakly magnetic. Moderately altered (fsp altered to ca + ser + clay, mafics altered to chl + ser + ca ± spec (oxidized to red hem). Qtz + ca + chl ± tour ± spec ± cpy (fine beads with metallic silver-grey enclosures -- tarnish of Mo?) ± lim veinlets 35-45 ± 25° C.A. < 1-2 mm wide occur locally and are comonly cross-cut and offset by sub-mm and subparallel ca ± ser veinlets/fracture fill. Locally fault gouged with clay + ser + ca slips ~ 35° C.A. Fracture sets 45-55° and subparallel to C.A., 10-20 per metre contain chl + clay ± ser ± ca ± hem/lim ± NCu (rare sub-mm flecks) -- overall, well broken with only local/rare slips and gouge. Local Bethlehem stopes/xenoliths (well digested, silicified, non mineralized).	-1	0.05	-1	-1	3	2	2	2	1	5	-1					
190.0	230.0	Bio-Hbl-Qtz Diorite/Monzodiorite (Guichon variety). Weakly equigranular, weakly to mod magnetic. Overall pale grey to cream-peach w/ black & orange (mafics/K-spar) speckling. Moderately fractured (8-12 per metre at 40-50, 30° and subparallel C.A.) with chl + clay + ser ± ca ± lim coatings. Overall alteration is weak to moderate with feldspars altered to clay ± ser ± ca ± alb, mafics altered to chl + ser + ca ± ep ± spec). Stronger fracturing, alteration and pervasive hematization (overall orange-pink) down section. Local veining: subparallel, sub-mm qtz + ca + chl + tour (?) ± cpy ± py (fine beads) veinlets; sub-mm qtz + ep ± ca ± cpy veinlets at ~ 60° C.A. with select ep + cpy mafics replacement in albited selvages (to 1 cm wide). Ca ± ser veins (locally vuggy) 1-5 mm wide ~ 35-40° C.A. cross cut all other veins (local elongate splinters of ser envelope within ca veins -- possibly second pulse?) Note: mafic volume slightly greater than in typical Guichon unit with bio and hbl commonly occurring as tight clusters and locally as rounded clots 3-8 mm in diam.	0.01	0.01	-1	-1	1	3	2	3	2	10	-1					
		195.8-196.6 m: Concentration of subparallel and 40-45° C.A. Ca + qtz + chl + ser ± cpy veins 2 mm-1 cm wide. Cpy occurs as coarse angular blebs up to 1.5 cm X 0.5 cm in dimension. Guichon wallrock is strongly altered to ser + chl + ca + hem ± clay ± cpy (mafic replacement) -- pale green-orange with mottled-ghosted texture. Clay + ser + chl ± ca slips at 30-40° C.A.																
		199.7-200.0 m: Bethlehem phase stope/xenolith (?). Light grey, fine grained qtz																

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Moly	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	
From	To														From	To			
		<p><i>cont'd sub-interval 199.7-200.0 m</i></p> <p>+ hbl + fsp with medium grained bio clots Moderately magnetic, weakly altered (fsp altered to ser ± ca ± clay, mafics altered to chl + ser + ca ± mag (possible inclusions?) ± cpy (rare). Fract sets at 35° C.A. contain clay + ca ± chl ± lim ± gypsum (?) &amp; slips at 45° C.A. contain chl + clay + ser ± ca Local sub-mm ca + ser ± lim veinlets at 35° C.A.</p> <p><b>210.0-226.5 m:</b> Increased hematization of Guichon (orange-pale peach), stronger fracturing (15-25 per metre) and frequent clay + ser + chl ± ca ± hem fault gouge (&lt; 1.0 cm in width) and slips at 40-45, 60-65° ± subparallel to C.A. <b>Weakly</b> fault brecciated throughout with local intervals (&lt; 20 cm in width) of strong fault brecciation/shearing (shear planes ~ 50-60° C.A.), poorly healed with clay + ser + chl + ca ± hem gouge/cement. Note: trace NCu on local fracture planes.</p> <p><b>226.5-230.0 m:</b> Intensely altered Guichon (feldspars altered to ser ± clay ± ca, mafics altered to ser + ca + clay ± chl ± hem) to a deep gel-green. Bio commonly completely altered to clay ± hem ± py and appears as pink-white flecks (Note: bronze coloured mica occupies bio locally – possibly secondary product).</p> <p><b>228.1-228.8 m:</b> Sheared (~30-40° C.A.) fault breccia with clay + ser + ca + chl ± lim gouge/slips. Includes sheared and unmineralized ca + qtz ± ser interclast breccia fill/veins (1-3 cm wide at ~50-60° C.A.)</p> <p><b>229.5 m:</b> 6 mm in diam limonitic boxwork cavity with a 3 cm rusty-brown lim halo; weak to strong lim stain running up section 25 cm parallel to C.A.</p>																	
230.0	257.4	<p>(Hbl)-Bio-Feldspar Porphyry Dyke. Reddish-grey with pink-cream feldspars and black/dark-green mafics. Generally non-magnetic (except mafics which are strongly magnetic.) Reddish colour due to strong pervasive hematization. Overall alteration is strong (feldspars altered to ca + clay ± hem ± ser, mafics altered to chl + ca + ser ± spec/hem). Mineralization is absent. Fracture sets 10-15 per metre at 45-60° and ~20° C.A. with clay + ca ± lim ± ser coating/fill. Local ca ± lim/hem veinlets ~45-55° C.A., approximately 1-3 mm wide. Clay + ca ± ser slips at ~ 50° C.A. occur locally.</p> <p><b>230.0-236.2 m:</b> Intensely altered (Hbl)-Bio-Fsp porphyry (ser + ca + chl + clay + spec – dark grey-green) with subangular and partially digested autoliths/blocks (~4-40 cm wide) of strongly altered Guichon (ser + chl + ca ± qtz ± spec ± clay). Local irregular patches of strongly lim stained feldspars. Moderate lim ± hem on fractures (40-50° C.A.). At 232.4 m: fault gouge/shear at ~ 50° C.A. with strongly hematitic (purple-red) clay + ser + chl ± ca gouge. Local hem rich ser + ca veinlets 2-3 mm wide, ~ 50-60° C.A.</p> <p><b>247.3-255.0 m:</b> Bio-Hbl-Qtz Dionite/Monzodiorite (Guichon) displaying moderate to strong alteration (ser + chl + ca + qtz + clay ± spec ± ep) with locally intense ser + chl ± hematization ± alb ± lim staining in wallrock selvages of ca ± chl ± qtz veins (50-60 and 30-35° C.A., 2mm -1.5 cm wide). Local subparallel drusy gypsum (?) + ca ± ser fracture fill/veins &lt; 2 mm wide with 3 mm wide selvages of albitized feldspars. Locally fault gouged with clay + ser + ca ± hem ± chl gouge/slips at ~ 45° C.A.</p> <p><b>254.0-254.1 m:</b> fault breccia/gouge with clay + ser + ca ± chl cement between subrounded fragments of Guichon (5 mm-3 cm in diam) – slips of clay + ser ± hem ~ 60-70° C.A. Note: rare NCu flecks within mafics - cross cut by local sub-mm/</p>	-1	-1	-1	-1	1	2	3	2	2	27	-1						





**Diamond Drill Log**

Project: Globe-Getty Joint Project  
 Hole #: GL96-1  
 Date: 9-Oct-96  
 Logged by: R. Whiteaker

Northing: 5603080  
 Easting: 640445  
 Elevation: 1777 m

-1 = absent  
 1 = background/fresh  
 2 = weak  
 3 = moderate  
 4 = strong  
 5 = intense

Core: NQ2

	Azm	Dip
Collar	270	45

Depth (m)		Description	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays						
From	To													Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
0	3.0	Casing/overburden												68966	3.0	5.0	0.03	-	0.2	5
3.0	85.6	Light grey to very pale cream-pink Granodiorite (Bethlehem phase) Weakly magnetic, slightly porphyritic (plag-K-spar-qtz-bio-hbl in weak groundmass of smaller qtz-fsp-mafics phenocrysts) Overall, <10% mafics (Bio ± Hbl) -- weakly altered to ser-ca-mag ± chl. Feldspars weakly altered to clay-ser. Local weak lim-hem oxidation of mafics. Fracture sets ~ 30-50° C.A. (rare subparallel) -- overall poorly fractured (Note: 61% RQD) with chl-clay-ca + ser + hem fill/coating. Rare visible copper mineralization (possible Cc, rare NCu-mal). Local subparallel-25° C.A. clay-chl-crushed feldspar/mag -ca ± ser ± hem slips/shears. Upper 3 m well broken with lim/hem with local lim on fractures -- thick earthy-brown clay gouge at 5.6-6.0 m containing angular fragments of unaltered, broken (not milled) Bethlehem Granodiorite. Pale-pink feldspar porphyry dykelets (~ 45° C.A., 2 cm wide) at ~ 12.0 m. Pervasive weak to moderate well healed brecciation (tectonic) throughout. Rock appears "twisted"/foliated with cracks/seam (oriented approximately 20-40° C.A.) filled with light grey, fine grained feldspar-clay-qtz-ca ± ep ± hem/lim. Locally, Bethlehem unit is well brecciated with milled/rounded fragments of granodiorite <1 mm-3 cm in diam. set in light grey breccia fill of feldspar-clay-qtz ± ca ± lim (comminuted Bethlehem Granodiorite). Where Bethlehem fragments are elongate they are commonly oriented ~ 30-40° C.A. Local K-spar rich/mafic-poor stopes/differentiation products (?) throughout -- commonly with weak ep-clay-qtz alteration. Local strongly limonitic qtz-ep ± ser ± hydrothermal garnet? (rose-pink clots with ep) ± mag ± Cc (metallic grey black -- possibly hem) ± NCu (rare flecks) veinlets, 5 mm-1.5 cm wide, 50-60° C.A. (± 20-40° C.A. down section). Note: ep decreases down section.	-1	-1	-1	-1	1	2	2	2	3	61	1	68967	5.0	7.0	0.02	-	0.2	5
		<b>49.0-84.0 m:</b> General increase in abundance of red-brown (lim/hem oxidation) qtz-ca-Cc (?-- black grey soft patches throughout) ± mag ± ep veins/fracture-breccia fill ~ 20-30° C.A.; rare mal-az-NCu ~ 60-63.0 m in qtz-hem-ca veinlets												68968	7.0	9.0	0.03	-	0.2	5
		<b>73.0-75.0 m:</b> Bleach-white feldspar-qtz dominated Bethlehem phase (weakly pegmatitic) exhibiting excellent graphic-granophyric textures locally.												68969	9.0	11.0	0.02	-	0.2	5
		Weak shearing (weakly brecciated) ~ 30-40° C.A. towards end of interval, greater hem staining of feldspars (light pink).												68970	11.0	13.0	0.02	-	0.2	5
		<b>85.0-85.6 m:</b> Local grey fault gouge and shear/breccia fill (clay + ca + milled feldspar-qtz) with slips ~ 40° C.A. Lower contact with Tertiary Dacite is sharp/un-brecciated, un-gouged (unable to record C.A.).												68971	13.0	15.0	0.02	-	0.2	5
														68972	15.0	17.0	0.01	-	0.2	5
														68973	17.0	19.0	0.01	-	0.2	5
														68974	19.0	21.0	0.02	-	0.2	5
														68975	21.0	23.0	0.03	-	0.2	5
														68976	23.0	25.0	0.02	-	0.1	5
														68977	25.0	27.0	0.02	-	0.1	5
														68978	27.0	29.0	0.01	-	0.1	5
														68979	29.0	31.0	0.01	-	0.1	5
														68980	31.0	33.0	<.01	-	0.1	5
														68981	33.0	35.0	0.01	-	0.1	5
														68982	35.0	37.0	0.01	-	0.1	5
														68983	37.0	39.0	0.01	-	0.1	5
														68984	39.0	41.0	0.01	-	0.1	5
														68985	41.0	43.0	0.01	-	0.1	5
														68986	43.0	45.0	0.01	-	0.2	5
														68987	45.0	47.0	0.02	-	0.2	5
														68988	47.0	49.0	0.01	-	0.2	5
														68989	49.0	51.0	0.01	-	0.2	5
														68990	51.0	53.0	0.02	-	0.2	5
														68991	53.0	55.0	0.01	-	0.2	5
														68992	55.0	57.0	0.05	-	0.2	5
														68993	57.0	59.0	0.02	-	*only 8 samples	
														68994	59.0	61.0	0.07	-	0.1	5
														68995	61.0	63.0	0.06	-	0.1	5
														68996	63.0	65.0	<.01	-	0.1	5
														68997	65.0	67.0	0.01	-	0.1	5
														68998	67.0	69.0	0.02	-	0.1	5
														68999	69.0	71.0	0.01	-	0.1	5
														69000	71.0	73.0	0.02	-	0.1	5
														72601	73.0	75.0	0.01	-	0.1	5
														72602	75.0	77.0	0.07	-	0.1	5

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
85.6	175.3	Light grey (Hbl)-Bio-Qtz Crystal Dacite (Tertiary) Massive with local flow (?) banding/ structures (possible fault related shearing towards 40° C.A. -- decreasing down section) Non-magnetic, unaltered <b>Weak</b> lim of mafics (rare) Fracture sets ~ sub- normal and subparallel to 30° C.A., 4-6 per metre. Slips/gouge absent. <b>85.6-86.6 m:</b> Sheared/weakly brecciated ~ 40° C.A. with chalky grey clay-feld- spar-qtz breccia fill (derived from dacite unit or possibly tuff layer) 0.5-2 cm wide -- possibly fault related. Appears "swirled/twisted" in texture	-1	-1	-1	-1	-1	-1	-1	-1	-1	-	-1	72603	77.0	79.0	0.01	-	0.1	5
														72604	79.0	81.0	0.01	-	0.1	5
														72605	81.0	83.0	<.01	-	0.1	5
														72606	83.0	85.0	<.01	-	0.1	5
														72607	85.0	86.5	<.01	-	*only 4 samples	
														end of assay information						
		EOH 175.3 m																		

**Diamond Drill Log**

Project: Globe-Transvaal  
 Hole #: GL96-2  
 Date: 10-Oct-96  
 Logged by: R. Whiteaker

Northing: 5603080  
 Easting: 640445  
 Elevation: 1777 m

-1 = absent  
 1 = background/fresh  
 2 = weak  
 3 = moderate  
 4 = strong  
 5 = intense

Core: NQ2  

Collar	Azm	Dip
	090	-45

Depth (m)		Description	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	ROD %	Ox	Assays						
From	To													Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)	
0	3.0	Casing/Overburden												72608	3.0	5.0	0.02	-	0.1	5
														72609	5.0	7.0	0.03	-	0.1	5
3.0	18.2	Light-dark grey (Hbl)-Bio-Feldspar Porphyry. Local shades of peach-cream due to weak to moderate Fe-stain and alteration (fsp weak to moderately altered to clay-ser ± ca. mafics moderately to strongly altered to ser-chl-ca ± ep ± mag ± spec ± cpy-py (cpy > py)). Plagioclase laths 50-60%, mafics < 10%, fsp-qtz-mafic-opaque ground-mass 25-35%. Locally bio is poikilitic, enclosing plagioclase grains. Rare qtz-eyes throughout. Overall, poorly to moderately fractured (2-4 per metre, ~ 40-60° ± sub-parallel C.A. with clay-ca-ser ± lim/hem coatings). Local sub-mm ca-cpy-py-spec ~ subparallel to C.A., - increasing down section. Rare ep + qtz ± py veins/veinlets ~ 60-70° C.A. (5 mm-1 cm wide).  3.0-7.6 m: Moderately well broken/fractured, moderately Fe-staining of plagioclase & groundmass, local fault gouge/slips (clay-ca-hem-comminuted fsp-qtz, at ~ 30° C.A.)  4.6-4.9 m: Fault breccia, well healed with sub-angular fragments of porphyry approximately 1 mm-1 cm in diam in a dark grey fine grained fsp-qtz-clay ground-mass (crushed-milled porphyry), at ~ 30-40° C.A.	0.05	0.05	-1	-1	-1	2	2	2	3	40	-1	72610	7.0	9.0	0.01	-	0.1	5
														72611	9.0	11.0	0.02	-	0.1	5
														72612	11.0	13.0	0.02	-	0.1	5
														72613	13.0	15.0	0.02	-	0.1	5
														72614	15.0	17.0	0.01	-	0.1	5
														72615	17.0	19.0	0.02	-	0.1	5
														72616	19.0	21.0	0.05	-	0.1	5
														72617	21.0	23.0	0.03	-	0.1	5
														72618	23.0	25.0	0.05	-	0.1	10
														72619	25.0	27.0	0.06	-	0.1	10
														72620	27.0	29.0	0.03	-	0.1	10
														72621	29.0	31.0	0.03	-	0.1	10
														72622	31.0	33.0	0.02	-	0.1	10
														72623	33.0	35.0	0.02	-	0.1	10
														72624	35.0	37.0	0.03	-	0.1	10
														72625	37.0	39.0	0.04	-	0.1	10
18.2	133.0	Light grey to pale cream-pink Granodiorite-MzDior (Beth phase). Weakly magnetic, slightly porphyritic. Overall alteration is weak to moderate (ser-chl-ca-clay-spec). Moderately to poorly fractured (~ 40-60° ± subparallel to 30° C.A. with clay-ca ± chl ± ser ± py>cpy fill). Weakly to moderately brecciated throughout -- rock has a "twisted" - foliated texture and is crushed locally. Py>cpy generally as vein/fracture fill (see below). Fe-staining of feldspars/groundmass -- increasing down section. Local 0.5-2 cm wide aplitic dykelets/veins subparallel to C.A., increasing down section.  18.2-29.5 m: Bethlehem phase: weak alteration (fsp: ser ± ca ± clay, mafics: ser ± ca ± chl ± ep ± spec ± py>cpy). Overall, pale pink cream colour. Local weak Fe-staining of feldspars. Weakly brecciated (tectonic) throughout -- rock appears "twisted" and crushed (locally milled with qtz-ep-ca ± ser ± py ± spec breccia fill [2-5 cm wide] along with comminuted wallrock [clay-fsp-ca-qtz] where structural separation has occurred). Ser-ca ± spec ± py (finely beaded) veinlets and ep-qtz ± spec ± ser ± ca ± py>cpy (fine to medium disseminated) veinlets throughout, both <1-8 mm wide ~ 30-50° C.A. (breccia fill veins?). Local strong lim on fracture sets.  24.5 m: Strong brecciation ~ 50-60° C.A., well healed with comminuted wall-rock, qtz-clay-ser-spec-py ± cpy (< 0.05 %). Py>>cpy towards end of sub-interval.  29.5-37.5 m: Increased K-fsp content of Bethlehem (Monzo-granodiorite intrusion?) -- possibly some secondary; pinkish colour, decrease in mineralization (rare to absent py) and veining. Slightly greater sericitization of feldspars where brecciated. Chl + spec flecks on fractures.  29.8-32.1 m: Qtz-ep-ser ± ca ± spec flooding/healed-shear (~ 35° C.A.)  37.5-53.5 m: Increased brecciation of Bethlehem phase; shearing ~ subparallel to 30° C.A., well healed with 2-3 cm wide zones of qtz-ep-chl-ser ± ca ± hem ± py. Local ep-qtz-chl ± ser ± ca ± hem veins/well healed breccia matrix ~ 40-50° C.A.	0.2	0.1	-1	-1	-1	3	2	2	3	40	-1	72626	39.0	41.0	0.02	-	0.1	10
														72627	41.0	43.0	0.06	-	0.1	10
														72628	43.0	45.0	0.04	-	0.1	10
														72629	45.0	47.0	0.02	-	0.1	10
														72630	47.0	49.0	0.02	-	0.1	10
														72631	49.0	51.0	0.06	-	0.1	10
														72632	51.0	53.0	0.06	-	0.1	10
														72633	53.0	55.0	0.06	-	0.1	10
														72634	55.0	57.0	0.03	-	0.1	10
														72635	57.0	59.0	0.03	-	0.1	10
														72636	59.0	61.0	0.05	-	0.1	10
														72637	61.0	63.0	0.03	-	0.1	10
														72638	63.0	65.0	0.03	-	0.1	5
														72639	65.0	67.0	0.01	-	0.1	5
														72640	67.0	69.0	0.02	-	0.1	5
														72641	69.0	71.0	0.01	-	0.1	5
														72642	71.0	73.0	0.15	-	0.1	5
														72643	73.0	75.0	0.03	-	0.1	5
														72644	75.0	77.0	0.06	-	0.1	5
														72645	77.0	79.0	0.04	-	0.1	5
														72646	79.0	81.0	0.02	-	0.1	5
														72647	81.0	83.0	0.03	-	0.1	5
														72648	83.0	85.0	0.05	-	0.1	5
														72649	85.0	87.0	0.04	-	0.1	5
														72650	87.0	89.0	0.03	-	0.1	5

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
		<b>cont'd sub-interval 37.5-53.5 m</b>												72651	89.0	91.0	0.03	-	0.1	5
		<0.5-1 cm wide. Increased lim on fractures and in veinlets (subparallel to 30° C.A.)												72652	91.0	93.0	0.04	-	0.1	5
		Local tectonic re-brecciation (~30-40° C.A.) containing comminuted wallrock (with												72653	93.0	95.0	0.06	-	0.1	5
		<1 cm wide subrounded fragments of Bethlehem and ep-qtz-py ± cpy vein clasts												72654	95.0	97.0	0.03	-	0.1	5
		(milled) -- 0.5-1% py ± cpy finely milled/disseminated throughout. Weaker brecciation												72655	97.0	99.0	0.02	-	0.1	5
		(tectonic) lends a foliated/"twisted-wavy" texture to the finely milled wallrock + py veins												72656	99.0	101.0	0.02	-	0.1	5
		(- subparallel foliation). rare ser-chl-py ± cpy ± qtz veinlets. <2 mm wide. ~60-70°												72657	101.0	103.0	0.05	-	0.1	5
		C.A. Pinkish, K-spar-qtz intergrowth (graphic) colour and texture variable throughout												72658	103.0	105.0	0.09	-	0.1	5
		sub-interval												72659	105.0	107.0	0.04	-	0.1	5
		50.0-51.5 m Subparallel qtz-ep-spec ± ca ± cpy veinlet - 2 mm wide with												72660	107.0	109.0	0.01	-	0.1	5
		strong ser-chl-lim envelope to selvage 2 mm-1 cm wide												72661	109.0	111.0	0.12	-	0.1	5
		52.3 m Aplitic qtz-K-spar vein (coarse grained) - 45° C.A., 2 cm wide.												72662	111.0	113.0	0.13	-	0.1	5
		<b>53.5-71.0 m:</b> Decrease in brecciation (very weak) of Bethlehem unit. Poorly												72663	113.0	115.0	0.10	-	0.1	5
		fractured (2-4 per metre) with rare cpy ± py on subparallel-20° C.A. chl-ser-ca ±												72664	115.0	117.0	0.04	-	0.1	5
		spec) Local ep-ca ± chl ± qtz ± lim veinlets - 50-60° C.A. with selvages of moderately												72665	117.0	119.0	0.04	-	0.1	5
		to strongly seritized feldspars.												72666	119.0	121.0	0.03	-	0.1	5
		69.5-71.0 m, 1 cm wide K-spar-qtz-plag vein (orange-pink, coarse grained												72667	121.0	123.0	0.03	-	0.1	5
		with graphic-granophync texture) - subparallel to C.A.												72668	123.0	125.0	0.04	-	0.1	5
		<b>71.0-81.5 m:</b> Slight increase in mineralization (0.05-1% py fracture controlled ±												72669	125.0	127.0	0.02	-	0.1	5
		rare mafics replacement). Cpy < 0.05% fracture controlled fine disseminations.												72670	127.0	129.0	<.01	-	0.1	5
		Brecciation increases down section. Bright yellow-brown lim coating on clay-spec-												72671	129.0	131.0	0.01	-	0.1	5
		chl ± ser ± ca fracture sets/breccia cracks-seams												72672	131.0	133.0	<.01	-	0.1	5
		77.0 m 8 mm wide ep-qtz vein - 20° C.A. with intense lim boxwork cavity												72673	133.0	135.0	0.31	-	0.1	5
		along envelope; possible Fe-staining of feldspars in selvage. Increasing lim rims to												72674	135.0	137.0	0.01	-	0.1	5
		mafic down section. Local dull-yellow clay slips - 25-35° C.A. No significant change												72675	137.0	139.0	0.01	-	0.1	5
		in alteration (moderate).												72676	139.0	141.0	<.01	-	0.1	5
		<b>81.5-94.0 m:</b> Moderate to strong lim throughout (fracture/breccia-seam control-												72677	141.0	143.0	0.01	-	0.1	5
		led), no visible sulphides												72678	143.0	145.0	<.01	-	0.1	5
		82.0-88.0 m: Intense clay ± ca ± ser alteration of Bethlehem unit (chalky												72679	145.0	147.0	0.01	-	0.1	5
		white to pink) with lim/hem throughout; local parallel to subparallel dark brown to yellow												72680	147.0	149.0	<.01	-	0.1	5
		brown clay-ca-lim ± ser slips.												72681	149.0	151.0	0.01	-	0.1	5
		<b>94.0-107.0 m:</b> Moderate to strong (fault?) brecciation - moderately well healed												72682	151.0	153.0	0.01	-	0.1	5
		with clay-ca-ser ± lim matrix/cement between strongly altered (ser-chl-ca-clay ± py ±												72683	153.0	155.0	0.01	-	0.1	5
		Fe-stain) subrounded, milled fragments of Bethlehem, <1 mm-2 cm in approximate												72684	155.0	157.0	0.01	-	0.1	5
		diam. rare py ± cpy mafics replacement/fracture fill towards end of sub-interval.												72685	157.0	159.0	<.01	-	0.1	5
		Trace NCu flecks as fracture/breccia-seam fill locally (0.05-0.1%)												72686	159.0	161.0	0.01	-	0.1	5
		<b>107.0-109.0 m:</b> Fault brecciated Bio-Fsp Porphyry. Moderately well healed with												72687	161.0	163.0	0.03	-	0.1	5
		clay-ca ± ser ± comminuted Bio-Fsp Porphyry. Clasts are subangular/rounded												72688	163.0	165.0	0.02	-	0.1	5
		(milled), 3 mm-2 cm average in diam., strongly altered (ser-ca-chl-clay ± cpy-bo												72689	165.0	167.0	0.01	-	0.1	5
		[mafic replacement-trace]). Clasts appear light brown/red due to weak Fe-staining.												72690	167.0	169.0	0.01	-	0.1	5
		Sub-mm ca veinlets/breccia fill throughout - locally re-brecciated. Upper-lower												72691	169.0	171.0	0.01	-	0.1	5
		contact with brecciated Bethlehem unit - 30-40° C.A.												72692	171.0	173.0	<.01	-	0.1	5
		<b>109.0-123.0 m:</b> Cpy (0.1-0.5%), py (0.05-0.1%), bo (<0.05%), mo (<0.05%) as												72693	173.0	175.0	0.01	-	0.1	5
		mafic replacement/vein (ca-ser ± chl -30-40° C.A., <3 mm wide)-fracture fill through-												72694	175.0	177.0	<.01	-	0.1	5
		out weak to moderately brecciated, variably Fe-stained, moderately altered (ser-chl-												72695	177.0	179.0	0.01	-	0.1	5
		ca-clay-spec/hem) Bethlehem. Local subparallel clay-ser-chl-ca slips with trace												72696	179.0	181.0	<.01	-	0.1	5
		smear cpy ± py. Note: Fe-staining of feldspars/groundmass controlled by clay ±												72697	181.0	183.0	<.01	-	0.1	5
		ser ± ca breccia fractures/seams, mineralization greatest where rock Fe-stained.												72698	183.0	185.0	0.01	-	0.1	5
		Subparallel ± 35-45° C.A. ser-clay-hem-chl-ca-cpy ± py (sulphides as finely diss-												72699	185.0	187.0	0.06	-	0.1	5
		minated flecks) slips down section. Fe-staining fracture/vein (ca-ser ± chl ± cpy-py)												72700	187.0	189.0	0.01	-	0.1	5
		controlled (selvages) down section. General decrease in cpy-py (absent bo-mo)												72701	189.0	191.0	0.01	-	0.1	5

Depth (m)		Description	%Py	%Cpy	%Bof Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)			
From	To														From	To							
133.0	221.0	<i>cont'd sub-interval 109.0-123.0 m</i>												72702	191.0	193.0	0.01	-	0.1	5			
		towards end of clay-ca-ser filled shear/slip ~ 50° C.A., 2 cm wide													72703	193.0	195.0	0.01	-	0.1	5		
		<b>123.0-133.0 m:</b> Decrease in cpy-py (<0.05%) mafic replacement + fracture/vein fill. Greater ser-clay-ca-chl alteration -- rock appears pale grey-green with variable pinkish sections (overall decrease in Fe-staining) Moderately fractured < 20% RQD (6-10 per metre) Local ser-clay ± ca ± chl slips ~ 30-40° C.A. with strongly sericitized to hematized selvages (< 1 cm wide Rare orange-pink aplitic dykelets/veins (?) 1-2 cm wide ~ 25° C.A.														72704	195.0	197.0	0.03	-	0.1	5	
																72705	197.0	199.0	0.02	-	0.1	5	
																72706	199.0	201.0	0.01	-	0.1	5	
																72707	201.0	203.0	< 0.1	-	0.1	5	
																72708	203.0	205.0	< 0.1	-	0.1	5	
																72709	205.0	207.0	0.02	-	0.1	5	
																72710	207.0	209.0	0.01	-	0.1	5	
				Light grey, medium grained sparsely porphyritic Granodiorite-Mz Dior (Beth vanation)	0.08	<0.05	<0.05	-1	-1	3	2	3	2	15	-1	72711	209.0	211.0	0.01	-	0.1	5	
				Weakly magnetic. Pervasive pink-cream speckling locally due to greater K-spar concentrations 40-60% plagioclase, 10-15% K-spar, 5-10% Bio-Hbl, 15-20% Qtz, remainder -- weakly interstitial feldspar-qtz-mafic-opaque-groundmass Weakly to moderately altered (feldspar altered to ser ± clay, mafics altered to ser-ca-chl-spec ± clay ± py>cpy [rare to trace 0.05-0.1% locally]) Fracture controlled Fe-staining throughout -- decreasing down section. Local fracture and ser-ca-chl veinlet controlled strong-intense alteration (ser-chl-ca-py ± cpy [<0.1% locally]) -- increasing to pervasive down section. Moderately fractured (8-12 per metre, ~ 50-60° and subparallel to 30° C.A.) with clay-ser-ca ± chl ± py fill. Locally weakly brecciated (crackle) -- well healed with ser-chl ± ca ± py>cpy>>mo (rare) breccia veins (subparallel to 30° C.A., <1-5 mm wide, hematized selvages with 0.5-1% py mafic replacement common) Ser-chl-ca ± py ± hem ± ep veinlets, < 1-2 mm wide, 20-35° and 50-60° C.A., common throughout (possibly breccia related). Aplitic-monzonitic dykelets/veins (?), 5 mm-2 cm wide, 45-65° and subparallel to C.A. locally throughout -- decrease in abundance after 190.0 m; commonly brecciated with Bethlehem unit and locally offset by subnormal ca-ser ± chl ± py filled fractures. Local clay-ca-ser ± py slips ~ 25-35° C.A.													72712	211.0	213.0	0.01	-	0.1	5
																72713	213.0	215.0	0.04	-	0.1	5	
																72714	215.0	217.0	0.03	-	0.1	5	
																72715	217.0	219.0	0.01	-	0.1	5	
																72716	219.0	221.0	0.02	-	0.1	5	
																72717	221.0	223.0	0.01	-	0.1	5	
																72718	223.0	225.0	0.01	-	0.1	5	
																72719	225.0	227.0	0.01	-	0.1	5	
																72720	227.0	229.0	0.01	-	0.1	5	
																72721	229.0	231.0	0.01	-	0.1	5	
																72722	231.0	233.0	0.01	-	0.1	5	
																72723	233.0	235.0	0.01	-	0.1	5	
																72724	235.0	237.0	0.01	-	0.1	5	
																72725	237.0	239.0	0.01	-	0.1	5	
																72726	239.0	241.0	0.01	-	0.1	5	
																72727	241.0	243.0	< 0.1	-	0.1	5	
																72728	243.0	245.0	< 0.1	-	0.1	5	
				<b>134.0-146.0 m:</b> Strong concentration of subparallel to 30° C.A. ser-chl-ca ± py ± hem ± ep veinlets (15-25 per metre) -- overall orange-pink colouration to unit due to fracture/vein controlled hematization and local K-spar-qtz flooding (aplitic breccia fill).												72729	245.0	247.0	< 0.1	-	0.1	5	
																72730	247.0	249.0	0.01	-	0.1	5	
																72731	249.0	251.0	0.01	-	0.1	5	
																72732	251.0	253.0	0.01	-	0.1	5	
				<b>134.5-138.5 m:</b> Moderate breccia (tectonic) -- well healed with Qtz-K-spar-tour-chl-ca ± ser ± hem fill and Qtz-ep-tour ± ca ± chl ± cpy ± py (coarse blebs up to 1 cm in diam.) veins ~ 20° C.A.												72733	253.0	255.0	0.07	-	0.1	5	
																72734	255.0	257.0	0.02	-	0.1	5	
																72735	257.0	259.0	0.10	-	0.1	5	
				<b>154.5-156.5 m:</b> Well brecciated (crushed/comminuted) throughout -- strongly hematized, milled clasts (elongate, subrounded average 1 x 3 mm in dimension) within well healed matrix/breccia veins of chl-ser-ca ± py ~ 20-40° C.A.												72736	259.0	261.0	0.01	-	0.1	5	
														72737	261.0	263.0	0.01	-	0.1	5			
														72738	263.0	265.0	0.03	-	0.1	5			
		<b>163.0-190.5 m:</b> Increased fracturing of Bethlehem (10-20 per metre -- increasing down section to > 25 per metre [well broken]); RQD ~ 5%. Increasing alteration (pervasive-fracture controlled) to end of sub-interval (moderate to strong ser-chl-ca-spec ± py (± cpy ± bo -- rare mafics replacement) -- plagioclase appears pale to deep green throughout. Weak fracture/vein controlled hematization persists -- decreases towards end of sub-interval. Overall pale green-orange colour to unit. Local ca-ep-ser ± chl ± hem ± py veinlets 20-30° C.A.												72739	265.0	267.0	0.06	-	0.1	5			
														72740	267.0	269.0	0.02	-	0.1	5			
														72741	269.0	271.0	0.02	-	0.1	5			
														72742	271.0	273.0	0.02	-	0.1	5			
														72743	273.0	275.0	0.02	-	0.1	5			
														72744	275.0	277.0	0.01	-	0.1	5			
														72745	277.0	279.0	0.02	-	0.1	5			
														72746	279.0	281.0	0.05	-	0.1	5			
		<b>168.2 m:</b> Clay-ser-ca healed shear/gouge (?) with comminuted wallrock throughout, 3 cm wide ~ 55° C.A. Weak brecciation continues.												72747	281.0	283.0	< 0.1	-	0.1	5			
		<b>177.0-182.0 m:</b> 0.5-1% py and 0.05-0.1% cpy finely disseminated as mafic replacement and fill in veins/fractures/slips ~ subparallel to 35° C.A.												72748	283.0	285.0	0.01	-	0.2	5			
		<b>182.0-186.0 m:</b> <0.1% py as fracture fill ± mafic replacement. Rare cpy ± bo in ca-ser ± hem veinlets ~ 40° C.A. Well broken, less hematization, dark grey-green.												72749	285.0	287.0	0.01	-	0.2	5			
														72750	287.0	289.0	0.01	-	0.2	5			
														72751	289.0	291.0	0.01	-	0.2	5			
		<b>186.0-190.0 m:</b> 0.5-1% py (>>cpy) disseminated throughout as mafic replace-												72752	291.0	293.0	0.01	-	0.2	5			

Depth (m)		Description	%Py	%Cpy	%B/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)			
From	To														From	To							
190.5	221.0	<p><b>cont'd sub-interval 186.0-190.0 m</b></p> <p>ment/free-grains and on fracture sets (40-60° C.A.) -- mineralization is fracture controlled and locally greatest where ser-chl-spec-Fe-stain-ca alteration is strongest</p> <p>189.6-189.8 m: 5-8 mm wide light green-grey ser-chl-hem ± ca breccia veins ~ 35-45° C.A. with sub-mm fragments of strongly altered wallrock throughout</p> <p>Pale green to light grey medium Granodiorite-Mz Dior (Beth phase). Mod to strong pervasive propylitic and local argillic alteration (fsp altered to ser-clay ± ca, mafics altered to ser-chl-ca ± spec ± ep ± py &gt; cpy -- localized adjacent to veining/fractures). Ca-clay-ser-py alteration/mineralization (argillic) increasing down section giving rock a pale grey-green chalky colour. Minor hematization of feldspars (with 0.5-2% associated py &gt; cpy mafic replacement) locally -- restricted to selvages of clay-ser ± chl ± ca ± py filled fractures (40-60 ± 20-30° C.A.) and ca-ser-ep-py ± chl ± spec ± cpy ± mo (± garnet? -- green, isometric crystals) veinlets and breccia veins (2-5 mm wide, 25-45° C.A., 2-3 per metre). Locally, weakly brecciated/crushed (twisted-foliated appearance, subparallel to C.A.). Overall, moderately fractured (4-6 per metre).</p> <p>198.6 m: Clay-ser-ca slips ~ 30° C.A. Local 1-2 mm wide drusy ca veinlets ~ 40° C.A. Abundant freely disseminated mag grains (possibly secondary). Py (&gt; cpy) throughout as finely disseminated grains in groundmass/mafics and in veins (commonly in perfect cubic form) -- 0.5-1% overall (locally 1-3%), Cpy 0.05-0.1% locally finely disseminated veins/fractures and mafic replacement in selvages to 2 cm wide. Note: py increases/cpy decreases down section.</p> <p>203.5 m: 6 cm wide qtz-K-spar (aplitic) medium to coarse grained vein/dyke-let (?)</p> <p>208.0 m: Clay-ser-chl-ca-py ± py gouge/shear 9-1 cm wide, 20-30° C.A.) with strong to intense sercitized/chloritized selvage/wallrock 10-15 cm wide (dark green feldspars.)</p> <p><b>209.0-221.0 m:</b> Weak to moderate brecciation (tectonic) -- moderately to well healed (local subrounded, milled, strongly hematized clasts of Bethlehem up to 2 cm in diam.) with chalky to pale grey-green clay-ca-py-qtz ± ser (locally ± spec-chl-cpy) breccia/fracture fill 50-70 ± 20-30° C.A.) Ca-ser-py ± ep ± spec/hem veinlets (&lt;1-4 mm wide, 40-60° and subparallel to C.A., 10-25 per metre) commonly with orange hematized envelopes/selvages &lt; 1 cm wide.</p> <p>213.5 m &amp; 215.8 m: Subparallel tour (excellent radiating crystals) + qtz + cpy (medium to coarse blebs) ± py (finely disseminated) ± ser ± chl ± ca veins/veinlets 2 mm-1.5 cm wide -- 1-3% cpy in vein ± envelope. Increasingly crackle brecciated (weak dilational breccia) towards end of subinterval (ser-chl-spec-ca ± py ± qtz breccia fracture/vein fill - matrix) with stronger hematization of Bethlehem associated.</p>																					
																	72753	293.0	295.0	0.01	-	0.2	5
																	72754	295.0	297.0	0.02	-	0.2	5
																	72755	297.0	299.0	0.02	-	0.2	5
																	72756	299.0	301.0	0.02	-	0.2	5
																	72757	301.0	303.0	0.02	-	0.2	5
																	72758	303.0	305.0	0.01	-	0.1	5
																	72759	305.0	307.0	0.01	-	0.1	5
																	72760	307.0	309.0	0.01	-	0.1	5
																	72761	309.0	311.0	0.02	-	0.1	5
																	72762	311.0	313.0	0.04	-	0.1	5
																	72763	313.0	315.0	0.01	-	0.1	5
																	72764	315.0	317.0	<.01	-	0.1	5
																	72765	317.0	319.0	<.01	-	0.1	5
																	72766	319.0	321.0	<.01	-	*only 9 samples	
																	72767	321.0	323.0	0.01	-	0.2	5
																	72768	323.0	325.0	0.01	-	0.2	5
																	72769	325.0	327.0	0.01	-	0.2	5
																	72770	327.0	329.0	0.02	-	0.2	5
																	72771	329.0	331.0	0.01	-	0.2	5
																	72772	331.0	333.0	0.01	-	0.2	5
																	72773	333.0	335.0	0.02	-	0.2	5
																	72774	335.0	337.0	0.05	-	0.2	5
																	72775	337.0	339.0	0.01	-	0.2	5
																	72776	339.0	341.0	0.07	-	0.2	5
																	72777	341.0	343.0	0.08	-	0.1	5
																	72778	343.0	345.0	0.26	-	0.1	5
																	72779	345.0	347.0	0.01	-	0.1	5
														72780	347.0	349.0	0.01	-	0.1	5			
														72781	349.0	351.0	0.01	-	0.1	5			
														72782	351.0	353.0	0.02	-	0.1	5			
														72783	353.0	355.0	0.01	-	0.1	5			
														72784	355.0	357.0	0.01	-	0.1	5			
														72785	357.0	359.0	0.01	-	0.1	5			
														72786	359.0	361.2	0.01	-	0.1	5			
														end of assay information									

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
221.0	253.5	<p>Strong to intense ser-chl-ca-spec/hem ± clay ± ep altered (pervasive) Bethlehem Gmdior-Qtz Mz Dior., sparsely porphyritic. <b>Wk</b> magnetic. Overall dark green-grey w/ local zones pinkish-orange (weak to moderate fracture controlled Fe-staining) to pale green-grey (slightly weaker ser-chl alteration). Poorly to moderately fractured (4-6 per metre, 40-60°, rare subparallel to 30° C.A. with chl-ser-clay-ca ± ep ± hem fill)</p> <p>Ser-ca-chl ± ep ± hem ± py veinlets (+ crackle breccia veinlets) common throughout &lt; 1-4 mm wide, subparallel to 30° and 50-60° C.A., commonly with orange-pink Fe-stained selvages 2 mm -1 cm wide average. Local <b>weak brecciation</b> -- well healed with qtz-ser-ca-chl ± spec-hem ± py matrix/veins - subparallel to 30° C.A. 3 mm-1 cm wide. <i>Note:</i> locally qtz-ca-ep-ser-py veinlets (~ 20° C.A., 1-3 mm wide) cross cut and offset sub-mm chl-ca-ser veinlets (50-70° C.A.). Rare 1-2 cm wide, strongly altered (ser-hem-ca) orange feldspar porphyry dykelets (veins?) <i>Note:</i> py rare to absent from 225.0 -250.0 m.</p> <p><b>221.0-225.0 m:</b> 0.5-15 py finely beaded in sub-mm ca-se ± chl veinlets + breccia -seams/fractures at irregular C.A.'s. Locally well brecciated (~ 25° C.A.) and well healed with ser-ca-chl ± py ± qtz cement/veins. Ca microveinlets throughout.</p> <p><b>225.0-235.0 m:</b> Black to steel grey, strongly magnetic mag + very fine sulphide (Cc?) veins throughout with ca-ser ± chl ± py envelopes. 2-8 mm wide ~ 40-50° C.A., 3-4 per metre. Commonly cross cut and offset by sub-mm ca-ser-py veinlets ~ 60-70° C.A. Locally veins are segmented veins and along envelopes common (ser-chl?)</p> <p><b>240.0 m:</b> Earthy chocolate brown hematitic clay-ser ± ca slips ~ 50° C.A. with intensely ser-chl-ca-Fe-stain selvages 3-4 cm wide.</p> <p><b>249.0-253.5 m:</b> Pale green due to weaker ser-chl alteration and slightly stronger clay-ca ± qtz alteration. Weakly brecciated, poorly healed with ca-clay-ser (<i>Note:</i> rock is weak/crumbled locally.) Local light green-grey clay-ser + slips ~ 60° C.A. ± subparallel to C.A. Trace bo-cpy finely disseminated in clay-ca ± qtz altered ground-mass.</p>	0.05	0.01	0.01	-1	2	4	3	4	4	54	-1	cont'd core logging						
253.5	361.2	<p>Fault Zone: sparsely Porphyritic Intrusion -- possible Bethlehem (Guichon?) phase related, &lt; 8% mafics, 10-15 % qtz. Strong-intense degree of alteration throughout makes lithological identification difficult. Non-<b>weakly</b> magnetic. Pervasive strong-intense alteration (feldspars altered to ser-clay ± ca ± Fe-stained, mafics altered to chl-ser-ca ± spec ± clay). <i>Note:</i> 0.5-1% spec disseminated throughout (possible free grains?). Strong Fe-staining throughout (fracture/shear controlled, locally pervasive) -- pale to bright red-orange feldspars - groundmass-fractures ± gouge. Well broken/fractured (RQD &lt; 4%), 20-30, 50-60° C.A. with chl-ser-clay-ca ± hem coatings. Fault brecciation/shearing (subparallel to 30° C.A.) throughout -- poorly healed with light green-grey to orange coloured clay-ser-ca-hem/Fe-staining.</p> <p>Ca-ser ± qtz ± chl ± hem ± cpy-bo-py veinlets throughout (&lt; 1 mm- 1 cm wide, 40-60° C.A.), commonly brecciated/gashed. <i>Note:</i> cpy-bo rare where specified below.</p> <p>Fault gouge/slips throughout -- clay-ser-ca ± Fe-stain ± milled cpy ± bo (sulphides rare), 30-40° C.A. <i>Note:</i> ser occurs as fine grained silver-white flecks and as a soft gel-green product. Brecciated/crushed black tour + ca ± qtz ± chl ± cpy veinlets locally (2-5 mm wide ~ 20° C.A.)</p> <p><b>253.5-256.5 m:</b> Strong/thick light green-grey fault gouge (clay-ser-ca ± chl) with 1-55 finely and evenly disseminated crushed/milled py&gt;cpy. Local crushed/milled fragments of black tour-chl ± ca ± qtz veins with disseminated cpy. Upper contact (slips) and shear planes/slips throughout at ~ 30° C.A.</p> <p><b>257.4-257.9 m:</b> Qtz-ser-hem-bo ± cpy (bo as fine to medium grained blebs) veinlet, 4-8 mm wide, ~ 20° C.A.</p> <p><b>261.0-267.0 m:</b> Local ca-qtz-ser ± chl ± bo-cpy veinlets/fracture fill (~ 20-30°</p>	0.1	0.1	0.08	0.05	2	5	3	4	4	3	-1							

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
		<p><b>cont'd sub-interval 261.0-267.0 m</b></p> <p>C.A.). Bo ≥ cpy (&lt;0.1%). Rare py.</p> <p><b>273.5-274.0 m:</b> Brecciated/moderate pervasive Fe-staining/hematization (poorly healed with clay-ser-ca-hem gouge/matrix between comminuted/crushed-milled wallrock ~ 20° C.A.). Crushed subparallel tour-ca-qtz-cpy veinlet within fault breccia</p> <p><b>278.8-280.0 m:</b> Brecciated qtz + ca + bo + cpy ± mo (?) ± ser (envelope) veins, 0.5-1 cm wide. 30-40° C.A. Bo ≥ cpy -- 0.1-0.5% of veins</p> <p><b>286.6 m:</b> 1.5 cm wide qtz - bo (very finely disseminated - &lt;0.1%) vein with chl-ser-ca envelope (&lt; 3 mm wide), 40° C.A.</p> <p><b>287.5-289.7 m:</b> Intensely altered (ser-chl-ca-hem/spec-clay) Feldspar Porphyry dyke. Well brecciated/broken, poorly healed with clay-ca-hem-ser gouge/fracture fill. Faint, intensely altered mafics. Orange-brown colour due to pervasive Fe-staining. Clay-ser-ca-hem ± chl slips ~ 40-50° C.A.</p> <p><b>301.8 m:</b> Subparallel ser-ca-chl veinlets ~ 2 mm wide with fine to medium grained blebs of bo&gt;cpy throughout.</p> <p><b>305.0-312.0 m:</b> Local py&gt;&gt;cpy finely disseminated in sub-mm ser-ca ± qtz ± chl ± hem filled veinlets/fractures subparallel to 30° C.A. Trace mafic replacement in selvages. 0.5-1% py for subinterval.</p> <p><b>305.5 m:</b> Possible mo smeared on fracture/slip in clay-ca-ser ± qtz healed fault gouge.</p> <p><b>306.5-308.0 m:</b> 1-2% py beaded in sub-mm ca-qtz-ser veinlets, 1-5 mm ca ± qtz veinlets and in 1-3 mm tour ± qtz ± ca veinlets (all veins ~ 20-40° C.A., minor secondary qtz.</p> <p><b>308.8-309.0 m:</b> Light grey, weakly altered Dacite (?); upper/lower contacts and black biotite throughout, oriented ~ 35° C.A. [dropped volcanics?].</p> <p><b>316.5-318.5 m:</b> Strong to intensely altered (ser-chl-spec-ca-clay). Mafic (bio-hbl?) - Feldspar Porphyry dyke. Green-brown to pale orange colour (hematization). Rare cpy mafic replacement. Well broken, locally brecciated/gouged (moderately to poorly healed with qtz-ca-chl-ser-py veins/fracture fill). 40-60° C.A., &lt; 1-4 mm wide ca ± ser ± spec veinlets throughout. Non-magnetic.</p> <p><b>318.5-361.2 m:</b> Py-cpy absent, trace bo-mo (as described below). Intense bright red-orange Fe-staining to feldspars throughout. Intense ser-chl-ca-spec-clay alteration persists. RQD &lt; 3%; less brecciation/gouge, rock more broken. Local sheared/brecciated multiphase qtz ± bo, ca ± ser ± chl veins (0.5-2 cm wide, ~ 20° C.A., with clay-ca-ser ± hem gouge.) and 3 mm-1 cm wide gel-green ser ± chl and 0.3-2 cm wide ca veins 30-40° C.A. Bo decreases to EOH.</p> <p><b>326.0-326.4 m:</b> Subparallel ca-ser-chl-mo (finely beaded) vein (~ 2 mm wide); slip (silver-black clay-chl-mo-ser-ca) along vein wall.</p> <p><b>330.0-330.6 m:</b> Intensely altered (ser0chl-spec-ca-clay) (Bio-Hbl?) Feldspar Porphyry dykelet; upper contact sheared (~ 20-30° C.A. - healed with qtz-ca-ser ± chl vein and clay-ca gouge/slip. Orange-brown colour. Non-magnetic.</p> <p><b>350.0-355.0 m:</b> Subparallel to 20° C.A., 3-5 mm wide ca + mo ± qtz ± ser veinlets; slip along vein wall/envelope (silver-black metallic smeared mo with clay-ca ± ser). Note: 2.5 cm wide Fe-stained qtz vein adjacent to ca-mo veinlet - possible multiphase with qtz vein representing first phase and ca-mo veinlets representing later stage fracture fill.</p> <p style="text-align: center;"><b>EOH 361.2 m</b></p>																		
															<b>cont'd core logging</b>					



Diamond Drill Log													Assays							
Project: Globe-Transvaal		Northing: 5603060		-1 = absent		Core: NQ2		Azm		Dip										
Hole #: GL96-3		Easting: 640705		1 = background/fresh				Collar		090		-45								
Date: 15-Oct-96		Elevation: 1789 m		2 = weak		4 = strong														
Logged by: R. Whiteaker		Length: 318.5 m		3 = moderate		5 = intense														
Depth (m)		Description	%Py	%Cpy	%Bof Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
0	3.0	Casing/overburden												72787	3.0	5.0	0.12	-	0.2	5
3.0	24.0	Medium grained grey-black-pink speckled Bio-Hbl-Qtz Diorite (Guichon variety) Weakly equigranular-porphyritic, weakly magnetic. Weakly to moderately altered (fsp altered to ser ± alb ± clay, mafics altered to chl-spec/hem ± ep ± ser ± mag ± clay Local ep (commonly drusy) -qtz ± spec ± cpy (disseminated blebs to 0.1% locally) ± ± mal (trace) ± lim veinlets, 20-30° C.A., 2-6 mm wide. Fracture sets, 6-12 per metre, ~ 50-60, 20-30° C.A. with lim-hem - clay ± chl ± mal/az coating/fill. Pervasive weak to moderate alb alteration, increasing down section -- cloudy, diffuse-translucent texture, light grey to pale cream-pink. Possible K-spar (hematized alb?) veins near end of sub-interval, ~ 30° C.A., 0.5-1 cm wide. Note: absence of calcite throughout. <b>Rare</b> clay-hem-ser slips ~ 35° C.A.	-1	<05	-1	-1	1	3	-1	2	2	12	2	72788	5.0	7.0	0.06	-	0.2	5
														72789	7.0	9.0	0.05	-	0.2	5
														72790	9.0	11.0	0.03	-	0.2	5
														72791	11.0	13.0	0.04	-	0.2	5
														72792	13.0	15.0	0.05	-	0.2	5
														72793	15.0	17.0	0.04	-	0.2	5
														72794	17.0	19.0	0.02	-	0.2	5
														72795	19.0	21.0	0.08	-	0.2	5
														72796	21.0	23.0	0.07	-	0.2	5
														72797	23.0	25.0	0.40	-	0.1	5
														72798	25.0	27.0	0.11	-	0.1	5
														72799	27.0	29.0	0.11	-	0.1	5
24.0	40.2	(Hbl-Bio ?) Feldspar Porphyry Dyke. Weakly magnetic. Light grey at upper contact (~ 40-50° C.A.) only. Pervasively weak Fe-stained/hematized throughout and a K-spar rich groundmass (possibly secondary) give rock a dull red-brown colour. Moderately to strongly altered (feldspars altered to ser ± clay, mafics altered to chl-spec-mag-ser ± ep ± clay). Well fractured/broken, 10-15 per metre, 40-60° C.A. with moderate to strong lim/hem - clay ± chl ± mal/az ± ep ± gypsum/anhydrite(?) fill/coatings. Ep-qtz ± chl ± lim ± mal/az ± spec ± cpy (rare) veins common throughout (locally weakly brecciated -- forming syn-breccia?) ~ 30-50° C.A., < 1-6 mm wide, >12 per metre. Local black 1-5 mm wide qtz-chl-tour (?) ± spec veinlets ~ 30° C.A. with trace lim on envelopes and pink-orange diffusive K-spar/Fe-stained selvages ~ 5 mm wide. Note: < 1-4 mm wide ep ± qtz veinlets cross cut all other vein phases. K-spar-Fe-staining/hematization decreases (to absent) in last metre of sub-interval. Lower contact at ~35-45° C.A. <b>38.0-40.2 m:</b> Containing angular, moderately altered (chl-ser-spec-clay-ep) fragments of Guichon Qtz Diorite (stopes), 1-5 cm wide (approximately) <b>38.5 m:</b> ~ 1 cm wide spec-mal/az (0.1-0.5%) vein ~ 25° C.A. <b>40.0 m:</b> clay-ser-lim slip/gouge ~ 30° C.A.	-1	<05	-1	-1	1	3	-1	3	2	5	2	72800	29.0	31.0	0.18	-	0.1	5
														72801	31.0	33.0	0.21	-	0.1	5
														72802	33.0	35.0	0.08	-	0.1	5
														72803	35.0	37.0	0.07	-	0.1	5
														72804	37.0	39.0	0.04	-	0.1	5
														72805	39.0	41.0	0.05	-	0.1	5
														72806	41.0	43.0	0.05	-	0.1	5
														72807	43.0	45.0	0.04	-	0.1	5
														72808	45.0	47.0	0.02	-	0.1	5
														72809	47.0	49.0	0.07	-	0.1	5
														72810	49.0	51.0	0.02	-	0.1	5
														72811	51.0	53.0	0.03	-	0.1	5
														72812	53.0	55.0	0.03	-	0.1	5
														72813	55.0	57.0	0.02	-	0.1	5
														72814	57.0	59.0	0.03	-	0.1	5
														72815	59.0	61.0	0.04	-	0.1	5
														72816	61.0	63.0	0.11	-	0.1	5
														72817	63.0	65.0	0.04	-	0.1	5
														72818	65.0	67.0	0.01	-	0.1	5
														72819	67.0	69.0	0.01	-	0.1	5
														72820	69.0	71.0	0.01	-	0.1	5
														72821	71.0	73.0	0.01	-	0.1	5
														72822	73.0	75.0	0.01	-	0.1	5
														72823	75.0	77.0	0.01	-	0.1	5
														72824	77.0	79.0	0.02	-	0.1	5

Depth (m)		Description	%Py	%Cpy	%Bof Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
40.2	64.6	Medium grained light grey to pale green-yellow Bio-Hbl-Qtz Diorite (Guichon variety) Grey-black-pink/cream speckling (plagioclase-mafic-K-spar) Moderately magnetic (weak where alteration is stronger) Weakly equigranular -- sparsely porphyritic. Fracture sets, 8-10 per metre, ~ 50-60, 20-30° C.A. with clay-lim-hem ± chl ± mal/az ± gypsum/anhydrite (?) coating Weak to moderate alteration (feldspars altered to ser ± alb ± clay, mafics altered to chl-ser-spec ± ep ± ca ± clay. Fracture/vein (qtz-ep ± chl ± spec) controlled alb-ep alteration throughout (increasing down section) giving rock a cream-yellow to pale green colour. Local qtz-spec/hem-ep-chl (tour?) ± cpy>Cc>bo (fine to medium grained blebs with lim rims) ± mal (az veins ~ 30-40° C.A., 2 mm-1 cm wide, with ep-hem envelopes and alb ± hem (K-spar?) selvages, 0.5-1% cpy-Cc; decreasing down sub-interval. Ep-qtz ± chl ± ca ± spec veinlets throughout (>10 per metre, <1-6 mm wide average, ~ subparallel to 20° C.A. commonly with patchy medium grained ep selvages). Local alb-chl-ep veinlets 20-30° C.A., 1-3 mm wide, increasing in abundance down section. <b>52.5 m &amp; 60.0 m:</b> clay-chl-lim (strong) ± ca gouge/slips ~ 25-35° C.A. with crushed/milled ep-qtz vein throughout. Decrease in lim-mal-az-sulphides vein/fracture fill down section; appearance of soft black-brown dendritic Mn-oxide or hem (?) on fractures down section. Ca alteration/veins appears related/associated with alb-ep-chl alteration and slightly increases down section. Spec decreasing down section	-1	0.05	<0.05	-1	2	3	2	3	2	25	2	72825	79.0	81.0	0.03	-	0.1	5
														72826	81.0	83.0	0.04	-	0.1	5
														72827	83.0	85.0	0.01	-	0.2	5
														72828	85.0	87.0	0.02	-	0.2	5
														72829	87.0	89.0	0.01	-	0.2	5
														72830	89.0	91.0	0.01	-	0.2	5
														72831	91.0	93.0	0.01	-	0.2	5
														72832	93.0	95.0	0.01	-	0.2	5
														72833	95.0	97.0	0.01	-	0.2	5
														72834	97.0	99.0	0.02	-	0.2	5
														72835	99.0	101.0	0.03	-	0.2	5
														72836	101.0	103.0	0.01	-	0.2	5
														72837	103.0	105.0	0.03	-	0.2	5
														72838	105.0	107.0	0.01	-	0.2	5
														72839	107.0	109.0	0.01	-	0.2	5
														72840	109.0	111.0	0.01	-	0.2	5
														64.6	75.4	Light grey to pale orange-brown Bio and/or Hbl (strongly altered) Feldspar Porphyry Dyke. Very weakly magnetic. Upper and lower contacts ~ 45-55° C.A. chilled to a darker fine grained texture approximately 5-10 cm wide. Weak to moderate altered feldspars (ser ± alb (?) ± clay), strongly altered mafics (chl-ep-spec ± ser ± clay ± ca). Abundant fine to medium grained ep clots throughout. Ep-qtz ± chl veins ~ 20-40° C.A., 4-8 per metre, 2 mm-1.5 cm wide. Less common ca veinlets (< 1 mm wide, 40-60° C.A.) throughout. Moderately fractured -- 8-14 per metre, 40-60 ± 20-30° C.A. with weak chl-clay-lim ± ep ± anhydrite/gypsum (?) coatings. Note: no K-spar in groundmass and vein selvages.	-1	-1	-1	-1
72846	121.0	123.0	0.01	-	0.2	5														
72847	123.0	125.0	0.01	-	0.2	5														
72848	125.0	127.0	0.01	-	0.2	5														
72849	127.0	129.0	0.01	-	0.2	5														
72850	129.0	131.0	0.01	-	0.2	5														
72851	131.0	133.0	0.01	-	0.2	5														
72852	133.0	135.0	0.01	-	0.2	5														
72853	135.0	137.0	0.01	-	0.2	5														
72854	137.0	139.0	0.01	-	0.2	5														
75.4	132.0	Medium grained light cream-grey to patchy pale yellow-green Bio-Hbl-Qtz Diorite (Guichon variety). Speckling black-grey-pink (mafic-plagioclase-K-spar). Weakly to moderately magnetic. Sparsely porphyritic to weakly equigranular. Poorly to moderately fractured, 8-12 per metre, ~ 25-35, 50-70° C.A., weak clay-chl ± ep ± qtz ± ser ± ca ± lim (bright orange-red) ± mal-az-cpy/py (all rare -- decreasing down section). Ep-qtz ± chl ± alb ± ca veins, 2 mm-1 cm wide (average), 25-45° C.A., 2-8 per metre with wide albitized selvages giving rock a weakly pervasive pale cream/white colour. Pale cream-pink alb veins throughout. (0.5-1.5 cm wide, 30-50° C.A., 1-3 per metre, decreasing down section). Weak to moderate alteration (feldspars altered to ser ± alb ± clay, mafics altered to chl-ser ± ep ± ca ± mag ± spec/hem.) Patchy-clotted ep throughout -- commonly associated with envelopes/selvage wallrock to ep-qtz veining/fracture fill. Ca ± ser ± chl veinlets, locally with drusy ca, < 1-3 mm wide with yellow-green sericitized selvages, ~ 20-40° C.A., commonly cross cut alb and ep-qtz veinlets. Rare spec-lim veinlets ~ 40° C.A., <4 mm wide down section.	-1	<0.05	<0.05	-1	2	3	2	3	2	31	1	72855	139.0	141.0	0.02	-	0.2	5
														72856	141.0	143.0	0.01	-	0.2	5
														72857	143.0	145.0	0.01	-	0.3	5
														72858	145.0	147.0	0.01	-	0.3	5
														72859	147.0	149.0	0.01	-	0.3	5
														72860	149.0	151.0	0.06	-	0.3	5
														72861	151.0	153.0	0.01	-	0.3	5
														72862	153.0	155.0	0.01	-	0.3	5
														72863	155.0	157.0	0.01	-	0.3	5
														72864	157.0	159.0	0.01	-	0.3	5
														72865	159.0	161.0	0.01	-	0.3	5
														72866	161.0	163.0	0.01	-	0.3	5
														72867	163.0	165.0	0.01	-	0.2	5
72868	165.0	167.0	0.01	-	0.2	5														
72869	167.0	169.0	0.01	-	0.2	5														

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
132.0	153.0	78.0-92.0 m: Zone of 2-15 cm wide ep-qtz ± chl ± alb ± ca veins/flooding locally ep drusy, 1-2 cm wide alb veins and moderate albitization (pale cream to pinkish colour, cloudy-mottled texture) throughout. Ep-qtz veins appear to partially cross cut alb veins  88.0 m: 10 cm wide pale pink aplitic feldspar porphyry dykelet												72870	169.0	171.0	0.01	-	0.2	5
			72871	171.0	173.0	0.01	-	0.2	5											
			72872	173.0	175.0	0.01	-	0.2	5											
			72873	175.0	177.0	0.01	-	0.2	5											
			72874	177.0	179.0	0.01	-	0.2	5											
			72875	179.0	181.0	0.02	-	0.2	5											
			72876	181.0	183.0	0.02	-	0.2	5											
			72877	183.0	185.0	0.01	-	0.1	5											
			72878	185.0	187.0	0.01	-	0.1	5											
			72879	187.0	189.0	0.01	-	0.1	5											
		72880	189.0	191.0	0.01	-	0.1	5												
		72881	191.0	193.0	0.03	-	0.1	5												
		72882	193.0	195.0	0.01	-	0.1	5												
		72883	195.0	197.0	0.02	-	0.1	5												
		72884	197.0	199.0	0.03	-	0.1	5												
		72885	199.0	201.0	0.02	-	0.1	5												
		72886	201.0	203.0	0.02	-	0.1	5												
		72887	203.0	205.0	0.01	-	0.1	5												
		72888	205.0	207.0	0.05	-	0.1	5												
		72889	207.0	209.0	0.05	-	0.1	5												
		72890	209.0	211.0	0.01	-	0.1	5												
		72891	211.0	213.0	0.01	-	0.1	5												
		72892	213.0	215.0	0.02	-	0.1	5												
		72893	215.0	217.0	0.03	-	0.1	5												
		72894	217.0	219.0	0.03	-	0.1	5												
		72895	219.0	221.0	0.01	-	0.1	5												
		72896	221.0	223.0	0.01	-	0.1	5												
72897	223.0	225.0	0.08	-	0.1	5														
72898	225.0	227.0	0.03	-	0.1	5														
72899	227.0	229.0	0.02	-	0.1	5														
72900	229.0	231.0	0.13	-	0.1	5														
72901	231.0	233.0	0.01	-	0.1	5														
72902	233.0	235.0	0.04	-	0.1	5														
72903	235.0	237.0	0.01	-	0.1	5														
72904	237.0	239.0	0.01	-	0.1	5														
72905	239.0	241.0	0.02	-	0.1	5														
72906	241.0	243.0	0.02	-	0.1	5														
72907	243.0	245.0	0.01	-	0.1	5														
72908	245.0	247.0	0.01	-	0.1	5														
72909	247.0	249.0	0.01	-	0.1	5														
72910	249.0	251.0	0.01	-	0.1	5														
72911	251.0	253.0	0.01	-	0.1	5														
72912	253.0	255.0	0.02	-	0.1	5														
72913	255.0	257.0	0.08	-	0.1	5														
72914	257.0	259.0	0.21	-	0.1	5														
		139.0-141.0 m: Strong fault brecciation/thick clay-ser-ca-crushed/milled comminuted chl-ep-qtz veins and Guichon Qtz Diorite. Slips 20-30° C.A.																		
		144.0-152.5 m: Dominantly dark grey, fine grained, moderately magnetic. Qtz Diorite (possibly autolith or xenolith block). Moderately altered -- mafics (10-20% of rock) altered to chl-ca-ser-mag-spec/hem ± ep, feldspars altered to ser ± alb ± ca.																		

Depth (m)		Description	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)		
From	To														From	To						
153.0	181.5	<i>cont'd sub-interval 144.0-152.5 m</i>												72915	259.0	261.0	0.14	-	0.1	5		
		Abundant ep-qtz-alb-chl ± ca ± K-spar (?) veins throughout (4 mm-2 cm wide, 35-45° C.A.) Weak lim on chl-ser-ca clay fractures (20-40° C.A.)													72916	261.0	263.0	0.02	-	0.1	5	
		150.7 m Coarse grained cpy grains (with silver-grey metallic (Cc?) and deep red-brown (lim) nnds/interstitial growths) and mal/az in broken-crushed ep-qtz-chl vein (cross cutting Guichon Qtz Diorite phase)														72917	263.0	265.0	0.01	-	0.1	5
		152.0-153.0 m: Light brown-grey sand with scattered fragments of weakly altered (chl-ser-mag/spec) Granodiorite (Bethlehem phase?) angular, broken, 2-6 cm in approximate diam.														72918	265.0	267.0	0.01	-	0.1	5
																72919	267.0	269.0	0.01	-	0.1	5
																72920	269.0	271.0	0.01	-	0.1	5
																72921	271.0	273.0	0.01	-	0.1	5
																72922	273.0	275.0	0.01	-	0.1	5
																72923	275.0	277.0	0.01	-	0.1	5
																72924	277.0	279.0	0.01	-	0.1	5
																72925	279.0	281.0	0.02	-	0.1	5
																72926	281.0	283.0	0.01	-	0.1	5
																72927	283.0	285.0	0.01	-	0.1	5
																72928	285.0	287.0	0.10	-	0.1	5
																72929	287.0	289.0	0.01	-	0.1	5
																72930	289.0	291.0	0.03	-	0.1	5
																72931	291.0	293.0	0.04	-	0.1	5
																72932	293.0	295.0	0.08	-	*only 6	
																72933	295.0	297.0	0.03	-	0.1	5
																72934	297.0	299.0	0.06	-	0.1	5
														72935	299.0	301.0	0.10	-	0.1	5		
														72936	301.0	303.0	0.02	-	0.1	5		
														72937	303.0	305.0	0.01	-	0.1	5		
														72938	305.0	307.0	0.01	-	0.1	5		
														72939	307.0	309.0	0.01	-	0.1	5		
														72940	309.0	311.0	0.01	-	0.1	5		
														72941	311.0	313.0	0.02	-	0.1	5		
														72942	313.0	315.0	0.02	-	0.1	5		
														72943	315.0	317.0	0.04	-	0.1	5		
														72944	317.0	318.5	0.02	-	*12 samples			
<b>END OF ASSAY INFORMATION</b>																						

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
181.5	209.5	<p>Compositionally variable medium ± fine grained Qtz (Monzo-) Diorite (10-18% Qtz)-Bethlehem. (Guichon border phase?) variety; possibly autooliths of similar units (diffusive/digested contacts between units/fragments (?)). Bleach white/grey to pale pink-green (locally medium grey). 8-15% mafics (Hbl&gt;Bio) in medium grained unit, 10-20% mafics (hbl&gt;&gt;bio) in finer grained unit. <b>Moderate</b> to strong alteration (feldspars altered to chl-ser-ca + spec + ep + py &gt; cpy &gt; bo (rare)). 0.5-1 cm wide ep + qtz blotches/irregular vein selvages throughout. Fracture sets (8-12 per metre, 30-50o C.A., chl-clay-ca-ser fill). Local qtz-ep-chl ± ca ± cpy (&gt;py&gt;bo) veinlets, 30-50o C.A., &lt; 1-8 mm wide. Generally, chl-ep-qtz-alb-cpy (&gt;py&gt; bo) increases down section.</p> <p><b>191.4 m:</b> Trace pale blue-green mal/az on fractures</p> <p><b>196.0-198.0 m:</b> Strong to intense chl-ep-alb alteration (dark green-black) with trace cpy ± bo mafic replacement and qtz-ep-chl veinlets fill (~ 0.5% cpy, ~0.1% bo total).</p> <p><b>200.0-202.0 m:</b> Intense qtz-ep-chl ± alb ± (possible hydrothermal gamet – pink/rose coloured mineral associated with qtz-ep) ± cpy (&lt;0.1% overall) flooding and veining (30-40o C.A.). Strong pervasive alb-chl-ca alteration of wallrock.</p> <p><b>205.0-209.5 m:</b> Strong to intense chl-ep-qtz-ca-ser flooding/veining (~ 20-30o C.A.) – possibly shear/breccia healing. Rock appears deep green-black with green ep patches throughout. Average 0.5% py ≥ cpy as medium to coarse blebs in qtz-chl-ep veining.</p>	<0.1	<0.1	<0.1	-1	2	3	3	4	2	10	-1	cont'd core logging						
209.1	242.0	<p>Medium grained qtz (monzo-) Diorite - Granodiorite (Bethlehem border phase). Decrease in py-cpy (&lt;&lt;0.05%). Pale grey-cream colour up section (moderate to strong chl-ep-ser-ca-clay-qtz-alb alteration ) grading ~ 217.0 m into a pale dark grey/orange, mottled texture (moderately to strongly chl-ser-ca-ep-spec/hem alteration). Well fractured/broken (fracture sets ~ 30-60o C.A. with chl-clay-ca-ser ± ep ± hem (down section) fill/coating). Locally crushed and weakly brecciated. Ep-chl-qtz ± ca veinlets (&lt;1 mm-1 cm wide) and ca stringer veinlets (&lt;1 mm wide) throughout (both ~ 30-45o C.A.) – commonly with pale orange Fe-stain (K-spar?) selvages. Magnetism increases from ~ 220.0 m (increases in spec/hem) – possibly Guichon variety stopes/blocks masked by strong alteration? Rare clay-hem-ca slips ~ 30o C.A.</p> <p><b>222.0-226.5 m:</b> Increase in Fe-staining and brick-red hem as fractures. Trace py ≥ cpy (&lt; 0.05%) fracture fill – rare mafic replacement in selvages. Weak brecciation.</p> <p><b>224.5 m &amp; 225.0 m:</b> 1 cm wide qtz-cpy (beaded in core, ~5-10 %) ± py ± mo (rare) ± ca veins ~ 30o C.A.</p> <p><b>226.5-242.0 m:</b> Moderate to strong fault breccia/gouge; poorly healed with clay-ser-ca-hem-chl ± lim (rare), locally moderately healed with qtz-ep-chl ± ca ± cpy &gt; py (0.05-0.1% overall) veins (commonly re-brecciated). Clay-hem-ca-chl shears/slips ~ 20-30o C.A. Chl-ep-ser-ca-clay ± spec alteration and weak to moderate Fe-stain contains (with ep decreasing and Fe-stain/hem increasing down section). 0% RQD.</p>	<0.05	<0.05	-1	-1	1	3	3	4	3	<2	-1							

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
242.0	253.5	<p>Medium (fine) grained, light grey qtz Monzodiorite (Bethlehem border phase?). Weakly feldspar-mafic porphyritic with interstitial qtz-K-spar -- finer mafics groundmass. 10-15% mafics (hbl&gt;&gt;bio), 15-20% qtz. Orange K-spar grains/splotches (to 5 mm in diam.) throughout, local orange-pink aplitic veins (?) &lt; 6 mm wide at irregular C.A. Overall, moderately altered (chl-ser-clay-ep-spec (after mag inclusions)-ca-py (rare - &lt;0.05% total)). Strong fracture/vein controlled (chl-qtz-ep-ca + ser ± py, 20-40o C.A.) albitization throughout giving approx. 60% of unit a bleach-white to pale creamy-grey colour. Non-magnetic where albitized. Moderately fracture (8-12 per metre at 25-45o C.A. with chl-clay-ca-ser ± weak lim coatings.)</p> <p>249.5 m &amp; 253.3 m: Light green-grey clay-ser-ca ± chl ± lim fault gouge approximately 5 cm wide ~ 45-65o C.A. Note: ca veinlets ~ 50o C.A. cross cut and off set chl-qtz-ep ± ca ± ser veinlets ~ 30o C.A.</p>	<0.05	<0.05	-1	-1	1	3	3	3	3	10	-1	cont'd core logging						
253.5	262.5	<p>Light to medium grey to pale grey-green (Bio)-Hbl-Fsp Crowded Porphyry (D3?). Medium grained, non-magnetic, fine grained hbl-qtz-fsp groundmass. <b>Moderately</b> to strongly pervasive chl-ser-ep-ca-clay-alb (locally strong) alteration; 0.05-0.1% cpy&gt;py mafic replacement/fracture fill localized where fracture controlled albitization/chloritization is strongest. Local pink-green clots throughout (ep + hydrothermal garnet). Strongly fractured (30-50o C.A. with chl-clay-ser ± ca ± lim coating). Brecciated throughout, clay-ser ± ca ± lim gouge with lips ~ 50o C.A.</p> <p>254.5 m: ep-qtz-chl-hydrothermal garnet (?) flooding (shear heal?) ~ 30o C.A., 2 cm wide.</p> <p>259.0-261.5 m: 0.1-0.5% cpy, &lt;0.1% mo as fine to medium blebs throughout intense chl-(tour?)-ep-alb-qtz flooded breccia heal/fill. Rock dark green-black, well broken crushed locally.</p>	<0.1	<0.1	-1	-1	1	3	3	4	3	0	-1							
262.5	278.0	<p>Pale grey-green Bio-Hbl (?) Feldspar Porphyry. Non-magnetic. Upper contact sub-parallel (~ 30o C.A.) with clay-chl-ca-ser gouge. Strong pervasive epidotization of mafics (~100% - identification difficult) and feldspars (0-80% of grains). Moderate to strong chl-ca-clay ± ser ± cpy (rare - mafic replacement of local bio clots) alteration. Overall green ep spotted appearance. Ep decreasing down section (10-30% replacement overall). Weak Fe-staining of feldspars down section.</p> <p>265.3 m: 2-3 cm wide coarse ca open-space fill (~ 50o C.A.). Ca-clay ± hem</p> <p><b>cont'd sub-interval 265.3 m</b></p> <p>fracture sets and ca ± ep ± chl ± ser veinlets subparallel to 50o C.A. (average 30-50o C.A.) throughout.</p> <p>274.0-278.0 m: Spec/hem &gt; ep as mafic replacement/oxidation product. Increased brecciation (0% RQD). Unit has deeper brown-grey colour. Increase in ca veinlets/fracture fill. Deep red-brown hem on fractures and throughout. Local poorly healed fault breccia/gouge (clay-ser-ca-chl), slips ~ 30-50o C.A.</p> <p>276.0 m: 2 cm wide qtz-ep vein ~ 30o C.A. cross cut by smaller ca veinlets.</p> <p>No visible sulphides.</p>	-1	<0.1	-1	<0.05	1	2	2	4	3	12	-1							

Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To														From	To				
278.0	318.5	<p>Medium grey Bio-Hbl Fsp crowded Porphyry (D3?), medium grained with a fine grained hbl-qtz-feldspar-mag groundmass. Local hbl-needle clots throughout. Moderately magnetic. Variable fracturing (~ 30-50o C.A. with chl-ca-clay ± ser ± qtz ± lim coating) -- generally decreasing down section. Possible mo smeared (rare) on slips towards EOH. 1-3% mag disseminated and mafic inclusions. Alteration intensity decreasing down section (see below).</p> <p><b>278.0-289.0 m:</b> Brecciated and chilled (?) crowded Porphyry with minor amounts of previous feldspar unit -- well healed with intense chl-ep-qtz ± ca ± hem flooding/veining -- 30-50o C.A. Ep spots + clot/replacement common -- decreasing down section. Moderate to strong chl-ca-ser ± ep ± spec (after mag) alteration. Abundant red-brown hem on fractures/slips. Ca ± hem veinlets/fracture fill throughout -- 40-50o C.A. Overall dark grey-green with fractures ± ep-qtz-chl vein controlled orange Fe-staining locally.</p> <p>283.0 m: Grey clay-ca gouge -- 40o C.A. with 0.5-1% py ± cpy crushed throughout.</p> <p>283.5-286.5 m: <b>Strong</b> fault breccia/shearing -- 20-40o C.A. Locally brecciated and crushed qtz-cpy (0.5-2%) veins. Clay-ca-hem-ser-chl gouge throughout.</p> <p><b>289.0-302.0 m:</b> Pervasive pale to medium orange Fe-stain -- decrease slightly down section. Ep-qtz-chl ± ca (breccia?) veins/fracture fill 10-20 per metre, commonly blotchy and irregular, &lt; 1mm-2 cm wide, 20-60o C.A., rare beaded cpy &gt; mo blebs (0.1-1% locally) -- subparallel-30o C.A. dominate down section. Strong chl-ep-ser-ca ± spec (after mag inclusions) alteration (pervasive) -- decreasing to moderate to strong down section. 8-12 fractures per metre.</p> <p>297.5-297.8 m: Ep-qtz-chl-ca flooding</p> <p>299.0 m: Light grey clay-ser-chl-ca ± hem fault gouge with slip -- 30-40o C.A. Crushed/milled qtz-ca-cpy (0.5%) veinlet.</p> <p>300.3 m: 2 cm wide pale cream-orange Fe-stained alb-qtz vein -- 30o C.A. with 0.5% finely disseminated cpy, &lt; 0.1% mo throughout. Cross cut by 1-3 mm wide ep-qtz-ca (drusy) ± cpy (0.2%) veinlets -- 20-30o C.A. Note: selvage wallrock contains trace cpy mafic replacement.</p> <p><b>302.0-318.5 m: Moderate</b> (locally strong) chl-ser-ca-ep-spec-cpy (rare) alteration (pervasive). Medium grey to pale grey-orange down section (weak Fe-stain).</p> <p><b>cont'd sub-interval 302.0-318.5 m</b></p> <p>Magnetic (finely disseminated mag throughout). Decreased fracturing (4-8 per metre, 20-50o C.A., chl-ca-clay-ser coating). Subparallel to 30o C.A. ep-ca-qtz-chl ± cpy (&lt;0.1% total) veins throughout with pink hematized selvages locally. Possible K-spar increase from 310.0-316.0 m (pink-orange speckles) reflecting compositional variation.</p> <p>313.0-318.5 m: Cpy increase (0.1-0.5% locally) as chl-ep-qtz-ca vein/fracture fill and as selvage mafic replacement.</p> <p style="text-align: center;"><b>EOH 318.5 m</b></p>	-1	<0.1	-1	<0.05	2	3	3	4	2	14	-1	cont'd core logging						

**Diamond Drill Log**

Project: Globe-Transvaal  
 Hole #: GL96-4  
 Date: 31-Oct-96  
 Logged by: R. Whiteaker

Northing: 5602930  
 Easting: 640425  
 Elevation: 1798 m  
 Length: 333.7 m

-1 = absent  
 1 = background/fresh  
 2 = weak 4 = strong  
 3 = moderate 5 = intense

	Azm	Dip
Collar	090	45

Core: NQ2

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays						
From	To														Sample Number	Interval (m) From To	%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)	
0	6.1	Overburden/casing													72945	6.1	10.0	0.01	-	0.1	5
															72946	10.0	12.0	0.01	-	0.1	5
6.1	37.9	Light grey-pale orange, medium grained Qtz-(Monzo-) Diorite (Guichon variety with slightly less mafics [5-10% Bio>Hbl] -- possibly transitional phase between Highland Valley and Guichon Qtz-Diorite) Note upper 5 cm contains rounded piece of light grey, weakly altered Feldspar Porphyry Non-magnetic. High proportion of pale-bright orange due to fracture/slip controlled Fe-staining of feldspars Moderate alteration (pervasive and fracture fill chl-ser-ca-spec-clay + ep ± qtz (not pervasive)) 1-2% finely disseminated spec throughout (after mag?) Rare qtz-ep veinlets ~ 20-30° C.A., 1-4 mm wide with strong ep-ser-chl altered mafics in selvages. Fracture sets ~ 30-65° C.A., 12-16 per metre (note: unit very easily splinters/breaks) with moderate strong lim/hem clay-ser-ca coatings. Locally well broken and crushed with soft clay-ser-ca-lim-chl gouge/slips (~ 20-40° C.A.) Moderately weathered up section decreasing down section (rock soft, gritty, easily crumbled). Generally, spec decreases slightly, ser increases slightly, moderate lim/hem continues down section. Pinkish-grey towards end of interval.	G	-1	-1	-1	-1	-1	3	2	3	3	4	-1	72947	12.0	14.0	0.01	-	0.1	5
															72948	14.0	16.0	0.01	-	0.1	5
															72949	16.0	18.0	0.01	-	0.1	5
															72950	18.0	20.0	0.01	-	0.1	5
															72951	20.0	22.0	0.02	-	0.1	5
															72952	22.0	24.0	0.02	-	0.1	5
															72953	24.0	26.0	0.01	-	0.1	5
															72954	26.0	28.0	0.01	-	0.1	5
															72955	28.0	30.0	0.01	-	0.1	5
															72956	30.0	32.0	0.03	-	0.1	5
															72957	32.0	34.0	0.01	-	0.1	5
															72958	34.0	36.0	0.02	-	0.1	5
															72959	36.0	38.0	0.01	-	0.1	5
															72960	38.0	40.0	0.02	-	0.1	5
37.9	64.0	Medium grey (Bio)-Hbl-Feldspar Porphyry Dyke (D3?). Pink and pale green mottled (Fe-stain-ser) colour and texture. Upper contact approximately 35-45° C.A. Moderate chl-ser-ca-spec-clay-ep alteration. Lim on fractures 40-60° C.A. 0.5-1% finely disseminated spec throughout and as mafic replacement (after mag inclusions?). Sparsely crowded texture. Well broken/fractured (30-50° ± 10-20° C.A. with chl-ca-ser-lim-hem fill). Moderate brecciation and clay-ser-ca-lim-chl gouge (increases after 40 m) with slips/shear planes ~ 30-50° C.A. Local qtz-ep veins 1 cm wide ~ 50-70° C.A. with strong chl-ser-ca-ep altered selvages to ~ 3 cm. 49.6 m. Qtz-ep-ca-hem-chl healed shear/breccia ~ 40° C.A. (approximately 10 cm wide). Rock becoming more broken/fractured and brecciated down section. Fe-stain (pervasive) increases down section. 50.8-51.7 m & 52.5-55.0 m: Hbl-Bio-Feldspar Porphyry dyke (not packed texture). Deep brown-grey. Glassy (chilled?) translucent groundmass. Moderate to strong chl-ser-spec-ca-ep alteration (pervasive). 0% RQD. Weak to moderate Fe-staining of feldspars. Lim-hem on fractures with chl-clay-ser-ca. Local clay-ca-lim slips ~ 30-50° C.A. Contacts ~ 35-50° C.A. (cross cutting D3 probable). 56.5-58.0 m: Strong Fe-staining of D3 unit -- bright orange-pink. Strong lim on fractures and clay-ca-ser slips ~ 40° C.A. 58.0-64.0 m: D3: Increased ser alteration of feldspars (pale green-yellow). Decreased spec disseminated (after mag?). Moderate to strong chl-ser-ca-spec alteration of mafics. Fracture controlled orange Fe-staining (not as strong pervasively as up section). Weak to moderate lim ± hem on fractures. 0% RQD. 64.0 m: 1.5 cm wide qtz-ep vein ~ 55° C.A. with strong chl-ser-ca ± ep altered	CFP	-1	-1	-1	-1	-1	3	3	3	3	<2	-1	72961	40.0	42.0	0.01	-	0.1	5
															72962	42.0	44.0	0.02	-	0.1	5
															72963	44.0	46.0	0.01	-	0.1	5
															72964	46.0	48.0	0.03	-	0.1	5
															72965	48.0	50.0	0.02	-	0.1	5
															72966	50.0	52.0	0.01	-	0.1	5
															72967	52.0	54.0	0.01	-	0.1	5
															72968	54.0	56.0	0.01	-	0.1	5
															72969	56.0	58.0	0.01	-	0.1	5
															72970	58.0	60.0	<.01	-	0.1	5
															72971	60.0	62.0	0.01	-	0.1	5
															72972	62.0	64.0	<.01	-	0.1	5
															72973	64.0	66.0	<.01	-	0.1	5
															72974	66.0	68.0	<.01	-	0.1	5
															72975	68.0	70.0	0.01	-	0.1	5
															72976	70.0	72.0	0.01	-	0.1	5
															72977	72.0	74.0	0.01	-	0.1	5
															72978	74.0	76.0	<.01	-	0.1	5
															72979	76.0	78.0	<.01	-	0.1	5
															72980	78.0	80.0	0.01	-	0.1	5
															72981	80.0	82.0	0.01	-	0.1	5
															72982	82.0	84.0	0.01	-	0.1	5
															72983	84.0	86.0	0.01	-	0.1	5
															72984	86.0	88.0	0.01	-	0.1	5



Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)	
From	To															From	To					
		<b>cont'd sub-interval 58.0-64.0 m</b>														72985	88.0	90.0	0.01	-	0.1	5
		selvage to 10 cm														72986	90.0	92.0	0.02	-	0.1	5
		62.8-63.2 m Well healed (ser-chl-ca-ep) fault breccia with deep red-brown hematitic clay-ser-ca slips ~ 30° C.A														72987	92.0	94.0	0.02	-	0.1	5
																72988	94.0	96.0	0.02	-	0.1	5
																72989	96.0	98.0	0.07	-	0.1	5
64.0	73.0	70-90% Deep brown-grey Hbl-Bio-Feldspar Porphyry Dyke Cross cutting in/out of pinkish -orange (Fe-stain) to medium grey (Bio)-Hbl-Feldspar "Crowded" porphyry (D3 - Guichon relation?) D3 possibly stoped in Hbl-Bio-Fsp Porphyry Dyke Both units moderate to strong chl-ser-ca-spec-clay-ep altered with Fe-staining of feldspars common throughout Well fractured /broken (30-50° C.A) and locally crushed. Moderate to strong lim-hem on fractures with clay-ser-chl-ca Weakly (locally moderate) brecciation with clay-ca-ser-lim-hem breccia fill and gouge.														72990	98.0	100.0	0.01	-	0.1	5
																72991	100.0	102.0	0.02	-	0.1	5
																72992	102.0	104.0	<.01	-	0.1	5
																72993	104.0	106.0	<.01	-	0.1	5
																72994	106.0	108.0	0.01	-	0.1	5
																72995	108.0	110.0	0.04	-	0.1	5
																72996	110.0	112.0	0.02	-	0.1	5
																72997	112.0	114.0	0.01	-	0.1	5
73.0	99.0	Deep grey-brown Hbl-Bio-Feldspar Porphyry (as above) Non-magnetic (mafic weakly). Mafics 5-10% Pervasive moderate to strong ser-chl-clay-spec (after mag?) ca alteration; locally mafics 80-90% spec. commonly mafics are soft gel-green ser ± chl ± clay. Weak to moderate pervasive Fe-staining of feldspars throughout. Fracture sets ~ 35-55° C.A. limonitic (± hem) with clay-ca-ser-chl fill (weak brecciation causing hair-like clay-ca-lim fracture fill throughout). Local clay-ser-chl-ca-lim ± hem slips ~ 40-60° C.A. Visual compositional changes down section (function of alteration differences?) -- unit takes on a slightly packed/crowded texture; plagioclase phenocrysts rounded/diffuse edges; higher mafic composition (8-12%) between larger feldspars.														72998	114.0	116.0	0.03	-	0.1	5
																72999	116.0	118.0	0.04	-	0.1	5
																73000	118.0	120.0	0.04	-	0.1	5
																73001	120.0	122.0	0.05	-	0.1	5
																73002	122.0	124.0	0.01	-	0.1	5
																73003	124.0	126.0	0.01	-	0.1	5
																73004	126.0	128.0	0.01	-	0.1	5
																73005	128.0	130.0	0.02	-	0.1	5
																73006	130.0	132.0	0.07	-	0.1	5
																73007	132.0	134.0	0.20	-	0.1	5
		80.5-81.0 m: Deep to pale green ser-chl-ca healed shear (~ 20° C.A). Hem ± lim filling fractures throughout. 3-5 mm wide ca-ser-chl veinlet in core of shearing with a clay-ser-hem slip along envelope (both ~ 20° C.A.)														73008	134.0	136.0	0.47	-	0.1	5
																73009	136.0	138.0	0.05	-	0.1	5
																73010	138.0	140.0	0.02	-	0.1	5
		81.0-85.5 m: Strong to locally intense deep yellow-red/brown lim ± hem on fractures. Ser alteration of feldspars increasing to a deep gel-green colour, soft texture. 0.1-0.5% py mafics replacement -- locally (predominant adjacent/through lim fractures) mafics 10-80% replaced with intense lim rinds.														73011	140.0	142.0	0.01	-	0.1	5
																73012	142.0	144.0	0.02	-	0.1	5
																73013	144.0	146.0	0.01	-	0.1	5
																73014	146.0	148.0	0.01	-	0.1	5
		85.5-96.5 m: Increased ser alteration; plagioclase soft gel-green. Overall dark green to deep grey-brown. Weakly brecciated/crushed with clay-ser-ca-chl ± hem fracture fill and matrix. 0 % RQD. Local ser-chl veinlets (< 4 mm wide) and clay-ser-ca-hem slips ~ 20-40° C.A. No lim. ~ 0.1-0.5% py (>>cpy) mafics replacement/fracture fill from 85.5-93.0; 0.1-1% (locally) py ≥ cpy mafic replacement/fracture fill from 93.0-96.5 m (cpy increases down section).														73015	148.0	150.0	0.01	-	0.1	5
																73016	150.0	152.0	0.01	-	0.1	5
																73017	152.0	154.0	0.01	-	0.1	5
																73018	154.0	156.0	0.01	-	0.1	5
																73019	156.0	158.0	0.01	-	0.1	5
																73020	158.0	160.0	0.01	-	0.1	5
		96.5-99.0 m: Intense pervasive ser-chl-ca alteration. Deep green colour. Weak to moderately brecciated -- well healed with ser-chl-ep-ca-hem breccia/fracture fill. No visible sulphides.														73021	160.0	162.0	0.02	-	0.1	5
																73022	162.0	164.0	0.02	-	0.1	5
																73023	164.0	166.0	0.01	-	0.1	5
																73024	166.0	168.0	0.01	-	0.1	5
																73025	168.0	170.0	0.01	-	0.1	5
																73026	170.0	172.0	0.01	-	0.1	5
																73027	172.0	174.0	0.02	-	0.1	5
																73028	174.0	176.0	0.02	-	0.1	5
																73029	176.0	178.0	0.02	-	0.1	5
																73030	178.0	180.0	0.02	-	0.1	5
																73031	180.0	182.0	0.04	-	0.1	5
																73032	182.0	184.0	<.01	-	0.1	5

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To															From	To				
99.0	114.5	Moderately brecciated/crushed Guichon variety Qtz-Diorite. Strong pervasive ser-chl-ca-clay-spec alteration and Fe-staining masks much of the textural qualities of unit. Non-magnetic. Weakly equigranular. 8-12% mafics. Breccia moderately to well healed with strong ser-chl-ca-clay-hem breccia matrix/fracture fill. Brecciation/fractures and slips - subparallel to 30° C.A. -0.1-0.5% cpy>py in ser-chl-ca fracture fill and mafic replacement (fracture controlled). Locally cpy with purple tannish. <b>107.0-114.5 m:</b> Pervasive orange-pink Fe-staining increases, ser-chl decreases slightly (moderate to strong). Cpy-py absent. Rock predominantly weakly brecciated and crushed with ser-clay-ca-chl-hem fracture/breccia matrix.	G	0.1	0.2	-1	-1	-1	4	4	4	3	<5	-1	73033	184.0	186.0	<.01	-	0.1	5
															73034	186.0	188.0	0.01	-	0.1	5
															73035	188.0	190.0	0.02	-	0.1	5
															73036	190.0	192.0	<.01	-	0.1	5
															73037	192.0	194.0	0.01	-	0.1	5
															73038	194.0	196.0	<.01	-	0.1	5
															73039	196.0	198.0	<.01	-	0.1	5
															73040	198.0	200.0	0.01	-	0.1	5
															73041	200.0	202.0	0.01	-	0.1	5
															73042	202.0	204.0	0.01	-	0.1	5
114.5	121.0	Strongly hematized (pervasive mottled orange-red) "Crowded" Feldspar Porphyry. Weak to moderate brecciation (well healed). Moderate to strong pervasive to fracture/breccia controlled ser-ca ± clay ± chl ± spec alteration has clouded and commonly obliterated mafics-feldspars. Ser-ca (locally drusy) - chl veinlets/fracture fill - 30-55° C.A., < 1 mm wide. Locally cross cut and offset 2-4 mm wide, subparallel ser-chl veinlets. Moderately fractured (8-12 per metre, - 30-60° C.A. ± subparallel). <b>118.5-121.0 m:</b> Increased brecciation. Red-orange green-grey mosaic texture throughout due to strong variable ser-clay-ca-chl alteration -- Fe-stain/hem (well healed breccia-fracture fill). Rock remaining fairly competent (well healed) - 8-12 fractures per metre. Local metallic grey breccia vein/fracture fill -- possibly Cc or mo.	CFP	-1	-1	-1	-1	1	4	3	3	3	10	-1	73043	204.0	206.0	0.01	-	0.1	5
															73044	206.0	208.0	0.01	-	0.1	5
															73045	208.0	210.0	0.01	-	0.1	5
															73046	210.0	212.0	0.01	-	0.1	5
															73047	212.0	214.0	<.01	-	0.1	5
															73048	214.0	216.0	<.01	-	0.1	5
															73049	216.0	218.0	<.01	-	0.1	5
															73050	218.0	220.0	0.02	-	0.1	5
															73051	220.0	222.0	0.04	-	0.1	5
															73052	222.0	224.0	0.01	-	0.1	5
															73053	224.0	226.0	0.01	-	0.1	5
121.0	164.3	(Fault-) zone of strongly (locally moderate) sheared and brecciated Guichon variety Qtz-Diorite (possibly Hybrid phase). Colour veins throughout: medium dark green to pale green-grey, becoming orange-grey down section (hem). Strong to locally intense pervasive ser-clay-ca-spec/hem ± chl alteration of Guichon. Intensity of brecciation and displacement variable - locally (< 20%) well healed with minor crush/milling; predominantly poor to moderately well healed (clay-ser-ca-hem) with crushed and milled subangular to subrounded wallrock -5 mm-2 cm in diam. Primary texture -- gritty and easily crumbled with strong interstitial clay-hem-ser-ca breccia matrix weaving between milled/comminuted Guichon fragments subparallel to 30° C.A. Where competent, fracture sets ~ 30-60° C.A. with clay-ser-ca ± hem coating. Mineralization absent except where noted below. Clay-ser-ca ± hem slips/shear planes ~ 30-50° C.A. occur throughout. Ser-ca-hem ± spec ± chl breccia veins ~ 20-50° C.A. throughout (varied thickness, locally brecciated). <b>121.0-129.5 m:</b> Strongly sheared -- crushed, milled subparallel to 20° C.A. Subangular fragments of Qtz-Diorite + above mentioned "crowded" feldspar porphyry (3 mm-1.5 cm in approximate average diam.) with a poor to moderately healed matrix of intense clay-ser-ca-hem (pervasive purple-red down section). Chalky white ca veins (shear fill?), 0.5-1 cm wide, subparallel to 20° C.A. (weakly to non-brecciated). <b>132.0-35.5 m:</b> 0.1-1% soft, silver-grey metallic, non-magnetic mafic replacement -- mo or cc. Not spec. <b>135.5-141.0 m:</b> Ca-qtz (discrete crystals) ± cpy (0.5-0.8% locally) ± mo (Cc?) (0.1-0.5% locally) veins, 30-40° C.A., 3 mm/0.5 cm wide, 3-4 per metre. Locally ca-drusy (open space fill?). Commonly twisted and follow irregular patterns (syn-breccia formation?). <b>141.0 m:</b> 20° C.A. shear plane. Intense clay-ser-ca ± chl gouge/breccia matrix. <b>143.2-149.5 m:</b> Weak to moderate brecciation of Guichon Qtz-Diorite. Strong	G/CFP FAULT?	-1	<0.05	-1	-1	-1	4	4	3	4	<3	-1	73054	226.0	228.0	0.01	-	0.1	5
															73055	228.0	230.0	0.01	-	0.1	5
															73056	230.0	232.0	0.01	-	0.1	5
															73057	232.0	234.0	0.01	-	0.1	5
															73058	234.0	236.0	0.02	-	0.1	5
															73059	236.0	238.0	0.01	-	0.1	5
															73060	238.0	240.0	0.02	-	0.1	5
															73061	240.0	242.0	0.02	-	0.1	5
															73062	242.0	244.0	0.01	-	0.1	5
															73063	244.0	246.0	0.01	-	0.1	5
															73064	246.0	248.0	0.02	-	0.1	5
															73065	248.0	250.0	0.02	-	0.1	5
															73066	250.0	252.0	0.03	-	0.1	5
															73067	252.0	254.0	0.04	-	0.1	5
															73068	254.0	256.0	0.06	-	0.1	5
															73069	256.0	258.0	0.14	-	0.1	5
															73070	258.0	260.0	0.10	-	0.1	5
															73071	260.0	262.0	0.10	-	0.1	5
															73072	262.0	264.0	0.04	-	0.1	5
															73073	264.0	266.0	0.02	-	0.1	5
															73074	266.0	268.0	0.02	-	0.1	5
															73075	268.0	270.0	0.01	-	0.1	5
															73076	270.0	272.0	<.01	-	0.1	5
															73077	272.0	274.0	0.02	-	0.1	5
															73078	274.0	276.0	0.01	-	0.1	5
															73079	276.0	278.0	0.01	-	0.1	5
															73080	278.0	280.0	<.01	-	0.1	5

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)
From	To															From	To				
		<b>cont'd sub-interval 143.2-149.5 m</b>													73081	280.0	282.0	0.02	-	0.1	5
		pervasive orange-red Fe-staining. 10% RQD. Abundant ca + ser veins (breccia veins?) < 2-6 mm wide, twisting throughout rock 10-30° C.A. 0.5-2% finely disseminated spec (after mag?) No sulphide mineralization. Breccia increases towards end of sub-interval. Non-magnetic.													73082	282.0	284.0	0.02	-	0.1	5
		<b>149.5-151.4 &amp; 154.0-156.5 m:</b> Intense fault brecciation. Guichon wallrock crushed, milled and comminuted to subrounded fragments.													73083	284.0	286.0	0.02	-	0.1	5
		<b>161.5-164.3 m:</b> < 1-3 mm in diam (lesser fragments up to 3 cm in diam). Matrix supported (clay-ca-ser ± hem). Local brecciated 0.5-2 cm wide ca veins. Possibly re-brecciation event. Brecciated fragments exhibit various styles of alteration (moderate to intense ser-chl-ca and Fe-staining). Note: 161.5-164.3 m sub-interval pale grey-cream colour due to increased clay-ser and decreased hem, weakly brecciated ca ± ser ± spec (fine blades) ± qtz veins 20-40° C.A.													73084	286.0	288.0	0.03	-	0.1	5
															73085	288.0	290.0	0.02	-	0.1	5
															73086	290.0	292.0	0.04	-	0.1	5
															73087	292.0	294.0	0.01	-	0.1	5
															73088	294.0	296.0	0.02	-	0.1	5
															73089	296.0	298.0	0.01	-	0.1	5
															73090	298.0	300.0	0.01	-	0.1	5
															73091	300.0	302.0	0.02	-	0.1	5
															73092	302.0	304.0	0.01	-	0.1	5
															73093	304.0	306.0	0.02	-	0.1	5
															73094	306.0	308.0	0.01	-	0.1	5
164.3	203.0	Medium grained Bio-Hbl-Qtz Diorite (Guichon variety -- possibly Highland/Bethlehem border phase). Upper contact - strongly hematitic clay slip ~ 30° C.A. Weakly magnetic (non-magnetic where alteration is intense). 10-15% mafics (hbl ≥ bio). Pale green-grey (with local fracture controlled orange Fe-stain) to deep grey-grey (all due to variable alteration intensity throughout). Overall, strong to intense pervasive ser-chl-ca-spec (after mag?) - clay alteration. Local cloudy-mottled texture to feldspars -- possibly albite alteration. Fracture sets 40-60° C.A. 8-12 per metre (generally increasing down section) with chl-clay-ca-ser coating. Ca-ser-chl ± hem veins throughout, 40-60° C.A. < 1-4 mm wide, 5-10 per metre, locally with intensely ser-chl-Fe-stain selvages/wallrock up to 10 cm wide. Chl-ser-ca-clay ± hem slips 20-40° C.A.	G/B	-1	<< 0.5	-1	-1	-1	4	3	4	3	14	-1	73095	308.0	310.0	0.01	-	0.1	5
		<b>164.3-175.0 m:</b> Weakly brecciated and well healed < 1-5 mm wide ca-ser ± chl ± hem (brecciated) veins/fracture fill 30-45° C.A., commonly with chl-ser envelopes and orange Fe-stain spreading outwards into wallrock. Local clay-hem-ca slips along these planes.													73096	310.0	312.0	0.01	-	0.1	5
		<b>176.7 &amp; 178.5 m:</b> Approximately 1-2 cm wide waxy green ser-chl ± ca ± hem veins ~ 50-60° C.A., with orange to ghosted-grey selvages/wallrock 5-15 cm wide (Fe-stain-alc). Trace sub-mm flecks of cpy in envelope.													73097	312.0	314.0	0.01	-	0.1	5
		<b>181.0-181.5 m:</b> 0.5-1% freely disseminated cpy blebs throughout well healed ser-ca-chl-qtz (?) - alb (?) shear ~ 30-40° C.A. and on fractures. Moderately to strong albitization of Guichon (pale creamy-pink and cloudy-mottled to translucent texture). Weakly limonitic yellow-brown discolouration within shear fill.													73098	314.0	316.0	0.01	-	0.1	5
		<b>182.0-185.8 m:</b> 10-30% blotchy purple-brown spec/hem with chl-ser-ca veins/fracture fill, 0.5-3 cm wide.													73099	316.0	318.0	0.01	-	0.1	5
		<b>185.8-190.0 m:</b> Strongly sheared/brecciated Guichon 30-40° C.A. Upper/lower contacts ~ 40° C.A. Light green-grey to pale orange colour. Easily separated/crumbled. Brecciated fragments of strongly altered Guichon + ca-ser ± chl ± hem veins throughout (moderately milled, subrounded, 30-70% of total). Moderately (± poorly) healed with ser-clay-ca ± hem ± chl matrix/gouge (gritty, soft dusty texture). No sulphides.													73100	318.0	320.0	0.01	-	0.1	5
		<b>190.0-202.0 m:</b> Intense pervasive ser-ca-clay-spec-chl alteration -- deep gel-green. Fracture/vein controlled Fe-stain persists. Down section alteration changes (ser decreases, alb-chl increases) lending a variable mottle/clouded cream-orange texture/colour to rock.													73101	320.0	322.0	0.02	-	0.1	5
		<b>194.0 &amp; 197.0 m:</b> 2-3 cm wide clay-ser-ca-hem gouge ~ 40° C.A. Ca ± ser													73102	322.0	324.0	0.04	-	0.1	5
															73103	324.0	326.0	0.01	-	0.1	5
															73104	326.0	328.0	0.01	-	0.1	5
															73105	328.0	330.0	0.02	-	0.1	5
															73106	330.0	332.0	0.09	-	0.1	5
															73107	332.0	333.7	0.03	-	0.1	5
															<b>sludge</b>						
															<b>feet</b>		<b>metres</b>				
															<b>from</b>	<b>to</b>	<b>from</b>	<b>to</b>	<b>Cu (%)</b>		
															130	140	39.6	42.7	0.01		
															140	150	42.7	45.7	0.01		
															183	194	55.8	59.1	0.01		
															<b>end of assay information</b>						

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)		
From	To															From	To						
		<p><b>cont'd sub-interval 190.0-202.0 m</b></p> <p>± chl veinlets 35-55° C.A., &lt; 1-5 mm wide throughout.</p> <p>197.5 m: 2 cm wide cloudy to translucent cream-bleach white alb-qtz (?) vein with a sub-mm pale green ser ± chl core, diffuse albitization of wallrock spreading outwards ~ 8-10 cm.</p>																					
203.0	235.5	<p>Medium grained Bio-Hbl-Qtz Diorite (possibly Guichon/Highland variety grading into Bethlehem related phase - i.e. at 205.0 m: subtle changes in mafic/K-spar/plag modal % partly masked by strong alb alteration). Colouration: pale cream-bleach white (moderate to strong pervasive fracture controlled alb alteration) with local patchy dark green-grey zones of strong chl-ser-ep fracture controlled alteration. Weakly magnetic to non-magnetic where alb alteration strongest. 8-15% mafics (hbl&gt;bio). Mafic composition variable -- medium to fine grained, even distribution to trachytic in texture locally. Hbl commonly has irregular distribution. Overall, moderate alb-chl-ca-ser ± ep ± spec alteration (pervasive). Spec + hem up section -- decreasing to absent past 205.0 m. Ep-qtz-chl-alb veining/flooding ~ 20-50° C.A. average 4 mm-2 cm wide, local concentrations 20-60% rock/metre -- (rare purple tarnished cpy ≥ py grains). Moderately fractured -- 8-15 per metre, ~ 40-60° C.A. with chl-ca-clay-ser coating. Rare chl-ser-clay-ser ± hem slips 35-55° C.A. Fe-staining weak up section and decreasing to absent past 205.0 m.</p> <p>206.1 m: ep-qtz-chl ± alb flooding ~ 20-30° C.A. with coarse blebs of py (1-2%). Mafics locally clustered to 0.5-1.5 cm in diam. Ep commonly blotchy in flooded zones and vein selvages.</p> <p>219.0-227.0 m: 14-20% fine to medium grained mafics (hbl&gt;&gt;bio). Needed to clustered form. Weak to moderate chl-ca-ser alteration of mafics (dark green, hard).</p> <p>219.0-221.0 m: 0.5-1% cpy ± bo thickly beaded throughout chl-ca-ser-ep ± qtz fractures ~ 20-30° C.A.</p> <p>234.0 m: 1.5 cm wide dull-pink aplitic dykelet/vein (?) ~ subnormal to C.A., cross cut and offset by a 3 mm wide drusy ca veinlet ~ 45° C.A.</p>	G/B	<.05	<.05	-1	-1	2	3	3	3	2	23	-1									
235.5	275.0	<p>Medium (± fine) grained Bio-Hbl-Qtz Diorite (possibly mafic -- poor Highland/Guichon or Bethlehem border phase). Local finer grained sections may be autoliths (similar composition; approx. 40-60% of interval). 5-10% mafics -- variable distribution: even medium grained to fine grained patchy scatterings. Colour: medium grey-cream to green streaked -- due to strong ep-chl-ca-qtz fracture filling/veining throughout (20-40° C.A., &lt;1 mm-2 cm wide, commonly irregular and blotchy). &lt; 0.5% spec mafic/mag replacement (decreasing down section) rare hem on fractures/slips. Pervasive weak orange Fe-stain speckling locally. Overall, moderate chl-ep-ser ± ca ± alb ± clay alteration (locally pervasive fracture/vein controlled). Generally, moderately fractured (30-60° C.A., 7% RQD, chl-clay-ep-ca-ser coating) with local crushed rock and gouge (&lt; 10 cm wide). Alb increases down section (weak to moderate).</p> <p>240.5-241.5 m: Qtz-ep ± ca healed shear with hematitic clay-ca-ser-chl gouge envelopes (20-30° C.A.).</p> <p>242.8-243.8 m: Well crushed/brecciated -- poorly healed with clay-ca-ser-ep matrix.</p> <p>254.0-262.0 m: 0.1-1% total cpy (average 0.4%) -- sub-mm fracture fill -- mafic replacement (up to 80% per grain locally) -- free disseminations (fine grained). Rock crushed/brecciated between 258.4-260.4 m with soft green-grey clay-ser-ca-ep ± hem</p>	G/B	-1	0.2	-1	-1	2	3	3	4	2	7	-1									



Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf	Ag (g/t)	Au (ppb)	
From	To															From	To					
		<p><b>cont'd sub-interval 296.0-309.0 m</b></p> <p>rock 0.5-2 cm. Rare veinlets contain 0.5-1% mo beaded along envelope. Local orange-brown aplitic veins/dykelets (?) 0.5-1.5 cm wide, 20-40° C.A.</p> <p>307.2 m. 4 mm wide ep-ca-chl-cpy (5% as medium grained blebs) veinlet ~ 40° C.A.</p> <p><b>309.0-333.7 m:</b> Decreased fracturing (~ 35% RQD), generally <b>weaker</b> propylitic (chl-ser-ca-ep) alteration. Local short zones (3-4 metres) of ep-chl-qtz ± ca ± cpy veinlets (8-15 per metre, &lt; 1-3 mm wide, 40-60° C.A.). Local weak red hem on fractures. Pinkish to pale brown qtz-plagioclase-bio-aplite porphyry (D2 ± D7?) dykelets (locally aplitic without phenocrysts) cross cutting Bio-Hbl-Fsp Porphyry unit throughout (10-20% of sub-interval -- increasing down section) (20-40° C.A. - 5 mm to 25 cm wide with sharp contacts). Dykelets locally cross cut each other as well as commonly cross cut by ep-chl-qtz-cpy veinlets.</p> <p>329.2 m. 4 cm wide wedge (?) of light grey, fine grained pyroclastics/tuff. Tertiary? Unaltered. Bio-fsp grains foliated/bent ~ 50-60° C.A. Origin/transport difficult to explain. No slips or brecciation of adjacent wallrock.</p> <p>332.8-333.6 m. Subparallel qtz-ep vein/flood ~ 2 cm wide with ~ 1% medium grained disseminated cpy ± bo blebs.</p> <p style="text-align: center;"><b>EOH 333.7 m</b></p>																				

**Diamond Drill Log**

**Project:** Globe-Transvaal  
**Hole #:** GL96-5  
**Date:** 07-Nov-96  
**Logged by:** R. Whiteaker

**Northing:** 5602930 -1 = absent 3 = moderate  
**Easting:** 640425 1 = background/fresh 4 = strong  
**Elevation:** 1798 m 2 = weak 5 = intense  
**Length:** 211.8 m

	<b>Azm</b>	<b>Dip</b>
<b>Collar</b>	270	-45

**Core:** NQ2

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays*									
From	To														Sample Number	Interval (m) From To	Total Cu (ppm)	Total Cu (%)	%Cu N-Sx	Ag** (ppm)	Au (ppb)	Au-rpt (ppb)		
0	12.2	Overburden/casing													73108	12.2	15.0	108	0.01	-	<0.2	5	n/a	
															73109	15.0	17.0	108	0.01	-	<0.2	5	n/a	
12.2	15.5	Medium grey-brown multilithic pyroclastic (surge?) deposit (Tertiary?) Clasts sub-rounded to subangular, < 1-3 mm (< 10% of total 1-5 cm in diam) in diam ~ 50-70% of unit. granitic, volcanic and porphyritic compositions throughout. Soft, crumbly texture. Well weathered (clay-lim) Groundmass possibly dacite/rhyodacite tuff. Clast size increasing down section (average 5 mm-1 cm in diam) and includes primarily fragments of Granodiorite/Qtz-Monzodiorite (down section unit)	Tv	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	73110	17.0	19.0	108	0.01	-	<0.2	5	n/a	
															73111	19.0	21.0	108	0.01	-	<0.2	5	n/a	
															73112	21.0	23.0	108	0.01	-	<0.2	5	n/a	
															73113	23.0	25.0	212	0.02	-	<0.2	5	n/a	
															73114	25.0	27.0	212	0.02	-	<0.2	5	n/a	
															73115	27.0	29.0	212	0.02	-	<0.2	5	n/a	
															73116	29.0	31.0	212	0.02	-	<0.2	5	n/a	
15.5	46.5	Pinkish to pale grey, medium grained granodiorite/Qtz Monzodiorite (Bethlehem variety) Slightly porphyritic with sub to euhedral grains of 40-60% plagioclase, 15-20% Qtz, 15-25% Ortho (K-spar), 5-10% mafics (Bio>Hbl) K-spar commonly poikilitic-enclosing qtz ± bio grains. Plagioclase K-spar ratio variable throughout. Weakly magnetic. Weakly altered: ser-clay ± spec (after 0.5-1% disseminated mag?) ± chl ± ep (chl-ep-spec increasing after 133.0 m). Well weathered up section (clay-lim-hem) to weakly down section (clay ± lim/hem). Local pink aplitic dykelets (qtz-fsp graphic textures) 20-80 cm wide, unknown C.a. Moderately to strong brecciated/crushed throughout with local more competent sections increasing down section. Brecciation and clay-ser ± lim/hem slip planes 30-60° C.A. Note Ca absent to rare. Weak Fe-staining of feldspars locally. 15.5-34.0 m: Strongly brecciated/crushed (< 2% RQD) - generally decreasing down section. Bright yellow-brown lim throughout crumbly-dusty, chalky pink clay-ser ± spec (locally as platy ruby-grey medium grained crystals) breccia-matrix and on fractures. 34.0-46.5 m: Approximately 1-35 specularite throughout as fracture fill and mafic replacement ± free disseminations. Spec is fine to medium grained, metallic, blue-grey to ruby-grey and exhibits platy-rhomboidal crystal form. Weak to trace lim on fractures. Ep ± qtz veins, 50-70° C.A., 2 mm-1 cm wide, locally brecciated and segmented with red-brown hem envelopes/selvages	B	-1	-1	-1	-1	-1	-1	2	-1	2	2	4	-1	73117	31.0	33.0	212	0.02	-	<0.2	5	n/a
															73118	33.0	35.0	359	0.04	-	<0.2	10	5	
															73119	35.0	37.0	359	0.04	-	<0.2	10	5	
															73120	37.0	39.0	359	0.04	-	<0.2	10	5	
															73121	39.0	41.0	359	0.04	-	<0.2	10	5	
															73122	41.0	43.0	359	0.04	-	<0.2	10	5	
															73123	43.0	45.0	312	0.03	-	<0.2	10	5	
															73124	45.0	47.0	312	0.03	-	<0.2	10	5	
															73125	47.0	49.0	312	0.03	-	<0.2	10	5	
															73126	49.0	51.0	312	0.03	-	<0.2	10	5	
															73127	51.0	53.0	312	0.03	-	<0.2	10	5	
															73128	53.0	55.0	297	0.03	-	<0.2	5	n/a	
															73129	55.0	57.0	297	0.03	-	<0.2	5	n/a	
															73130	57.0	59.0	297	0.03	-	<0.2	5	n/a	
															73131	59.0	61.0	297	0.03	-	<0.2	5	n/a	
															73132	61.0	63.0	297	0.03	-	<0.2	5	n/a	
															73133	63.0	65.0	220	0.02	-	<0.2	5	n/a	
															73134	65.0	67.0	220	0.02	-	<0.2	5	n/a	
															73135	67.0	69.0	220	0.02	-	<0.2	5	n/a	
															73136	69.0	71.0	220	0.02	-	<0.2	5	n/a	
															73137	71.0	73.0	220	0.02	-	<0.2	5	n/a	
46.5	61.5	Brown, medium to fine grained feldspar porphyry breccia (FpBx). Fine to coarse angular fragments. Cloudy plagioclase, ep-saussurite-clay matrix with lim, spec. Moderately fractured with ep-clay-lim-spec fillings	FP/Bx	-1	-1	-1	-1	-1	2	-1	2	3	5	2	73138	73.0	75.0	657	0.07	-	<0.2	5	n/a	
															73139	75.0	77.0	657	0.07	-	<0.2	5	n/a	
															73140	77.0	79.0	657	0.07	-	<0.2	5	n/a	
															73141	79.0	81.0	657	0.07	-	<0.2	5	n/a	
61.5	80.0	Medium grained Hbl-Bio-Fsp-Qtz Diorite (Bethlehem) Cloudy, zoned, packed plagioclase. Chl-ep-spec-lim filled fractured 1-3 mm, 5-20 per metre, 60° C.A. Locally brecciated, cross cutting veins. Local weak K-spar replacement. Spec 1-2%	B	-1	-1	-1	-1	1	2	-1	2	3	10	2	73142	81.0	83.0	657	0.07	-	<0.2	5	n/a	
															73143	83.0	85.0	293	0.03	-	<0.2	5	n/a	
															73144	85.0	87.0	293	0.03	-	<0.2	5	n/a	
															73145	87.0	89.0	293	0.03	-	<0.2	5	n/a	
															73146	89.0	91.0	293	0.03	-	<0.2	5	n/a	
															73147	91.0	93.0	293	0.03	-	<0.2	5	n/a	

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		Total Cu (ppm)	Total Cu (%)	%Cu N-Sx	Ag** (ppm)	Au (ppb)	Au-rpt (ppb)
From	To															From	To						
80.0	94.8	Medium grained Hbl-Bio-Qtz-Diorite (BBx/Fp) Bethlehem Qtz Diorite Intrusive Breccia + olive green/brown feldspar porphyry dykes. Fine to coarse angular fragments. Dark green ser plagioclase cut by fine to medium grained brown-green matrix crowded feldspar porphyry dykes from 80.0-81.0 and 91.0-94.8 m. 1-2% spec. with trace lim in ep-chl-qtz-clay filled fractures 1-5 mm, 40-60° C.A.	BBx/Fp	-1	-1	-1	-1	-1	3	-1	3	3	15	2	73148	93.0	95.0	448	0.04	-	<0.2	5	n/a
															73149	95.0	97.0	448	0.04	-	<0.2	5	n/a
															73150	97.0	99.0	448	0.04	-	<0.2	5	n/a
															73151	99.0	101.0	448	0.04	-	<0.2	5	n/a
															73152	101.0	103.0	448	0.04	-	<0.2	5	n/a
94.8	101.8	Bio-Hbl-Fsp-Qtz Diorite (Bethlehem) White-grey cloudy zoned plagioclase, fresh bio/hbl. Chl-ep-clay filled fractured 1-5 mm, 5 per metre, 30-45° C.A. with spec are cut by fine jointing subparallel C.A. right lateral displacement. Traces of lim with spec 100.3 m: 3 cm apite dyke at 80° C.A.	B	-1	-1	-1	-1	-1	2	-1	2	3	10	2	73153	103.0	105.0	425	0.04	-	<0.2	5	n/a
															73154	105.0	107.0	425	0.04	-	<0.2	5	n/a
															73155	107.0	109.0	425	0.04	-	<0.2	5	n/a
															73156	109.0	111.0	425	0.04	-	<0.2	5	n/a
															73157	111.0	113.0	425	0.04	-	<0.2	5	n/a
101.8	105.2	Brown fine grained, feldspar porphyry (Fp) 5% Hbl altered to chl-ep (ep spot Fp?) Chilled contacts at 70-80° C.A. 1-2% spec, traces of lim on fractures	FP	-1	-1	-1	-1	-1	2	1	2	3	10	2	73158	113.0	115.0	614	0.06	-	<0.2	5	n/a
															73159	115.0	117.0	614	0.06	-	<0.2	5	n/a
															73160	117.0	119.0	614	0.06	-	<0.2	5	n/a
															73161	119.0	121.0	614	0.06	-	<0.2	5	n/a
105.2	133.0	Hbl-Bio-Qtz-Diorite (Bethlehem) Cloudy, zoned plagioclase, grey to pale green ser. Mafics bronze-brown, ragged. Packed porphyritic texture. Weak to locally strong Qtz-K-spar flooding over 5-10 cm (veins) commonly graphic in texture. Ep veins 1-5 mm, 5 per metre, 1-2% spec, lim increasing (trace). Trace mal along lim filled fractures. Note: compositional variations of Bethlehem locally (possible autoliths): mafics modal % varies from 5-15%, K-spar modal % varies from 10-25% (monzodiorite). Clay-ser-lim slips 25-35° C.A. Weak to moderately magnetic. Weak brecciation locally (increasing down section) with chl-spec-ep-qtz-ca breccia fill/veins. 121.0 m: 6 cm wide Qtz-ep vein 50° C.A.	B	-1	-1	-1	-1	2	3	1	2	2	15	2	73162	121.0	123.0	614	0.06	-	<0.2	5	n/a
															73163	123.0	125.0	349	0.03	-	<0.2	5	n/a
															73164	125.0	127.0	349	0.03	-	<0.2	5	n/a
															73165	127.0	129.0	349	0.03	-	<0.2	5	n/a
															73166	129.0	131.0	349	0.03	-	<0.2	5	n/a
															73167	131.0	133.0	349	0.03	-	<0.2	5	n/a
															73168	133.0	135.0	282	0.03	-	<0.2	5	n/a
															73169	135.0	137.0	282	0.03	-	<0.2	5	n/a
															73170	137.0	139.0	282	0.03	-	<0.2	5	n/a
															73171	139.0	141.0	282	0.03	-	<0.2	5	n/a
															133.0	143.5	Hbl-Bio-Qtz Diorite (Bethlehem) 12-16% mafics. Light grey to pale pink. Poorly fractured, 60% RQD. Cpy ± py in ep-qtz-chl ± spec ± ca veinlets (20-50° C.A., 1-4 mm wide, 10-30 per metre) and submm fracture fill and as mafic replacement within 1-2 cm wide selvages. Moderately magnetic. 1-3% mag disseminations and mafic inclusions. Local ca-drusy fracture fill. Lim on fractures, increasing down section. Local weak brecciation (increasing down section) -- healed with chl-ep-qtz ± spec ± ser ± ca breccia veins/matrix (~ 20-50° C.A.). 138.0-138.5 m: Weak brecciation, well healed with chl-qtz-ca-ep-py ± cpy breccia veins. Moderate lim on fractures. Trace NCu mafic replacement adjacent to fracture fill. 142.5 m: Qtz-K-spar ± ep vein ~ 50° C.A., 4 cm wide, graphic texture, 0.5% py>cpy.	B	0.05	<1	-1	-1	1
73173	143.0	145.0	245	0.02	-	<0.2	5	n/a															
73174	145.0	147.0	245	0.02	-	<0.2	5	n/a															
73175	147.0	149.0	245	0.02	-	<0.2	5	n/a															
73176	149.0	151.0	245	0.02	-	<0.2	5	n/a															
73177	151.0	153.0	245	0.02	-	<0.2	5	n/a															
73178	153.0	155.0	427	0.04	-	<0.2	5	n/a															
73179	155.0	157.0	427	0.04	-	<0.2	5	n/a															
73180	157.0	159.0	427	0.04	-	<0.2	5	n/a															
73181	159.0	161.0	427	0.04	-	<0.2	5	n/a															
73182	161.0	163.0	427	0.04	-	<0.2	5	n/a															
73183	163.0	165.0	309	0.03	-	<0.2	5	n/a															
73184	165.0	167.0	309	0.03	-	<0.2	5	n/a															
73185	167.0	169.0	309	0.03	-	<0.2	5	n/a															
73186	169.0	171.0	309	0.03	-	<0.2	5	n/a															
73187	171.0	173.0	309	0.03	-	<0.2	5	n/a															
73188	173.0	175.0	166	0.02	-	<0.2	5	n/a															
73189	175.0	177.0	166	0.02	-	<0.2	5	n/a															
73190	177.0	179.0	166	0.02	-	<0.2	5	n/a															
73191	179.0	181.0	166	0.02	-	<0.2	5	n/a															
73192	181.0	183.0	166	0.02	-	<0.2	5	n/a															
73193	183.0	185.0	166	0.02	-	<0.2	5	n/a															
73194	185.0	187.0	166	0.02	-	<0.2	5	n/a															

end of assay information -- see next page for \*footnotes





**Diamond Drill Log**

**Project:** Getty/Globe-Transvaal Project  
**Hole #:** GL96-6  
**Date:** 11-Nov-96  
**Logged by:** R. Whiteaker

**Northing:** 5603236  
**Easting:** 640524  
**Elevation:** 1762 m  
**Length:** 86.9 m

-1 = absent      3 = moderate  
 1 = background/fresh      4 = strong  
 2 = weak      5 = intense

	<b>Azm</b>	<b>Dip</b>
<b>Collar</b>	270	-70

**Core:** NQ2

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Assays						
From	To														Sample Number	Interval (m)		%Cu Total	%Cu N-Sx	Ag (g/t)	Au (ppb)
0	9.1	Casing/overburden													73195	9.1	11.0	0.02	-	0.1	5
9.1	40.0	Light to medium green-orange-grey (due to propylitic alteration and Fe-staining) (Hbl-) Bio-Qtz Dione (Monzodionte?) Weak to moderate plagioclase porphyntic texture (Bethlehem related crowded porphyry?) Strong ( ± moderate) pervasive-fracture controlled propylitic alteration. feldspars pale -- deep green (10-90% ser-clay ± ca) to chalky-white and zoned (clay ± ser ± ca); mafics (bio>hbl) 30-80% altered to chl-ser-ca ± py ± cpy (< 0.05% of total). Variable weak to strong Fe-staining of feldspars throughout. Well fractured and weak to moderately crushed-brecciated throughout, poorly to moderately cemented with clay-ca-ser ± hem 0.5-1.5% mag-spec/hem as fine disseminations and mafic inclusions. <b>Rare</b> aplitic pink-orange veins 40-60° C.A., 1-4 cm wide. Brecciation textures -- 40-50° C.A. 1-3 cm wide ca ± ser veins 60° - subnormal C.A. up section. Py ± (>>) cpy ± bo (rare) finely disseminated throughout ser-ca--chl-clay fracture fill (40-60° C.A.) and locally as mafic replacement. Local subnormal qtz-chl ± ser ± ca veins with 1-4% py ± cpy blebs (commonly with soft grey-black minerals where brecciated (Cc?)). <b>10.5-13.0 m:</b> Fault gouge. Strong clay-ca-ser-hem. Slip planes 40-60° C.A. Loose angular brecciated fragments of Hbl-Bio-Qtz Dione Porphyry (?) and ca ± ser veins < 1 mm-5 cm in approximate diam. <b>13.0-13.7 m:</b> Orange-brown (strong pervasive Fe-stain) feldspar porphyry dyke (Fp). Non-magnetic. Unmineralized. Contacts ~ 55-65° C.A.	G	0.1	<0.1	<0.05	-1	-1	4	3	4	3	6	-1	73196	11.0	13.0	0.01	-	0.1	5
															73197	13.0	15.0	0.01	-	0.1	5
															73198	15.0	17.0	0.03	-	0.1	5
															73199	17.0	19.0	0.03	-	0.1	5
															73200	19.0	21.0	0.02	-	0.1	5
															73201	21.0	23.0	0.03	-	0.1	5
															73202	23.0	25.0	0.03	-	0.1	5
															73203	25.0	27.0	0.01	-	0.1	5
															73204	27.0	29.0	0.01	-	0.1	5
															73205	29.0	31.0	0.01	-	0.1	5
															73206	31.0	33.0	0.01	-	0.1	5
															73207	33.0	35.0	0.01	-	0.1	5
															73208	35.0	37.0	0.01	-	0.1	5
															73209	37.0	39.0	0.01	-	0.1	5
															73210	39.0	41.0	0.03	-	0.1	5
															73211	41.0	43.0	0.02	-	0.1	5
															73212	43.0	45.0	0.02	-	0.1	5
															73213	45.0	47.0	0.02	-	0.1	5
															73214	47.0	49.0	0.03	-	0.1	5
															73215	49.0	51.0	0.04	-	0.1	5
															73216	51.0	53.0	0.06	-	0.1	5
40.0	67.0	Bethlehem phase Qtz (Monzo-) Dione to Granodionte. Medium grained, weakly magnetic. Weakly porphyntic. 5-10% mafics (Bio>Hbl) moderately altered to chl-ca-ser ± ep. Plagioclase zoned (pale green core, white rims) -- moderate ser-clay ± ca alteration. 8-12 fractures per metre (locally slipped) 30-70° C.A. with ser-chl-ca-clay ± hem ± ep ± py ± cpy fill. Weak to moderately brecciated (clast supported ± locally matrix supported throughout (increasing down section) -- moderately well healed/ cemented with cement/matrix of clay-ser-chl-ca comminuted wallrock (locally strong ser-chl-py ± cpy ± Cc? breccia heal 1-5 cm wide, 50-80° C.A.). Wallrock sub-rounded to subangular fragments < 1-10 cm in diam (average). brecciation textures ~40-70° C.A. up section, 20-40° C.A. dominant down section. <b>52.5-57.5 m:</b> Light grey-chalky white Plagioclase Porphyry dyke. Plagioclase as white soft clay-ca ± ser altered euhedral ± subhedral crystals (40-60% of unit). Fine grained mafic (bio?) slivers/needles, feldspar + qtz groundmass. Soft black-grey clots and brecciated veins (?) 40-60° C.A. -- possible Cc with crushed mafics? Rare py-cpy fracture fill (<0.05%). Red-brown to yellow lim/hem fracture/breccia fill from 55.5 m. <b>57.5-67.9 m:</b> Increased brecciation. Moderate to strong red-brown to yellow-	B	0.1	<0.1	?	-1	-1	3	3	3	3	50	2	73217	53.0	55.0	0.03	-	0.1	5
															73218	55.0	57.0	0.01	-	0.1	5
															73219	57.0	59.0	0.08	-	0.1	5
															73220	59.0	61.0	0.08	-	0.1	5
															73221	61.0	63.0	0.46	-	0.1	5
															73222	63.0	65.0	0.05	-	0.1	5
															73223	65.0	67.0	0.10	-	0.1	5
															73224	67.0	68.9	0.02	-	0.1	5

end of assay information

GL96-6

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu N-Sx	Ag (g/t)	Au (ppb)	
From	To															From	To					
		<p><i>cont'd sub-interval 57.5-67.9 m</i></p> <p>orange lim throughout fractures, breccia matrix and enclosing mafics</p> <p><i>61.0-63.0 m</i> 0.5-2% mal/azur fracture fill, locally enclosing silver-grey metallic grains – Cc? <i>Note:</i> Towards end of interval breccia matrix weakly dacitic in composition (light grey, soft) – possibly "squeezed" up from lower Volcanic unit during Tertiary faulting/shearing (20-30° C.A.)</p> <p><i>65.9-66.1 m</i> Light grey Bio-Qtz Crystal Dacite, upper and lower contacts ~ 20-30° C.A. (well crushed/healed)</p>																				
67.9	86.9	<p>Tertiary Volcanics (Tv): Light grey Bio-Qtz Crystal Dacite (Tuff?). Weakly magnetic. Weak to moderate brecciation throughout: crushed-weakly milled fragments between milled matrix of same composition; locally rock appears "twisted"/foliated with "swirled" interfragmental light grey clay ± ca ± lim (near contact) breccia matrix/cement 40-60° C.A. Unaltered. Poorly fracture, 2-4 per metre, 40-60° C.A. (primarily broken core subnormal to C.A.)</p> <p style="text-align: center;"><b>EOH 86.9 m</b></p>	Tv	-1	-1	-1	-1	-1	-1	-1	-1	-1		-1								

Diamond Drill Log															Azm		Dip				
Project:		Getty-Globe Transvaal Project					Northing: 5603236		-1 = absent		3 = moderate				Collar		000		-90		
Hole #:		GL96-7					Easting: 640524		1 = background/fresh		4 = strong				Core:		NQ2				
Date:		12-Nov-96					Elevation: 1762 m		2 = weak		5 = intense										
Logged by:		R. Whiteaker					Length: 300.8 m														
															Assays						
Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample	Interval (m)		%Cu	%Cu	Ag	Au
From	To														Number	From	To	Total	N-Sx	(g/t)	(ppb)
0	9.9	Casing/overburden													73225	9.9	12.0	0.02	-	0.1	5
															73226	12.0	14.0	0.03	-	0.1	5
9.9	39.0	Light to medium green/orange/grey (due to pervasive propylitic alteration and Fe-staining). (Hbl-) Bio-Qtz Diorite (Monzodionite?). Weak to moderate plagioclase porphyritic texture -- possibly Bethlehem related Crowded Porphyry (CFP). Overall strong pervasive fracture controlled alteration : feldspars pale to deep green ser-clay ± ca altered, mafics altered to chl-ser-ca ± clay. 1-2% spec as fine disseminations and mafic replacement (after mag?). Weakly magnetic. Feldspars weak to moderately red Fe-stained. 1-3 cm wide ca ± ser veins subnormal to C.A., 8-10 per metre -- decreasing down section. Well fractured (60°-subnormal ± 30-40° C.A.) and moderately brecciated/crushed throughout -- moderately (± poorly) healed with ser-clay-ca ± chl ± hem matrix /cement between comminuted wallrock. Brecciation textures approx. 60°-subnormal with lesser 30-40° C.A.). 13.6 m: 1.5 cm wide orange aplite dyke ~ 35° C.A. 17.5-18.3 m: Well brecciated, crushed, milled with breccia fabric and clay-ser-ca slips ~ 30-50° C.A. moderately well healed with clay-ser-ca between comminuted wallrock. 18.3-21.0 m: Orange-brown (pervasive Fe-stain) feldspar Porphyry dyke. (FP). Non-magnetic. Unmineralized. Brecciated throughout -- well healed with clay-ser-ca ± hem cement. Upper and lower contacts brecciated with BP unit. 18.5-18.8 & 20.9-21.0 m: Light grey clay-ser-ca fault gouge, slip planes 40-50° C.A. 21.0-21.3 m: Same as 17.5-18.3 m 22.7 m: Metallic grey mo-chl-clay fracture coating at 40° C.A. 23.5-26.0 m: 0.5-1% py ± cpy with ser-clay-ca-chl ± hem fracture and breccia fill (fine to medium grained blebs/disseminations). Fractures 35-45° C.A. 32.0 m: Ser-clay-ca-chl slips ~ 20° C.A. /Note: Lower contact with Bethlehem unit gradational with local "mixing" of both differential lithologies.	CFP	<0.05	<0.05	-1	-1	-1	4	3	4	3	4	-1	73227	14.0	16.0	0.03	-	0.1	5
															73228	16.0	18.0	0.03	-	0.1	5
															73229	18.0	20.0	0.02	-	0.1	5
															73230	20.0	22.0	0.02	-	0.1	5
															73231	22.0	24.0	0.06	-	0.1	5
															73232	24.0	26.0	0.03	-	0.1	5
															73233	26.0	28.0	0.02	-	0.1	5
															73234	28.0	30.0	0.02	-	0.1	5
															73235	30.0	32.0	0.02	-	0.1	5
															73236	32.0	34.0	0.02	-	0.1	5
															73237	34.0	36.0	0.02	-	0.1	5
															73238	36.0	38.0	0.01	-	0.1	5
															73239	38.0	40.0	0.02	-	0.1	5
															73240	40.0	42.0	0.02	-	0.1	5
															73241	42.0	44.0	0.02	-	0.1	5
															73242	44.0	46.0	0.01	-	0.1	5
															73243	46.0	48.0	0.04	-	0.1	5
															73244	48.0	50.0	0.01	-	0.1	5
															73245	50.0	52.0	0.05	-	0.1	5
															73246	52.0	54.0	0.03	-	0.1	5
															73247	54.0	56.0	0.02	-	0.1	5
															73248	56.0	58.0	0.07	-	0.1	5
															73249	58.0	60.0	0.02	-	0.1	5
															73250	60.0	62.0	0.02	-	0.1	5
															73251	62.0	64.0	0.37	-	0.1	5
															73252	64.0	66.0	0.33	-	0.1	5
															73253	66.0	68.0	0.29	-	0.1	5
															73254	68.0	70.0	0.23	-	0.1	5
															73255	70.0	72.0	0.07	-	0.1	5
															73256	72.0	74.0	0.02	-	0.1	5
															73257	74.0	76.0	0.02	-	0.1	5
															73258	76.0	78.0	0.02	-	0.1	5
															73259	78.0	80.0	0.03	-	0.1	5
															73260	80.0	82.0	0.69	-	0.1	5
															73261	82.0	84.0	0.09	-	0.1	5
															73262	84.0	86.0	0.15	-	0.1	5

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu N-Sx	Ag (g/t)	Au (ppb)
From	To															From	To				
39.0	56.5	Bethlehem phase Qtz (Monzo-) Diorite to Granodiorite. Medium grained, weakly magnetic. Weak to moderate propylitic alteration. Cream-grey with pinkish (K-spar) mafic spots. Weakly porphyritic. Plagioclase zoned (pale green ser core, white clay ± ca rims). Mafics (5-10% Bio>Hbl) moderately altered to chl-ser-ca ± ep ± spec (after mag inclusions?). Moderately brecciated/crushed (weakly milled) throughout – moderately well healed with clay-ser-ca ± chl ± hem cement (locally limonitic with crushed/milled py ± cpy grains). Local 0.5-1 cm wide pink K-spar veins, 40° to subnormal to C.A. Fracture sets, 8-12 per metre, 30-70° C.A. with ser-ca-chl-clay ± lim ± py ± cpy fill/coating. Rare cpy-py mafic replacement (<0.05% total).	B	<0.1	<0.05	-1	-1	-1	3	3	3	3	15	-1	73263	86.0	88.0	0.09	-	0.1	5
															73264	88.0	90.0	0.05	-	0.1	5
															73265	90.0	92.0	0.06	-	0.1	5
															73266	92.0	94.0	0.10	-	0.1	5
															73267	94.0	96.0	0.13	-	0.1	5
															73268	96.0	98.0	0.15	-	0.1	5
															73269	98.0	100.0	0.03	-	0.1	5
															73270	100.0	102.0	0.03	-	0.1	5
															73271	102.0	104.0	0.01	-	0.1	5
															73272	104.0	106.0	0.01	-	0.1	5
56.5	66.3	Pale brown to light grey (bio) Hbl-Feldspar porphyry dyke (FP). Weakly magnetic. 3-8% mafics, medium grained, locally feldspar poikilitic. Feldspars (40-50% total) sub-euhedral. Feldspars weakly to moderately clay-ca-ser altered to a soft, white-pale green (locally pink-brown due to fracture controlled Fe-staining); mafics moderately chl-ser ± spec ± ep altered to a soft, medium deep green (local cpy-py mafics replacement ~ 0.2% of total interval). 1-2% spec-hem as mafic (mag) replacement and fracture fill. Weakly to moderately brecciated throughout with breccia-fracture fill/veins of ser-ca-chl-clay-spec ± cpy ± py ± ep ± mo ~ 20-40° C.A. Note: cpy ≥ py and generally increasing to end of interval). Cpy-py-spec commonly found together in breccia veins/fracture fill. Cpy commonly associated with mo. Local lim in fractures - increasing down section. <b>65.8-66.3 m:</b> Chilled to deep grey-blue, ep-spec-py increase.	FP	1	0.6	-1	-1	-1	3	2	3	2	28	-1	73273	106.0	108.0	0.01	-	0.1	5
															73274	108.0	110.0	0.02	-	0.1	5
															73275	110.0	112.0	0.02	-	0.1	5
															73276	112.0	114.0	0.02	-	0.1	5
															73277	114.0	116.0	0.07	-	0.1	5
															73278	116.0	118.0	0.08	-	0.1	5
															73279	118.0	120.0	0.03	-	0.1	5
															73280	120.0	122.0	0.05	-	0.1	5
															73281	122.0	124.0	0.08	-	0.1	5
															73282	124.0	126.0	0.03	-	0.1	5
66.3	73.0	Bethlehem phase Qtz (Monzo-) Diorite to Granodiorite. Medium grained, weakly magnetic. Pinkish cream-grey. Plagioclase soft, white-pale green (weak to moderately clay-ca-ser alteration). Trace lim throughout on fractures. Mafics deep green (moderate to strong chl-ser- ± spec ± ca ± clay alteration – local py ± cpy replacement). 0.5-1.5% spec disseminations, fracture fill. Weakly to well brecciated throughout – well healed with medium to dark grey-black chl-ser-ca-clay-spec-ep ± py ± cpy ± bo breccia matrix/cement between crushed -milled comminuted wallrock (Note: py-cpy-bo from 66.3-69.3 m exclusively; from 69.3-73.0 m, ~ 0.5% NCu as fine to medium grained flakes/grains on fractures and as breccia fill. <b>69.3-70.0 &amp; 72.0-72.1m:</b> Shearing 30-40° C.A. -- light grey, strongly milled/ comminuted wallrock - py ± cpy with clay ± ca ± lim/hem cement (?).	B	0.8	0.5	0.1	-1	1	3	3	4	3	50	-1	73285	130.0	132.0	0.09	-	0.1	5
															73286	132.0	134.0	0.04	-	0.1	5
															73287	134.0	136.0	0.04	-	0.1	5
															73288	136.0	138.0	0.03	-	0.1	5
															73289	138.0	140.0	0.09	-	0.1	5
															73290	140.0	142.0	0.06	-	0.1	5
															73291	142.0	144.0	0.02	-	0.1	5
															73292	144.0	146.0	0.04	-	0.1	5
															73293	146.0	148.0	0.04	-	0.1	5
															73294	148.0	150.0	0.12	-	0.1	5
73.0	76.0	Strongly brecciated-crushed-milled Feldspar (plag) Porphyry with fine grained feldspar-hbl-bio-mag groundmass. Possible Rhyo-Dacite Plag Porphyry Tuff Breccia? Upper and lower contacts ~ 20° C.A. Poorly "broken" subnormal to C.A. Plagioclase phenocrysts (~ 30-40% of unit) euhedral ± subhedral, white, soft clay-ca altered. Local ep spots. Mafics soft, dark green chl-ser ± ca ± spec altered. Lim on fractures up section (73.0-74.0 m). Breccia matrix -comminuted wallrock/feldspars-clay-ca ± spec.	FP	-1	-1	-1	-1	-1	2	3	2	3	60	-1	73295	150.0	152.0	0.14	-	0.1	5
															73296	152.0	154.0	0.03	-	0.1	5
															73297	154.0	156.0	0.24	-	0.1	5
															73298	156.0	158.0	0.16	-	0.1	5
															73299	158.0	160.0	0.03	-	0.1	5
															73300	160.0	162.0	0.08	-	0.1	5
															73301	162.0	164.0	0.02	-	0.1	5
															73302	164.0	166.0	0.07	-	0.1	5
															73303	166.0	168.0	0.19	-	0.1	5
															73304	168.0	170.0	0.40	-	0.1	5
														73305	170.0	172.0	0.49	-	0.1	5	
														73306	172.0	174.0	0.06	-	0.1	5	
														73307	174.0	176.0	0.01	-	0.1	5	

GL96-7

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu N-Sx	Ag (g/t)	Au (ppb)
From	To															From	To				
76.0	98.6	Bethlehem phase Qtz (Monzo-) Diorite to Granodiorite. Pinkish cream-grey colour, weakly to moderately magnetic. <b>Weakly</b> feldspar porphyritic. 5-10 % Bio>>Hbl (weakly to moderately chl-ser-ca-clay ± spec ± ep (rare) altered – to soft deep green (black). Plagioclase weakly altered to clay-ca ± ser (soft, white with local pale green cores). Weakly to moderately brecciated-crushed ± milled (rock displays a twisted/foliated texture) – well healed with fine grained interstitial comminuted wall-rock-clay-ca ± ser ± spec (note: upper 1 m strongly brecciated with shear/slip planes ~ 20° C.A. Brecciation textures ~ 30-50° C.A. Rare pink aplite/K-spar veins/dykelets ~ 1 cm wide 60-80° C.A. Poorly fractured, 40°-subnormal C.A. Lim down section. <b>80.5-82.0, 82.6-82.8 &amp; 85.5-86.3 m:</b> Strong to intense chl-mag (black masses 0.5-3 cm wide ~ 40-70° C.A., brecciated) -ser-ca-spec ± ep alteration – flooding/breccia fill (blotchy-speckled black -strongly magnetic). Local coarse Cc-bo-mag clots/blebs fracture/breccia fill. Local fine grained cpy ± bo ± NCu grains (to 0.1% total). Possible magmatic differentiation/immiscible phase separation. Flooding locally contains masses/clots of fine hbl needles with hem rims. <b>88.2-89.5 &amp; 91.5-92.5 m:</b> Strongly sheared (10-30° C.A.) brecciated-milled with ser-clay-ca-comminuted wallrock (< 1 mm-4 cm wide) throughout. Trace lim. <b>94.0-94.3 &amp; 96.5-98.0 m:</b> Black chl-mag-ca-spec-ep-Cc breccia/fracture fill/flooding as described above.	B	-1	0.05	0.2	-1	1	2	3	2	3	40	-	73308	176.0	178.0	0.01	-	0.1	5
															73309	178.0	180.0	0.01	-	*5 samples	
															<b>end of assay information</b>						
98.6	112.2	Light to medium grey Plagioclase Feldspar Porphyry with fine grained feldspar-hbl-bio-mag groundmass (same as 73.0-76.0 m?). Plagioclase soft, white to pale green clay-ca-ser altered, mafics (<0.5% bio-hbl phenocrysts, medium grained) moderately ser-chl-ca ± spec ± ep altered. Lim locally along fractures and rimming mafics. Poorly fractured ~ 40-80° C.A. with clay-ser-ca-chl-lim coating. Weak breccia locally. Black chl-ser-mag (oxidized to hem) ± ca ± ep fracture fill/veins ~ 45° - subnormal to C.A. , increasing in width (<1 mm-1 cm) and frequency down section (5-10 per metre) /Note: from 111.5-112.2 m : intense pervasive black chl-ser-qtz-mag ± ep ± ca flooding. Lower contact ~ 50° C.A.	FP	-1	-1	-1	-1	-1	3	3	3	33	43	-1							

Depth (m)		Description	Rock Type	%Py	%Cpy	%Bo/Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu N-Sx	Ag (g/t)	Au (ppb)
From	To															From	To				
112.2	172.8	<p>Bethlehem Phase Qtz (Monzo-) Diorite to Granodiorite (same as 76.0-98.6).            Poorly fractured (65% RQD) ~ 30-70° C.A. with chl-ser-clay-ca-lim/hem ± NCu (down section) coatings. Local shearing/brecciation (weak to moderate milling of wallrock) ~ 20-30° C.A. Black to dark grey-green, strongly magnetic chl-mag-ser + ca ± qtz (?) ± ep ± Cc (rare medium to coarse blebs) fracture fill/breccia veinlets (possible magmatic differentiation/phase separation intrusion breccia veins) 40-70° C.A., 15-30 per metre, &lt; 1 mm-2 cm wide -- down section becoming moderately to strongly limonitic (bright orange-brown). Feldspars weak to moderate clay-ca-ser altered (soft-hard white to pale green) mafics moderately altered to soft green chl-ser-ca ± spec ± ep. Lower contact with Tv ~ 20° C.A., sheared, milled with strong clay slip.</p> <p><b>123.5-124.3 m:</b> Medium grey plagioclase porphyry dykelet -- plagioclase phenocrysts euhedral, hard and white with weak clay-ca alteration. 3-5% mafics moderately altered to chl-ser-hem/lim. Lim on fractures. Upper/lower contact subnormal to C.A. May not be related to above plagioclase porphyry unit (98.6-112.2 m).</p> <p><b>138.0-172.8 m:</b> Local weak to moderate mal/az (0.3%) - NCu ± cup as fracture/weak breccia fill throughout to EOH. Moderate to strong lim-hem fracture/breccia fill coating throughout.</p>	B	-1	-1	0.1	-1	1	2	3	2	3	65	2	<b>cont'd core logging</b>						
172.8	300.8	<p>Tertiary Volcanics (Tv). Light grey Bio-Qtz Crystal Dacite (Rhyo?) -- possibly tuffaceous. Weakly magnetic. Weak to moderate brecciation locally throughout. Crushed weakly-milled (foliated appearance) fragments between finer grained soft darker grey material (of similar composition as dacite). Brecciation/shear textures ~10-30° C.A. Poorly fractured throughout.</p> <p style="text-align: center;">EOH 300.8 m</p>	Tv	-1	-1	-1	-1	-1	-1	-1	-1	-1	-	-1							

Diamond Drill Log															Collar		Azm	Dip
Project:	Getty West				Northing:	5603300	-1 = absent			3 = moderate						090	-45	
Hole #:	GW96-1				Easting:	640200	1 = background/fresh			4 = strong								
Date:	01-Oct-96				Elevation:	1746 m	2 = weak			5 = intense								
Logged by:	R. Whiteaker														Core:	NQ2		
															Assays			
Depth (m)		Description	%Py	%Cpy	%Bo/ Cc	%Mo	Qtz	Ser	Ca	Chl	Clay	RQD %	Ox	Sample Number	Interval (m)		%Cu Total	%Cu Non Sulf
From	To														From	To		
0	16.5	Casing/overburden													<b>no core split: Tertiary Volcanics no assay information</b>			
16.5	254.4	Light grey (Hbl)-Bio-Qtz Crystal Dacite (Tertiary). Massive w/ minor, local flow banding/ structures (tuffaceous?). Non-magnetic, unaltered, weakly weathered/oxidized minerals in/near fractures. Fracture sets 3-8 per metre at 40-50° C.A., subnormal ± subparallel (prominent nearer to EOH) to C.A. with weak clay ± hem ± lim (locally up section) coatings. Local chocolate-brown slips/gouge ~ 50-70° C.A., decreasing to absent down section. Rare ca veinlets (<1-5 mm wide, at 40-60° C.A.) and drusy zeolite (?) open space/fracture fill towards EOH. <b>16.5-28.0 m:</b> Moderately fractured/broken (8-12 per metre) Dacite with dusty yellow/brown clay-lim coatings throughout. Chocolate-brown clay-hem ± lim fault gouge common (1-2 per metre, 45-55° ± subparallel to C.A.) containing broken, angular fragments of unaltered, <b>weakly</b> crushed/milled dacite.  EOH 254.4 m	-1	-1	-1	-1	-1	-1	-1	-1	-1	-	-1					