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Toronto Stock Exchange symbol: GTY

**REPORT ON DIAMOND DRILLING AT THE GETTY NORTH (KRAIN),
GETTY SOUTH (TROJAN / SOUTH SEAS) AND GETTY WEST (TRANSVAAL)
AREAS, HIGHLAND VALLEY, BRITISH COLUMBIA, CANADA.
(JULY 15, 1995 TO NOVEMBER 30, 1996)**

**KAMLOOPS MINING DIVISION
NTS 92 I 10W/11E**

Lat: 121° 00' Long: 50° 35'
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,692

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FIGURE 3A, 3B. DRILL HOLE LOCATION MAPS	(back pocket)

APPENDICES (BINDERS #1, #2)

APPENDIX A DIAMOND DRILL LOGS (including assays): 95-01 to 95-33 incl., 96-01 to 96-22 incl., G96-23 to G96-37 incl., GS96-01 to GS96-13 incl., BH-01 and BH-02 incl., GW96-01, GL96-01 to GL96-08 incl.	
APPENDIX B CERTIFICATES OF ASSAY	
APPENDIX C LETTER-APPLICATION FOR PORTABLE ASSESSMENT CREDIT (PAC)	

SUMMARY

The purpose of this report is to support a Statement of Work (event #3096850) and an application for portable assessment credit (Appendix C). This report covers the period July 15, 1995 to November 30, 1996. Costs claimed include those of consulting, supervision, drilling, core logging, core splitting, core sampling, assaying core samples, preparation of surface plans and sections required for directing the drilling and for interpreting the results, and the preparation of this report (Table 1. Statement of costs). The costs of constructing access roads and drill pads, and of reclaiming the same, are neither claimed within the above mentioned Statement of Work nor the above mentioned application for portable assessment credit. Those costs were either already claimed or are being claimed in connection a Statement of Work soon to be filed.

As part of an extensive program of exploration and development, Getty Copper Corp. is conducting diamond drilling on its Highland Valley mineral property in the Kamloops Mining District of British Columbia, Canada. During the period covered by this report, 11,541.60 m of HQ-size core drilling and 11,282.80 m of NQ-2 size core drilling were accomplished (Table 4. 1995-1996 DDH parameters). Drilling took place at various locations on the property (Figure 3), but the majority of the drilling was conducted on, or in the near vicinity of, the Getty North porphyry copper deposit, historically known as the Krain Deposit, and the Getty South breccia-hosted copper deposit, historically known as the Trojan/South Seas Deposit. Drilling was done at these deposits for the purposes of obtaining data that would be used to calculate the ore reserves contained within these deposits. Additionally, some drilling was done in the near vicinity of these deposits in order to explore for additional ore. At other locations, the drilling performed was entirely exploratory.

LOCATION AND ACCESS

Getty Copper Corp.'s Highland Valley mineral tenure (Figure 1. Property Location Map) comprises approximately 110 sq. km of mineral rights, the south boundary of which is approximately located approximately 3 km north of the Highland Valley Copper Mine, and is adjacent to the Bethlehem Mine property. The claims are located on and around Forge Mountain, Cinder Hill and Bose Hill in an area of moderate relief, 1500 to 1830 meters above sea level. The Town of Logan Lake is located approximately 15 km to the east southeast, and Kamloops is situated about 70 km to the northeast of the property. Access to the property from BC Highway 97C, connecting the towns of Logan Lake and Ashcroft, is via the Bose Lake Forest Service Rd., which connects with BC Highway 97C at the old Bethlehem Mine property approximately 15 km west of the Town of Logan Lake. From this point, it is 3.5 km north on Bose Lake F. S. Rd. to Krain Rd., which is followed due north to the Getty South Deposit and camp/yard area at approximately 5.5 km, and to the Getty North Deposit area, which is at approximately 10 km. The Krain Rd. intersects the Forge Mtn. F. S. Rd. at approximately 11.5 km, at the boundary of the Transvaal Crown Grants (Getty Copper / Globe Resources option). Except during the Winter, one may return to the Krain Rd. from the Transvaal area via the Transvaal Rd. which joins the Krain R. at approximately 5 km on the Krain Rd. Alternate access to the Getty West-Transvaal area and the Getty North-Krain Deposit area can be gained from BC Highway 97C at approximately 5 km west of the Highland Valley Copper Mine viewpoint near the Bethlehem Mine by following the Cinder Hill F. S. Rd. for approximately 2.5 km to the Forge Mtn. F. S. Rd., and thence east approximately 6 km to the Getty West-Transvaal area.

Figure 2. Property Location Map

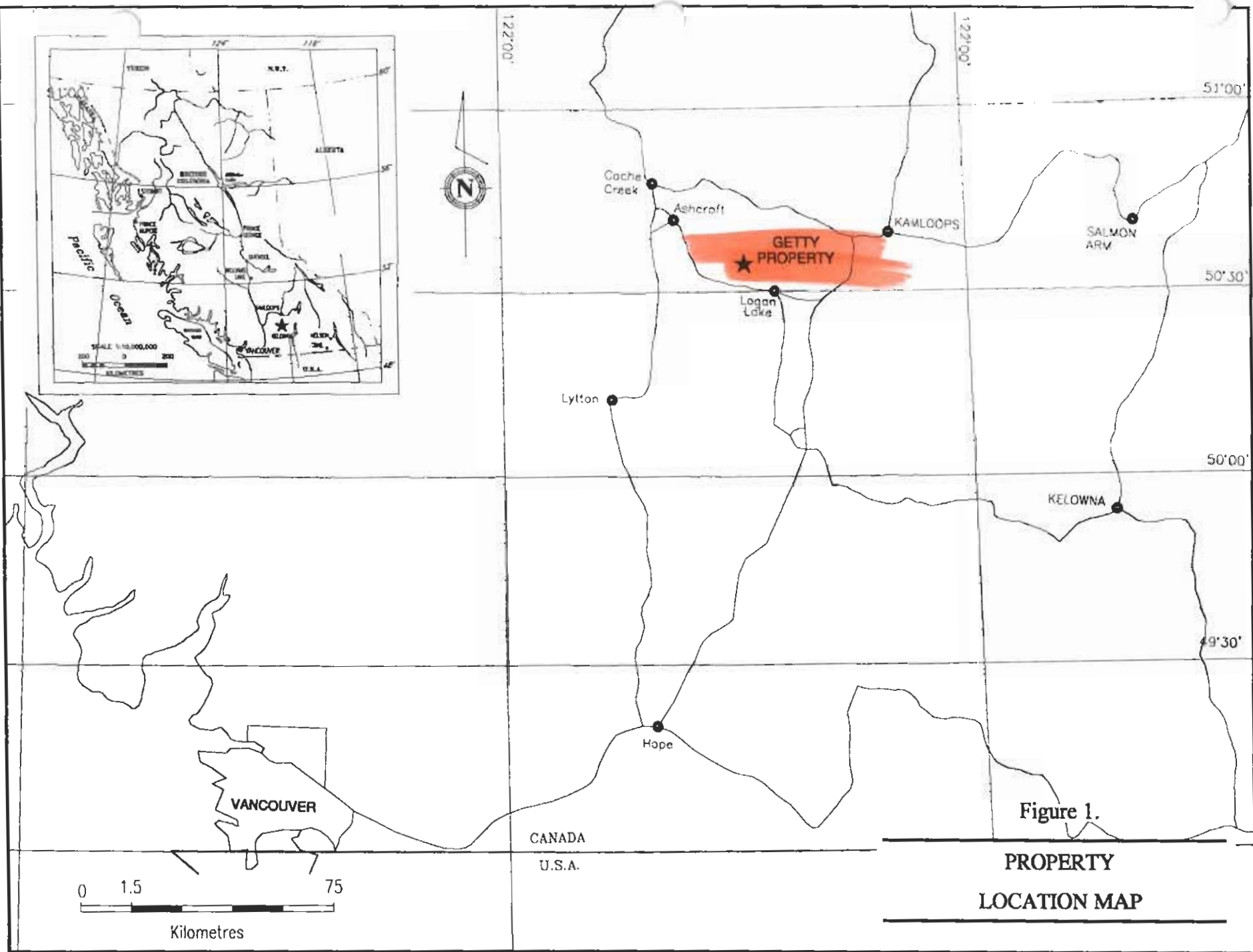


Figure 1.

PROPERTY LOCATION MAP

Watts, Griggs and McOrat

921/NE ← 921/NE → 921/NE

**BETTY COPPER CORP.
PROPERTY BOUNDARY**

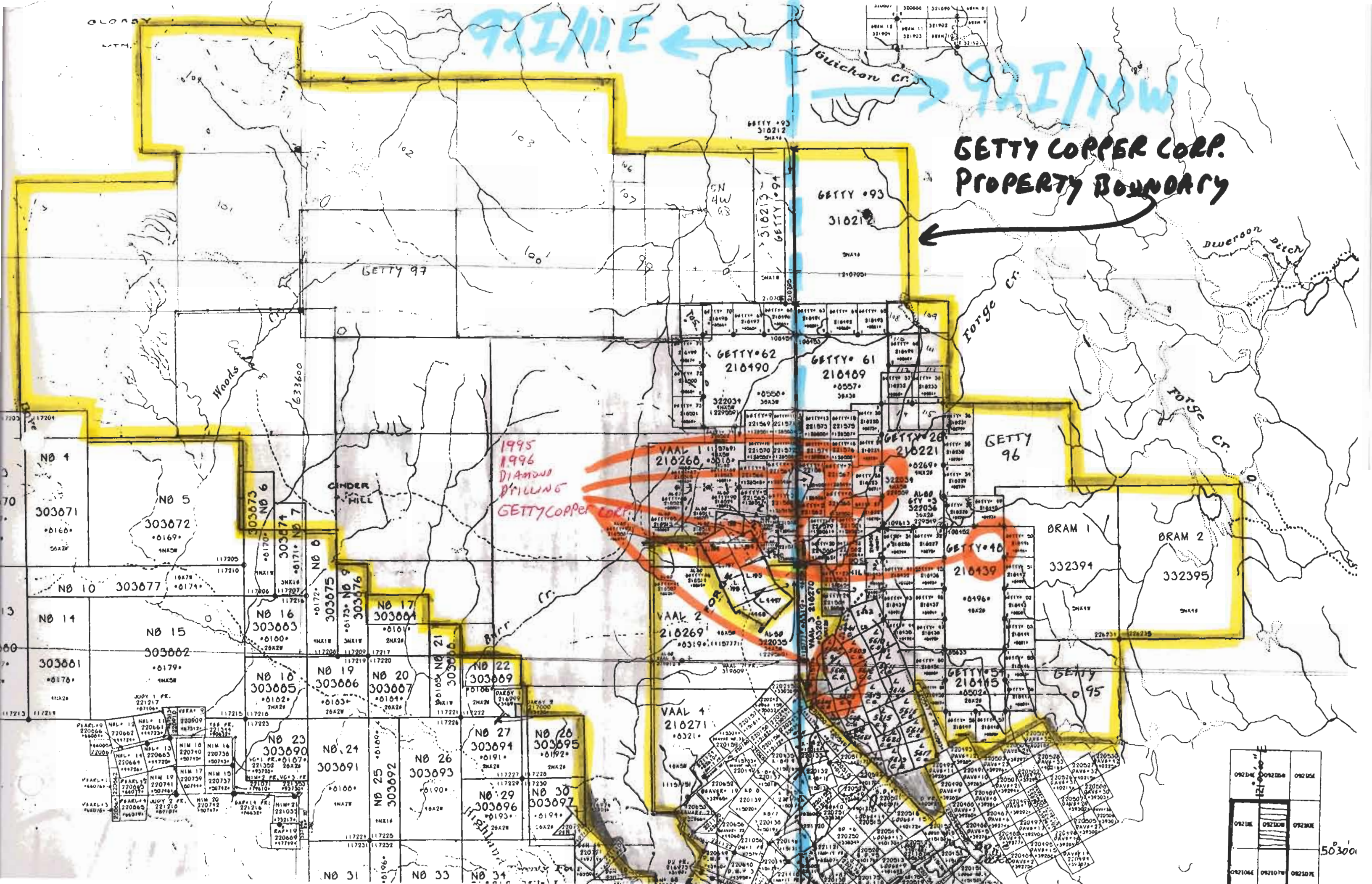


Table 2: Claim Status

Claim #	Tenure #	Units	Grp #	Expiry	Claim #	Tenure #	Units	Grp #	Expiry
Getty 1	221561	1	5	16-Aug-06	Getty 42	218433	1		13-May-06
Getty 2	221562	1	5	16-Aug-06	Getty 43	218434	1		13-May-06
Getty 3	221563	1	5	16-Aug-06	Getty 44	218435	1		13-May-06
Getty 4	221564	1	5	16-Aug-06	Getty 45	218436	1	4	15-May-06
Getty 5	221565	1	5	16-Aug-06	Getty 46	218437	1		15-May-06
Getty 6	221566	1	5	16-Aug-06	Getty 47	218438	1		15-May-06
Getty 7	221567	1	5	16-Aug-06	Getty 48	218439	8	4	17-May-06
Getty 8	221568	1	5	16-Aug-06	Getty 49	218440	1	4	16-May-06
Getty 9	221569	1	5	16-Aug-06	Getty 50	218441	1	4	16-May-06
Getty 10	221570	1	5	16-Aug-06	Getty 51	218442	1	4	16-May-06
Getty 11	221571	1	5	16-Aug-06	Getty 52	218443	1	4	16-May-06
Getty 12	221572	1	5	16-Aug-06	Getty 53	218444	1	4	17-May-06
Getty 13	221573	1	5	16-Aug-06	Getty 54	218445	4	4	19-May-06
Getty 14	221574	1	5	16-Aug-06	Getty 55	218446	1	4	19-May-06
Getty 15	221575	1	5	16-Aug-06	Getty 56	218447	1	4	19-May-06
Getty 16	221576	1	5	16-Aug-06	Getty 57	218448	1		19-May-06
Getty 17	221577	1	5	16-Aug-06	Getty 58	218449	1		19-May-06
Getty 18	221578	1	5	16-Aug-06	Getty 59	218450	1		19-May-06
Getty 19	221579	1	5	16-Aug-06	Getty 60	218451	1	4	19-May-06
Getty 20	221580	1	5	16-Aug-06	Getty 61	218489	9	4	06-Jun-06
Getty 21	221581	1	5	16-Aug-06	Getty 62	218490	9	4	06-Jun-06
Getty 22	221582	1	5	16-Aug-06	Getty 63	218491	1	4	06-Jun-06
Getty "A"	221585	1	5	16-Aug-06	Getty 64	218492	1	4	06-Jun-06
Getty 23	221583	1	4	16-Aug-06	Getty 65	218493	1	4	06-Jun-06
Getty 24	221584	1	4	16-Aug-06	Getty 66	218494	1	4	06-Jun-06
Getty 26	218221	8		07-Jan-06	Getty 67 Fr	218495	1	4	06-Jun-06
Getty 27	218222	1		05-Jan-06	Getty 68	218496	1	4	07-Jun-06
Getty 28	218223	1		05-Jan-06	Getty 69	218497	1	4	07-Jun-06
Getty 29	218224	1		05-Jan-06	Getty 70	218498	1	4	07-Jun-06
Getty 30	218225	1		07-Jan-06	Getty 71	218499	1	4	07-Jun-06
Getty 31	218226	1	4	06-Jan-06	Getty 72	218500	1	4	08-Jun-06
Getty 32	218227	1	4	06-Jan-06	Getty 73	218501	1	4	08-Jun-06
Getty 33	218228	1		06-Jan-06	Getty 74	218502	1	4	08-Jun-06
Getty 34	218229	1		06-Jan-06	Getty 75 Fr	218503	1	4	08-Jun-06
Getty 35	218230	1		06-Jan-06	Getty 76 Fr	218504	1	4	08-Jun-06
Getty 36	218231	1		06-Jan-06	Getty 77 Fr	218505	1	4	08-Jun-06
Getty 37	218232	1		07-Jan-06	Getty 78 Fr	218506	1	4	09-Jun-06
Getty 38	218233	1		07-Jan-06	Getty 79 Fr	218507	1	4	09-Jun-06
Getty 39	218430	1	4	13-May-06	Getty 80	218508	1	4	10-Jun-06

Table 2: Claim Status

Claim #	Tenure #	Units	Grp #	Expiry	Claim #	Tenure #	Units	Grp #	Expiry
Getty 40	218431	1	4	13-May-06	Getty 81	218509	1	4	10-Jun-06
Getty 41	218432	1	4	13-May-06	Getty 82 Fr	218510	1	4	10-Jun-06
Getty 83 Fr	218511	1	4	10-Jun-06	Getty 95	347448	16		16-Jun-06
Getty 85	218513	1	4	11-Jun-06	Getty 96	347449	20		26-Jun-06
Getty 86	218514	1	4	11-Jun-06	Getty 97	347996	20		04-Jul-97
Getty 87	218515	1	4	11-Jun-06	Getty 98	350444	20		10-Sep-97
Getty 88	218522	1	4	11-Jun-06	Getty 1000	345941	1		16-May-97
Getty 89	218523	1	4	11-Jun-06	Getty 2000	345942	1		16-May-97
Getty 90	218524	1	4	11-Jun-06	Getty 3000	345943	1		16-May-97
Getty 91	218557	1	4	01-Jul-06	Getty 4000	345944	1		16-May-97
Getty 92	218558	1	4	01-Jul-06	Getty 5000	345938	1		17-May-97
Getty 93	318212	20		16-Jun-06	Getty 6000	345939	1		18-May-06
Getty 94	318213	5		17-Jun-06	Getty 7000	345940	1		18-May-06
Bill No 1	Lot 5601				Cinder 1	344815	15		03-Apr-97
Bill No 3	Lot 5603				Cinder 2	344816	18		04-Apr-97
Bill No 4	Lot 5604				Cinder 3	344817	20		02-Apr-97
Bill No 5	Lot 5605				Cinder 4	344818	20		03-Apr-97
Bill No 6	Lot 5606				Cinder 5	344819	8		02-Apr-97
Bill No 7	Lot 5607				Cinder 6	344820	20		02-Apr-97
Bill No 8	Lot 5608				Cinder 7	344821	20		31-Mar-97
Bill No 9	Lot 5609				Cinder 8	350442	20		09-Sep-97
Bill No 10	Lot 5610				Cinder 9	350443	9		08-Sep-97
Bill No 11	Lot 5611				Forge 1	344822	1		03-Apr-97
Bill No 12	Lot 5612				Forge 2	344823	1		03-Apr-97
Bill No 13	Lot 5613				Forge 3	344824	1		03-Apr-97
Bill No 14	Lot 5614				Forge 4	344825	1		03-Apr-97
Bill No 15	Lot 5615				Forge 5	344826	1		01-Apr-97
Bill No 16	Lot 5616				Forge 6	344827	1		01-Apr-97
AJ No 1 Fr	Lot 5602				Forge 7	344828	1		01-Apr-97
AJ No 1 CG	Lot 5441				Forge 8	344829	1		01-Apr-97
AJ No 2 CG	Lot 5442				Forge 9	344830	1		31-Mar-97
AJ No 3	Lot 5483				Forge 10	344831	1		31-Mar-97
AJ No 4	Lot 5621				Forge 11	344832	1		31-Mar-97
AJ No 5	Lot 5619				Forge 12	344833	1		31-Mar-97
AJ No 6	Lot 5620				Forge 13	344834	1		31-Mar-97
AJ No 7	Lot 5617				Forge 14	344835	1		31-Mar-97
AJ No 8	Lot 5618				Forge 15	344836	1		30-Mar-97
GTY #1	322034	20	5	18-Oct-05	Forge 16	344837	1		30-Mar-97
GTY #2	322035	15	5	17-Oct-06	Forge 17	344838	1		30-Mar-97

Table 2: Claim Status

Claim #	Tenure #	Units	Grp #	Expiry
Forge 18	344839	1		30-Mar-97
GTY #3	322036	6	5	19-Oct-05
BRAM 1	332394	20		29-Oct-06
BRAM 2	332395	20		08-Nov-06
Getty 99	352201	8		23-Oct-97
Getty 100	352202	20		22-Oct-97
Getty 101	352203	20		21-Oct-97
Getty 102	352204	20		21-Oct-97
Getty 103	352205	20		23-Oct-97
Getty 104	352206	20		23-Oct-97
Getty #105	352207	1		23-Oct-97
Getty #106	352208	1		24-Oct-97
Getty #107	352209	1		24-Oct-97
Getty #108	352181	1		24-Oct-97
Getty #109	352182	1		24-Oct-97
Getty #110	352183	1		24-Oct-97
Getty #111	352184	1		24-Oct-97
Getty 112	352185	1		24-Oct-97
Getty 113	352186	1		24-Oct-97
Getty 114	352187	1		24-Oct-97
Getty 115	352188	1		24-Oct-97
TOTAL UNITS:		600		

TABLE 3. PREVIOUS DRILLING**GETTY NORTH AREA**

YEAR	COMPANY			
1956 - 57	Northlodge Copper	Diamond drilling.	27 holes	9,635 feet
1957 - 59	Kennco	Diamond drilling.	2 holes	2,170 feet
1964 - 65	North Pacific Mines	Diamond drilling.	8 holes	7,688 feet
		Percussion drilling.	17 holes	2,625 feet
1967	Isaac Shulman	Diamond drilling.	4 holes	2,775 feet
1968	North Pacific Mines			
1968 - 69	Noranda	Diamond drilling.	7 holes	3,140 feet
1970	North Pacific Mines	Percussion drilling.	25 holes	3,770 feet
1971 - 72	Getty Mining	Percussion drilling.	16 holes	5,792 feet
		Diamond drilling.	3 holes	2,050 feet
1972 - 73	Quintana Minerals	Percussion drilling.	16 holes	4,972 feet
1974 - 92	Robak Industries Ltd.	Percussion drilling.		
1993	Getty Copper Corp.	Diamond drilling.	5 holes	1,830 feet

GETTY SOUTH AREA

YEAR	COMPANY			
1955-73	Trojan Exploration Ltd.	Diamond drilling (from surface)		62,976 feet
		Diamond drilling (from underground)		3,801 feet
		Percussion drilling		1,048 feet
		also Underground drifting		6,000 feet
		2 compartment shaft		161 feet
		Trenching		1,300 feet

GEOLOGY OF THE PROPERTY (contd.)

The Getty North Deposit, situated in the north-central portion of the Guichon Creek Batholith, is underlain predominantly by Guichon variety quartz diorite, and has been intruded by Bethlehem phase porphyry dikes and various other smaller, moderate to weakly porphyritic. Ore occurs mainly in very altered, Guichon (monzo)granodiorite in close proximity to Bethlehem phase intrusives. At these locales, the dike rock usually contains concentrations of copper within the range of 0.05% to 0.25%, or more, and occasionally contributes to the ore reserves. The deposit is approximately 300m NW by 200m NE by 300 M deep and is open at depth to the northwest, west, and south. A thick, well developed oxide cap produced by surface weathering has been preserved over the central and northern parts of deposit, where it exceeds 100m in thickness. In this layer, oxidation of primary ore sulphides is generally complete, and copper exists as malachite, azurite, chrysocolla, cuprite, tenorite, chalcocite and native copper. Primary sulphides generally occur beneath the oxidized zone. The deposit may have been fragmented by faulting, especially on its west side, where movement within the orebody along a steep (-75°), westerly-dipping splay of the Krain fault appears to have caused vertical displacement of ore on the order of 400 - 500 feet. The latest global resource estimate calculated for the Getty North Deposit is 80,000,000 tonnes grading 0.31 % Cu (pers. comm., December, 1996; D. McCombe; Watts, Griffis, McOuat).

The Getty South (Trojan / South Seas) deposit is contained within a large body of polymictic breccia of undetermined depth, having surface dimensions of approximately 500 m by 300 m. The breccia zone is slightly elongated along its N-S axis, appears to be fault bounded on its eastern side, and dips moderately to the west. The breccia consists of fragments of Guichon quartz diorite, porphyritic quartz diorite and dacite porphyry cemented together by cryptocrystalline tourmaline and quartz. Chalcopyrite is the primary copper ore mineral, bornite is infrequent. In the near-surface weathered layer, malachite and native copper also occur in addition to chalcopyrite. Accessory gangue minerals include brown mica, calcite, chlorite, and specular hematite. Previous underground development (approximately 1800 m) accessed mineralized zones grading 0.39% Cu over 95 m, 0.19% over 105m, and 0.58% over 69 m. A geological resource of 35,000,000 tonnes grading 0.47% Cu is inferred by Gower (1992).

The Getty West - Transvaal area hosts numerous surface showings of chalcopyrite, malachite, azurite and chrysocolla. Historically, a small amount of high grade copper ore was mined from narrow structures accessed by the Transvaal adit and the Chamberlain shaft. Gold has been reported in two zones containing high grade copper mineralization (0.04 oz Au/tonne with 1.8% Cu; and 0.07 oz Au/tonne with 4.8% Cu). The Transvaal area is underlain by Guichon quartz diorite which has been intruded by Bethlehem phase quartz diorite porphyry dikes and stocks. West and northwest of the Transvaal area these rocks have been intruded by what appears to be a biotite-quartz-lattice plug and associated dikes. Copper mineralization at the Getty West - Transvaal area is spatially related to the Bethlehem phase intrusives. Numerous intensely-altered, well-mineralized granitic crush zones are exposed at the surface.

Table 4: 1995-1996 Diamond Drill Hole Parameters

hole#	dip	length	horizontal travel	vertical travel	azm	elev.	UTM NAD 83 Coordinates		Claim #
							Northing	Easting	
95-1	-45	233.5	165.1	165.1	340	1709.9	5604031.5	641616.8	Getty A Fr.
95-2	-45	179.0	126.6	126.6	136	1706.4	5604088.2	641656.9	Getty A Fr.
95-3	-45	87.5	61.9	61.9	003	1706.1	5604088.9	641663.3	Getty A Fr.
95-4	-90	182.6	0.0	182.6	-	1741.2	5604066.5	641576.8	Getty 4
95-5	-90	224.3	0.0	224.3	-	1751.0	5603989.1	641487.7	Getty 3
95-6	-90	241.5	0.0	241.5	-	1754.5	5604057.5	641509.0	Getty 4
95-7	-45	266.4	188.4	188.4	045	1757.0	5604079.0	641509.0	Getty 4
95-8	-90	182.9	0.0	182.9	-	1755.1	5604108.9	641528.8	Getty 4
95-9	-50	182.9	117.6	140.1	045	1754.2	5604145.6	641542.7	Getty 4
95-10	-45	132.9	94.0	94.0	225	1754.2	5604145.6	641542.7	Getty 4
95-11	-45	289.6	204.8	204.8	043	1751.1	5603996.4	641495.2	Getty 3
95-12	-90	146.0	0.0	146.0	-	1754.8	5604178.0	641543.6	Getty 4
95-13	-45	181.7	128.5	128.5	045	1754.8	5614176.3	641543.3	Getty 4
95-14	-45	218.0	154.1	154.1	045	1746.0	5604121.8	641858.0	Getty 4
95-15	-60	291.1	145.6	252.1	225	1741.2	5604066.5	641576.8	Getty 4
95-16	-60	157.0	78.5	136.0	225	1735.9	5604000.1	641563.6	Getty 3
95-17	-65	260.0	109.9	235.6	045	1710.3	5604032.2	641619.7	Getty A Fr.
95-18	-65	331.6	140.1	300.5	045	1712.1	5603977.2	641592.2	Getty A Fr.
95-19	-75	313.9	81.2	303.2	045	1718.5	5603957.4	641642.6	Getty A Fr.
95-20	-50	197.4	126.9	151.2	045	1718.5	5603957.4	641642.6	Getty A Fr.
95-21	-65	230.8	97.5	209.2	045	1706.8	5603903.5	641691.3	Getty A Fr.
95-22	-45	217.0	153.4	153.4	045	1706.8	5603903.5	641691.3	Getty A Fr.
95-23	-50	178.5	114.7	136.7	045	1689.9	5603889.6	641756.7	Getty 2
95-24	-90	246.9	0.0	246.9	-	1689.9	5603889.6	641756.7	Getty 2
95-25	-45	210.0	148.5	148.5	225	1669.4	5603940.6	641854.1	Getty 2
95-26	-70	350.5	119.9	329.4	225	1669.4	5603940.6	641854.1	Getty 2
95-27	-50	253.0	162.6	193.8	315	1689.9	5603889.6	641756.7	Getty 2
95-28	-90	384.0	0.0	384.0	-	-	-	-	Getty A Fr.
95-29	-65	171.6	72.5	155.5	045	1706.4	5604086.0	641660.5	Getty A Fr.
95-30	-45	165.2	116.8	116.8	045	1706.4	5604086.0	641660.5	Getty A Fr.
95-31	-45	234.8	166.0	166.0	263	-	-	-	Getty A Fr.
95-32	-50	425.2	273.3	325.7	225	-	-	-	Getty A Fr.
95-33	-65	285.3	120.6	258.6	225	1710.3	5604032.2	641619.7	Getty A Fr.
96-1	-65	308.4	130.3	279.5	040	1751.5	5603930.7	641655.8	Getty A Fr.
96-2	-45	274.3	194.0	194.0	045	1741.2	5604066.6	641576.8	Getty 4
96-3	-75	405.7	105.0	391.9	135	1741.2	5604066.6	641576.8	Getty 4
96-4	-55	207.3	118.9	169.8	315	1741.2	5604066.6	641576.8	Getty 4
96-5	-45	185.9	131.5	131.5	315	1754.8	5604177.7	641543.4	Getty 4
96-6	-45	285.6	201.9	201.9	020?	1754.8	5604177.7	641543.4	Getty 4
96-7	-45	249.0	176.1	176.1	045	1718.1	5603917.2	641625.9	Getty A Fr.
96-8	-65	365.7	154.6	331.4	045	1718.1	5603917.2	641625.9	Getty A Fr.
96-9	-45	277.7	196.4	196.4	045	1714.2	5603998.5	641683.7	Getty A Fr.
96-10	-45	286.5	202.6	202.6	050	1712.2	5603977.2	641592.2	Getty A Fr.
96-11	-50	190.2	122.3	145.7	045	1711.5	5603910.1	641663.1	Getty A Fr.
96-12	-80	297.2	51.6	292.7	045	1711.5	5603910.1	641663.1	Getty A Fr.
96-13	-45	230.1	162.7	162.7	087	1751.9	5604219.4	641493.5	Getty 4
96-14	-65	219.5	92.8	198.9	088	1751.9	5604219.4	641493.5	Getty 4
96-15	-45	332.2	234.9	234.9	270	1757.0	5604272.3	641647.3	Getty A Fr.
96-16	-60	319.4	159.7	276.6	045	1725.0	5603801.5	641513.8	Getty 3
96-17	-60	475.5	237.8	411.8	045	1742.0	5603835.8	641465.2	Getty 3
96-18	-60	334.3	167.2	289.5	090	1685.0 +	5603630.1	641737.7	Getty 19
96-19	-70	310.9	106.3	292.2	045	1702.0	5603818.3	641659.5	Getty 2

Table 4: 1995-1996 Diamond Drill Hole Parameters

hole#	dip	length	horizontal travel	vertical travel	azm	elev.	UTM NAD 83 Coordinates		Claim #
							Northing	Easting	
96-20	-45	242.0	171.1	171.1	270	1704.7	5604265.4	641801.4	Getty A Fr.
96-21	-45	222.5	157.3	157.3	000	1650.2	5603370.1	641451.8	Getty 21
GS96-1	-45	301.1	212.9	212.9	090	1630	5600563	642419	C.G. L5606
GS96-2*	-45	54.8	38.7	38.7	090	1624	5600563	642287	C.G. L5606
GS96-3	-50	338.9	217.8	259.6	090	1624	5600563	642287	C.G. L5606
GS96-4	-45	305.4	216.0	216.0	090	1596	5600534	642065	C.G. L5603
GS96-5	-45	268.2	189.6	189.6	090	1640	5600732	642274	C.G. L5603
GS96-6	-45	313.9	222.0	222.0	090	1610	5600747	642153	C.G. L5603
96-22	-50	270.7	174.0	207.4	090	1725	5603812	641515	Getty 3
GS96-7	-45	245.3	173.5	173.5	270	1610	5600747	642153	C.G. L5603
GS96-8*	-45	44.2	31.3	31.3	270	1575	5600647	642057	C.G. L5606
96-23	-45	143.9	101.8	101.8	045	1681	5604004	641792	Getty 2
GS96-9	-45	241.1	170.5	170.5	270	1595	5600638	642057	C.G. L5606
96-24	-47	145.7	99.4	106.6	270	1677.8	5603382	641769	Getty 19
GS96-10	-45	303.3	214.5	214.5	270	1620	5600647	642528	C.G. L5605
96-25	-45	206.7	146.2	146.2	090	1654.1	5603394	642012	Getty 19
96-26	-45	199.9	141.4	141.4	090	1673.3	5603273	641756	Getty 19
96-27	-45	139.6	98.7	98.7	090	1680	5602990	642200	Getty 22
GS96-11	-45	260.9	184.5	184.5	090	1617	5600863	642208	C.G. L5603
GS96-12	-45	301.7	213.3	213.3	090	1637	5600856	643367	C.G. L5604
96-28	-45	304.2	215.1	215.1	270	1680	5602990	642200	Getty 22
96-29*	-45	48.8	34.5	34.5	090	1667	5603215	642230	Getty 22
GS96-13	-45	257.4	182.0	182.0	090	1595	5600400	642405	C.G. L5608
96-30	-60	185.4	92.7	160.6	090	1667	5603215	642230	Getty 22
BH96-1	-60	244.7	122.4	211.9	090	1688	5603190	640060	Getty 48
96-31	-45	179.2	126.7	126.7	090	1668	5603140	642005	Getty 20
BH96-2	-45	150.3	106.3	106.3	090	1704	5602810	644160	Getty 48
96-32	-45	175.6	124.2	124.2	090	1605	5604500	642520	Getty 28
96-33	-45	284.4	201.1	201.1	270	1605	5604500	642520	Getty 28
96-34	-45	184.8	130.7	130.7	270	1650	5603490	641965	Getty 19
GW96-1	-45	254.4	179.9	179.9	090	1746	5603315	640200	Getty 85
GL96-1	-45	175.3	124.0	124.0	270	1777	5603080	640445	C.G. L196
GL96-2	-45	361.2	255.4	255.4	090	1777	5603080	640445	C.G. L196
GL96-3	-45	318.5	225.2	225.2	090	1785	5603060	640705	C.G. L194
96-35	-55	192.6	110.5	157.8	045	1760	5604190	641610	Getty 4
96-36	-50	123.5	79.4	94.6	045	1752	5604175	641625	Getty 4
96-37	-60	404.8	202.4	350.6	090	1798	5604020	641328	Getty 4
GL96-4	-45	333.8	236.0	236.0	045	1798	5602930	640425	C.G. L196
GL96-5	-45	211.8	149.8	149.8	270	1798	5602930	640425	C.G. L196
GL96-6	-70	86.9	29.7	81.7	270	1762	5603236	640524	C.G. L196
GL96-7	-90	300.8	0.0	300.8	000	1762	5603236	640524	C.G. L196
GL96-8	-45	288.0	203.6	203.6	090	1762	5603236	640524	C.G. L196
TOTAL METRES:		22,824.20							
TOTAL FEET:		74,886.20							

1995-1996 DRILLING PROGRAM

Getty North (Krain) Deposit and area

During 1995 and 1996, the Company conducted diamond drilling at the Getty North deposit in order to upgrade reserve calculations, and in order to develop additional reserves in the Northeast Copper-oxide Extension zone and the West Extension zone (Table 4. 1995-1996 DDH parameters). South of the deposit, exploratory drilling was done on targets determined by geological, geophysical and geochemical indications. Drilling on the West Extension zone is expected to continue throughout Winter 1997. Significant results obtained during this portion of the drilling program were:

GETTY NORTH DIAMOND DRILLING: SIGNIFICANT RESULTS OF 1995 PROGRAM

DDH #	True Width (feet)	Total Cu (%)	Non-Sulphide Cu (%)
95-1	141	0.45	0.39
	100	0.36	
95-2	17	0.58	0.46
	93	0.45	
95-3	121	0.64	0.36
	31	0.42	
95-5	108	0.41	
95-6	10	0.81	0.71
	50	0.48	0.34
	305	0.35	
95-7	300	0.71	0.64
	123	0.57	
95-8	290	0.67	
	20	0.62	
95-9	63	0.52	0.40
	45	0.36	0.32
	136	0.62	0.57
	49	0.44	
95-10	59	0.50	0.23
	20	0.43	0.15
95-11	111	0.57	0.41
	90	0.48	
95-12	157	0.62	0.48
95-13	118	0.57	0.34
95-14	77	0.43	0.24
	80	0.43	
95-15	236	0.61	0.55
	42	0.46	
	102	0.34	
	213	0.42	
95-17	87	0.47	0.37
	66	0.31	0.20
	124	0.49	
	142	0.53	
95-18	138	0.69	

DDH #	True Width (feet)	Total Cu (%)	Non-Sulphide Cu (%)
	325	0.69	
95-19	143	0.55	
	123	0.39	
	197	0.46	
95-20	114	0.51	
	35	0.38	
95-21	74	0.36	
95-22	40	0.42	
	40	0.40	
95-24	20	0.71	
	30	0.58	
95-25	25	0.35	
	30	0.34	
95-27	364	0.45	
95-28	300	0.39	
95-29	103	0.49	0.46
	161	0.44	
95-30	59	0.57	0.53
	111	0.38	
95-31	118	0.32	
95-32	155	0.50	
95-33	107	0.72	0.64
	778	0.43	

GETTY NORTH DIAMOND DRILLING: SIGNIFICANT RESULTS OF 1996 PROGRAM

Hole #	From (m)	To (m)	Length (m)	Length (ft)	Cu (%)
96-1	139.5	220.5	81.0	266	0.20
96-2	78.7	150.7	82.0	136	0.54
96-3	11.0	81.5	70.5	231	0.62
	129.5	180.5	51.0	167	0.28
	230.0	360.5	130.5	428	0.40
96-4	9.1	190.6	181.5	585.0	0.50
	190.6	207.1	16.5	54.0	0.29
96-5	40.7	72.2	31.5	103.0	0.85
	87.2	105.2	18.0	59.0	0.54
96-6	34.7	51.2	16.5	54.0	0.40
	51.2	64.7	13.5	44.0	0.28
	64.7	145.7	81.0	266.0	0.61
	156.2	166.7	10.5	34.0	0.59
96-7	83.0	129.5	46.5	153.0	0.53
	141.5	170.0	28.5	94.0	0.40
	170.0	182.0	12.0	39.0	0.27
96-8	102.1	228.1	126.0	413.0	0.46
96-9	42.1	93.1	51.0	167.0	0.45
	127.6	133.6	6.0	20.0	0.54
	160.0	165.1	5.1	17.0	0.88
96-10	34.5	115.5	81.0	266.0	0.57
	145.5	207.0	61.5	202.0	0.50
96-11	88.8	138.3	49.5	162.0	0.25

Hole #	From (m)	To (m)	Length (m)	Length (ft)	Cu (%)
	138.3	148.8	10.5	34.0	0.44
96-12	97.4	223.4	126.0	413.0	0.39
	257.9	274.4	16.5	54.0	0.26
96-13	48.8	192.0	143.2	470.0	0.70
96-14	47.2	132.6	85.4	280.0	0.58
	132.6	147.8	15.2	50.0	0.27
96-15	107.5	119.5	12.0	39.0	0.35
	165.5	183.5	18.0	59.0	0.28
96-17	235.0	285.0	50.0	164.0	0.41
	351.0	447.0	94.0	308.0	0.48
	235.0	447.0	212.0	695.0	0.38
96-23	35.8	39.8	4.0	13.1	0.29
96-25	139.0	141.0	2.0	6.6	0.44
	177.0	179.0	2.0	6.6	0.45
96-26	58.0	60.0	2.0	6.6	0.26
	108.0	110.0	2.0	6.6	0.30
	132.0	134.0	2.0	6.6	0.30
	148.0	150.0	2.0	6.6	0.80
96-28	138.0	154.0	16.0	52.5	0.18
	174.0	180.0	6.0	19.7	0.26
96-29	lost @ 48.8m				
96-32	90.0	96.0	6.0	19.7	0.28
96-34	17.0	29.0	12	39.4	0.25
96-35	99.0	151.0	52	170.6	0.50
96-36	lost @ 123.5m in 0.93% Cu				
	112.0	123.5	11.5	37.7	0.28
96-37	210.0	228.0	18.0	59.0	0.20
	228.0	304.0	76.0	249.4	0.58
	344.0	380.0	36.0	118.1	0.46
	380.0	404.8	24.8	81.4	0.30 (hole lost)

Getty South (Trojan / South Seas) Deposit area

During 1996, the Company conducted a 13 hole drilling program (Table 4. 1995-1996 DDH parameters: GS96-01 to GS96-13 incl.) on the Getty South Deposit, but did not yet fully confirm earlier resource estimates of 35M tonnes of 0.47% Cu. A substantial amount of additional drilling will be required. Significant results obtained at this locale were:

GETTY SOUTH DIAMOND DRILLING: SIGNIFICANT RESULTS OF 1996 PROGRAM

Hole #	From (m)	To (m)	Length (m)	Length (ft)	Cu (%)
GS96-1	33.0	51.0	18.0	59.0	1.63
	67.0	77.0	10.0	32.8	0.34
	33.0	103.0	70.0	229.6	0.53
GS96-2		hole lost @ 25.7			<0.25
GS96-3	60.0	92.0	32.0	104.6	0.31
	298.0	312.0	14.0	51.8	0.39
GS96-4	64.8	68.8	4.0	13.1	0.27
	72.8	76.8	4.0	13.1	0.35
	105.0	107.0	2.0	6.6	0.33
	129.0	131.0	430	13.1	0.28
	187.0	203.0	16.0	52.32	0.31
	261.0	265.0	4.0	13.1	1.01
GS96-5	20.0	22.0	2.0	6.6	0.26
	218.0	226.0	8.0	26.16	0.48
GS96-6	32.5	34.5	2.0	6.6	0.51
	56.5	72.5	16.0	52.3	0.76
	110.5	120.5	10.0	32.7	0.35
	186.5	190.5	4.0	13.1	0.31
	194.5	196.5	2.0	6.6	0.33
	252.5	270.5	18.0	58.9	0.38
	294.5	296.5	3.0	6.6	0.25
GS96-7	136.0	154.0	18.0	58.9	0.33
	170.0	174.0	2.0	6.6	0.35
	184.0	186.0	2.0	6.6	0.27
	190.0	192.0	2.0	6.6	0.34
GS96-8		hole lost @ 42.2			
GS96-9	31.2	33.2	2.0	6.6	0.50
	59.2	63.2	4.0	13.1	0.93
	87.2	91.2	4.0	13.1	1.12
	99.2	103.2	4.0	13.1	0.54
	119.2	121.2	2.0	6.6	0.43
	127.2	129.2	2.0	6.6	0.68
	135.2	137.2	2.0	6.6	0.37
	189.2	191.2	2.0	6.6	0.58
GS96-10	201.0	203.0	2.0	6.6	0.31
	231.0	241.0	10.0	32.7	0.44
	274.0	249.0	2.0	6.6	0.43
GS96-11	97.0	99.0	2.0	6.6	0.30
	113.0	115.0	2.0	6.6	0.40
	121.0	1230	2.0	6.6	0.37
	133.0	135.0	2.0	6.6	0.26
	143.0	151.0	8.0	26.2	0.42

GS96-12	54.0	56.0	2.0	6.6	0.45
	66.0	74.0	8.0	26.2	0.25
	258.0	260.0	2.0	6.6	0.75

Getty West area / Transvaal area (Globe Resources Ltd./Getty Copper Corp.)

In October 1996, the Company entered into an agreement with Globe Resources Ltd. regarding exploration and acquisition of Globe's Transvaal/Highland Crown Grants (8 units). Since that time, the Company drilled 8 holes (Table 4. 1995-1996 DDH parameters: GL96-01 to GL96-08) on Globe's property in an area west of the Transvaal adit and Chamberlain Shaft, and one hole (GW96-01) in the nearby Getty West area. The current drilling investigated geological and geophysical targets located west of the Transvaal adit or in the vicinity the Chamberlain shaft. The Company intends to conduct additional drilling on this property. Significant results obtained from this portion of the drilling program were:

GETTY WEST / TRANSVAAL DIAMOND DRILLING: SIGNIFICANT RESULTS OF 1996 PROGRAM

Hole #	From (m)	To (m)	Length (m)	Length (ft)	% Copper
GL96-3	23.0	33.0	10.0	32.8	0.20
GL96-4	130.0	136.0	6.0	19.7	0.25
	256.0	262.0	6.0	19.7	0.11
GL96-6	57.0	67.0	10.0	32.8	0.15
GL96-7	62.0	72.0	10.0	32.8	0.26
	80.0	98.0	18.0	59.1	0.17
	148.0	158.0	10.0	32.8	0.14
	166.0	172.0	6.0	19.7	0.36
GL96-8	232.0	274.0	42.0	137.8	0.26

Other Drilling

The Company performed a small amount of exploratory drilling both on the northeastern flank of Bose Hill (Table 4. 1995-1996 DDH parameters; BH-1, 2) and at a location approximately 1.1 km northeast of the Getty North deposit (Table 4. 1995-1996 DDH parameters: 96-32, 33). Significant results obtained from this portion of the drilling program were:

Hole #	From (m)	To (m)	Length (m)	Length (ft)	Cu (%)
BH96-1	189.0	197.0	8.0	26.2	0.14
96-32	90.0	96.0	6.0	19.7	0.28

REFERENCES

- Blann, D. E. (1996) Report on the Getty Copper Property, Highland Valley, British Columbia. for Getty Copper Corp. 1000 Austin Ave., Coquitlam, B. C.
- Gower, S. C. (1996) Report on diamond drilling on the Getty North Property. for Getty Copper Corp. 1000 Austin Ave., Coquitlam, B. C.
- Gower, S. C. (1993) Preliminary Evaluation of the Getty West Mineral Prospect. for Globe Resources Inc. 1000 Austin Ave., Coquitlam, B. C.
- Gower, S. C., (1992) Compilation report on the Getty South property. for J. B. Lepinski, 1000 Austin Ave., Coquitlam, B. C. V3K 3P3
- Skopos, M. J. (1996) Geology and Evaluation Report of the Getty Copper Project, Highland Valley, British Columbia. for Getty Copper Corp., , 1000 Austin Ave., Coquitlam, B. C. V3K 3P3
- Watts, Griffis and McOuat Ltd. (1996) Getty Copper Corp. Highland Valley Project Summary. Watts, Griffis and McOuat Ltd., Toronto. for Getty Copper Corp., , 1000 Austin Ave., Coquitlam, B. C. V3K 3P3

STATEMENT OF COSTS

This statement of costs includes costs incurred during the period July 15, 1995 to November 30, 1996, except for costs related to diamond drill holes 95-17, 18, 29 and 30, which were reported previously (Statements of Work event #'s 3045283, 3045393, 3077668 and 3080999). The costs claimed herein are those in connection with core diamond drilling performed on Getty Copper Corp.'s Highland Valley mineral tenure, which consists of approximately 110 sq. km. of contiguous, staked mineral claims and Crown-granted mineral claims. The worked covered by this Statement of Cost consisted of field supervision; core drilling; core logging and petrologic examinations; core splitting; core sampling; rock sample assaying; production of geological plans and cross sections; consultations with professional geologists and professional engineers; and the preparation of this report (Total: \$2,855,032.94). A portion of these costs (\$136,436) was previously claimed for assessment credit (Statements of Work event #3096850). The remainder (**\$2,718,596.94**) is to be credited to the portable assessment credit accounts (PAC) of the parties concerned, in the following proportions: Getty Copper Corp. (60%), Robak Industries (30%), and J. B. Lepinski (10%).

TABLE 1. Costs of diamond drilling and related technical work (July 15, 1995 to November 30, 1996).

Diamond Drilling: (Core logs w/assays, Appendix A)	\$2,359,281.61
J. T. Thomas Diamond Drilling Ltd. (74.2% of total)	
Kootenay Exploration Drilling Ltd. (15.5% of total)	
Core Enterprises Ltd. (10.3% of total)	
Assaying: (Certificates of Assays, Appendix B)	\$234,966.62
Analytical (Eco-Tech Laboratories, Kamloops, and Chemex Laboratories, Vancouver)	
Professional Services:	\$260,784.71
<i>Field Supervision:</i>	
S. Gower, P. Geo. (to April 04, 1996)	
D. Blann, P. Eng., and B. Perry, Ph. D., (April 04, 1996 to November 30, 1996)	
<i>Core logging:</i>	
S. Gower, V. Niessen, P. Malacarne, R. Whiteaker, D. Blann. B. Perry	
<i>Core splitting and sampling:</i>	
M. King, E. Thompson (to April 04, 1996),	
<i>Compilation of data and preparation of sections:</i>	
K.E. Northcote, V. Niessen, R. Whiteaker and Watts, Griffis, McOuat Ltd.	
<i>Report Preparation:</i>	
B. Perry, T. Lowen	
<i>Consultation and computer modeling:</i>	
Watts, Griffis, McOuat Ltd.	
Mohan Valdere	
TOTAL:	\$2,855,032.94

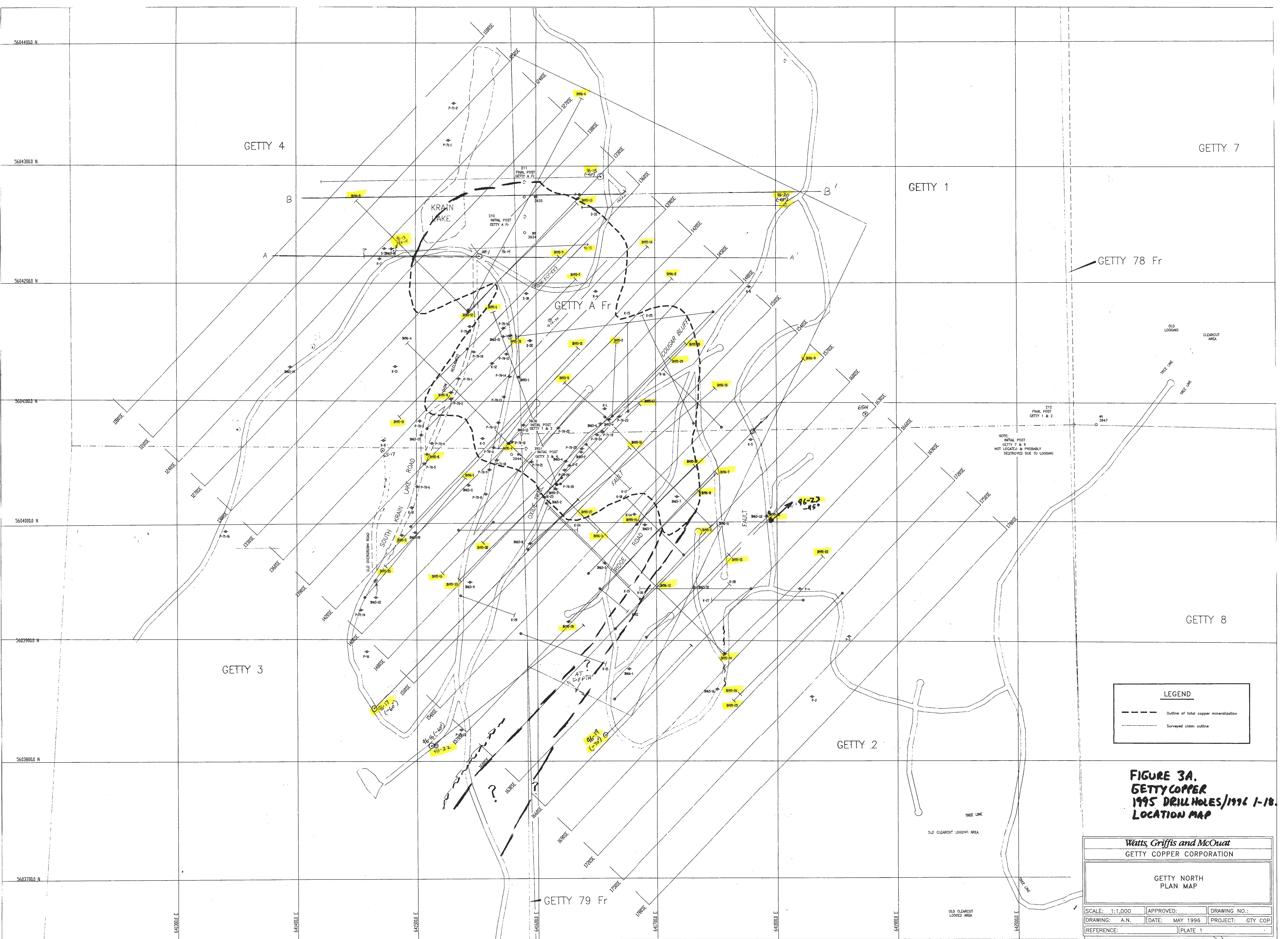
STATEMENT OF QUALIFICATIONS

I, BRUCE J. PERRY (Ph. D.), of Kamloops, B.C., do hereby certify that:

- 1) I obtained a Geology Specialist B. Sc. degree (with distinction) from the University of Toronto in 1987, an M. Sc. degree in Geology and Analytical Geochemistry from the University of Toronto in 1990, and a Ph. D. degree in Geology and Analytical Geochemistry from the University of Toronto in 1994.
- 2) I have been Practicing as a Geologist and Analytical Geochemist nearly continuously for a period of approximately 10 years, and have worked in this capacity for a variety of mining, exploration and consulting companies in Canada.
- 3) In British Columbia, I have been continuously employed as a Geologist, working in the field of mineral exploration, development and production, since August, 1993. I hold BC Supervisor certification for surface exploration, open pit and underground operations (each valid until 2001).
- 4) I am registered with the Association of Professional Engineers and Geoscientists of the Province of B.C. as a practicing Geologist, and have applied for P. Geo. designation within the Association.
- 5) I have been working on contract to the Getty Copper Corp.'s Highland Valley Project, exclusively and continuously, since April 04, 1996, initially as assistant Manager, then as Manager, from mid-December through to the present.



**BRUCE J. PERRY, M. Sc. , Ph. D.
LOGAN LAKE, B.C.
DECEMBER 24, 1996**



LEGEND
 - - - - - Outline of total copper mineralization
 _____ Surveyed claim outline

**FIGURE 3A.
 GETTY COPPER
 1995 DRILL HOLES/1996 1-18.
 LOCATION MAP**

Watts, Griffis and McQuat GETTY COPPER CORPORATION		
GETTY NORTH PLAN MAP		
SCALE: 1:1,000	APPROVED: _____	DRAWING NO.: _____
DRAWING: A.N.	DATE: MAY 1996	PROJECT: GTY COP
REFERENCE: _____	PLATE 1	

Core Size Chart

1995 GN						1996 GN						1996 GS, BH, GW & GL			
Hole #	Length	HQ to?	NQ from?	HQ (m)	NQ (m)	Hole #	Length	HQ to?	NQ from?	HQ (m)	NQ (m)	Hole #	Length	Length -- HQ	NQ from?
95-1	233.5	233.5	0	233.5	0	96-1	308.4	308.4	0	308.4	0	GS96-1	301.1	0	all NQ
95-2	179.0	179.0	0	179.0	0	96-2	274.3	123.4	123.4	123.4	150.9	GS96-2	54.8	0	all NQ
95-3	87.5	87.5	0	87.5	0	96-3	405.7	154.4	154.4	154.4	251.3	GS96-3	338.9	0	all NQ
95-4	182.6	182.6	0	182.6	0	96-4	207.3	207.3	0	207.3	0	GS96-4	305.4	0	all NQ
95-5	224.3	224.3	0	224.3	0	96-5	185.9	185.9	0	185.9	0	GS96-5	268.4	0	all NQ
95-6	241.5	241.5	0	241.5	0	96-6	285.6	199.0	199.0	199.0	86.6	GS96-6	313.9	0	all NQ
95-7	266.4	266.4	0	266.4	0	96-7	249.0	167.6	167.6	167.6	81.4	GS96-7	245.3	0	all NQ
95-8	182.9	182.9	0	182.9	0	96-8	365.7	157.9	157.9	157.9	207.8	GS96-8	44.2	0	all NQ
95-9	182.9	182.9	0	182.9	0	96-9	277.7	277.7	0	277.7	0	GS96-9	241.1	0	all NQ
95-10	132.9	132.9	0	132.9	0	96-10	286.5	286.5	0	286.5	0	GS96-10	303.3	0	all NQ
95-11	289.6	289.6	0	289.6	0	96-11	190.2	190.2	0	190.2	0	GS96-11	260.9	0	all NQ
95-12	146.0	146.0	0	146.0	0	96-12	297.2	297.2	0	297.2	0	GS96-12	301.7	0	all NQ
95-13	181.7	181.7	0	181.7	0	96-13	230.1	230.1	0	230.1	0	GS96-13	257.4	0	all NQ
95-14	218.0	218.0	0	218.0	0	96-14	219.5	219.5	0	219.5	0	BH96-1	244.7	0	all NQ
95-15	291.1	291.1	0	291.1	0	96-15	332.2	332.2	0	332.2	0	BH96-2	150.3	0	all NQ
95-16	157.0	157.0	0	157.0	0	96-16	319.4	183.5	183.5	183.5	135.9	GW96-1	254.4	0	all NQ
95-17	260.0	260.0	0	260.0	0	96-17	475.5	216.4	216.4	216.4	259.1	GL96-1	175.3	0	all NQ
95-18	331.6	331.6	0	331.6	0	96-18	334.3	141.4	141.4	141.4	192.9	GL96-2	361.2	0	all NQ
95-19	313.9	313.9	0	313.9	0	96-19	310.9	189.0	189.0	189.0	121.9	GL96-3	318.5	0	all NQ
95-20	197.4	197.4	0	197.4	0	96-20	242.0	121.9	121.9	121.9	120.1	GL96-4	333.8	0	all NQ
95-21	230.8	230.8	0	230.8	0	96-21	222.5	97.0	97.0	97.0	125.5	GL96-5	211.8	0	all NQ
95-22	217.0	217.0	0	217.0	0	96-22	270.7	0	all NQ	0	270.7	GL96-6	86.9	0	all NQ
95-23	178.5	178.5	0	178.5	0	96-23	143.9	0	all NQ	0	143.9	GL96-7	300.8	0	all NQ
95-24	246.9	246.9	0	246.9	0	96-24	145.7	0	all NQ	0	145.7	GL96-8	288.0	0	all NQ
95-25	210.0	210.0	0	210.0	0	96-25	206.7	0	all NQ	0	206.7				
95-26	350.5	350.5	0	350.5	0	96-26	199.9	0	all NQ	0	199.9				
95-27	253.0	253.0	0	253.0	0	96-27	139.6	0	all NQ	0	139.6				
95-28	384.0	384.0	0	384.0	0	96-28	304.2	0	all NQ	0	304.2				
95-29	171.6	171.6	0	171.6	0	96-29	48.8	0	all NQ	0	48.8				
95-30	165.2	165.2	0	165.2	0	96-30	165.4	0	all NQ	0	165.4				
95-31	234.8	234.8	0	234.8	0	96-31	179.2	0	all NQ	0	179.2				
95-32	425.2	204.8	204.8	204.8	220.4	96-32	175.6	0	all NQ	0	175.6				
95-33	285.3	108.2	108.2	108.2	177.1	96-33	284.4	0	all NQ	0	284.4				
						96-34	184.8	0	all NQ	0	184.8				
						96-35	192.6	0	all NQ	0	192.6				
						96-36	123.5	0	all NQ	0	123.5				
						96-37	404.8	0	all NQ	0	404.8				
TOTAL in 1995:				7,255.10	397.50	TOTAL in 1996:				4,288.50	4,923.20	TOTAL:		5,982.10	
				HQ (m)	NQ (m)					HQ (m)	NQ (m)			NQ (m)	

*NQ2 rods not on site until DH95-32.

Total HQ drilling: 11,541.60 m
 Total NQ drilling: 11,282.80 m
TOTAL DRILLING: 22,824.40 m
 74,886.86 feet

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-1	Date:	29-Jul	Relogged?:	Setting up logging system: 1st DDH requires relogging Ken	Logged by:	KN VN												
Elevation:	1709.9 m	Azimuth:	340			Northing:	5604031.5												
Inclination:	-45	Length:	233.5 m			Easting:	641616.8												
		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS			
ROCK TYPE		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary						
interval (m)									perv.	fract.		perv	fract	perv	fract				
3.04-3.83	overburden															tr		How long is the adit that is nearby? Any dump material in proximity to the DH?	
3.83-4.65	Guichon		shatt				Fe Mn												
4.65-7.20	Guichon		mod	chlr at 45°	qtz to 1cm at 40-45° C.A.		Fe at 30-40° C.A.		chlr	chlr						wk		Guich, mafic-rich/ locally hybrid, patchy assim of xenoliths. Note pinkish brn blebs on core surface.	
7.20-7.32	Guichon		shatt		qtz to 0.5cm		Fe (Cu) (Mn)		qtz										
7.32-8.74	Guichon		stng		qtz to 0.5 cm at 5-10° C.A.		Fe, (Cu) (Mn)			ep, chlr									
8.74-11.0	Guichon		shatt/loc crushed				Fe (Mn)									tr		10-10.67 More competent interval but still abundantly fractured.	
11.0-12.10	Guichon		bx dis (structure)	ser	ser (qtz)		Fe(Cu) (Mn)		ser (qtz)									Stng ser in bx matrix, qtz vein frag; mod Fe stain in matrix. Guichon dislocation bx, clasts to 4cm, open spaces. Bx-ation result of structure, fault related.	
12.10-13.71	Guichon		shat	ser			Fe,(Mn)		ser	chlr,bio								Mn spotted on frags.	
13.71-14.25	Guichon		bx(ckle)	chlr ser	qtz to > 1 cm 5-45°		Fe(Mn) Cu		ser chlr									Wider qtz veins, abundant narrow sericite and chlr on frags.	
14.25-14.33	Guichon		shatt	ser	qtz to >1 cm to 45° vugs		Fe, (Mn) Cu		ser									Guich, Mn spotted on frags.	
14.33-14.93	Guichon		mod	ser, chlr	ser to 0.5 cm at 0-10° qtz to 1cm		Fe, (Mn) Cu		ser chlr									Mn spotted	
14.93-15.24	Guichon		shatt	ser, cly?			Fe, (Cu)(Mn)		ser cly?									Shattered.	
15.24-16.65	Guichon		stng/ckle vugs	ser	qtz to 0.5 cm at 80+ 90° C.A.		Fe, (Cu) (Mn)		ser chlr									Guich, strong fract/ckle/vugs ald ser, lesser chlr, some Cu stain with ser. Mn spotted on frags.	

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)																	
16.65-18.00	Guichon		mod ckle	(chlr)ser	ser and frags		Cu, Fe (hem) Cu (Mn)		ser (chlr)	ser chlr						Local stng Cu in ser vns in loc shatt zone, stng hem. Guich, abd fract'd but solid core w/bkn scns. Fract heavy Fe-stain/hem. Ser on frags, assoc Cu stain. Spotted Mn. Deut-eric alteration of biotite and plagioclase to chlr and ser (?) respectively.	
18.00-18.29	Guichon		shatt	ser	-		(Fe) (Cu)		ser	chlr ser		(chrys)				Guichon shattered.	
18.29-18.56	Guichon		stng	ser, chlr	qtz to 0.5 cm. some w/chlr selv at 5-10°	(Cu?)	(Fe)Cu	ser chlr (blebs)	ser chlr qtz	chlr		chrys, (mal)				Should grade. Guichon, bleached, loc (+) perv ser- fract controlled, assoc Cu stain. Qtz veins, some with chlr-ser envelopes.	
18.56-19.51	Guichon		shatt	ser	qtz to << 0.5 wk		Fe (Mn) (Cu)		ser qtz	chlr ser						Weak mineralization. Guichon.	
19.51-21.64	Guichon		ckle/bkn	ser chlr (cly?)	ser thin		Fe, Cu Mn		ser patchy cly	chlr ser		chrys (mal)				Weak mineralization. Guichon, generally broken with comp. Ckle zone about 50 cm at top 20.5-20.6 m bkn, jar, w/ cly(?)	
21.64-22.86	Guichon		stng fract loc ckle Few open spaces	ser, chlr w/ser	qtz vn frags, to 1 cm at 50-60°C.A.		Cu(Fe)	(ser)	ser chlr	chlr ser		chrys (wk)				Weak mineralization. Guichon, strongly fractured.	
22.86-23.16	Guichon		shatt	ser, chlr	-		(Fe) (Cu)		ser chlr	chlr		((chrys))				Milled by drilling. Guichon rubble.	
23.16-23.33	Guichon		bx dis frags to 6 cm	ser,	-		Fe (Mn)	ser in bx mat	cly?	chlr						Weak Cu. Guich dislocation bx, strong ser. Noted fragments with coarse phenocrysts similar to Bethlehem.	
23.33-25.40	Guichon		mod/stng loc bkn	as abv (cly?)	qtz to 1cm		(Fe)(Cu) (Mn)		ser chlr (cly)	chlr						Guichon, moderate comp, mod to stng fracturing locally broken.	
25.40-25.91	Guichon		stng	ser cly(?); qtz crystals	-		Fe (Cu) Mn		ser chlr cly(?)	chlr ser		(chrys)				Weak Cu. Guichon, strong frags.	
25.91-26.93	Guichon bx fault related		bx, stng ckle	ser, chlr	ser/chlr// qtz to 1cm ser selv, 10-15°		Fe, Cu		ser chlr/ ser	chlr ser		chrys, sugg assoc w/ qtz ser				Wk/mod Cu. Guichon, blch, intensely fract to ckle bx. Strong ser in broad zones on frags. Chlorite/ser, small bands.	
26.93-27.70	Guichon bx shatt		bx, shatt	ser	qtz to 0.5 cm		Cu(Fe)		ser chlr cly(?)	chlr ser		chrys, Cu bearing Mn				Mod Cu, few fract fillings chrys. Guich bx, shatt by drilling. Blch stng ser in frags. Small amts of Cu bearing Mn(?) sooty ten?	

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
27.70-28.85	Guichon		stng/ckle some open spaces.	chlr, ser (cly)	qtz to 1 cm, bx		(Fe)(Mn) ((Cu))		(cly) ser, qtz chlr	chlr						Very wk Cu. Guich, stng ckle, weak spotty bleaching.		
28.85-29.50	Guichon		stng/ckle some open spaces.	ser, chlr cly	qtz to 1 cm, vugs		(Fe)(Mn) Cu		cly ser chlr qtz	chlr	chrys (mal)					Mod/stng Cu. Noted 1 small fracture filled with snow white microxtine clay. Guich, stng ckle, stng ser, (cly) on fract. assoc Cu. Slight changes med to finer grained.		
29.50-30.48	Guichon (altered)		shatt, bx	ser, chlr	qtz frags abd		(Fe)(Mn)	cly, ser chlr		chlr		chrys (mal)				Stng Cu. Guich, fault related bx, shatt during drilling.		
30.48-31.15	Guichon bx		shatt bx	ser	(qtz) frags ser	Cu in bx mat	Fe, Cu Mn		ser cly(?)	chlr ser	chrys, sooty Mn bearing Cu (ten) in fracts.					Stng Cu. Guich, fault related bx. Cu stained ser vnlt.		
31.15-31.70	Guichon bx		comp stng fract	ser	qtz <0.5 cm		Fe, Cu (Mn)		ser chlr ser in bx mat		chrys (mal)					Mod Cu.		
31.70-31.95	Guichon bx	loc at 45° C.A.	shatt loc sl comp	ser		Cu in bx mat Fe	Fe, (Mn) Cu	ser, Cu stained cly(?) ser			chrys					Stng Fe stain, mod/stng Cu loc. Guich bx.		
31.95-32.61	Guichon bx		ckle/bkn	ser	qtz & (carb) irreg	Fe(loc)	Fe (Cu)	ser	ser chlr	chlr ser	chrys					Chrys (Cu stain) with ser, fract. Guich, loc perv ser alt; ser, chlr Fe on irreg fracs Irreg qtz. 32.33-32.43 m sugary apite at 80° C.A. strong fracts.		
32.61-33.01	gge at 20°	mod	milled	ser		Fe, Cu	Fe(stng)	ser								Expect this to grade Cu. Fe stain hem/jar Gouge.		
33.01-35.33	Guichon		mod/loc sntg slip surf; loc bx vugs.	ser	qtz to 1cm at 30° smaller var orient'n fragmented	loc in bx mat	Fe, loc Cu, (Mn)	(ser)	ser	chlr ser	chrys					Less Cu that above less perv. Hem loc strong in fracts. Guich, mod/stng fract, loc bx with perv alt and Cu stain.		
35.33-35.66	Guichon/Beth		bkn/shatt	ser	qtz to < 0.5 cm bkn	Cu in bx mat	Cu, Fe/ (jar-hem) (Mn)				chrys					Guich/Beth.		
35.66-36.48	Guichon/Beth		mod fract	ser	qtz to > 0.5cm bkn		Fe, Cu (Mn)		ser chlr	chlr ser	chrys					Guich/beth		
38.48-37.20	Guichon/Beth		shatt, loc comp. Abd fracts	ser, chlr	qtz		Cu loc stng Fe(jar)		ser chlr	chlr ser	chrys					Cu stain with ser on fract surf. Bkn with comp interval. Guich/beth, bkn core with comp interval. 36.77-36.95 similar to int. above.		

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal perv.	hydrothermal fract.	deuteric	supergene perv.	supergene fract.	primary perv.	primary fract.			
37.20-38.33	Guichon/Beth	-	mod/stng comp	ser, chlr	qtz wk	-	ser, Cu Fe(Mn)	-	ser chlr	chlr, ser	chrys	-	-	-	-	-	Cu stained ser and chrys loc stng on fracts. Guich/beth, abd fract but comp. 37.80-38.10 scatt partially assim inclusions, very fine irreg patches.
38.33-40.60	Guichon/Beth	-	stng/ckle shatt int	ser, chlr	qtz to >2 cm 5-45° C.A. bkn	-	Cu/ser Fe(jar)	-	ser chlr	chlr ser	chrys	-	-	-	-	-	Cu stained ser and wk chrys. Guich/beth abd fract to ckle bx; abd qtz vns to >2cm, broken.
40.60-41.33	Guichon/Beth	-	mod/wk fracts	ser, chlr	qtz to 1cm wk at 5°	-	Cu/ser (Cu)(Fe)	-	ser	chlr ser	(chrys)	-	-	-	-	-	Wk Cu section. Guich/beth, <u>bleached appearance</u> , deuteric/hyd altn bio to chlr.
41.33-42.67	?	fault bx	crushed	ser, chlr	-	-	Fe diff patches	-	chlr ser	chlr ser	-	-	-	-	-	-	No signif Cu. Polymictic- frags to >5cm. Strong chlr/ser altn.
42.67-43.95	?	fault bx	crushed slip surfaces	ser, chlr	-	-	Fe diff patches	-	chlr ser	chlr ser	-	-	-	-	-	-	Polymictic frags to 2 cm. Stronger ser/weaker chlr
43.95-44.81	?	gge	crushed	ser (chlr) cly(?)	-	Fe stng Hem patchy	Fe stng hem patchy	-	ser (chlr)	ser (chlr) cly(?)	-	-	-	-	-	-	Bright orange-red. Pale cream, patchy deep brownish red Fe stain, frags to <1cm. Strong ser, cly.
44.81-55.99	tert dyke	-	wk	-	-	-	-	-	-	-	-	-	-	-	-	wk/ mod	Solid. Andesite dyke, med/dark grey/black/brwn fine/ very fine grained mafic, hbde>bio, calc in "vesicles" washed out on core surface. Weak foliation. Note: Cave int 45.15 m Check for cup. Watch assays. Porphyry fine to med grained plag, lesser mafic hbde >bio in a very fine K-sp? rich grndmass. [Req staining to confirm K-sp in presence of so much hem] Frags to >10cm. In a perv to ptchy hem rich bx mat. Strong orange-red colour.
55.99-58.16	Porph dyke pink	wk	bx dis clasts to 15 cm	hem, ser	-	hem in bx mat	hem (Mn)	-	ser in bx mat	-	Cu? stn	-	-	-	-	-	Check for cuprite. Watch assays. Porph mottled pinkish grndmss, more comp, less bkn.
58.2-60.0	Porph dyke pink	-	wk/mod/ comp	hem, ser	-	-	hem (stng) jar(Mn)	-	ser	-	Cu? stn	-	-	-	-	-	Check for cuprite. Watch assays. Porph mottled pinkish grndmss, more comp, less bkn.
60.0-60.4	Porph dyke pink	-	abd bkn loc bx (dis)	as abv	-	-	as abv	-	ser	-	as abv	-	-	-	-	-	As above. Abundantly broken.
60.4-61.3	Porph dyke pink/grey	-	mod bkn	hem ser	-	-	as abv	-	ser	-	as abv	-	-	-	-	-	Porph similar to above, mafics coarser, widely disseminated plag phenos slightly coarser with slightly coarser grndmss. Mottled pink and pinkish cream.
61.3-61.7	Porph	-	shatt	hem ser	-	-	hem (stng)	-	ser	-	as above	-	-	-	-	-	Check for cuprite. Watch assays. Porph shatt int.
61.7-62.7	Porph	wk	mod	ser	-	-	Fe(Mn)	-	ser	-	-	-	-	-	-	tr	Mag assoc with mafics. Porph, pink/grey grndmss coarser showing a texture change grading to "Crowded porph" then to grey porph with distinct plag and mafic phenos. 62.4-62.5 --crushed zone, stng Fe stain, ser on fracts.
62.7-63.0	Porph	-	stng	chlr ser	-	-	(Fe) top (Mn)	-	chlr ser	-	cup?	pyr	-	-	-	wk	Suspect cuprite. Porph, grey/green phenocrysts of hornblende>bio, plag.
63.0-65.1	Porph (gry/pink)	-	mod; loc stng	chlr, ser carb	-	-	-	-	chlr ser carb	-	-	pyr	-	-	-	-	Porph, gry/pinkish, phenos conspicuous, plag and mafic abd bkn short section.

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		
65.1-65.5	Porph	-	stng bkn to shatt	chl, ser	-	-	NCu	-	NCu	-	-	NCu	-	as abv	-	-	NCu!! Porph, similar to above. NCu on fracts.
65.5-66.5	Porph	-	mod/stng	chl, ser	-	-	-	-	ser	-	-	pyr	-	as abv	-	-	Porph, similar to abv. Phenos as abv. Diss pyr.
66.5-66.7	Porph	-	stng/mod	ser	-	-	Cu (Fe) (Mn)	-	ser	-	-	pyr	-	as abv	-	-	Cu stained ser. As above.
66.7-68.0	Porph	-	mod	ser, chl	-	-	-	-	ser	-	-	NCu	-	as abv	-	-	NCu. As above, NCu at 67.9m.
68.0-68.7	Porph-grey	-	mod/stng	chl, ser	-	-	-	-	chl	-	-	-	-	pyr	-	wk	Very fine pyr at 68.1/68.5.
68.7-69.7	Porph-grey	-	wk/mod	chl, ser (carb)	-	-	(Fe)Cu?	-	ser	-	-	Cu	-	pyr	-	wk	Suspected Cu at margin of Fe stain. Porph, light grey, conspicuous f/mag mafic and less conspic plag phenos.
69.7-70.9	Porph-grey	-	as abv	chl, carb ser	-	-	Fe (jar) Cu	-	ser	-	-	cup?	-	-	-	wk	Suspected Cu, patchy Cu colour on fracts with ser. Porph, as above. 69.9 apilite at 90° ~ 1cm
70.9-72.3	Porph-grey/cream	-	stng, loc mod	ser, chl	-	-	Fe(jar) (Mn)	-	ser	-	-	cup?	-	-	-	tr	No conspic Cu stain or NCu. Mag assoc with mafics. Porph, light grey/cream, becoming coarser grained; locally fine grained.
72.3-72.8	Porph	-	wk	chl, ser	-	-	(Fe, jar) Cu	-	ser	-	-	NCu	-	-	-	tr	NCu! at 72.7. Grey pink, conspic phenos plag and mafics.
72.8-74.5	Porph	thin surf	stng	chl, ser, carb	-	-	Fe, jar	-	asabv	-	-	cup	-	-	-	wk	Porph.
74.5-75.4	Porph	-	mod	chl, ser	-	-	Fe(jar) Cu(cup) (chrys) (Mn)	-	ser	chl	ser	cup	-	(chrys)	-	sl	Cu colour stain with Fe on fracts, min cup chrys. Porph, grey/pink mottled, grades into crowded porph. Fe and bright Cu and red coloured cup? on fracts, tr chrys.
75.4-75.7	Porph grades to Beth	-	mod/stng	Fe(jar) chl, ser (Cu stain)	-	-	Fe(jar) Cu (chrys)	-	asabv	as abv	-	cup	-	(chrys)	-	sl	Cu as above with NCu. Porph, as above, more abd fract'd, porph grades to crowded then matrix coarsens to Beth phase.
75.7-79.4	Beth	-	wk, conj at 45° comp interval	ser(Cu stnd)	-	-	Fe(jar) (goe) Cu, cup (Mn)	-	asabv	asabv	-	cup	-	NCu	-	sl	NCu diss in stained ser. Beth, grey, conspic phenos mafics, plag, texture changes to slightly coarser matrix. Minute diss NCu on core surface indicates diss in mat.
79.4-81.1	Beth & Porph	-	mod/stng shatt loc	ser, carb	-	-	(Fe(jar)) Cu stn (Mn)	-	ser	chl	ser	cup	-	-	-	(tr)	Cu stain with ser. Beth with sections porph showing very fine matrix.
81.1-84.3	Beth & Porph	-	wk	ser, carb chl	-	-	Fe (hem) Cu (Mn)	-	ser	chl	ser	Cu (chrys)	-	pyr	-	-	Cu, loc stng on fracts. Beth w/ sect'ns of very fine porph, some pink to purplish and grn chrlitic. 81.8-82.3---Disloc bx, shear related, Fe stnd mat, ser. 82.6---Shear zone 1-2 cm, Fe stnd, slip surfaces, incl calcite vein. With related Fe stnd fracts immediately above.
84.3-84.8	Porph (Fe stain)	-	wk/mod	ser	-	Fe	Fe, Mn	-	ser	-	-	hem	-	-	-	-	Hem, assoc with shearing. Fe stained zone, shear related, strong hem.
84.8-86.0	Beth? chl	-	wk	ser carb (wk)	carb, 1cm	-	Fe, Mn	-	chl	ser	chl	(chrys)	-	-	-	tr	Chrys at 86.0. Beth? chl. Strong green colour.

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
86.0-88.1	Beth?	loc	int	carb, ser	-	Fe(Cu)	hem stng Fe stain	-	ser in bx mat	ser carb	ser! chl	(chrys)				Poss Cu colour stain with hem. Bx from clay size to 3cm, subangular. Strong Fe (hem) perv stain, stronger in fract. Perv stain. Fault related. Few short competent intervals to 10-15 cm.		
88.1-90.0	Beth	-	wk	ser (+chrys)	chl, calc 1cm (+)	-	Fe, Mn (Cu)	-	-	ser (chl) (carb)	ser chl	(chrys) Cu	(pyr tr)			NCu, Cu coloured mix with ser. Beth, fine grained, porphyritic, chl altn of mafics local finer grained sections.		
90.0-90.4	Beth	-	stng	ser/Cu stn	-	-	Fe, Cu	-	-	ser	ser chl	NCu	-			NCu. Same as above/ feldspars altered to ser		
90.4-93.8	Beth	-	wk/mod	ser	-	-	Fe, Cu chrys Mn	-	-	ser	ser chl	NCu wk- diss	NCu (chrys)	(pyr)		NCu diss throughout. Very fine in fract. Beth- grey with spotty pinkish areas NCu visible diss in core.		
93.8-95.9	Beth/Porph	-	wk/mod	as abv (chl)	qtz<0.5cm	-	Fe	-	-	ser chl qtz	chl ser	asabv	NCu	pyr		Very fine pyr in fract. NCu, local dendritic, in fract. Beth, as abv. Characteristic mafic distribution NCu noted on fract surfaces and dissem in core. Fe stain stinger on fract. Becoming fine to very fine porphyritic at base of interval.		
95.9-96.2	Porph	-	as abv	ser, sl chrys stn of ser	-	-	Fe(Mn) Cu(grn)	-	ser	ser chl	ser (perv) chl	NCu diss	NCu (chrys)	tr pyr		NCu fine diss in fract and grdmss. Porph, bich/patchy bleached, perv ser altn of plag		
96.2-98.3	Porph/intra- mgled Beth	-	mod	Grn Cu stn ser chl	-	-	as abv	-	-	asabv	ser chl	NCu diss	NCu	-		NCu diss assoc with chloritic mafics and on fract. Intermingling of porph and very fine Beth. Colour pink, gm ser alt plag phenos.		
98.3-100.3	Beth/ intermgled Porph	-	wk at 45°	carb, ser stnd grn	-	-	Fe, ser stained green (Cu)	-	-	ser carb	ser chl	NCu diss		Tr diss pyr	wk	NCu diss in grdmss. Beth, generally pinkish grdmss, porphyritic with fine but visible xtaline grdmss. Porphyritic ints some w/ sharp contacts others diffuse contacts, suggest Beth-related porph injections. 99.0 Localized hem staining strong.		
100.3-100.7	Beth/Porph	-	stng bkn/ ckle bx zone	ser (chl) carb	-	-	Fe/cup (Mn) grn Cu stn	-	-	ser chl carb	ser chl		cup	-		Cup stain in ser. As above interval, ckle disloc bx.		
100.7-101.7	Beth/Porph	-	wk/mod	ser, ser- stained by cup.	-	-	as abv red cup stn	-	ser	ser	ser	(chrys) hem (cup)	tr diss pyr			cup stain in ser traces (+) chrys. Porph/ intermgled porph, grading to crowded porph.		
101.7-103.0	shear/gge	-	int	ser,hem chrys in ser	-	-	Fe	-	ser	ser	ser	chrys in ser	cup	as abv		Chrys in ser. Cup in fract. Stng shear, gge, perv ser in chrys stain.		
103.0-104.3	Beth/Guich?	-	wk/mod	ser,cup	diffuse sil and chl	-	Fe (jar) Mn, Cu	-	sil chl	ser	ser chl	chrys	-			Beth/guich?, ghost like textured remnants, mottled by chloritic and siliceous alt/impregnation. Bleaching on fract. Chrys staining of ser.		
104.3-105.8	Beth/Guich?	wk in shears	mod/stng	ser, carb chrys (cly)	qtz 0.5cm at 50° diff sil & chl	-	Fe(jar) Mn,chrys	-	asabv	ser carb (cly)	asabv	chrys	-			Beth/guich? as for interval abv. Chrys and cuprite? staining of ser.		

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
105.8-106.6	Beth/Guich?	-	wk/mod	carb, ser, grn	diff sil & (chlr)	-	as abv w/(Mn) dends grn Cu	-	asabv	asabv	asabv	chrys				Beth/guich? as for int above.		
106.6-108.8	Guichon	-	wk/mod stnger at base	chrys stning of ser. carb, chlr ser	qtz<0.5cm at 45-50°	-	Fe, grn stained ser	-	-	ser chlr	chlr	NCu cup chrys	cup pyr			Guich, coarser grained, typical.		
108.8-109.5	Guich/Beth	wk	int	ser chrys, chlr carb	-	-	Fe, ser chrys	-	-	ser chlr carb	chlr	chrys				Guich/beth grey with pinkish patches.		
109.5-110.3	Guichon	-	wk	ser,(pyr) carb	at 45° ca cup, carb ~ 1cm	-	Fe	-	-	ser carb	ser chlr	cup?				Cup in vn, may be NCu. Guich-gry grn w/ evenly distrib maf/plag & maf alt on both sides of vn~3cm to ser&chlr/alt along fract		
110.3-112.0	Guichon	-	wk	ser chrys	qtz at < 45°	-	Fe, grn stnd ser	-	-	ser qtz	ser chlr	chrys	chalco, bornite			Bornite? Guich, gry/grn with evenly distri- buted mafics/bornite?/alt along fract.		
112.0-112.3	Guichon?	int	int	carb ser,grn stn	carb qtz <1cm	-	Fe(Mn) Cu grn	-	-	ser carb qtz	ser		tarnish?			Fabric of guich destroyed, fine gouge - clast <1cm/veining parallel to fault gge/alt of plag and mafics extends 10 cm assoc w/ fault and gge.		
112.3-112.8	Guichon	int	wk	ser carb	-	-	Fe, grn stnd ser	-	-	ser carb	ser					Guich fabric altered plag to ser, mafics to chlr?/fractures filled with qtz or carb. Faulting parallel to core axis or 0-5°. Carb in gge.		
112.8-113.6	Guichon? fault gouge	int, cly?	int	ser,(Mn) carb	-	-	as abv w/ (Mn)	-	ser	ser, carb	ser					Fault gouge appear to be at ~5-10° to core axis/ fault clasts ~ 1cm or less subangular		
113.6-114.9	Guichon	-	mod	grn stnd ser,carb chlr,chrys qtz	stkwk int up to 2cm	-	Fe (Mn) NCu	-	ser carb chlr qtz	asabv w/chlr qtz cly?	ser chlr	chrys, cup? N Cu				Chrys assoc with stkwk. Guich, grey- black/pink, even distrib of mafics. Top ser replacement of plag. Bottom blotchy pink.		
114.9-116.3	Guichon	-	int/mod	grn stnd ser, chlr,	-	-	Fe (Mn) NCu?	-	-	ser, Fe	ser chlr	cuprite? chrys NCu?				Guich, gry-blk/pink even distrib of mafics/ shattered at 115m		
116.3-118.1	Guichon	-	as abv	ser	-	-	Fe, grn stain ser NCu Mn Fe, Mn	-	ser	ser, Fe	ser	cuprite? chrys				Guich, grey/blk, mafics even distribution.		
118.1-118.3	Guichon	-	int	ser	-	-	Fe, Mn	-	-	ser.		cup NCu ser				As above.		
118.3-119.3	Guichon	-	mod/wk	ser, chlr cup, NCu, chrys	qtz at 45° <1cm, qtz // to ca <2cm	-	cup chrys Fe, grn stnd ser	-	-	ser chlr qtz	ser chlr qtz	cup NCu chrys				Guich, as abv. Siliceous shatter zone 118.6-118.9. NCu, cuprite are assoc with shatter zone. NCu and cup assoc with shatter zone.		
119.3-120.8	Guichon	-	mod	ser chlr, carb	-	-	Fe cup NCu	-	-	ser chlr carb		cup NCu				Guich, grey, evenly dist mafics, ratio plag to mafic increasing mafics altered to chlr. Some fract oriented parallel to core axis.		
120.8-122.3	Guichon	-	wk/mod	carb, cup, ser	qtz at 30- 45° <2cm	-	cup, NCu (Fe)	-	-	ser carb qtz		cup NCu				NCu diss throughout core. Cup assoc with fract. Guich, gry evenly dist mafics ratio plag to mafics uneven appear 50/50.		

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		
122.3-123.8			mod	chl, ser	chl at 30° <2cm, qtz at 45° < 2cm		Fe(jar) NCu cup		ser chl			asabv					Guich, as abv. Fract approx at same angles as veining. Mafics altered to chl.
123.8-125.3	Guichon		stng	ser chl qtz	qtz at 20-70° <1cm ser at 40-50° <2cm		Fe,grn stnd ser, cup, NCu		ser chl qtz			asabv					Guich, gry evenly dist mafics/ser alt along fracts.
125.3-127.3	Guichon		mod/stng	ser chrys, (ep)	qtz at 30° <2cm		cup		ser (ep)			asabv		(pyr?)			Guich, as abv
127.3-127.7	Guichon	cly?	int	ser chl	-		Fe,cup		ser chl			cup					Fault gouge.
127.7-129.8	Guichon	-	wk	cup carb	qtz at 70-90° <2cm >0.5cm		Fe(jar) Cu-grn		ser,qtz chl carb	ser chl	chrys	cup		(cpy)	tr		Probably NCu. Stng cup staining on fracts with loc perv diss cup.
129.8-130.3	Guichon	gge	wk	ser,Fe, cup	-		Fe(jar)		ser	as abv	RELOG SPLIT CORE						Gouge at bottom of interval-3cm Fe stained.
130.3-131.3	Guichon	-	wk/mod	chl, (carb)	qtz & carb 70-80°		Fe, cup		ser,chl carb,qtz			NCu cup					Clay? Drilling mud.
131.3-131.5	crush zone	gouge	int	carb, ser,	-		Fe, cup		ser, carb			cup					Granulated-gouge/bottom 20cm of interval is bx'd and chloritized
131.5-132.8	Guichon	-	wk	ser chl	//-60° <1cm qtz		asabv		ser carb			cup					Very fine inclusions-xenoliths?
132.8-133.8	Guichon	-	mod	ser	-		asabv		ser			cup		cpy			Strong mafic/chloritic.
133.8-134.5	?	-	mod	ser,chl carb	irreg qtz / in ?	Fe	Fe		ser chl carb,qtz			cup		cpy			Siliceous interval ~ 5cm wide with cpy and chloritic and granulated. Irregular but fract controlled.
134.5-135.4	Guichon	-	strong	ser,cly?	perp qtz <2cm		cup?		ser,cly?			cup		cpy			Diss cpy.
135.4-135.9	Guichon	gouge	mod	cly(?) gge	qtz <1cm at 45° qtz irreg				qtz cly(?) ser qtz								Franulated interval. Thin gouge zone <2cm
135.9-136.6	Guichon	-	mod/stng	chl,ser	-		cup?		chl ser			cup?					Guich, finer grained/grey- even distrib of mafics.
136.6-138.8	Guichon	-	wk	carb, ser chl, NCu	// to ca qtz at 45° <1cm		Cu?grn NCu		carb ser,qtz chl qtz			NCu					NCu diss in core.
138.8-140.3	Guichon	-	v wk	-	qtz at 45° 1cm-<0.5cm. qtz at 20° 1.5cm				qtz								Pink porph parting.
140.3-140.7	Guichon	-	as abv	ser	qtz & Ksp filled	Fe,grn ser,			ser								Bleached, primary bx, fracts filled with qtz and K-sp.
140.7-142.7	Guichon	-		chl	qtz at 10° <0.5cm (carb)	(Cu?)	Fe		chl qtz					cpy			Diss cpy on mafics.
142.7-142.9	Guichon	gouge	-	-	-												Healed gge and subsequent faulting/mottled red and green, siliceous and chl.
142.9-144.3	Guichon	-	wk	ser,carb, chl	qtz at 5-10°				ser,qtz chl carb								Minute qtz veins.

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
144.3-145.1	Guichon	cly gge	int	chl, cly, ser	-	(Cu?) cup grn & red	stn		chl cly, ser				cup			Old fract healed followed by gge. Old fract has Cu mineralization. Stng cup at bottom of interval.		
145.1-146.3	Guichon	-	wk	chl, ser, carb(wk)	vnltts w/ ser	chl stn grn & red ser			chl ser carb(wk)			cup	cup			Guich, finer grained.		
146.3-147.2	Guichon	less <0.5 cm	mod/stng	chl, ser (cly)	irreg & reg qtz at 45° 1cm-<0.5 cm	ser grn stain Fe			ser, chl (cly) qtz				cup			Possible K-sp assoc with veining- short bx intervals (10cm)		
147.2-148.2	Guichon	-	mod	chl ser	dklts K-sp rich	Fe (hem)			ser chl									
148.2-148.7	Porph	-	stng	ser, chl	-				ser, chl							Pink porph, K-spar rich		
148.7-149.3	Guichon	-	stng/mod	ser, carb chl	-	Fe(hem)			ser, chl carb							Guich, pinkish at top, fine and mafic rich and gry with depth. K-sp rich top cm.		
149.3-149.9	Guichon	-	stng	ser chl	-	Fe(hem) cup			ser chl							Chrys? Maybe something that has fallen into box. Guich, bx'd silicified, shattered.		
149.9-151.2	Aplite	-	stng	ser chl	qtz <0.5 cm, var angles.	cup			ser chl qtz							K-sp rich aplite.		
151.2-151.9	Guichon	gouge	wk/mod	chl, ser (carb)	qtz <2cm at 60°	Fe			chl, qtz ser, carb							Guich, coarser grained, short intervals of gouge following qtz vein.		
151.9-152.9	Guichon	-	mod	chl ser,	qtz <1cm at 20°	Fe			chl, ser qtz			cup				Guich, fine, med mafic rich, narrow aplite bands to 2cm.		
152.9-153.7	aplite dyke	-	stng	ser	-	cup			ser							Dyke cutting guich, short sections of aplite cutting guich.		
153.7-154.5	Guichon	-	mod/stng loc wk	ser (carb)	-	Fe(hem)			ser (carb)							Healed primary bx, healed with later phase of guich.		
154.5-154.7	Hyb/Guich	gouge	shatt	ser (chl)	-	Fe, cup & grn-stn ser			ser (chl) cly							Primary bx as abv, shattered, shearing, fault gouge. Hybrid phase bx'd healed by guich.		
154.7-156.3	Hybrid	as abv			few, bkn ~ 1cm at 45°				as abv w/qtz			cup				Slight gouge on slip surfaces, hybrid frags healed by guich.		
156.3-157.3	Hybrid	gouge			qtz at 10° 1.5 cm				as abv							Gouge followed by 1.5 cm qtz vein. Carb cly, ser, Fe stain. Short intervals of gge on shear.		
157.3-157.9	Guichon	-	mod/stng	ser, chl carb	-	Fe			ser chl carb			cup?				Cuprite? Grade gradually into fresher guich.		
157.9-158.3	Guichon	-	as abv	as abv	-	(Fe)			asabv				cpy	wk		Diss cpy. Guich, mafic rich grading from hyb. Siliceous and feldsparized(?) impregnations (aplitic?)- diffuse near base of interval.		
158.3-161.2	Guichon	gge	wk	chl, ser	-	Fe			ser chl				cpy	wk		Diss cpy assoc with mafics. Gouge near top of interval. Guich, uniform mafic rich contaminated hyb. Reg xenoliths of hyb rocks.		
161.2-161.7	Hybrid	-	stng	chl	-				chl									
161.7-163.2	Guichon	-	mod	chl, ser (carb)	qtz at 60° minute				ser chl qtz (carb)				cpy			Diss cpy assoc with mafics. Guich, grey black-pink, conjugate fract filled with chl and ser. 162.2-162.6 is shatter zone.		

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			
163.2-165.5	Guichon	-	wk	chl, ser, (carb)	minute frags, chl				ser					cpy				Cpy assoc with mafics. Guich, med-coarse grained, grey-blk/pink
165.5-167.3	Guichon/Hyb	-	wk	carb chl ser	qtz at 45-50° ~ 1cm spaced 40 cm		NCu, cup		ser chl carb qtz			NCu		cpy NCu				NCu diss cpy with mafic and chl frags. Guich/hyb mafic rich/hairline fractures filled with chlorite. Chl frags conjugate set.
167.3-169.3	Guichon	-		pyr										pyr				Diss cpy as abv. Gouge zone 2 cm at 168.2 at 50° ca. Guich, mafic rich.
169.3-171.8	Guichon/Hyb	-	wk	chl, ser carb	chl micro frags				chl ser carb	ser, chl				cpy				Diss cpy as abv and assoc w/ chl frags. (Chk for chalcocite.) Guich/hyb, med grained, mafic-rich, chloritic microfracts, criss-cross. 171.3-171.5 K-sp rich porph interval.
171.8-173.3	Guichon/Hyb	-	wk	as abv	as abv				asabv	as abv				as abv				As above.
173.3-173.7	Guichon/Hyb	-	wk/mod	as abv	as abv				asabv	as abv				as abv				As above.
173.7-176.8	Guichon/Hyb	-	mod	carb, ser chl	qtz to 0.5 cm at 45-55°				ser chl qtz	ser chl				cpy	wk/mod chl			Cpy blebs assoc with chloritized areas and diss with mafics. Guich/hyb. Bichd env chl to 1 cm at 45-50°
176.8-178.0	Guichon	-	wk/mod	chl, ser carb	chl microvns		(Fe)		asabv w/carb	as abv				cpy				Cpy in chl frags and with chl mafic. Guich, cleaned up! Less mafic uniform distribution.
178.0-179.5	Guichon/Hyb	loc	stng	asabv	qtz <0.5 cm wk at 10-20°		(Fe)		chl ser carb	chl ser				cpy	wk			Cpy as abv. Guich/hyb as abv.
179.5-181.0	Guichon/Hyb	-	wk/mod	as abv	chl, dist some w/ env.		as abv		asabv	asabv				cpy	wk			Cpy diss and in chl frags, blebs. Guich/hyb, chloritic clots.
181.0-181.3	Guichon/Hyb	-	shatt	as abv	qtz vns to 1cm & frags. chl		as abv		asabv	asabv				cpy	wk			Cpy diss and stng in frags. Guich/hyb, m/cg(???) chl mafic-rich, bright green chl, shatt interval.
181.3-185.0	Guich/Hyb	-	wk	chl, ser, carb	chl vnlt in conj sets some ass qtz: qtz to 0.5cm, cont chl & cpy		(cup?) (Fe)		chl ser carb qtz	chl ser				cpy	wk			Cpy diss and in chl frags. Stronger at top of interval than at base. Guich/hyb, as abv(see pg 13) but grading to cleaner at base.
185.0-185.8	Guichon	-	shatt	chl, ser,	qtz to < 0.5cm w/ chl & ass' cpy		(Fe)		epid ser chl qtz	ser chl				cpy	wk ass chl			Cpy in chl frags and diss assoc with mafics. Guich, becoming cleaner and finer grained; speckled pink.
185.8-188.1	Guichon	thin loc	mod/stng	chl, carb ser	calc to 0.5cm; diff qtz chl, chl micro fr w/cpy		(Fe)lr		ser chl qtz	ser chl				pyr cpy	wk			Cpy as abv. Guich/f/mg, uniformly diss mafics, speckled pink.

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
188.1-188.8	Guichon	-	wk	chl, ser carb	chl micro fracts.	-	(Fe)	-	-	asabv	asabv	-	-	-	cpy	wk	Cpy as abv. Guich, appears to be cleaning up.	
188.8-190.2	Guichon	-	wk/mod shatt	as abv	as abv w/ cpy, calc seams ~ 1mm.	-	(Fe)	-	-	asabv	asabv	-	-	-	cpy	wk ass chl	Cpy as abv. Guich, as abv with shattered ints, pink spots. K-sp/Fe stain? 188.8-189.1 shattered 189.7-190.2 " "	
190.2-191.4	Guichon	thin loc	mod/stng	as abv, (cly)?	diff qtz chl, micro fr.	-	as abv	-	-	asabv w/cly?	asabv	-	-	-	cpy	wk	Cpy as abv. Guich.	
191.4-194.3	Guichon/Hyb	loc	stng shatt	chl, ser carb microfr (cly?)	-	-	-	-	cly in gge	asabv	-	-	-	-	cpy	-	Cpy as abv. K-sp and ep chl coming in - typical contact effect btwn phases. 192.4-Gouge-5cm with visible cpy 193.3-193.6-Gouge with various clasts to 2-3 cm	
194.3-195.9	Guichon/Hyb	20cm	shatt	carb, chl ser	qtz min	-	-	-	ep K-sp mag- matic	ser chl carb (qtz)	ser chl	-	-	-	cpy pyr	wk	Cpy as abv. Check cup v min. Pyr diss in frags. Ep, K-sp increasing, ep in clots typical contact effect. Magmatic. 195.4-195.7 gouge.	
195.9-197.0	Guichon/Hyb	-	stng/bkn	carb, chl ser	qtz/chl to 0.5 cm	-	-	-	Ep K-sp mag- matic	ser chl carb qtz	ser chl	-	-	cpy	-	wk	Cpy diss and on frags. Ep decr, K-sp prominent, perv and conc along frags, (K-spar envs?) Magmatic.	
197.0-197.2	Guichon/Hyb	-	as abv	as abv	-	-	-	-	-	asabv	asabv	-	-	cpy	pyr	wk	As abv. Guich, bkn, slight incr in S ₂ on fracts.	
197.2-198.3	Guichon/Hyb	-	wk/mod	as abv	-	-	-	-	ep K-sp	asabv	asabv	-	-	cpy	pyr	wk	Shows incr in amount of cpy. Guich/hyb magmatic.	
198.3-199.4	Guichon/Hyb	wk	shatt/ mod	cly, ser chl, carb	diff chl qtz vns, carb microvns	-	-	-	loc K-sp ep	asabv w/cly	asabv	-	-	-	cpy	wk	Diss cpy; in frags in aplite, in chl frags. Guich/hyb, shattered zones with small competent zones. Incr in K-sp, ep. Bkn aplite dyke ~5cm. 199.3; gouge 6 cm at 45° and at 199.4. Magmatic K-sp and ep Diss cpy in mafics and in frags. Guich, grading form Guich/hyb above through mafic-rich to cleaner.	
199.4-201.8	Guichon	-	wk	chl, carb ser	diff qtz/chl vnls (wk) w/ cpy	-	(Fe)wk	-	-	chl, ser,qtz carb	asabv	-	-	-	cpy pyr	wk	Diss cpy in mafics and in frags. Guich, grading form Guich/hyb above through mafic-rich to cleaner.	
201.8-203.3	Guichon	-	wk	carb, ser chl	qtz/chl w/ cone of sulphides chl vnls at 0-5°	-	-	-	K-sp incr.	chl ser carb qtz	chl ser	-	-	-	pyr cpy	mod	Cpy/pyr diss and on frags assoc with chl Guich, starts mafic-rich at top of int. Decr with incr in K-sp. 202.3 K-sp rich aplite dklt ~ 4cm at 50° ca. Magmatic	
203.3-205.5	Guichon	-	wk	as abv	diff qtz- chl at 0-5°	-	hem	-	K-sp decr	asabv	as abv stnger altn of plag	-	-	-	cpy	wk w/maf	Cpy diss and pred in frags with chl. Guich, similar to abv int, but shows decr in K-sp, and incr in mafic. Plag>altn ser	
205.5-207.0	Guichon	-	wk	as abv	qtz to 0.5 cm at 45°	-	-	-	K-sp	asabv	chl ser	-	-	-	pyr cpy	wk	Pyrite incr on frags>pyr. Less cpy diss with mafics. Guich, frags stng coated with sulphides.	
207.0-208.0	Guichon	-	shatt	as abv	qtz wk	-	grnCu stnd ser (hem)	-	-	asabv	chl ser/cly almost complete of plag	-	-	-	pyr tr cpy	wk	Decr in cpy. Pyr in frags/diss wkly.	

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
208.0-209.0	Guichon	-	stng	chl, ser carb	qtz-chlr diff to 0.5cm blchd env	-	wk cu stnd ser	-	-	chl ser/qtz carb	chl ser of plag	-	-	diss pyr > diss cpy	wk		Pyr dusting on frags. Guich, mod to stng mafic content at expense of K-sp. 208.5 gge at 5cm.	
209.0-210.1	Guichon	-	wk	as abv	diff chl	-	-	-	-	asabv	chl ser	-	-	diss pyr>cpy	wk		Diss pyr with chl and in frags>cpy. Guich	
210.1-212.0	Guichon	-	wk	chl, ser	chl w/ blebs of pyr	-	hem	ep	chl ser	ser chl	-	-	-	pyr> cpy	wk/ mod spotty		Pyr in frags with lesser cpy; and diss pyr>cpy. Guich, chl mafics incr, decr in K-sp. Clotted ep with chl in frags. Note: qtz xtals growing in open frags.	
212.0-212.2	Guichon	-	bkn	chl, ser, carb	bkn qtz to <0.5cm w/ pyr ser envs.	-	-	-	-	ser chl qtz carb	as abv	-	-	pyr	wk		Guich, bkn interval.	
212.2-213.4	Guichon	loc	asabv	asabv	chl qtz min calc mic fx chl-pyr blchd env carb vns	-	(Fe)	-	-	ser chl carb (qtz)	asabv	-	-	pyr	wk		No cpy. Guich, mafic rich, low K-sp. 213.2 gouge 1cm	
213.4-215.3	Guichon/Hyb	-	wk/mod	as abv	5 carb vns to 0.5cm, open space xtals. Pyr w/qtz ser & (chl)	-	(Fe)	-	K-sp (ep) blob	ser chl carb (qtz)	ser chl	-	-	pyr	wk		Pyr with mafics. Guich/hyb, mafic rich.	
215.3-216.5	Guichon/Hyb	-	bkn	as abv	?	-	asabv	-	ep in bx	asabv	asabv	-	-	pyr (cpy)	-		Pyr in frags. Guich/hyb, mafic rich. Local stng ser/cly altn plag phenos. 215.6-216.0 bx'dd aplite/guich/hyb.	
216.5-220.4	Hyb/Guichon	-	wk, loc bx open spaces	as abv	pyr core qtz alt plag epid	-	-	-	ep blobs K-sp wk	asabv	asabv	-	-	pyr	-		Pyr in frags and diss, assoc with chl. Hyb/guich, mafic rich, aplite dkts, ep clots, chl clots. Loc bx open spaces.	
220.4-222.2	Guichon/Hyb	-	wk	chl carb ser	diff chl qtz ~ 0°	-	-	-	ep w/ chl clots	chl ser	chl ser	-	-	pyr	wk		No cpy observed. Magmatic. Guich/hyb mafic rich.	
222.2-224.1	Guichon/Hyb	loc	stng/bkn	chl, ser carb (cly)	chl/qtz/ pyr vnlt	-	-	-	-	ser chl carb (cly)(qtz)	chl ser	-	-	pyr (cpy)	wk		Cpy as abv. Pyr on frags and diss with mafics. Guich/hyb; stng mafic, wk K-sp 223.5-gge at 45° 223.9-aplite in bx zone.	
224.1-227.5	Guichon	-	wk	chl, ser carb	chl/qtz/ pyr core blchd selv 0-5°	-	hem (cup?)	-	-	ser chl carb (qtz)	(chl) (ser)	-	-	asabv	wk		Check hem stain for cup stain. Guichon "type section", uniform distrib of mafics. partial chl altn, K-sp finer grained, plag wk ser'd	
227.5-228.8	Guichon	-	stng	as abv	qtz/chl/ pyr vnlt	-	(Fe) (hem)	-	-	asabv	asabv	-	-	fine pyr diss pyr	wk		Check as abv. Pyr on frags and in matrix with chl. Guich, as abv	
228.8-231.2	Guichon	-	wk	as abv	aplite dk qtz/chl/ pyr vnlt	-	-	-	-	asabv	asabv	-	-	fract pyr diss pyr	wk		Guich, as abv. 230 aplite dk 5cm at 40°	
231.2-233.5	Guichon/Hyb	loc	stng/shatt	cly gouge	calcite 2 mm	-	(Fe) (hem)	-	ep chl clots, very loc	asabv	asabv	-	-	pyr	wk		Pyr in frags/diss and in gge. Check hem for cup stain.	
EOH 233.5																		

DDH 95-1

Northing: 5604031.5		DDH 95-1				Azimuth: 340			
Easting: 641616.8		Elevation: 1709.9 m				Inclination: -45			
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
13601	3.8	5.3	0.56	0.510	-	-	-	-	Guichon: shatt.
13602	5.3	6.8	0.67	0.660	-	-	-	-	"
13603	6.8	8.3	0.68	0.650	-	-	-	-	"
13604	8.3	9.8	0.55	0.540	-	-	-	-	"
13605	9.8	11.3	0.56	0.520	-	-	-	-	"
13606	11.3	12.8	0.57	0.540	-	-	-	-	dis. Bx
13607	12.8	14.3	0.30	0.250	-	-	-	-	shatt./ckle. Bx
13608	14.3	15.8	0.47	0.460	-	-	-	-	"
13609	15.8	17.3	0.52	0.280	-	-	-	-	"
13610	17.3	18.8	0.43	0.410	-	-	-	-	"
13611	18.8	20.3	0.32	0.240	-	-	-	-	"
13612	20.3	21.8	0.37	0.320	-	-	-	-	"
13613	21.8	23.3	0.34	0.240	-	-	-	-	"
13614	23.3	24.8	0.40	0.340	-	-	-	-	mod./stng. fract'd.
13615	24.8	26.3	0.46	0.400	-	-	-	-	Bx., stng. ckle/shatt.
13616	26.3	27.8	0.22	0.170	-	-	-	-	"
13617	27.8	29.3	0.33	0.260	-	-	-	-	"
13618	29.3	30.8	0.40	0.320	-	-	-	-	"
13619	30.8	32.3	0.55	0.490	-	-	-	-	"
13620	32.3	33.8	0.56	0.550	-	-	-	-	ckle./bkn./milled
13621	33.8	35.3	0.52	0.460	-	-	-	-	"
13622	35.3	36.8	0.52	0.490	-	-	-	-	Guichon/Bethlehem:
13623	36.8	38.3	0.34	0.240	-	-	-	-	bkn./shatt.
13624	38.3	39.8	0.32	0.200	-	-	-	-	stng./ckle./shatt.
13625	39.8	41.3	0.29	0.170	-	-	-	-	wk./mod.
13626	41.3	42.8	0.16	0.100	-	-	-	-	Fault Bx.
13627	42.8	44.3	0.15	0.100	-	-	-	-	"
13628	44.3	45.8	0.05	0.030	-	-	-	-	Tertiary Dyke
13629	45.8	47.3	0.01	0.005	-	-	-	-	"
13630	47.3	48.8	0.01	0.005	-	-	-	-	"
13631	48.8	50.3	0.01	0.005	-	-	-	-	"
13632	50.3	51.8	0.01	0.005	-	-	-	-	"
13633	51.8	53.3	0.01	0.005	-	-	-	-	"
13634	53.3	54.8	0.01	0.005	-	-	-	-	"
13635	54.8	56.3	0.03	0.020	-	-	-	-	"
13636	56.3	57.8	0.07	0.060	-	-	-	-	Porphyry Dyke:
13637	57.8	59.3	0.06	0.030	-	-	-	-	wk/mod. loc. bkn.
13638	59.3	60.8	0.04	0.030	-	-	-	-	"
13639	60.8	62.3	0.03	0.030	-	-	-	-	"
13640	62.3	63.8	0.03	0.020	-	-	-	-	"
13641	63.8	65.3	0.03	0.010	-	-	-	-	mod., loc. stng.
13642	65.3	66.8	0.04	0.020	-	-	-	-	"
13643	66.8	68.3	0.02	0.010	-	-	-	-	"
13644	68.3	69.8	0.03	0.020	-	-	-	-	"
13645	69.8	71.3	0.03	0.020	-	-	-	-	Porphyry Dyke:

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
13646	71.3	72.8	0.03	0.020	-	-	-	-	stng., loc. wk./mod.
13647	72.8	74.3	0.03	0.030	-	-	-	-	"
13648	74.3	75.8	0.05	0.030	-	-	-	-	mod./stng.
13649	75.8	77.3	0.05	0.040	-	-	-	-	Bethlehem:
13650	77.3	78.8	0.06	0.030	-	-	-	-	wk., loc. mod./stng.
13651	78.8	80.3	0.04	0.030	-	-	-	-	"
13652	80.3	81.8	0.03	0.020	-	-	-	-	Beth. / Porphyry:
13653	81.8	83.3	0.05	0.020	-	-	-	-	wk./mod.
13654	83.3	84.8	0.04	0.020	-	-	-	-	"
13655	84.8	86.3	0.08	0.040	-	-	-	-	Bethlehem:
13656	86.3	87.8	0.13	0.110	-	-	-	-	wk./mod., loc stng.
13657	87.8	89.3	0.18	0.130	-	-	-	-	"
13658	89.3	90.8	0.05	0.020	-	-	-	-	"
13659	90.8	92.3	0.08	0.040	-	-	-	-	"
13660	92.3	93.8	0.03	0.020	-	-	-	-	"
13661	93.8	95.3	0.04	0.020	-	-	-	-	"
13662	95.3	96.8	0.07	0.020	-	-	-	-	Porphyry: wk./mod.
13663	96.8	98.3	0.06	0.020	-	-	-	-	"
13664	98.3	99.8	0.07	0.020	-	-	-	-	Beth./Porphyry:
13665	99.8	101.3	0.06	0.030	-	-	-	-	wk./mod.
13666	101.3	102.8	0.13	0.080	-	-	-	-	Shear/Gouge
13667	102.8	104.3	0.38	0.270	-	-	-	-	Bethlehem/Guichon:
13668	104.3	105.8	0.26	0.180	-	-	-	-	wk./mod., loc. stng.
13669	105.8	107.3	0.16	0.110	-	-	-	-	"
13670	107.3	108.8	0.21	0.110	-	-	-	-	Guichon: wk./mod.
13671	108.8	110.3	0.18	0.060	-	-	-	-	"
13672	110.3	111.8	0.20	0.030	-	-	-	-	"
13673	111.8	113.3	0.27	0.040	-	-	-	-	"
13674	113.3	114.8	0.14	0.050	-	-	-	-	"
13675	114.8	116.3	0.15	0.080	-	-	-	-	mod./int.
13676	116.3	117.8	0.15	0.120	-	-	-	-	"
13677	117.8	119.3	0.12	0.060	-	-	-	-	wk./mod.
13678	119.3	120.8	0.14	0.080	-	-	-	-	"
13679	120.8	122.3	0.22	0.060	-	-	-	-	"
13680	122.3	123.8	0.15	0.050	-	-	-	-	"
13681	123.8	125.3	0.24	0.130	-	-	-	-	"
13682	125.3	126.8	0.26	0.150	-	-	-	-	"
13683	126.8	128.3	0.24	0.160	-	-	-	-	wk. fault zone
13684	128.3	129.8	0.25	0.170	-	-	-	-	wk./mod., loc. int.
13685	129.8	131.3	0.22	0.140	-	-	-	-	"
13686	131.3	132.8	0.13	0.070	-	-	-	-	"
13687	132.8	134.3	0.16	0.020	-	-	-	-	"
13688	134.3	135.8	0.36	0.010	-	-	-	-	"
13689	135.8	137.3	0.23	0.010	-	-	-	-	"
13690	137.3	138.8	0.17	0.010	-	-	-	-	wk.
13691	138.8	140.3	0.16	0.010	-	-	-	-	"
13692	140.3	141.8	0.45	0.020	-	-	-	-	Guichon: wk. fract'd.

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
13693	141.8	143.3	0.22	0.010	-	-	-	-	"
13694	143.3	144.8	0.18	0.010	-	-	-	-	"
13695	144.8	146.3	0.26	0.010	-	-	-	-	"
13696	146.3	147.8	0.17	0.020	-	-	-	-	mod./stng.
13697	147.8	149.3	0.07	0.030	-	-	-	-	(Pink Porphyry)
13698	149.3	150.8	0.08	0.010	-	-	-	-	Guichon: stng. fract'd.
13699	150.8	152.3	0.15	0.020	-	-	-	-	"
13700	152.3	153.8	0.20	0.020	-	-	-	-	"
13701	153.8	155.3	0.34	0.020	-	-	-	-	"
13702	155.3	156.8	0.24	0.010	-	-	-	-	Hybrid: int./gouge
13703	156.8	158.3	0.44	0.020	-	-	-	-	Guichon: mod./stng.
13704	158.3	159.8	0.40	0.009	-	-	-	-	"
13705	159.8	161.3	0.37	0.009	-	-	-	-	"
13706	161.3	162.8	0.35	0.009	-	-	-	-	"
13707	162.8	164.3	0.34	0.009	-	-	-	-	wk.
13708	164.3	165.8	0.27	0.009	-	-	-	-	"
13709	165.8	167.3	0.29	0.009	-	-	-	-	"
13710	167.3	168.8	0.36	0.009	-	-	-	-	"
13711	168.8	170.3	0.34	0.009	-	-	-	-	Guichon/Hybrid:
13712	170.3	171.8	0.35	0.009	-	-	-	-	wk./mod., loc. stng.
13713	171.8	173.3	0.31	0.009	-	-	-	-	"
13714	173.3	174.8	0.40	0.009	-	-	-	-	"
13715	174.8	176.3	0.35	0.009	-	-	-	-	"
13716	176.3	177.8	0.33	0.010	-	-	-	-	"
13717	177.8	179.3	0.55	0.010	-	-	-	-	"
13718	179.3	180.8	0.41	0.010	-	-	-	-	"
13719	180.8	182.3	0.41	0.009	-	-	-	-	"
13720	182.3	183.8	0.25	0.009	-	-	-	-	"
13721	183.8	185.3	0.46	0.010	-	-	-	-	"
13722	185.3	186.8	0.48	-	0.5	0.02	5	0.002	shatt.
13723	186.8	188.3	0.49	-	0.3	0.01	5	0.004	wk./mod., loc. stng.
13724	188.3	189.8	0.48	-	0.6	0.02	5	0.001	"
13725	189.8	191.3	0.36	-	0.5	0.02	5	<.001	"
13726	191.3	192.8	0.27	-	0.3	0.01	5	0.002	stng. shatt.
13727	192.8	194.3	0.24	-	0.2	0.01	5	0.003	"
13728	194.3	195.8	0.25	-	0.1	<.01	5	0.005	"
13729	195.8	197.3	0.14	-	0.2	0.01	5	0.012	"
13730	197.3	198.8	0.08	-	0.1	<.01	5	0.001	wk./mod., loc. shatt.
13731	198.8	200.3	0.06	-	0.1	<.01	5	<.001	"
13732	200.3	201.8	0.06	-	0.2	0.01	5	<.001	Guichon: wk./mod.,
13733	201.8	203.3	0.05	-	0.1	<.01	5	<.001	loc. shatt.
13734	203.3	204.8	0.04	-	0.3	0.01	5	<.001	"
13735	204.8	206.3	0.05	-	<.1	<.01	5	<.001	"
13736	206.3	207.8	0.07	-	0.2	0.01	5	<.001	"
13737	207.8	209.3	0.06	-	0.3	0.01	5	0.001	"
13738	209.3	210.8	0.05	-	0.2	0.01	5	<.001	"
13739	210.8	212.3	0.04	-	<.1	<.01	5	<.001	Guichon:

DDH 95-1

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
13740	212.3	213.8	0.03	-	0.2	0.01	5	<.001	wk., loc. bkn.
13741	213.8	215.3	0.02	-	<.1	<.01	5	<.001	Guichon/Hybrid:
13742	215.3	216.8	0.05	-	0.1	<.01	5	<.001	wk./mod., loc. stng./bkn.
13743	216.8	218.3	0.03	-	0.1	<.01	5	<.001	"
13744	218.3	219.8	0.02	-	0.2	0.01	5	0.001	"
13745	219.8	221.3	0.02	-	0.2	0.01	5	<.001	"
13746	221.3	222.8	0.07	-	0.3	0.01	5	0.001	"
13747	222.8	224.3	0.07	-	0.1	<.01	5	0.001	"
13748	224.3	225.8	0.02	-	<.1	<.01	5	<.001	"
13749	225.8	227.3	0.03	-	0.1	<.01	5	<.001	"
13750	227.3	228.8	0.03	-	0.1	<.01	5	0.001	"
13751	228.8	230.3	0.02	-	0.2	0.01	5	<.001	"
13752	230.3	231.8	0.03	-	0.1	<.01	5	<.001	"
13753	231.8	233.3	0.07	-	0.1	<.01	5	0.001	"
13754	233.3	233.5	0.06	-	<.1	<.01	5	0.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.										
DDH #	DH95-2	Date	05-Aug	Logged by:																
Elevation	1706.4 m	Azimuth	136																	
Inclination		Length		Easting																
ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS			
		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	CASING----	SUSPECT LOSS OF COPPER BEARING WEATHERED BRECCIA. ADIT NEARBY.						COULD DUMP MATERIAL BE PRESENT AT SURFACE?												
12.2-13.0	Guichon? bx dis	X	bx dis/loc crushed.	Fe, Mn dend Cu grn ser chrys	qtz vn frags	grn Cu & clots of chrys	Cu, Fe	stng	ser	ser		chrys						Should grade. Weathered dislocation bx (guich?)		
13.0-15.8	Guichon? bx dis	X	as abv	Fe (jar) Mn	as abv	grn Cu top 1/2 Fe(jar)	grn Cu top 1/2 Fe(jar)	stng	ser	ser		chrys	chrys					Perv grn Cu stain becoming blchd at bottom 1/2 fo int. Weathered dislocation bx, grn Cu-stained ser top 1/2 of int.		
15.8-16.3	Guichon? bx dis	X	as abv	Fe(jar & Mn)	as abv	Fe (jar hem)	Fe(jar hem)	asabv	asabv	asabv								No Cu observed. Bx, as abv.		
16.3-19.6	Guichon? bx dis	stng loc	as abv	asabv, tr cup? Mn	as abv	asabv Mn scatt cup?	as abv Mn	stng	ser, cly in gge	ser, cly in gge								Poss loc cup stn. Bx as abv. 17.5-18.5---gge- cly.		
19.6-21.6	Guichon? bx dis	-	stng bkn	hem, jar, Mn, ser, grn Cu stn.	as abv offsets		as abv	mod/ stng	ser	ser		chrys						Chrys noted. Bx, as abv. Bleaching penetrates inwards from fracts.		
21.6-24.7	? altered fault zone	-	stng interval slip surfaces	ser, chlr carb	qtz vns to 0.5 cm var attitudes, ass carb, pyr, loc stkwk	tr grn Cu stn top - v ptchy Fe below			ser chlr cly carb	ser chlr cly carb		cup chrys		pyr				Cup and chrys in top oxidized portion. Pyr in lower "primary" zone. Reactivated fault material. 21.6-22.0---base of oxidized zone contains chrys, suggestion of cup stain, pass into reactivated fault zone, fine granulated chlr, ser. Internal slip surfaces. Diss pyr on fracts.		
24.7-26.2	fault zone	stng	int	ser, chlr carb	qtz to 0.5 w/ pyr cores				ser cly carb chlr	ser cly carb chlr				pyr	pyr			No Cu observed. Fault zone, reactivated, solidified, fracts veined.		
26.2-29.3	fault zone	stng	int	as abv	qtz intens-ity greater than prev int				asabv	asabv				pyr	pyr			Cu as abv. Fault zone shows relative incr in qtz veins, chlr, carb.		
29.3-31.2	fault zone	asabv	asabv	ser, chlr, carb (jar)	qtz frags				asabv	asabv				pyr	pyr			Cu as abv. Fault zone reactivated.		
31.2-32.7	fault zone	stng	intense	ser, chlr carb	qtz frags				ser chlr carb cly	ser chlr carb cly				pyr	pyr			No Cu observed. Fault zone, core missing!! at top of zone. 30 cm gouge, 40cm "solid". Reactivated.		
32.7-34.7	fault zone	asabv	asabv	asabv	qtz to 1cm blchd env loc stkwk				ser chlr carb (cly)?	ser chlr carb (cly)?				pyr	pyr			No Cu observed. Fault zone, reactivated		
34.7-35.7	fault zone	asabv	asabv	chl, ser	pyr in qtz vn frags	jar specks	jar specks		asabv	asabv				pyr	pyr			As above.		

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.
35.7-37.8	fault w/ alt Porph(?) frags	X	as abv	ser, chlr carb, (jar)	qtz frags & cont's to 1.5cm w/ cpy- 30-60°	sl jar spks	-	-	ser chl	ser chl	-	-	-	cpy cpy	-	Cpy diss, and in frags, and with qtz vein and in selvage. Fault zone, containing frags of alt porph(?) frags.		
37.8-40.5	as abv	loc	int					(jar)	asabv	asabv	-	-	-	cpy cpy	-	Cpy as abv. Peacock bluish tarnish. Fault zone, as abv. 38.5-loc gge 38.8-39.0 gouge, 40.0- loc gge		
40.5-41.8	fault w/more abd alt	loc	int	chl, ser, (cly?)	qtz to 0.5 cm & frags				asabv carb	asabv carb	ser chl	-	-	cpy cpy	-	Cpy diss with mafics, in frags, blebs, in minute qtz vnits. Fault zone, as abv, more abd frags alt "grey" porph		
41.8-43.9	Porph frags fault zone sim to abv	loc	int/shatt	as abv	calcite v qtz frags				asabv	asabv	asabv	-	-	cpy cpy	-	Cpy diss as abv. Fault zone as abv, localized gouge. Intervals of alt porph.		
43.9-45.2	fault zone Porph/Guichon	loc	as abv	asabv	qtz & K-sp 1cm at 80°				asabv	asabv	asabv	-	-	cpy cpy	-	Cpy diss as abv. Fault zone, fault material and frags more bleached. Intervals of alt porph and probable guich.		
45.2-46.3	Porph/Guichon	loc	as abv	asabv	qtz diff to 1cm blchd env			(Fe)	asabv	asabv	asabv	-	-	cpy cpy	-	Cpy diss as abv. Fault zone, fault materi- al and frags, segments.		
46.3-47.4	fault lithic frags	loc	int	ser, carb- stng, chl (cly)	qtz vn frags				ser chl carb	ser chl carb	ser chl	-	-	cpy cpy	-	Diss cpy with mafics and in vnits. Fault material containing frags of guich and porph. END OF MAIN FAULT ZONE.		
47.4-48.7	Guichon/Porph	-	stng	chl, ser carb	carb. qtz chl to 0.5cm			(Fe)	(ser) (chl)	ser chl	ser chl	-	-	cpy cpy	-	Strong cpy, perv locally. In mix of guich and porph. Fragmented core.		
48.7-51.2	Guichon/Porph	loc	stng	ser, chl carb cpy	qtz <2cm at 45-50° carb vnits			(Fe)	ser- loc chl carb	ser chl carb	ser chl	-	cup?	cpy cpy	-	Cup? diss in core. Gouge at 50.3<2cm locally bleached ser areas.		
51.2-52.2	Guichon/Porph	-	stng/shatt	cpy, ser chl, carb	diss continuous				asabv	asabv	-	-	-	cpy	-			
52.2-53.2	Guichon/Porph bx	-	stng/int	cpy, chl carb, ser	qtz<1cm at 40° carb<3cm			(Fe)	ser chl	ser chl	ser chl	-	-	cpy cpy	-	Diss cpy and assoc with mafics, also in qtz vnits. Disslocation bx, bleached envs around vnits.		
53.2-54.0	Guichon/Porph	loc	asabv	asabv	carb<1cm			(Fe)	carb (ser) chl	carb ser chl	asabv	-	-	cpy cpy	-	Gouge at 53.2 at 45°, 53.7.		
54.0-55.4	Porph/Guichon	-	stng/bkn	chl,ser carb, cpy	qtz <1cm at 45°			(Fe)	ser ser carb	Fe ser carb	ser chl	-	-	cpy cpy	-	Cpy in qtz vnits ser env to 1cm.		
55.4-56.5	Porph/Guichon	-	stng/int	cpy, chl ser, carb	qtz & carb diss cont- inue			(Fe)	ser carb chl	ser carb chl	ser chl	-	-	cpy cpy	-	Cpy assoc with vnits (qtz), carb vnits.		
56.5-58.0	Porph/Guichon	-	mod/stng	as abv	vnits. shallow angle to ca. <10° qtz<3cm at 45°				asabv	asabv	asabv	-	-	cpy cpy	-	Cpy as abv. Heavily altered, qtz and carb stockwork.		

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.			
58.0-59.2	?	loc carb	stng/int (bkn)	as abv	vnlts as abv	-	-	-	asabv	asabv	ser chl	-	-	cpy	cpy		Pyr assoc with qtz vnlts. Cpy assoc with mafics. Speckled mafics conc increasing Gouge 59.2 at 40-45° <3cm
59.2-59.7	siliceous zone	-	stng	as abv	qtz at 60° <1.5cm	-	-	-	asabv silica	asabv silica	-	-	-	cpy	cpy		Assoc with mafics. Qtz vein- cpy within the vein.
59.7-62.0	Guichon	-	stng/bkn	as abv	qtz at 45° < 3cm	-	(Fe)	-	ser carb chl	ser carb chl	ser chl	-	-	cpy	cpy		Guich, grading from top of interval into Guich. Hyb of bleached envelopes around veins and micro fract, qtz/chlr microfracts with cpy very stng. Bright grass grn, level K-spar conc.
62.0-64.2	Guichon	-	wk	carb, ser chl(stng)	carb at 75° <3cm 63.6m microfract qtz at 45° <2cm 64.2m vuggy	-	-	-	ser chl	ser chl	ser chl	-	-	-	pyr cpy	wk	Guich, grading into bleached zone at bottom of interval. K-sp assoc with calcite vein.
64.2-66.0	Guichon	64.4m at 45° <3cm	mod/stng	carb, ser chl	qtz at 5- 40° ≤2cm loc vuggy	-	-	-	asabv carb ep	asabv carb	asabv	-	-	-	cpy	wk	Cpy in qtz veins, epidote? at base of interval. Guichon, bleaching increasing with depth.
66.0-67.2	Guichon	66.0 at 45-50°	shatt/bkn	chl, ser qtz, cpy	qtz vuggy at 40° <1.5 cm	-	(Fe)	-	chl (ser)	carb chl ser	-	-	-	pyr? cpy	wk/ mod	Chlr blebs littered with sulphides. Gouge ~ 4cm at top of interval, slip surface, all is patchy.	
67.2-69.5	Guichon	68.7 at 90°	mod/stng	carb, ser chl	qtz at 10- 15° <3cm	-	-	-	-	carb ser chl	-	-	-	cpy		Qtz vein- cpy in selvaged, 68.7 locally bleached, ser and K-spar..	
69.5-70.2	Guichon	-	mod	as abv	qtz at 25- 45° ≤1cm vuggy	-	-	-	chl (ser)	carb chl ser	chl ser	-	-	cpy pyr		Fractures are conjugate, K-sp.	
70.2-71.7	Guichon/Hyb	70.6? at 50° <2cm	stng/bkn	ser, chl carb	qtz 10-80° ≤ 1cm vuggy	-	-	-	(ser) chl	ser chl	ser chl	-	-	cpy	cpy	wk	Cpy assoc with mafics. Veining-calcite <1cm. Fractures-qtz chl with strong cpy/ mod-stng ser; - env of ser around fract - local K-sp envs around fract.
71.7-73.2	Guichon	-	stng	chl, ser	qtz 40° ≤1cm vuggy	-	-	-	ser chl	ser chl	-	-	-	cpy	cpy	loc mod	Cpy as abv. Guich/hyb? grading into intense ser at bottom of interval. Fracts--- qtz chl microfract with loc stng cpy with ser env. Signif drop in carb content and microvns/ local K-sp? Qtz veins have chl selvage.
73.2-74.4	Guich/Hyb?	-	mod/stng	chl, ser carb	qtz 40° ≤ 5cm vuggy.	-	-	-	carb ser chl	carb ser chl	-	-	-	cpy (pyr)		wk	K-sp? test. Qtz vein-- ser chl selvage quite prominent, K-sp, pyr--74.0m Brecciated ~ 74.0m
74.4-75.2	Guichon/Hyb	74.5 < 1cm	int	chl, ser carb	calcite veins to < 1cm	-	-	-	ser chl	ser chl	-	-	pyr cpy	pyr cpy		Test for K-sp. Sulphides assoc with mafics. Gouge--beautiful mud. Healed qtz chl fract with bleached envelopes. Stng chl of fractures.	
75.2-76.2	Guichon/Hyb	-	stng	cpy, chl ser, (carb)	qtz at 30° < 4 cm	-	-	-	asabv	asabv	-	-	-	cpy			Guich/hyb-- blotchy groundmass.
76.2-77.4	fault	gouge	int	ser, chl carb	qtz 10-20° ≤ 3cm	-	-	-	asabv	asabv	-	-	-	pyr?			Gouge-- ~ 2cm at top, calcite -- 76.5 ~ 2cm

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			
77.4-80.0	Guichon	78.7 at 90°	stng/bkn	chl, ser carb	qtz at 40-20° <1cm calc at 90° <1cm	-	-	-	-	chl, ser	-	-	-	cpy	mod		Guich, grading from guich/hyb at top to guich at bottom. Healed frac-qtz/chlr and ser env. Guich becoming more competent at bottom.
80.0-82.2	Guichon	81.0 at 10° <1cm	wk	pyr, chl, ser	qtz at 30° ≤ 1cm	-	(Fe)	-	(ser)	chl, ser	-	-	-	pyr cpy			Guich, grading to guich/hyb at bottom Vein-cpy.
82.2-84.0	fault	at 90°	int	ser, chl, cpy, carb	qtz at ? ≤ 1cm vuggy	-	-	-	-	chl, chl, ser, ser	-	-	-	cpy	wk		Veining-calcite microv, pink(?) effervescent.
84.0-86.7	fault	loc	int	chl, ser, cly (carb)	qtz to 1cm carb to 1cm, irreg braided	-	-	-	-	ser, chl, carb, chl, chl, carb, carb	-	-	-	cpy cpy (pyr)?	(tr)		Cpy diss throughout. Fault zone, fine grained, contains few clasts of competent w.rk. Interval shear. Upper part stng chl lower inc ser, inc carb
86.7-88.5	fault	loc	int, molt by chl & ser clots	chl, ser carb esp in gouge	qtz to <1 cm at 20° qtz-chlr vnits w/ cpy	-	-	-	-	ser, chl, chl	-	-	-	cpy cpy	wk		Cpy diss with mafics and with chl qtz frags. Fault zone, similar to abv, mottled chl and ser rich. 87-87.9-Competent wk/mod fract, chloritic mafic-rich hyb.
88.5-89.6	fault shatt	loc	int	chl, ser carb	qtz frags	-	-	-	-	asabv carb, asabv	-	-	-	cpy cpy	wk		In frags; diss with mafics. Fault zone as above, shatt.
89.6-91.3	Hyb	loc	stng bkn	chl, ser carb	qtz to <0.5cm	-	-	-	-	asabv	-	-	(cpy)	cpy (pyr)	wk		Cpy mainly in frags. Hyb, fairly comp, chl, ser. Gouge at 90.5 ~ 2cm
91.3-94.2	Hyb/Porph	(loc)	stng/int	as abv	qtz vnits w/assoc diss cpy	-	(Fe)	-	-	asabv	asabv	-	-	cpy (pyr) asabv	wk		Hyb/porph, fairly comp, bkn with small gouge. Ser chl carb altn.
94.2-96.6	Hyb/Porph??	follows core	int	chl, ser, carb	qtz frags	-	-	-	-	ser, chl, carb, chl, chl, carb, carb	-	-	-	(pyr) cpy	wk		Cpy in qtz vn fract frags. Hyb/porph?? intense fract, granulation, part of over all fault zone.
96.6-98.6	fault zone w/comp frags Hyb/porph?	loc	int	asabv	minute qtz chl in comp int.	-	-	-	-	asabv	asabv	-	-	pyr (cpy)	wk		Diss pyr. Trace of cpy. Similar to abv. 97.2-97.5---comp int; hyb porph, chl, ser altn.
98.6-100.9	as abv	loc	int/v stng	asabv	carb irreg	-	-	-	-	asabv	asabv	-	-	asabv pyr (cpy)	-		Diss pyr>cpy and in frags. Similar to abv
100.9-101.5	? comp int Nic bx xen?	-	wk	chl, ser (carb)	qtz micro-vn w/cpy	-	-	-	-	asabv	asabv	-	-	pyr cpy pyr cpy	-		Pyr>cpy. Obvious contact between micro/very fine chloritic to rock bearing small pinkish brown grains--check for garnet!
101.5-102.1	fault zone	stng	int	chl, ser, carb	qtz 0-5	-	-	-	-	ser, chl, chl	ser, chl, chl	-	-	pyr (cpy) (cpy)	-		Pyr>cpy diss, in frags, vnits with chl and qtz.
102.1-103.7	Nic bx xen?	-	mod	chl, ser (carb)	qtz to 1cm & minute frags	-	-	-	-	asabv	asabv	-	-	(pyr) (cpy) cpy	-		
103.7-105.0	fault	stng	int	chl, ser, carb	carb frags	-	(Fe)	-	-	asabv	asabv	-	-	pyr	-		
105.0-106.7	Hyb/Nic? to Hyb	(loc)	wk/mod	asabv	carb vnits	-	(Fe)	-	?	ser, chl, ser, chl	ser, chl, chl	-	-	pyr pyr	-		Hyb/Nic, bx healed by: Dklets of Guich-like phase ~ 2cm cont cpy, pyr in frags. Gradation from Hyb/Nic into contaminated Hyb. Aplitic dklets.

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				
106.7-108.1	Hyb/Guichon	-	asabv	asabv	carb, chl qtz vnits	-	-	-	-	ser chl carb	chl (ser)	-	-	pyr	pyr	-	-	Hyb guich cleans up to mafic rich guich, hematitic flecks.	
108.1-109.7	Hyb/Guichon	-	mod	asabv	qtz to >1 cm at 5- 10°, carb chl, qtz vnits	-	-	-	-	asabv chl ser		-	-	(pyr)	pyr (cpy)			Hyb guich.	
109.7-113.4	Guichon/Hyb/ Hyb	-	wk/mod	chl, ser	chl/qtz microfracts ser env	-	-	-	-	chl ser carb	asabv	-	-	(cpy) (pyr)	cpy pyr	wk		Pyr>cpy on frags. Minor pyr>cpy diss. Top of int in guich/hyb w/gradation to finer grained hyb with more chlorite.	
113.4-114.8	Hyb/dyke?	-	wk	chl, ser carb	min chl fracts, qtz, ser, blch	-	-	-	-	chl ser carb	chl ser	-	-	-	pyr	wk		Stng pyr diss on frags. Hyb/dyke? DIK becoming mor bleached at bottom of int.	
114.8-116.5	fault zone	stng	int	asabv	frags carb, qtz vnlt frags, some w/ pyr	-	-	-	-	asabv	?	-	-	pyr	pyr	wk		No Cu noted. Gouge-- and intensely brecciated.	
116.5-119.7	fault zone	stng	int	asabv	carb vns ~ // to ca qtz frags carb vnits	-	-	-	-	asabv	-	-	-	pyr	pyr	wk		No Cu noted.	
119.7-120.7	Hyb	loc	stng/bkn	asabv	carb vnits	-	-	-	-	asabv chl	chl	-	-	-	pyr (cpy)	wk			
120.7-124.3	fault zone	stng	int	asabv	qtz 1-2cm // to c.a.	-	-	-	ser chl (cly)	chl ser (cly) carb	?	-	-	-	-	wk		Note: tr reddish stain on slip surface. 121.5-122.0--Local competent section of Hyb? abd veined- contorted.	
124.3-127.7	fault gouge loc comp sects	stng	int	chl, ser carb	carb vnits	-	(Fe)	-	ser chl (cly)? carb	carb	-	-	-	pyr (cpy)	wk		Pyr>cpy. Fault zone/gouge with loc comp sects Hyb(?) Note: traces deep orange red mat on frags.		
127.7-131.7	as abv	stng	int	asabv	carb, qtz vn frags	-	(Fe)tr	-	asabv	asabv	-	-	-	-	asabv	wk		Pyr>cpy. Fault zone as above.	
131.7-134.0	fault zone	stng	int	asabv	carb to 1 cm // to ca qtz frags to 3cm	-	-	-	asabv	carb chl ser	(chl) (ser)	-	-	pyr	pyr	wk		No copper observed. Fault zone/gouge with loc comp sects, contorted by sub- sequent mvnt. Laminated(contorted) // to ca. Shows continuous carb vnits are late- question "hydrothermal" chloritic "bands" stronger very fine pyr.	
134.0-136.3	Fault zone	mod/stng	int	asabv	qtz frags to 3cm	-	-	-	asabv	asabv	asabv	-	-	(pyr)	pyr	wk		Mainly pyr in frags, smaller amount diss with mafics. Fault zone/gouge with loc comp sects hyb cut by guich. 136-136.3---Hyb cut by guich.	
136.3-139.3	fault zone	mod/stng	int	chl, ser	qtz frags	-	-	-	chl ser carb (cly?)	carb chl ser	-	-	-	(pyr)	pyr	wk		Pyr as above(see pg 7) Fault zone/gouge similar to abv. 137.8-138.4---Competent interval but 1/2 core is gouge // to 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			
139.3-141.5	fault zone loc comp. pyr w/mafics	loc	stng	chl, ser carb	qtz in fracts, qtz chl, (carb) w/pyr antax	-	-	-	asabv	asabv	-	-	-	pyr	pyr	wk	Pyr as abv. Fault zone/ with gouge.
141.5-144.6	Hyb/Guichon	-	wk/mod	chl, ser (carb)(cly)	carb vnlt	-	-	-	ser	ser	-	-	-	pyr	Mo	wk	Check for Mo! Pyr>cpy. Qtz/chlr fracts with bleached env. Traces (+) diss Mo-Assay interval below major fault for Mo!!!
144.6-147.4	Hyb/Guichon	-	mod/stng loc bkn	carb, ser chl, pyr	carb vnlt qtz/carb w/ (K-sp?) env	-	-	-	ser	ser	-	-	pyr	pyr	wk/ mod	As above. Check for K-sp. Qtz/chlr fracts as abv. Check for Mo!! K-sp occ as env on fracts and generally throughout groundmass. Locally siliceous zones.	
147.4-150.2	Hyb/Guichon	-	wk/mod	(Fe)pyr	carb vnlt	-	(Fe)	-	asabv	asabv	-	-	pyr	pyr	wk/ mod	Pyr assoc with mafics. Qtz carb fracts with pyr/K-sp as abv.	
150.2-150.7	Hyb/Guichon	-	wk	chl, ser, carb, pyr	carb at 0-5° < 1cm	-	-	-	asabv	asabv	-	-	pyr	pyr	wk/ mod	Fracts diss pyr, ser bleached envs. Gradually losing K-sp with depth.	
150.7-151.8	fault	0-5°	stng/int	chl, ser carb	carb vnlt.	-	-	-	carb	carb chl ser	-	-	pyr	pyr	wk		
151.8-154.0	Hyb/Guichon	-	wk/mod	asabv	asabv	-	-	-	asabv	asabv	-	-	-	pyr	pyr	wk/ loc stng	Decreasing chl and ser with depth.
154.0-155.6	Guichon/Hyb	-	wk	carb, ser (chl) pyr	-	-	-	-	asabv	-	-	-	pyr	pyr	wk/ mod	Pyr assoc with mafic. Plag and mafics are relatively fresh, K-sp fracts are at ~80°, alteration envs around fracts.	
155.6-158.2	Hyb/Guichon	-	wk/mod	carb, ser chl	carb vnlt pyr/cpy vnlt	-	-	-	asabv	chl (ser)	-	-	asabv	asabv cpy	wk/ mod	Reccurence fo cpy, loc stng chl alt. Poss contacts between guich and Nicola? injection? Healed fracts with bleached and K-sp? envelopes.	
158.2-161.1	Hyb/Guichon	loc	wk/mod	(carb) ser chl	carb vnlt qtz/chlr/ pyr vnlt	-	(Fe)	-	chl	chl (ser)	-	-	(pyr)	pyr (cpy)	wk	Check for cup and K-sp. Loc stng pyr in fracts. Qtz/chlr/pyr in healed fracts as in vnlt with ser env < 1.0cm. Loc stng ser in fract zones.	
161.1-164.9	Guichon	-	wk	loc carb, ser, chl	-	-	(Fe)	-	chl	chl ser (carb)	-	-	(pyr) (cpy)	cpy pyr	wk/ mod	As above with cpy in fracts. As abv. Contact between guich and mafic dyke at 164.9m. Prominent alt env on pyr filled fracts in dyke rock.	
164.9-168.6	dyke	168-168.2	wk/mod loc stng	cup? (carb) chl, ser	qtz 5-10° < 1cm	-	-	-	(ser)	ser chl (carb)	-	-	cup?	(cpy)	cpy	mod/ wk	Cup? Alteration around fract K-sp. Antitaxial vein (cpy)
168.6-170.0	dyke	-	mod/loc stng/bkn	-	-	-	-	-	-	-	-	-	-	-	-	-	As above.
170.0-174.4	Guichon	loc	wk/mod (loc stng/ bkn)	(carb) ser chl	-	-	(Fe)	-	ser	(ser) (chl)	-	-	tr cpy	pyr cpy	wk/ mod	Cup? Cpy>pyr. Strongly chloritized and ser near dyke contact. Guich- grey with pinkish tint evenly distributed mafics. Gouge 171.7-172.5 and 173-173.2. Qtz/chlr fracts with cpy>pyr. Ser selv and env <0.5cm	

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		
174.4-179.0	Guichon	-	wk/mod	asaabv	qtz vnlt	-	asabv	-	-	asabv carb	asabv	-	-	tr (pyr) cpy	cpy (pyr)	wk	Check for cup on fract. Check for K-spar Wk cpy with mafics in grdmass. Generally fresh guich with little alt other than around fract. Qtz/chlr vnlt and healed fract with chlr selv and ser env <1cm often with 1-2mm pyr/cpy on medial line.
EOH 179.0 m																	

DDH 95-2

Northing: 5604088.2		DDH 95-2				Azimuth: 136			
Easting: 641856.9		Elevation: 1706.4 m				Inclination: -45			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
13755	12.2	13.7	1.36	1.18	-	-	-	-	Guichon?: dis. Bx
13756	13.7	15.2	0.52	0.34	-	-	-	-	"
13757	15.2	16.7	0.35	0.26	-	-	-	-	Guichon: dis. Bx,
13758	16.7	18.2	0.35	0.27	-	-	-	-	loc. crushed
13759	18.2	19.7	0.33	0.27	-	-	-	-	"
13760	19.7	21.2	0.19	0.14	-	-	-	-	"
13761	21.2	22.7	0.23	0.06	-	-	-	-	Fault Zone: stng. gge.
13762	22.7	24.2	0.26	<.01	-	-	-	-	"
13763	24.2	25.7	0.23	<.01	-	-	-	-	"
13764	25.7	27.2	0.22	<.01	-	-	-	-	"
13765	27.2	28.7	0.24	<.01	-	-	-	-	"
13766	28.7	30.2	0.27	<.01	-	-	-	-	"
13767	30.2	31.7	0.28	<.01	-	-	-	-	"
13768	31.7	33.2	0.13	<.01	-	-	-	-	"
13769	33.2	34.7	0.15	0.01	-	-	-	-	"
13770	34.7	36.2	0.38	0.01	-	-	-	-	"
13771	36.2	37.7	0.63	0.01	-	-	-	-	alt. porph. frags./
13772	37.7	39.2	0.52	0.01	-	-	-	-	loc. gge.
13773	39.2	40.7	0.61	0.01	-	-	-	-	"
13774	40.7	42.2	0.52	0.01	-	-	-	-	"
13775	42.2	43.7	0.55	0.01	-	-	-	-	"
13776	43.7	45.2	0.47	0.01	-	-	-	-	porph./Guich. frags./
13777	45.2	46.7	0.42	0.01	-	-	-	-	loc. gge.
13778	46.7	48.2	0.37	0.01	-	-	-	-	Fault: lithic frags.
13779	48.2	49.7	0.40	0.01	-	-	-	-	Guichon/Porphyry:
13780	49.7	51.2	0.32	-	<.1	<.01	5	<.001	stng./shatt. loc. int.
13781	51.2	52.7	0.42	-	<.1	<.01	5	<.001	"
13782	52.7	54.2	0.40	-	0.1	0.003	5	0.002	"
13783	54.2	55.7	0.58	-	0.2	0.006	5	0.010	Porphyry/Guichon:
13784	55.7	57.2	0.42	-	0.3	0.009	5	0.003	stng./bkn.
13785	57.2	58.7	0.39	-	0.2	0.006	5	0.003	"
13786	58.7	60.2	0.27	-	0.1	0.003	5	0.003	"
13787	60.2	61.7	0.39	-	0.2	0.006	5	0.001	Guichon: mod./stng.
13788	61.7	63.2	0.37	-	0.5	0.015	5	<.001	"
13789	63.2	64.7	0.43	-	0.2	0.006	5	0.001	"
13790	64.7	66.2	0.51	-	0.2	0.006	5	0.001	"
13791	66.2	67.7	0.39	-	0.2	0.006	5	<.001	"
13792	67.7	69.2	0.42	-	0.2	0.006	5	0.001	"
13793	69.2	70.7	0.47	-	0.1	0.003	10	0.001	"
13794	70.7	72.2	0.56	-	0.7	0.020	10	0.002	Guichon/Hybrid:
13795	72.2	73.7	0.56	-	0.3	0.009	5	<.001	stng./bkn.
13796	73.7	75.2	0.26	-	<.1	<.01	5	<.001	"
13797	75.2	76.7	0.21	-	<.1	<.01	5	<.001	"
13798	76.7	78.2	0.19	-	<.1	<.01	5	0.002	Fault Zone
13799	78.2	79.7	0.31	-	0.4	0.012	5	0.001	Guichon: stng. fract'd.

DDH 95-2

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
13800	79.7	81.2	0.19	-	0.3	0.009	5	<.001	wk.
13801	81.2	82.7	0.20	-	0.3	0.009	5	<.001	"
13802	82.7	84.2	0.51	-	0.5	0.015	5	0.001	Fault Zone: loc. gge.
13803	84.2	85.7	0.23	-	0.4	0.012	5	<.001	"
13804	85.7	87.2	0.23	-	0.2	0.006	5	<.001	"
13805	87.2	88.7	0.26	-	0.1	0.003	5	<.001	"
13806	88.7	90.2	0.21	-	<.1	<.01	5	<.001	"
13807	90.2	91.7	0.30	-	<.1	<.01	5	<.001	Hybrid: stng. bkn.
13808	91.7	93.2	0.25	-	<.1	<.01	5	<.001	Hybrid/Porphyry:
13809	93.2	94.7	0.44	-	0.1	0.003	10	<.001	stng./int.
13810	94.7	96.2	0.44	-	<.1	<.01	5	0.001	"
13811	96.2	97.7	0.24	-	<.1	<.01	5	<.001	Fault Zone: loc. gge.
13812	97.7	99.2	0.16	-	<.1	<.01	5	<.001	"
13813	99.2	100.7	0.17	-	<.1	<.01	5	<.001	"
13814	100.7	102.2	0.19	-	<.1	<.01	5	<.001	"
13815	102.2	103.7	0.20	-	<.1	<.01	5	<.001	"
13816	103.7	105.2	0.26	-	<.1	<.01	5	<.001	"
13817	105.2	106.7	0.40	-	<.1	<.01	5	<.001	Hybrid/Nicola?: Bx
13818	106.7	108.2	0.22	-	0.2	0.006	5	0.002	Hybrid/Guichon:
13819	108.2	109.7	0.25	-	<.1	<.01	5	0.001	wk./mod.
13820	109.7	111.2	0.19	-	0.1	0.003	5	<.001	"
13821	111.2	112.7	0.25	-	0.3	0.009	5	<.001	"
13822	112.7	114.2	0.25	-	<.1	<.01	5	<.001	Hybrid/Dyke?: wk.
13823	114.2	115.7	0.23	-	0.2	0.006	5	0.001	Fault Zone: stng. gge.
13824	115.7	117.2	0.53	-	0.9	0.026	5	0.012	"
13825	117.2	118.7	0.40	-	0.2	0.006	5	0.004	"
13826	118.7	120.2	0.58	-	<.1	<.01	5	0.002	"
13827	120.2	121.7	0.22	-	<.1	<.01	5	0.001	"
13828	121.7	123.2	0.21	-	0.5	0.015	5	<.001	"
13829	123.2	124.7	0.26	-	<.1	<.01	5	<.001	"
13830	124.7	126.2	0.22	-	<.1	<.01	5	<.001	loc. comp. Hybrid?
13831	126.2	127.7	0.34	-	0.5	0.015	5	<.001	"
13832	127.7	129.2	0.36	-	<.1	<.01	5	<.001	"
13833	129.2	130.7	0.29	-	0.2	0.006	5	0.003	"
13834	130.7	132.2	0.17	-	0.3	0.009	5	0.001	"
13835	132.2	133.7	0.22	-	0.5	0.015	10	0.006	mod./stng. gge.
13836	133.7	135.2	0.25	-	0.2	0.006	5	0.002	"
13837	135.2	136.7	0.30	-	0.6	0.017	5	0.006	"
13838	136.7	138.2	0.25	-	0.6	0.017	5	0.004	"
13839	138.2	139.7	0.38	-	0.4	0.012	5	0.009	"
13840	139.7	141.2	0.33	-	0.2	0.006	5	0.010	"
13841	141.2	142.7	0.34	-	0.1	0.003	5	0.003	Hybrid/Guichon:
13842	142.7	144.2	0.43	-	0.3	0.009	5	0.006	wk./mod.
13843	144.2	145.7	0.22	-	<.1	<.01	5	0.002	"
13844	145.7	147.2	0.21	-	<.1	<.01	5	<.001	"
13845	147.2	148.7	0.11	-	<.1	<.01	5	<.001	"
13846	148.7	150.2	0.14	-	<.1	<.01	5	<.001	Hyb./Guich.: wk./mod.

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
13847	150.2	151.7	0.12	-	<.1	<.01	5	0.001	Fault Zone
13848	151.7	153.2	0.14	-	0.3	0.009	5	<.001	Hybrid/Guichon:
13849	153.2	154.7	0.12	-	0.2	0.006	5	0.001	wk./mod., loc. gge.
13850	154.7	156.2	0.08	-	<.1	<.01	5	<.001	"
13851	156.2	157.7	0.11	-	<.1	<.01	5	0.001	"
13852	157.7	159.2	0.08	-	<.1	<.01	5	<.001	"
13853	159.2	160.7	0.09	-	<.1	<.01	5	<.001	"
13854	160.7	162.2	0.08	-	<.1	<.01	5	<.001	"
13855	162.2	163.7	0.08	-	<.1	<.01	5	<.001	"
13856	163.7	165.2	0.14	-	<.1	<.01	5	<.001	"
13857	165.2	166.7	0.11	-	<.1	<.01	5	0.003	Dyke
13858	166.7	168.2	0.16	-	<.1	<.01	5	0.003	"
13859	168.2	169.7	0.19	-	<.1	<.01	5	0.001	"
13860	169.7	171.2	0.15	-	<.1	<.01	10	0.001	"
13861	171.2	172.7	0.18	-	<.1	<.01	5	0.001	Guichon: wk./mod.,
13862	172.7	174.2	0.13	-	<.1	<.01	5	<.001	loc. stng. bkn.
13863	174.2	175.7	0.15	-	<.1	<.01	5	<.001	"
13864	175.7	177.2	0.24	-	<.1	<.01	5	<.001	"
13865	177.2	178.7	0.12	-	<.1	<.01	5	0.001	"
13866	178.7	180.2	0.13	-	<.1	<.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-3	Date	07-Aug							Logged by:	PM, VN								
Elevation	1706.1 m	Azimuth	003							Easting:									
Inclination		Length		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
ROCK TYPE		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary						
interval (m)									perv.	fract.		perv	fract	perv	fract				
0-6.1	overburden	N																Mn staining? Guich,(chloritic)	
6.1-9.1	Guichon	n	stng	ser,(carb)	-	Cu? Fe	Fe, Mn	X	ser/cly	ser/cly	ser						N	Possible Cu staining of ser. Heavily altered guich, strongly fractured.	
9.1-10.6	Guichon	n	stng bx, ckle	cly? ser	-	Cu? Fe	Fe, Mn Cu	X	ser/cly	ser/cly	as abv	chrys	chrys	-	-		N	Clys? Stng bx guich with chrys, Mn on fract.	
10.6-11.5	Guichon	n	as abv	as abv	-	Cu? Fe	Fe, Mn Cu	X	ser/cly	ser/cly	as abv	asabv	asabv	-	-		N	Clays? Strong breccia guichon with chrys, Mn on fractures.	
11.5-11.8	fault zone	Y	gge, bx	ser	-	Fe,Cu?	Fe,Cu?	cly?	ser/cly	ser/cly	-	-	-	-	-		N	Possible Cu stain ser. Clasts < 0.5 cm rounded.	
11.8-13.6	Guichon	N	stng	ser	-	-	Fe, loc Cu	X	ser	ser/cly	ser	chlr	chlr	-	chrys	-	N	Loc bot chrys on fract, sulphides? jar? chrys (botryoidal) on fract clys? on fract.	
13.6-13.8	fault zone	Y	int gge	-	-	Fe	Fe		cly	ser	-	-	-	-	-		N	Clays? Poss Mn, clys, hem, clast size <2 mm, rounded.	
13.8-16.2	Guichon	N	stng/shatt	ser	-	-	Fe, hem (chrys)		ser/cly	ser, cly	ser	chlr?		chrys	-		N	HCl goes yellow, (Mn).	
16.2-18.0	Guichon	-	stng/bkn	ser, chlr?	-	-	Fe, Mn dend Cu spts jar	X	ser, cly	ser/cly (grn)	ser	chlr	-	(chrys?) staind ser	-		-	Pale grn fibrous mats/crystals. Hematite jar, staining on fract. Porphyry contact ~ 18.0 m.	
18.0-19.6	Porphyry	loc	int/bkn	ser (cly)	qtz <1cm 70-80° vuggy	-	Fe	X	sil ser cly	ser	-	-	-	-	-		-	Loc hyd ser. 17.8-18.0 m fault gge, clys.	
19.6-21.1	Guichon	20.6 m	int/bkn	ser	qtz<1cm vuggy	Fe, jar	Fe,jar hem	X	(sil)cly	-	-	-	(chrys)	-	-		-	Copper stained pervasive ser	
21.1-22.6	Guichon	loc	int/bkn	ser (chrys)	qtz < 1 cm vuggy	-	Fe	X	cly	ser	-	-	chrys	-	-		-		
22.6-24.2	Porphyry	loc	stng/bkn	ser	-	Fe in gge	Fe,Mn Cu spots	-	ser	ser	ser	chlr	-	-	-		-	Cu stain ser in gouge. Fault 22.6-22.8 m and in weathered core.	
24.2-26.1	fault zone	Y	int/bx	ser	-	Fe in gge	Fe	X	ser	ser	-	-	chrys	-	-		-	HCl turns yellow. ~45° C.A.	
26.1-27.8	Porphyry	loc	int/dis bx grades to stng at bottom of interval	ser	hem? < 1cm at 60° C.A.	-	Fe hem? (Mn) Cu spots	X	cly	-	ser	chlr	-	(chrys)	-		-	Cu stained ser. Gouge and dis bx at top of interval. Hematitic vein? at 27.1 m. Stng fract at base of int. Highly bich/ser Original fabric obscured.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal perv.	deuteric fract.	supergene perv	primary fract	supergene perv	primary fract			
27.8-30.1	fault zone Porph	Y	int/dis bx loc bkn	ser, cly	-	Fe, jar (Cu) Fe(Mn) Cu stn ser, cly	X	ser ser	ser cly	-	(chrys) w/ser	-	-	-	-	29.2-29.9m gouge (clays), ~40° C.A., clast size <1cm, angular. Strong bleached pervasive Cu stain.	
30.1-31.7	Porphyry	N	mod/stng	ser, carb, cly	-	Mn, Fe	X	carb ser	carb ser, cly	-	-	-	-	-	-	Orig fabric obscured by ser. Cu stained stng blich ser. Carb at 31.5 m first appearance, perv	
31.7-33.9	Porphyry	N	mod	ser, (cly) carb	-	Mn, Fe	X	asabv	asabv	-	chrys	-	-	-	-	Patchy carb in grdmss. Stng Fe stain <1cm along fracts. Stng Cu stain perv ser	
33.9-36.9	Porphyry	loc	bkn/stng	ser, (cly) (carb)	wk, qtz to 2cm 80° C.A.	cup? (Mn) Fe	-	ser	asabv cly	-	chrys in fracts	(cpy?)	-	-	-	Check for cup! Qtz vein ~ 36.7m bx sil zone(loc) above qtz vein with qtz frags. Flecks of Fe stain on core surface (late oxid?) Poss Sx with mafics.	
36.9-37.6	Porphyry	loc	mod/stng	ser, (cly)	qtz vein frags	Fe in gge	X	ser	ser cly	-	chrys in fracts	Sx?	-	-	-	Green Cu stain. Orig fabric barely discernible, stng ser/blich with Cu stain	
37.6-38.7	Porphyry	loc	mod/stng	(cly) ser carb	qtz vnits at 10-80° C.A.	Fe, Mn dend	X	ser	ser cly	-	chrys in fracts	-	-	-	-	Fine diss S ₂ ? As above. Fracts orient at ~40°. Minor fault at ~80° C.A.	
38.7-39.9	Porph	-	stng/int	ser (cly)	qtz frags	grn Cu Fe (Mn)	X	ser	ser cly	-	chrys on fracts	-	-	-	-	Pos H ₂ SO ₄ Cu test. Remnant qtz vein frags. Rock fabric weakly discernable.	
39.9-41.0	Porph	Y, 0-5° C.A. <1 cm	mod	as abv	-	grnCu Fe, (Mn)	X	ser loc carb	ser carb	-	chrys on fracts	-	-	-	-	Check for cup!! As above. Perv stain in gouge. Fabric as above.	
41.0-43.6	fault zone	Y	int/dis bx	as abv	-	grn Cu Fe, (Mn)	X	ser carb	as abv	-	chrys	-	-	-	-	As above. Fault zone with loc comp sections. Frags of poss alt Porph bright red, brwn Fe stn loc	
43.6-44.0	fault zone	Y	as abv	ser, cly carb	-	grn cu Fe(Mn dend)	X	asabv	asabv	-	chrys perv in gge chrys in fracts	Sx pyr?	-	-	-	As above. Poss sulphides with mafics. Matrix sand size, occ clasts to 3cm. Porph/Guich contact ~ 44.0 m	
44.0-45.1	fault zone Guichon?	Y	int/loc dis bx	ser, cly (carb)	-	grn Cu Fe (Mn dend)	X	asabv	asabv	-	asabv	asabv	-	-	-	Same as abv. Loc occ of cpy with mafics. Guich/Porph contact at ~ 45.1 m	
45.1-48.5	Porph	loc	stng	as abv	qtz <2cm 80° ca carb vnits	grn Cu Mn Fe	X	ser	ser (carb)	-	chrys on fracts. cup?	-	-	-	-	Check for cup!! Strongly fract with ckle bx and gge at top of int.	
48.5-49.6	Porph	-	mod	ser, carb	qtz +carb vnits (see rmks)	Fe(Mn dend)	-	ser	carb ser	-	stng chrys on fracts	cpy	-	-	-	Fracts at ~50° ca. Should run well. cont'd vning... <1cm at ~50° ca.	
49.6-51.1	Porph?	-	int/ckle bx	ser, carb chl	qtz vn frags <1cm vuggy	Fe, Cu/ Mn spts (hem?)	X	ser	carb ser	-	(chrys) on fracts	cpy	-	-	-	Check for cup. Cpy with mafics. Loc silicification of bx zone. Bottom of int stng ser blich.	

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
51.1-52.6	Porph?	loc	stng	ser,chr	-	Fe,jar	X	ser	ser	-	NCu in fracts	cpy				As above. Gouge at top of int with cpy in fracts healed with chr. Cpy perv diss with mafics. Grdmss ser/blch with loc abd chr/cpy fracts. Cu stn & loc unox'd zone 51.1-51.3 m		
52.6-54.1	Porph?, poss v short int of Guichon	-	v stng, loc dis bx	ser,chr carb	qtz + carb vnlt.	loc grn Cu	Fe, (Mn dend) cup	loc unox	ser	asabv	-	cup, chrys NCu	cpy on fracts			NCu blebs. Cpy in unox'd sections		
54.1-56.2	Porph	loc	stng/shatt	ser,cl (chr)	qtz frags < 1 cm	Fe,cup		near base of ox	ser	ser (chr)	-	cup, NCu (chrys)				NCu and cup prominent. Grades to chr at bottom of int. Siliceous, granular rock, w/ ground up blk sulphides?		
56.2-57.2	Grey Porph	-	v stng	ser	loc stkwk	(Fe)		zone loc ox		ser chr	-	(NCu)	cpy	cpy/loc stkwk				
57.2-58.5	Grey Porph	Y	stng/shatt	ser,cl	qtz vnlt frags <1cm	(Fe)			ser chr	ser carb	-	(cup?)	cpy in fracts & diss perv			Cpy with mafics. 10 cm gouge at 58.4m.		
58.5-59.8	Grey Porph	Y	ckle bx/dis bx	chr,carb ser	qtz vein frags <1cm	-			carb ser chr	ser chr (carb)	-		cpy w/maf & in fracts			Cpy diss perv and in fracts. Stng ser/chr throughout.		
59.8-61.9	Grey Porph fault zone	loc	stng/shatt/ int	ser,chr carb, cl	qtz <1cm vuggy	-			ser chr carb	ser chr carb	-		cpy			Cpy diss perv and in fracts. Notable inc in cpy. Stng occ of chr throughout. Stng inc in cpy perv and in fracts.		
61.9-64.5	Grey Porph fault zone	Y	stng/shatt	as abv	as abv w/ cal vnlt <1 cm	-			asabv	asabv	-		as abv			Cpy as abv. More chloritic with depth. Gouge 64.3-64.5m		
64.5-66.4	Dk grey Porph	-	stng	ser, chr (carb)	qtz vnlt < 0.5 cm	-			(ser) chr sil	carb chr ser	-		cpy in fracts & perv diss			As above. Antitaxial veins/vnlt with cpy on median.		
66.4-67.6	Dk grey Porph	loc	wk/mod	ser,chr carb	carb/qtz vnlt at 30-80° ca	-			sil	ser chr carb	-		as above			As above. Qtz/chr fracts with ser/blch env.		
67.6-70.3	Porph	-	mod/stng	ser,chr, carb	qtz(carb) vnlt healed w/ chr	-			sil	asabv	-	cup?	cpy as abv	wk		Check for cup. Qtz vnlt with chr and cpy Generally becoming mor competent.		
70.3-73.3	Porph	-	stng/ckle	chr (ser) carb	carb microvnlt Qtz <1cm at 30° ca	-			chr (ser)	ser ? chr carb	?	(cup?)	cpy in fracts and perv diss	wk/ mod		Cpy perv diss. As abv.		
73.3-87.5	tertiary dyke		comp/wk						unaltered							Amygdaloidal--invaded broken porph wall rock and contains fragments of porph. No evidence of an erosional unconformity.		
EOH 87.5 m																		

Northing: 5604088.9		DDH 95-3				Azimuth: 003			
Easting: 641663.3		Elevation: 1706.1 m				Inclination: -45			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
13867	6.1	7.6	0.53	0.40	-	-	-	-	Guichon: stng./
13868	7.6	9.1	0.51	0.38	-	-	-	-	ckle. Bx
13869	9.1	10.6	1.00	0.71	-	-	-	-	"
13870	10.6	12.1	0.79	0.58	-	-	-	-	fault zone
13871	12.1	13.6	0.75	0.50	-	-	-	-	stng./bkn., loc. gge
13872	13.6	15.1	0.58	0.27	-	-	-	-	"
13873	15.1	16.6	0.61	0.41	-	-	-	-	"
13874	16.6	18.1	0.71	0.39	-	-	-	-	"
13875	18.1	19.6	0.56	0.37	-	-	-	-	Porphyry: stng./
13876	19.6	21.1	0.42	0.24	-	-	-	-	bkn., loc. int.
13877	21.1	22.6	0.50	0.35	-	-	-	-	"
13878	22.6	24.1	0.63	0.49	-	-	-	-	"
13879	24.1	25.6	0.55	0.38	-	-	-	-	fault zone, int./Bx.
13880	25.6	27.1	0.59	0.43	-	-	-	-	Porphyry: int/dis bx
13881	27.1	28.6	0.59	0.43	-	-	-	-	"
13882	28.6	30.1	0.61	0.46	-	-	-	-	"
13883	30.1	31.6	0.53	0.35	-	-	-	-	mod/stng, loc bkn
13884	31.6	33.1	0.46	0.33	-	-	-	-	"
13885	33.1	34.6	0.53	0.31	-	-	-	-	"
13886	34.6	36.1	0.51	0.34	-	-	-	-	"
13887	36.1	37.6	0.51	0.43	-	-	-	-	"
13888	37.6	39.1	0.81	0.58	-	-	-	-	mod/stng, loc int
13889	39.1	40.6	0.69	0.51	-	-	-	-	"
13890	40.6	42.1	0.66	0.48	-	-	-	-	Fault Zone
13891	42.1	43.6	0.57	0.39	-	-	-	-	"
13892	43.6	45.1	0.81	0.14	-	-	-	-	"
13893	45.1	46.6	0.66	0.45	-	-	-	-	Porphyry: stng/int,
13894	46.6	48.1	0.66	0.46	-	-	-	-	loc shatt, loc dis bx
13895	48.1	49.6	0.79	0.49	-	-	-	-	"
13896	49.6	51.1	0.59	0.28	-	-	-	-	"
13897	51.1	52.6	0.75	0.04	-	-	-	-	"
13898	52.6	54.1	1.05	0.14	-	-	-	-	"
13899	54.1	55.6	0.48	0.04	-	-	-	-	"
13900	55.6	57.1	0.65	0.03	-	-	-	-	"
13901	57.1	58.6	0.69	0.03	-	-	-	-	"
13902	58.6	60.1	0.57	<.01	-	-	-	-	"
13903	60.1	61.6	1.03	0.01	-	-	-	-	"
13904	61.6	63.1	0.51	<.01	-	-	-	-	Fault Zone
13905	63.1	64.6	0.34	-	0.3	0.01	<5	0.007	"
13906	64.6	66.1	0.25	-	0.2	0.01	20	0.005	Porphyry: mod/stng
13907	66.1	67.6	0.28	-	0.2	0.01	<5	0.004	loc ckle
13908	67.6	69.1	0.26	-	0.3	0.01	<5	0.002	"
13909	69.1	70.6	0.22	-	0.2	0.01	<5	0.004	"
13910	70.6	72.1	0.28	-	0.2	0.01	<5	0.002	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-4	Date	08-Aug							Logged by:	VN	PM							
Elevation	1741.2 m	Azimuth	-							Northing:	5604066.5								
Inclination	-90	Length	182.6 m							Eastings:	641576.8								
ROCK TYPE		FAULT	FRACTURE	FRACTURE	VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)	GOUGE	INTENSITY	SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary							
								perv.	fract.		perv	fract	perv	fract					
0-13.7	overburden	-										chrys					Overburden. Guich clasts 0.1cm-3cm, occasionally showing of chrys. Kam-loops volcanics clasts.		
13.7-15.2	Guichon?	-	v stng/bkn	Fe, ser		Cu	Fe,Cu Mn	ser	ser			chrys					Chrys staining of ser in core matrix.		
15.2-16.7	Guichon?	-	stng/bkn	Fe, Cu(grn) ser	qtz <1cm at 10° ca	Cu(grn) loc	Fe(jar) Mn Cu(grn)		ser			chrys							
16.7-18.5	Guichon?	-	as abv	ser,chl	qtz <1cm at 60° ca		Fe(Mn) cu(grn)	cly?	ser	(ser)		chrys			tr		Stng chrys on fract. Stngly fract'd guich incr. comp.		
18.5-19.7	Guichon/Hyb?	-	mod	as abv	qtz <1cm at 70° ca		Fe, Mn loc Cu (grn)		(ser)	(ser)		chrys			tr		Numerous qtz vnlt at varying orientations vuggy. Increasingly chloritic with depth.		
19.7-21.2	Guichon	-	mod/stng	as abv	qtz <2cm 20° ca		Cu(grn) Fe(jar) Mn		ser	(ser)		chrys					Healed fract with chl/Fe. Bleached guich, quite stngly fract'd. Chloritic fract Fe staining.		
21.2-24.3	Guichon	-	wk/loc shatt	(ser)	mod qtz <1cm at 90°		Cu(grn) Fe(Mn)		(ser)	as abv		chrys					Chloritic, healed fract. Incr comp guich.		
24.3-25.7	Guichon	-	mod/stng	(chl) ser	qtz <1cm at 10-20° ca		Fe(jar) Cu(grn) (Mn)		ser	chl	as abv	chrys					Healed fract with chl stained with Fe. Wk chl/ser alt throughout. Loc clots of chloritized mafics.		
25.7-28.7	Guichon/Hyb	-	v stng/loc dis bx	ser, tr chl	qtz vns + vn frags <1cm		asabv Mn/Cu spots		(ser)	as abv		chrys					Poss mal? Guich/hyb? loc fine grained mafic blotched in generally weakly alt guich		
28.7-30.2	Guichon/Hyb	-	ckle/bx bkn	as abv	qtz <2cm bkn		Mn Fe(jar) Cu(grn)		asabv	asabv		chrys			wk		Poss mal? Guich/hyb, fine grnd mafic (chloritic) concs(xenoliths?) possible partial assimilation?		
30.2-31.7	Guichon/Hyb	-	ckle/bx stng	as abv	qtz <1cm 0-10 bkn discont		as abv Mn/Cu spots		asabv	asabv		chrys					Poss mal? and cup. As abv, incr chloritic poss inc siliceous, general inc in mafic density in guich.		
31.7-33.2	Guichon/Hyb	-	as abv	as abv	qtz <1cm 60-70° ca		Fe		asabv	asabv		NCu? chrys					Poss cup? Check for mal? As above.		
33.2-34.7	Guichon	-	dis bx	ser			Fe, Cu (grn) (Mn)	ser chl	ser chl		chrys in mat	chrys			wk		Check for cup. Guich dis bx with perv chrys and Cu-stained ser in matrix		
34.7-36.2	Guichon	-	dis bx	ser	qtz vn frag mod abd to 3cm	Cu in matrix	Cu loc(Fe)		ser (cly?) (chl)		chrys chrys	chrys					Stng chrys!!! in bx matrix. Should run well. Stng dis bx with chrys in matrix. Stng chrys in fract in qtz vn frags.		
36.2-37.7	Guichon	-	dis bx/bkn	ser	qtz vnlt and frags <0.5 cm	as abv	Fe(jar)		asabv		chrys chrys	chrys			wk		Fairly well cemented. As above. Check for cup. Clasts of guich in coarse grained bx matrix.		

interval (m)	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.
37.7-39.2	Guichon	-	ckle bx/ stng bkn	ser	qtz vn frags <3 cm	-	(Mn)	-	-	ser chlr	-	-	chrys	-	-	-	Guich ckle bx loc strongly fract'd and broken. Stng chlr env around fract.	
39.2-40.7	Guichon/Hyb?	-	stng/ckle bx	ser, chlr	qtz <1cm at ~30° conj sets	-	Fe(jar) (Mn) Cu ser	-	-	sil (ser) chlr	wk ser chlr	-	chrys	-	-	wk	Guich, stng fract'd/healed ckle bx with qtz/chlr in fract. Generally fairly siliceous comp.	
40.7-42.2	Guichon	-	wk dis bx	as abv	qtz <3cm at 20° ca	-	Cu(grn) (Fe(jar)) (Mn)	-	-	sil? chlr ser	-	-	chrys	-	Sx?	wk	Less Cu stain than previous. Guich, comp but less so than interval above. Open spaces in bx. Fe decrease from previous int's.	
42.2-43.7	Guichon	-	wk	ser	qtz <0.5 cm. vnlt	-	asabv (Cu(grn))	-	-	ser chlr ser	chlr ser	-	chrys	-	-	wk	Check for cup. Guich, increasingly comp with depth.	
43.7-46.7	Guichon/Hyb?	-	mod/stng loc bkn	ser, chlr	qtz <0.5 cm // ca	-	Cu, ser (Fe) (Mn)	-	-	ser chlr	(ser) (chlr)	-	stng chrys	-	-	wk	Wk all away from fract. Guich, generally comp, chlr in healed fract throughout int. Becomes more bkn with stng chrys in fract at bottom of int.	
46.7-48.2	Guichon/Hyb?	-	stng/bkn loc crushed	ser, chlr	as abv	-	as abv	-	-	asabv (ser)	(ser)	-	chrys	-	-	-	Wk Fe(jar) on fract. Guich, poss hyb with assim Nicola? xenoliths (fine grn, patchy) Stng chrys in fract at top of int. Locally vuggy.	
48.2-50.7	Guichon	-	stng/bkn	ser/chlr	qtz vn frags	-	asabv	-	-	asabv ser chlr	ser chlr (ser)	-	chrys	-	-	-	Similar to prev int with decrease in patchy mafics.	
50.7-51.8	Guichon	-	shatt	as abv	-	-	Fe(jar) (Mn) Cu ser	-	-	ser	(ser) (chlr)	-	chrys	-	-	-	Stng Fe stain on fract. Guich, loc bich and silicified where comp, generally shatt Mafics mod chlr.	
51.8-54.1	Guichon	-	shatt/loc dis bx	ser, chlr	qtz frags to 2cm	-	as abv	-	-	ser	-	-	chrys	-	-	-	As abv. Similar to in above. Stng loc chrys on fract. Loc comp (somewhat more silicic) otherwise shattered.	
54.1-54.8	Guichon	-	stng/shatt	ser, chlr	-	-	Fe (Mn) (Cu grn)	-	-	ser chlr	-	-	chrys	-	-	wk	Mod Fe stain on fract.	
54.8-56.7	Guichon fault zone	-	dis bx/loc crushed/ bkn	cly, ser chlr	qtz to 2cm 40° ca	Cu(grn) in mat	Cu(grn)	-	-	chlr ser	-	-	cup chrys	-	-	tr	Check for cup!! Should run. Guich frags in fault zone, milled appearance, most clasts rounded to angular, sand to 3cm (54.8-55.1m). Cu stained ser and cly in mat. Pervasive alt of mafics to chlr. Open space in qtz vein.	
56.7-57.8	Guichon	loc	stng/bkn	ser, chlr, cly?	-	-	Fe Cu ser	-	-	asabv	-	-	asabv	-	-	-	-	
57.8-60.4	Guichon	-	mod stng	ser, chlr	qtz to 2cm	-	as abv (Mn)	-	-	asabv (ser) chlr	(ser) chlr	-	asabv	-	-	tr/wk	Guich, mafic conc incr from prev interval. Loc conc of qtz vnlt in silicified crush zone (5-6cm wide). qtz/chlr in healed fract with diff chlr env throughout int.	
60.4-61.1	Guichon	-	stng/int loc crushed	ser, chlr	qtz vnlt frags.	-	Cu ser	-	-	ser chlr	-	-	asabv	-	-	-	Stronger ser than above. Guichon, stng int fract loc crushed with fracturing // c.a.	

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.			
61.1-62.7	Guichon	-	stng/loc ckle bx	stng ser chl, cly?	wk qtz <1cm at 50° ca	-	grn Cu ser, (Fe)	-	-	ser chl	(ser) chl	-	chrys (cup)	-	-	tr		Stng ser on fracts with chrys loc occur cup. Stng Cu-stained ser on fracts, loc occurrences of cup on fracts. Generally stng ser/chl on fracts, numerous chloritic fracts with chrys and/or Cu stained ser.
62.7-64.8	Guichon/Beth?	-	stng/loc crush	stng ser chl, carb	qtz <2cm at 90° ca	-	Cu(Fe)	-	-	chl ser carb	ser chl	-	cup chrys	-	-	tr		Stng cup and chrys on fracts. Guich, slightly more comp than abv, healed qtz/chl fracts with diffuse chl env at shallow angles to ca. Dykit (10cm) of Beth? at 63.7m, 1-2mm drill zones on margins of dyke.
64.8-66.8	Guichon/Beth?	-	stng/loc int and crushed	cly? ser chl, carb	qtz to 2 cm 90° ca	wk Cu (red)	stng Cu(red) wk Cu (grn)	-	-	ser chl (carb)	ser? chl?	wk/ loc cup	cup chrys	-	-	tr		Stng cup in fracts and loc diss w/ maf. Guich, stng fract'd/loc int crushed zone (65.3m) Fgr xenolith ~ 10cm, mod high mafic conc, poss Beth? (65.8m). Numerous healed fracts with qtz/chl filling and chl env. Stng inc in cup, decrease in chrys and grn Cu-stained ser.
66.8-69.2	Guichon	Y, w/Qtz vn frags	wk/mod	cly? ser, chl fracts at 45° ca	qtz to 1 cm, at 70- 80° ca. Qtz to 3cm at 70° ca	-	Cu(grn) Fe	-	-	ser chl (carb)	ser? chl	-	chrys cup	-	-	wk		Stng cup at top of int. Guich with loc fault/gge 69-69.2m decr in cup on fracts with depth, inc in chrys/grn Cu stained ser in fracts at ~45° ca. Dkit 2-3 cm at 70, 68.3m, Beth? phase, qtz vn ~3cm, bounded by beth dkit and guich, with K-sp in qtz and as selv.
69.2-70.6	Porph/ Witches Brook Phase C?	-	stng/dis bx loc crushed bkn	(ser) (carb)	qtz vns + frags w/ K-sp to 2cm 0-5°	-	tr Cu (grn) (Fe)	-	sil	ser	-	-	tr chrys?	-	-	-		Notable inc in K-sp and sil. Crowded porph, dis bx loc int fract'd with blebs and vnits of pink K-sp. Generally quite siliceous through not comp. Frags of WB phase C? Near bottom of int. Qtz vein w/ K-sp/chl at bottom of int, aphanitic, chloritic altn (drill margin?) 1cm between qtz vein and WB phase. CONTACT!!
70.6-72.2	Witches Brook	-	stng/bkn	(Fe)(ser) chl	-	-	(Fe) (Cu-grn)	-	-	-	-	-	(cup) chrys	-	-	-		Stng chl blebs of maf, prob hbde? WB (phaseC?) K-sp rich stng perv chl of maf mafics blebs often end in ser plag. Fracts with cup/Cu stained ser 0-5° ca and ~45°
72.2-74.4	Witches Brook	-	as abv loc shat	(Fe) ser chl	-	-	as abv	-	-	ser	-	-	(cup) (chrys)	-	cpy?	tr		As above, inc fract int with depth.
74.4-75.8	Witches Brook	-	stng/shat loc crushed	(Fe) ser	-	-	Fe	-	-	ser	-	-	(chrys) cup	-	cpy?	-		As above.
75.8-78.3	Witches Brook	-	mod/stng	ser, chl	-	-	(Fe) Cu(red and grn)	-	-	ser chl	-	wk dissp cup	cup (chrys)	-	-	-		Wk diss cup, generally assoc w/ maf. Wb, (fault 76.5-78.0m 10% recovery) more comp than abv. Fracts at 20 + 50° ca. w/ cup + minor/tr chrys. Cup diss perv as blebs, often w/ chloritized mafics.

interval (m)	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.
78.3-80.3	Witches Brook	loc	wk/mod	ser, chl cly?	-	-	as abv	-	-	chl ser	-	tr dissp cup?	(cup) (chrys)	-	-	-	Tr diss cup? WB, generally comp, loc gge, notable decr in cup and chrys. Fracts as abv.	
80.3-83.3	Witches Brook	Y	stng/int loc crushed	ser, chl, cly	-	-	(Fe) tr Cu (red+grn)	-	-	ser chl	-	asabv	(cup) (chrys)	-	-	-	As above? Check for cup. WB, stng to int fract'd, loc crushed with gge 82.0-82.1m and 82.5-82.7m with cup and chrys stains on frags. Inc in chrys staining over prev int. Fracts as abv and at 0-5° ca	
83.3-85.4	Witches Brook	-	mod/stng loc bkn	ser, cly? chl	-	-	(Mn) Fe, (tr Cu ser)	-	-	ser (carb)	-	-	-	-	-	-	Tr Cu-stained ser. Fracts at ~0 and 20° ca	
85.4-87.5	Witches Brook	-	stng/shatt	ser, cly?	-	-	Fe	-	-	ser (carb)	-	-	(cup?)	-	-	-	Stng Fe stain throughout. Check for cup. WB, lost core (cave), stng fract'd /shatt	
87.5-90.2	Witches Brook fault zone	Y	stng/shatt loc int	ser, cly (carb)	-	-	Fe	-	-	ser (chl)	-	-	-	-	-	-	No visible min. WB, gge (87.7-90.2m) fault zone.	
90.2-91.7	Witches Brook fault zone	-	shatt	ser, chl (carb)	-	-	Fe	-	-	ser	-	-	(chrys)	-	-	-	Reappearance of chrys on fracts. WB, loc blch/chlr mafics around fracts.	
91.7-93.2	Witches Brook fault zone	Y	stng/shatt loc int	ser, carb (chl) cly?	-	-	Fe (hem?) grn ser	-	-	ser	-	-	-	-	-	-	WB, (gge 92.7-93.0m) Fault zone. Fracts at 0-5 and 30° ca. Fe-stained? (pos hem)	
93.2-94.9	Witches Brook	-	stng/bkn	cly? ser (carb)(chl)	-	-	Fe (hem)	-	-	ser (carb)	-	-	-	-	-	-	Fracts at 20 and 80°ca. Fe-staining as abv. <u>Contact</u> with porph at 94.9m	
94.9-95.7	fault zone (Porph?)	-	int/shatt bx	cly? ser	-	-	Fe(jar)	-	-	ser	-	-	(chrys)	-	-	-	Porph with well dev plag phenos. Poss porph, plag phenos, fine grained matrix speckled with mafics, plag phenos, poss zoned.	
95.7-97.7	Porph	-	stng/bkn	ser, (chl)	carb vnit at ~ 20° ca	-	Fe(jar) (hem?)	-	-	ser (chl)	-	-	asabv	-	-	-	Red stain, poss hem? <u>not</u> cup. Pink-grey porph, texture as above, with occ chl mafic phenos to 4mm. Mafics poss poikilitic with plag.	
97.7-99.2	Porph	-	stng/shatt	ser (chl) (carb)	-	-	asabv	-	-	ser (chl) carb	-	-	-	-	-	-	As abv. Fracts at 20 and 80°.	
99.2-100.7	Porph WB? <u>contact</u>	-	stng	ser, (chl) carb	-	-	Fe(jar) (hem?) (Mn)	-	-	ser (chl) carb	-	-	-	cpy?	-	-	Check for cpy with mafics. Black/purple unkn min in mafics (porph). <u>Contact</u> btwn porph and WB ~99.4m at 10° ca. Pink- grey porph abv, sharp contact with pink K-sp-rich WB? below. Feldsp phenos in WB are signif. Fracts at 70° ca.	
100.7-102.0	WB/Porph fault zone	Y (2cm)	stng/loc int	cly, ser (chl) carb	-	-	Fe(jar) (hem)	-	-	ser (chl)	-	(NCu?)	-	-	-	-	Check for NCu. Fault contact btwn upper WB and lower porph. Fract at 0° ca	
102.0-105.2	Porph	-	wk	ser, (chl) (carb)	carb vnit at 35° ca	-	as abv	-	-	ser (chl) (carb)	-	NCu	(NCu) (cup?)	-	-	-	NCu on fracts and dissp. Check for cup. Porph, wk fract'd, generally comp. Fracts at 20 and 50-60° ca. <u>NCu</u> assoc w/mafic	
105.2-108.2	Porph	-	wk/loc int + crushed	ser, (carb)	-	-	as abv	-	-	ser (carb)	-	NCu	-	-	-	-	Stng Fe stain on 90° fracts. NCu within mafic. Porph, wk fract'd, comp, fracts at 0, 20, 80 and 90° ca. Stng shat/crush	

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)																	
108.2-110.4	Porph	-	wk	ser,carb (chlr)	-	-	Fe(jar)	-	-	ser carb (chlr)	-	-	-	-	-	int (10cm) at 106.7m Porph, frags at 50 and 90° ca. 90° frags stng Fe stained and sericitic. Fracts often have diffuse Fe stained env to 2-3cm	
110.4-111.8	Porph/WB contact	-	stng/bkn	ser, carb	-	-	asabv (hem) (Mn?)	-	-	ser carb	-	(NCu)	-	-	-	Loc NCu in porph. Fracts at 0 and 70° stng Fe stained with ser. Porph/WB contact at 111.4 m (shatt at contact) Fe stained env as above.	
111.8-113.4	Witches Brook fault zone	4	stng/dis bx	ser carb	carb vnlt to 1 cm near fault zone	loc Fe	as abv (Mn?)	ser	carb in FZ	carb ser chlr	-	-	-	-	-	Perv carb. WB, fault zone, gge at 113.1-113.4m, loc calcite void filling in bx. Fault at ~ 15° ca. Fracts and fault bx healed with calcite. Healed fracts at 0° < 0.5cm.	
113.4-115.7	Witches Brook	-	dis/bx stng	ser, carb (chlr)	-	loc Fe	Fe	-	-	ser	-	-	-	-	wk	Fe-staining as abv. Diffuse Fe staining env around fracts.	
115.7-117.2	WB/Porph contact	-	mod/stng	ser,carb	microfracts w/calcite	-	Fe(jar) (hem)	-	-	ser	-	(chrys?)	-	-	tr	Poss Cu stained ser? Contact at 116.3m Fract sets at 0, 10, and 90°. Fracts at 90° are stng Fe stained. Diffuse Fe staining of wall rock around fracts often loc perv	
117.2-118.7	Porph	-	mod/stng, loc dis bx	ser,carb chlr	carb in microvns	loc Fe	Fe	-	-	ser carb	-	(cup?)	-	-	-	Check for cup. Porph, gen comp, slight inc in K-sp with depth; diff Fe staining as abv freq on fracts at 20° ca other fracts at 70-80° ca also stng Fe stained, dis bx (blch ser) 119.3-119.6 m	
118.7-120.9	Porph	loc at 120.6 m	mod/stng loc int	ser, carb chlr, cly?	as abv	loc Fe (in gge)	Fe	-	-	ser carb	-	-	-	-	-	Variable mod/stng Fe stain. Porph, continues as abv; loc gge at 120.6m (~1cm)	
120.9-122.2	Porph/WB	-	stng/loc int	ser,carb	as abv	loc Fe	Fe(Cu- grn)	-	carb	asabv	-	(chrys?)	-	-	-	Inc K-sp with depth. Porph/WB contact stng fract'd/bkn. Location of contact obscured by fracturing.	
122.2-123.2	Witches Brook	-	stng/bkn	as abv	asabv	loc Fe	stng Fe	-	carb	carb ser	-	-	-	-	-	Stng Fe stain at top of int. WB, strongly fract'd loc int; generally stng K-sp w/ patchy stng ser and Fe staining; Wk Cu stained ser. Vague/diffuse contact w/ porph at 123.2m	
123.2-126.2	Porph	-	stng/loc bkn	carb, ser	carb micro vns	loc Fe	Fe	-	carb	carb ser	-	(cup?)	(cup?)	-	-	Check for cup? Pink-grey porph, loc stng Fe-staining around fracts with stng ser alt (70-80° ca), patchy increases in K-sp? (alt env) around fracts. Diffuse Fe staining as prev. Fract sets at 0 and 70-80° ca	
126.2-128.0	Porph/WB contact (shear zone?)	-	stng/int dis bx	carb, ser (cly?)	as abv	Fe in bx mat	Fe	-	carb	carb ser	-	-	-	-	-	Porph/WB contact 124.7m, 60° ca. Porph WB frags in dis bx 124.7-125.7m, contact at 125.7m also at 125.7m at ~ 60° ca Fract sets as above.	
126.2-128.0	Porph	loc <0.5	mod/stng loc dis bx	carb, ser (chlr)	as abv	loc Fe	(ser strn grn)	-	(ser)	carb ser	-	-	-	-	-	Diss bx near top of level and base of level Frac sets 20 and 30° strongly mineral'd	

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
interval (m)																		
128.0-130.2	Porph/fault shear zone	loc	mod/loc intense	clay, ser carb	as abv	Fe loc	Fe	-	-	grn	-	-	chrys?	-	-	-	Zeolites? Grey/grey pink porph/loc soft green stained mineral. Fract sets 20°	
130.2-132.2	Porph/fault shear zone	-	int/bkn, mod	carb, ser	as abv	-	Fe	-	-	(carb)	-	-	-	-	-	-	Wk Cu bearing ser and carb. Grades to K-sp at bottom of interval - incr comp with depth. Fract set 15-20° wk Cu bearing ser and carb on fract.	
132.2-134.9	Porphyry	loc	wk/mod	carb, (ser)	carb vnits microvns	-	Fe	-	-	carb	-	-	-	-	-	-	Fract set 45, 80, 15-20 degrees.	
134.9-136.7	Porphyry	136.5- 136.7m	stng/int bkn	carb, chl clay	carb asabv	-	Fe	-	-	carb	-	-	-	-	-	cpy	H ₂ SO ₄ test for Cu wkly +ve. Cpy approx at 136.5m. Porph - grey/grey green, pods of calcite. Chlor at approx 136.4 m/ hem stained clay?	
136.7-139.7	Porphyry	-	stng frct'd bkn/dis bx	carb, ser clay	carb micro vns	-	Fe	-	carb	carb ser B (grn stnd ser)	-	-	-	-	-	?, diss pyr)	Porph may contain clasts of WB	
139.7-141.2	Porphyry	loc	stng/bkn	clay, ser chl, carb	-	-	Fe, hem	-	-	carb ser chl?	-	-	-	-	-	-	Porph-grey	
141.2-143.3	Porphyry	-	stng/bkn	carb, ser?	carb microvns	-	Fe	-	-	(carb)	-	-	-	-	-	-	Red blobs in middle of ser feldsp. As abv Feldspars a little more distinguished, more silicic.	
143.3-145.7	Porphyry	-	stng bkn loc	carb ser?	as abv	-	Fe	-	-	carb	-	-	-	-	-	-	Porph - grey/ grey green, hematite spots in places.	
145.7-148.7	Porphyry	loc	stng loc crushed	clay, chl	as abv	-	(Fe)	-	-	carb (ser)	-	-	-	-	-	-	Loc hem staining. Sublet textural changes. Porph gry grn, gry pink. Fract set 60° some at 0-10°.	
148.7-149.9	Porphyry	-	stng/bkn	carb (ser) chl	-	-	(Fe) (hem)	-	-	carb (ser)	-	-	-	-	-	-	Pyr? Porph- gry pink, mafics are strongly chloritized. Fract at 30° strong Fe stain	
149.9-153.2	Porphyry	-	wk	carb, ser chl, (clay?)	as abv at 20°	-	(Fe)	-	-	carb chl (ser)	-	-	-	-	-	-	(Epidote?) Porph gry grn/pink, prominent blebs of chloritized, mafic that previous more K-sp rich and finer grained at base of interval.	
153.2-156.0	Porphyry	dis bx loc	stng/bkn	ser, chl (carb)	as abv	-	Fe	-	-	carb (ser) chl	-	-	-	-	-	-		
156.0-160.7	Porph	-	wk	carb, (ser)	-	-	(Fe) (hem) chl loc	-	-	(carb)	carb	?	-	-	-	-	wk	Porph increases, more siliceous, decreasing carbonate. Fract sets 70, 30, and 0° Strongly bkn at 156.2m

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)																	
160.7-164.9	diffuse contact zone	loc	dis bx		-	hem	-	(carb)	carb	?	-	-	-	(cpy)	wk	HCl turns yellow. Strongly chloritized at 160.8 and ser, bleached. Diffuse contact btwn WB and porph. Diss bx at base of interval frags of WB and porph.	
164.9-166.7	Witches Brook	-	stng/bkn	Fe, carb ser	-	hem	-	carb	(carb)	-	-	-	(cpy)	wk			
166.7-169.2	Witches Brook	-	wk	(Fe) carb ser	carb at 20° < 1cm	(Fe)	-	carb	carb	-	-	-	-	-	-	WB- pink/gry- blotchy mafics up to 0.3mm suspended in a K-sp matrix with feldspar up to 0.2 mm, increasing pink with depth.	
169.2-171.3	Witches Brook	loc	stng/int	carb, chlr ser, cly	-	hem	-	carb	chl	-	-	-	-	-	-	Fract sets - 40 and 0-5° shallow angle chl and ser. H ₂ SO ₄ test -ve.	
171.3-172.8	Witches Brook	-	as abv	chl, ser	carb microvns	Fe	-	carb	(ser)	-	-	-	-	wk	Fract sets 0-5° have most chl ser development.		
172.8-176.1	Witches Brook	loc	stng/bkn loc int	carb, cly (ser)	as abv	(Fe) hem	-	carb	chl	-	-	-	-	-	-	Hem stain.	
176.1-178.7	Witches Brook	loc 1cm at 10d	wk	carb, chl ser?	carb vnlt	Fe	-	carb (ser?)	carb	?	-	-	-	-	-	WB greying with depth. Fract sets at 50 and 40 degrees.	
178.7-182.6	Witches Brook	-	wk	as abv	as abv and micro vns.	-	-	carb	chl carb	-	-	-	-	loc	Blebs of magnetite carb. WB- continuing to get darker with depth. Fract sets 30 and 70 degrees.		
EOH 182.6 m																	

DDH 95-4

Northing: 5604066.5			DDH 95-4				Azimuth: -		
Easting: 641576.8			Elevation: 1741.2 m				Inclination: -90		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
13911	13.7	15.2	0.90	0.80	-	-	-	-	Guichon: v stng/bkn
13912	15.2	16.7	0.71	0.56	-	-	-	-	"
13913	16.7	18.2	0.72	0.60	-	-	-	-	"
13914	18.2	19.7	0.73	0.59	-	-	-	-	mod/stng
13915	19.7	21.2	0.47	0.38	-	-	-	-	"
13916	21.2	22.7	0.62	0.46	-	-	-	-	wk/loc shatt
13917	22.7	24.2	0.67	0.49	-	-	-	-	"
13918	24.2	25.7	0.55	0.39	-	-	-	-	stng, ckle/dis bx
13919	25.7	27.2	0.67	0.52	-	-	-	-	"
13920	27.2	28.7	0.55	0.41	-	-	-	-	"
13921	28.7	30.2	0.76	0.62	-	-	-	-	"
13922	30.2	31.7	0.72	0.47	-	-	-	-	"
13923	31.7	33.2	0.58	0.28	-	-	-	-	"
13924	33.2	34.7	1.23	1.03	-	-	-	-	"
13925	34.7	36.2	1.09	0.95	-	-	-	-	"
13926	36.2	37.7	0.76	0.59	-	-	-	-	"
13927	37.7	39.2	0.51	0.45	-	-	-	-	"
13928	39.2	40.7	0.64	0.58	-	-	-	-	"
13929	40.7	42.2	0.63	0.49	-	-	-	-	"
13930	42.2	43.7	0.57	0.36	-	-	-	-	wk/mod, loc stng
13931	43.7	45.2	0.43	0.30	-	-	-	-	"
13932	45.2	46.7	0.50	0.38	-	-	-	-	"
13933	46.7	48.2	0.43	0.29	-	-	-	-	stng/bkn, loc crushed/
13934	48.2	49.7	0.43	0.28	-	-	-	-	shattered
13935	49.7	51.2	0.31	0.22	-	-	-	-	"
13936	51.2	52.7	0.30	0.20	-	-	-	-	"
13937	52.7	54.2	0.46	0.27	-	-	-	-	"
13938	54.2	55.7	0.41	0.24	-	-	-	-	stng/bkn, loc dis bx/
13939	55.7	57.2	0.42	0.23	-	-	-	-	crushed
13940	57.2	58.7	0.52	0.36	-	-	-	-	"
13941	58.7	60.2	0.75	0.58	-	-	-	-	"
13942	60.2	61.7	0.49	0.32	-	-	-	-	"
13943	61.7	63.2	0.57	0.40	-	-	-	-	"
13944	63.2	64.7	0.41	0.29	-	-	-	-	"
13945	64.7	66.2	0.43	0.22	-	-	-	-	"
13946	66.2	67.7	0.35	0.22	-	-	-	-	wk/mod
13947	67.7	69.2	0.38	0.23	-	-	-	-	"
13948	69.2	70.7	0.03	0.02	-	-	-	-	Porphyry/Witches
13949	70.7	72.2	0.01	0.01	-	-	-	-	Brook (C):
13950	72.2	73.7	<.01	<.01	-	-	-	-	mod/stng, loc shatt/
13951	73.7	75.2	<.01	<.01	-	-	-	-	crushed
13952	75.2	76.7	<.01	<.01	-	-	-	-	"
13953	76.7	78.2	0.01	0.02	-	-	-	-	"
13954	78.2	79.7	0.02	0.01	-	-	-	-	"

DDH 95-4

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
13955	79.7	81.2	0.01	0.01	-	-	-	-	Porphyry/Witches
13956	81.2	82.7	0.01	0.01	-	-	-	-	Brook (C):
13957	82.7	84.2	<.01	<.01	-	-	-	-	mod/stng, loc shatt/
13958	84.2	87.2	<.01	<.01	-	-	-	-	crushed
13959	87.2	88.7	0.01	0.01	-	-	-	-	"
13960	88.7	90.2	0.02	0.01	-	-	-	-	wk fault zone
13961	90.2	91.7	0.03	0.01	-	-	-	-	stng/shatt loc int
13962	91.7	93.2	0.01	<.01	-	-	-	-	"
13963	93.2	94.7	0.01	<.01	-	-	-	-	"
13964	94.7	96.2	0.02	0.01	-	-	-	-	Porphyry: stng/
13965	96.2	97.7	0.02	0.02	-	-	-	-	shatt, loc int
13966	97.7	99.2	0.02	0.01	-	-	-	-	"
13967	99.2	100.7	0.01	0.01	-	-	-	-	WB: stng, loc int
13968	100.7	102.2	0.02	0.01	-	-	-	-	"
13969	102.2	103.7	0.01	0.01	-	-	-	-	Porphyry: wk/loc
13970	103.7	105.2	0.01	<.01	-	-	-	-	stng/bkn
13971	105.2	106.7	0.01	<.01	-	-	-	-	"
13972	106.7	108.2	0.01	0.01	-	-	-	-	"
13973	108.2	109.7	0.01	0.01	-	-	-	-	"
13974	109.7	111.2	0.01	0.01	-	-	-	-	WB: stng/bkn
13975	111.2	112.7	0.02	0.01	-	-	-	-	loc dis bx
13976	112.7	114.2	0.01	0.01	-	-	-	-	"
13977	114.2	115.7	0.01	<.01	-	-	-	-	"
13978	115.7	117.2	0.01	<.01	-	-	-	-	Porphyry: mod/stng
13979	117.2	118.7	0.01	0.01	-	-	-	-	loc int
13980	118.7	120.2	0.01	<.01	-	-	-	-	"
13981	120.2	121.7	<.01	<.01	-	-	-	-	"
13982	121.7	123.2	<.01	<.01	-	-	-	-	"
13983	123.2	124.7	<.01	<.01	-	-	-	-	"
13984	124.7	126.2	0.01	<.01	-	-	-	-	"
13985	126.2	127.7	0.02	0.01	-	-	-	-	"
13986	127.7	129.2	0.02	0.01	-	-	-	-	mod/stng loc dis bx
13987	129.2	130.7	0.03	0.01	-	-	-	-	"
13988	130.7	132.2	0.01	<.01	-	-	-	-	"
13989	132.2	133.7	0.01	<.01	-	-	-	-	wk/mod
13990	133.7	135.2	0.08	0.02	-	-	-	-	stng/bkn loc crushed
13991	135.2	136.7	0.36	0.03	-	-	-	-	"
13992	136.7	138.2	0.02	0.01	-	-	-	-	"
13993	138.2	139.7	0.02	<.01	-	-	-	-	"
13994	139.7	141.2	0.01	<.01	-	-	-	-	"
13995	141.2	142.7	<.01	<.01	-	-	-	-	"
13996	142.7	144.2	<.01	<.01	-	-	-	-	"
13997	144.2	145.7	0.01	0.01	-	-	-	-	"
13998	145.7	147.2	<.01	<.01	-	-	-	-	"
13999	147.2	148.7	<.01	<.01	-	-	-	-	"
14000	148.7	150.2	0.01	<.01	-	-	-	-	wk
15651	150.2	151.7	<.01	-	<.1	<.01	<5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
15652	151.7	153.2	<.01	-	<.1	<.01	<5	<.001	Porphyry: wk
15653	153.2	154.7	0.01	-	<.1	<.01	<5	<.001	stng/bkn, loc comp
15654	154.7	156.2	<.01	-	<.1	<.01	<5	<.001	"
15655	156.2	157.7	<.01	-	<.1	<.01	<5	<.001	"
15656	157.7	159.2	<.01	-	<.1	<.01	<5	<.001	"
15657	159.2	160.7	<.01	-	<.1	<.01	<5	<.001	"
15658	160.7	162.2	0.01	-	<.1	<.01	<5	<.001	"
15659	162.2	163.7	<.01	-	<.1	<.01	<5	<.001	"
15660	163.7	165.2	0.01	-	<.1	<.01	<5	<.001	"
15661	165.2	166.7	<.01	-	<.1	<.01	<5	<.001	WB: stng/bkn loc int
15662	166.7	168.2	<.01	-	<.1	<.01	<5	<.001	"
15663	168.2	169.7	<.01	-	<.1	<.01	<5	<.001	"
15664	169.7	171.2	0.01	-	<.1	<.01	<5	<.001	"
15665	171.2	172.7	<.01	-	0.1	<.01	<5	<.001	"
15666	172.7	174.2	<.01	-	<.1	<.01	<5	<.001	"
15667	174.2	175.7	<.01	-	<.1	<.01	<5	<.001	"
15668	175.7	177.2	0.02	-	<.1	<.01	<5	<.001	wk
15669	177.2	178.7	<.01	-	<.1	<.01	<5	<.001	"
15670	178.7	180.2	<.01	-	<.1	<.01	<5	<.001	"
15671	180.2	181.7	<.01	-	<.1	<.01	<5	<.001	"
15672	181.7	183.2	0.01	-	<.1	<.01	<5	<.001	"
end of hole									

GETTY NORTH PROJECT																Gower Thompson & Associates Ltd.	
DDH #	DH95-5	Date	10-Aug											Logged by:	VN PM		
Elevation	1751.0 m	Azimuth	-											Northing:	5603989.1		
Inclination	-90	Length	224.3 m											Easting:	641487.7		
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		
6.1-9.1	Guichon	at 9.1	stng/bkn	cly, ser	-	-	Fe, Mn	-	chl (ser)	ser	-	-	chrys?	-	-		Trace Cu stained ser.
9.1-11.2	Guichon	loc	stng/bkn loc int	cly, ser, chl	-	-	Fe, (Mn)	-	-	ser chl cly	-	-	-	-	-	wk	Possible WB dykelet at 9.3m ~ 80° > 5cm.
11.2-12.8	Guichon	-	stng/bkn	(cly) ser, chl	-	-	Mn, Fe	-	-	ser	-	-	chrys	-	-	wk	Small amounts of K-sp/very strong Fe staining on 40° frac with occ ser envelopes
12.8-15.1	Guichon	-	wk/mod	carb, ser chl	carb micro vns at 20°	-	(Fe) (loc Fe) (Mn)	-	-	(carb) (ser) chl epid	-	-	-	-	-		Epidote as blebs. Fract sets as above and 0°. Ep diffuse and blebs along fracts at 13.6. Increasingly Hybrid Guichon.
15.1-17.4	Guichon Hyb	at 16.0 at 5° ≤ 1 cm	stng/bkn	ser, chl carb, loc cly	-	-	Fe	-	-	carb ser chl	-	-	(chrys)	-	-	wk	Increasing epidote - occurs as halos around fractures and blebs. Healed chl fractures, strongly Fe stained.
17.4-19.6	Guichon Hyb?	-	stng	ser, chl carb, (cly?)	-	-	Fe(ser) (Mn)	-	chl (ser)	(cly?) carb ser chl	-	-	-	-	-	wk	Check for K-spar. Fract sets - 20 + 45° Wk-mod chloritization of mafics, strong Fe stained.
19.6-22.2	Guichon Hyb?	-	stng/bkn	ser, chl (carb)	qtz at 0-5° <1cm w/ chl selv	-	Fe, Mn	-	chl (ser)	carb ser chl	-	-	(chrys)	-	-	wk	Tr chrys on qtz vnlit 22.1m. Fract sets- very strong Fe stain on 20° set and 0-5° mafics as above.
22.2-24.4	Guichon/Hyb fault zone	-	stng/bkn	carb, ser (cly?)(chl)	qtz<0.5 cm ~0° C.A.	-	Fe (Cu-grn)	-	-	carb (ser) (chl)	-	-	(chrys)	-	-	wk/ mod	Maf mod mag. Guichon/Hyb. Strongly fractured and bkn (fault zone), plag and mafics are relatively fresh with little perv ser + chl Mis-latch at bottom of int. Tr chrys mineralization occurs along qtz vnlit at 0° C.A. w/ chl, Fe-stn selv.

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
24.4-25.3	Guichon/Hyb fault zone	-	stng/shatt (ckle bx?)	carb (ser) (cly?)(chlr)	qtz >2cm	-	Fe	-	-	carb (ser) (carb)	-	-	(chrys)	-	-	wk/ mod	Maf mod mag. Strongly fract'd to bx Guichon/Hyb. Stng loc qtz veining (at 25.3m) where shattered.	
25.3-26.0	fault	Y	int	cly, ser	qtz frags	(Fe) in gge	(Fe)	-	cly ser chlr	cly ser	-	-	-	-	-	-	Fault gge w/ white clay w/ Fe-stained frags of Guichon/Hyb.	
26.0-28.6	Guichon	-	stng/bkn	ser (carb) (chlr)	-	-	Fe (Cu-grn)	-	-	cly ser chlr	-	-	(chrys)	-	-	wk	Loc stng Cu stn ser on frags. Guichon/Hyb strongly fract'd/bkn apparent inc in K-sp? w/depth.	
28.6-30.5	Guichon fault zone	Y	int/shatt loc ckle	stng ser (carb)(chlr)	(porph dk ~1m) qtz vnlit <1cm at ~20° C.A. vuggy	Fe in matrix	Fe	-	ser chlr (carb) loc sil	ser chlr (carb)	-	-	(chrys)	-	-	-	Stng alt to ser/chlr with loc stng sil alt near & in porph dk. Guichon/Hyb, intense fract to shatt, with local ckle bx and gge. Very stng ser/chlr alt 29.5-30.5m. Porphyritic mafic dk, quite siliceous w/generally ghost like plag phenos, 28-29m. Ragged contact w/Guichon-[chrys min in qtz vnlit cutting porph dk (28m)] and Guichon/Hyb.	
30.5-31.6	Guichon	-	stng/ckle	ser, carb chlr,(cly?)	-	(Fe)	Fe	-	ser chlr (carb)	ser chlr carb (cly)	-	-	chrys	-	-	wk	Check for K-sp. Guichon/Hyb, stng alt perv chlr Stng Fe-stn on frags. Fract sets at 0-50. 30 and 500. Wk/mod chrys on fracts.	
31.6-32.2	Porph dyke	-	int/bkn	(carb) ser (chlr)	-	-	Mn- (dend) Fe	-	-	(chlr) ser (carb)	-	-	-	-	-	wk	Stng Mn stain as dendrites. Porph dyke similar to prev interval.	
32.2-33.5	Guichon/Hyb?	loc	stng	cly, ser (chlr)	-	-	Fe(Mn)	-	(chlr) (ser)	ep ser (chlr)	-	-	chrys	-	-	wk	Decrease in Mn. Check for K-sp.Guichon/ Hyb? 4cm minor fault at ~40° C.A. (healed & silicic) Fe staining & chrys in minor fault. Fracts at 40-45° C.A.. Blebs of epidote near fracts.	
33.5-35.4	Guichon?	-	stng/bkn	ser, chlr	-	-	Fe (Cu-grn)	-	(ser) (chlr)	ep chlr	-	-	chrys	-	-	wk	Guichon/Hyb. Ep as above, loc stn ser/chlr alt loc inc in mafics - poss assim'l'n of xenos?	
35.4-37.3	Guichon?	-	mod/loc shatt	chlr,ser (carb)	carb vnlt	-	Fe (hem) Mn Cu(grn)	-	(carb) chlr (ser)	ser chlr carb	-	-	(chrys)	-	-	wk	Mafics as above. Guichon/Hyb. Mafic conc as above, (carb assoc w/mafics?) fract sets at 15, 70-80° Fe stained. Qtz/chlr in healed fracts.	
37.3-39.1	Guichon	-	wk/mod	ser, carb	-	-	Fe(Mn)	-	(ser) (chlr)	ser carb	-	-	-	-	-	wk	Check for K-spar. Guichon, decrease in mafics. Healed chlr/qtz healed fracts in upper part of int, increasing comp w/depth.	

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		
39.1-40.9	Guichon	-	wk	carb, ser (chlr)	-	-	Fe (Mn- Cu spots)	-	(ser) (chlr)	carb ser (chlr)		(NCu)	(NCu) (cup)	-	-	wk	As abv. Check for NCu and cup. Guichon, comp, wk diss NCu, wk cup on fract. Fracs at 80-90° predominant. Stng Fe strained fract at 0° w/ser envelope. (appears older than the 80-90° set)
40.9-43.6	Guichon	-	wk/mod	ser, chlr carb	-	-	Fe, Mn	-	(ser) (chlr)	carb ser (chlr)		(NCu)	NCu	-	-	mod	Increase in diss & diss NCu. as abv. Decrease in K-sp/staining. 0° frac healed w/chlr/qtz & Fe-stn. NCu in fract. Wk diss NCu throughout.
43.6-44.6	Guichon	-	mod	as abv	-	-	Fe, Mn	-	(ser) (chlr)	carb ser		(NCu)	NCu	-	-	mod	Guichon, as abv. Cave at 44.2m Fracts as abv with additional fract at ~30° C.A.
44.6-46.6	Guichon	-	wk	carb, ser chlr	qtz ~ 1cm at 80° C.A. carb micro vns	-	Fe, (Mn Cu spots)	-	(carb) (ser) (chlr)	carb ser (chlr)		NCu	NCu? chrys?	-	-	mod	Chrys stained ser on fract. Guichon, qtz/chlr healed fract with wk diss NCu Generally comp, fract generally as abv
46.6-48.7	Guichon	-	wk/mod	chlr, ser, carb, (cly?)	qtz <0.5cm at 10° C.A.	-	Fe(Mn)	-	(ser) (chlr)	carb ser (chlr)		NCu	(NCu) (chrys)	-	-	wk	Check for cup. Guichon as above. NCu as above.
48.7-50.6	Guichon	loc 50.3m <1cm at 30°	mod/loc shatt	carb, ser chlr, cly?	-	-	as abv	-	(ser) (chlr)	carb ser chlr (cly)		NCu	(NCu) (cup) (chrys)	-	-	wk	NCu continuing as above. Inc in cup. Fracts at 80-90° stng ser/chlr and 15-20° stng ser/chlr.
50.6-52.6	Guichon	loc 51.7m	mod/loc shatt	carb, ser chlr, (cly)	-	-	Fe (hem) (Mn)	-	(ser) (chlr)	as abv		NCu	(NCu) (chrys)	?	-	wk	Possible primary strong Cu. Guichon, mod fract'd, loc stng/bkn where stng silicified (sil gge). No visible NCu in siliceous zone at 51.7m.
52.6-54.1	Guichon	-	stng/bkn shatt at top of interval	chlr, ser carb	-	-	Fe (hem) Cu-ser	-	(ser) (chlr)	(carb) ser chlr		NCu	(NCu) (cup) (chrys)	cpy (pyr?)	(cpy)	wk	Strong Cu (mostly NCu). Perv chloritization of mafics. Mafic xenoliths (53.3-54.1) Nicola? some partially assimilated-NCu and cpy in close proximity in Guichon and (mostly) in xenoliths.
54.1-56.7	Guichon	-	stng/shatt at 55.6	chlr, ser (carb), cly?	aplite dk 3cm at 80° C.A. 54.3m qtz ~1cm 80° C.A. 54.8 m	-	Fe Cu-ser	-	(ser) chlr	ser chlr carb		NCu	cup	cpy?	-	wk	Stng Cu on fract. Guichon, 3 cm apsite dyke with loc increase in fract. Healed shear?/ qtz/chlr/plag with ser selvage 80° C.A. Closely spaced fract at 60° C.A. with shatter zone directly below. Fracts also at 0°.
56.7-58.6	Guichon	loc	stng	cly? ser chlr, (carb)	-	-	Fe	-	(ser) chlr	ser chlr (carb)		(NCu)	NCu	-	-	tr	Apparent decr in NCu (slight) also Cu stain. Guichon, healed shear with qtz/chlr/plag as abv, mod sil in this zone. Fracts at 0 and 30° C.A..

interval (m)	ROCK TYPE	STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		supergene		primary				
									perv.	fract.	perv.	fract.	perv.	fract.			
58.6-61.6	Guichon	loc at 61.6m 20cm	wk loc int	cl? ser chl (carb)	-	-	Fe(Mn)	-	(ser) chl	(ser) chl	-	asabv	cup	-	-	wk	Continued decr in NCu. As abv with inc in mafic conc -transition to Hyb? with mafic clots ~ 1.0 cm
61.6- 64.1	Guichon	-	wk/mod	carb. (ser) chl	-	-	as abv	-	(ser) chl	(ser) chl	-	asabv	NCu cup	-	-	mod	NCu and cup present. Guichon/Hyb comp, frags 40-50 and 80-90° C.A.
64.1-67.6	Guichon	loc	wk/mod	cl, chl (ser)(carb)	-	-	Fe	-	(ser) chl	ser carb chl	-	NCu	cup NCu	?	-	-	mod cup. Guichon/Hyb. gen comp, frags as abv., inc in alt on frags. Dissp NCu in diffuse, healed qtz/chl frags. NCu in frags at 0, 10-15, 45 + 90°
67.6-69.1	Guichon	loc 69.1m	stng/bkn	cl, chl, ser	-	-	Fe (hem) (Mn)	-	ser chl	ser chl	-	(cup?) cup (chrys)	cup (chrys)	-	-	-	Guichon/Hyb. strongly fract'd esp at 70-90° C.A generally stng alternation throughout, mod blch
69.1-70.7	Guichon fault zone	Y, 70.4m (10 cm)	shatt/int	cl, chl ser (carb)	-	Fe in gge	Fe, Mn Cu-ser	-	ser + cl in gge	ser chl (carb)	-	-	chrys NCu?	-	(cpy) (pyr)	-	Inc in chrys on frags. Cpy and pyr in frags. Guichon/Hyb? fault zone with several sections of gouge.
70.7-73.6	Guichon	loc at 70.7m	wk/mod	(cl) carb ser, chl	-	-	Fe, Mn	-	(loc- ser) (chl)	ser chl	-	loc cup (NCu)	NCu NCu?	-	(cpy) (pyr)	-	Check for K-sp. Guichon/Hyb? Top 40 cm int shatt/crushed.
73.6-75.3	Guichon	-	wk	chl, carb (ser)	carb micro veins	-	Fe	-	carb (ser) (chl)	carb chl	-	(NCu)	NCu	NCu?	NCu?	wk	Guichon, comp. Frags at 60-90°. Fe stained.
75.3-78.0	Guichon	-	stng	chl, (carb) (ser)	aplite dks 2-3 cm at 40-45° C.A. (77.8m)	-	Fe, Mn (dend)	-	(ser) (chl)	(carb) chl (ser) sil	-	(NCu)	(NCu)	NCu?	NCu? (cpy) (pyr)	wk/ mod	Inc mafics, sil, and K-sp with depth. Guichon Hyb. Closely spaced apite dks at 77.8m pyr/cpy in healed chl frags at 20, 45, 80° C.A., above and below apite dks. NCu dissp assoc with mafics.
78.0-81.1	Guichon	loc	stng/shatt loc int	chl (carb) (ser) cl	-	-	asabv & spots (Cu-ser)	-	-	(carb) chl ser	-	(NCu)	(NCu) (chrys)	NCu?	NCu?	wk	Guichon/Hyb, strngly fract'd shattered, wk Cu stained ser on frags. Stng Mn+Fe-staining on frags. Inc ser and chl throughout some frags quite bleached. NCu dissp assoc with mafics.
81.1-83.7	fault zone	Y	int/gge	cl, carb, chl	qtz vien frags	Fe	Fe	-	carb ser cl chl	carb ser cl chl	-	?	?	?	-	-	Fault gouge. Fault zone, int fract'd, fault gge with perv Fe-stain, stng chl and clys. Shearing appears to have occurred at ~ 20-30° C.A.
83.7-85.6	fault zone	Y	int/gge fault bx	(cl) carb chl, (ser)	carb micro vns+vnlt, qtz vnlt at var angles	-	(Fe)	-	chl ser	chl ser carb	-	-	-	pyr cpy	pyr cpy	-	Cpy>pyr. strong perv alt. Strongly chloritized and silicified fault gge and fault bx, with loc stng carb in matrix and gge. Pyr? and cpy in clasts and matrix throughout. Some open spaces (dissolved carb?) at top of int. Shearing (at ~ 20° C.A.) loc streaky and banded (appears mylonitic).

		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
ROCK TYPE		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
interval (m)									perv.	fract.		perv	fract	perv	fract			
85.6-88.9	Guichon	-	mod/stng	chl _r ,ser carb	carb micro vns, ap _l ite to 1 cm	-	(Fe)	-	chl _r ser	chl _r ser	-	-	-	(pyr) cpy	(pyr) cpy	wk		Decr. alt with depth. Guichon/Hyb, stng chl _r /ser, decr alt with depth. Fracts at 5-10° 40-50° all showing S _x .
88.9-91.1	Guichon	-	stng/bkn	chl _r ,ser carb	qtz<0.5cm	-	Fe	-	chl _r ser	chl _r ser carb	?	-	? cup?	pyr cpy	pyr cpy	wk		Check for cup and K-sp. As abv.
91.1-93.4	Guichon	-	stng/bkn	chl _r ,ser (carb)	ap _l ite<1cm qt<0.5cm	-	Fe	-	-	ser chl _r (carb)	?	-	cup?	(pyr) pyr	cpy pyr	wk		Check for cup, loc small pods of pyr. Perv chl _r , stng chl _r /ser, occ blch around fracts. Strongest alt (esp ser with pyr) occ on fracts at 0-5 and 50-60° C.A. Healed chl _r / qtz fracts with cpy>pyr. Some open spaces
93.4-94.5	Guichon	-	as abv	chl _r ,ser	ap _l ite<0.5 cm	-	Fe (hem)?	-	ser chl _r	ser chl _r ep?	?	-	cup?	asabv pyr	(cpy) pyr	wk		Check for ep. As in previous interval.
94.5-97.5	Guichon	-	stng	chl _r ,ser. (carb)	as abv at -90° C.A.	-	(Fe)	-	(ser) (carb w/maf) ep	ser chl _r carb	?	-	-	(cpy) pyr	cpy pyr	wk		Epidote on diff blebs. Healed qtz/chl _r fracts with ser selv, lined with pyr/cpy. at ~0-5, 50 and 80o C.A. Epidote more appar- ent as blebs near fracts. Mafic xenoliths, partially assim. (magmatic?)
97.5-98.3	Guichon	-	shatt	chl _r ,(carb) (ser)	-	-	wk Fe	-	ep	(ser) chl _r (carb)	?	-	-	pyr	pyr (cpy)	-		Pyr>cpy. Loc quite siliceous with diffuse blebs of epidote. Generally strongly alt with ghost like remnants of phenos. Pos-s ible mafic xenoliths. (magmatic?)
98.3-102.1	Guichon	-	mod stng	carb,ser chl _r	qtz<1cm carb microvns	-	-	-	chl _r (ser)	(carb) (ser) (chl _r)	-	-	-	pyr	pyr (cpy)	-		Guichon/Hyb incr comp w/depth. dec alt with depth. Healed qtz/chl _r fracts with ser env at 0-5 and 30-40°. Stng ep near top of int, dec with depth. Poss antax vein growth.
102.1-103.6	Guichon	-	mod/loc bkn	chl _r ,ser carb	qtz<1cm at 30 + 90° C.A., carb microvns	-	-	-	chl _r (ser)	carb ser chl _r	-	-	-	(pyr)	pyr cpy	mod		Guichon/Hyb comp., healed fracts as above at 30-40 and 90° C.A., all with pyr/cpy.
103.6-106.1	Guichon 105.1--107.1 Pink-grey crowded Porph? or rextlz'd Guichon	-	stng/shatt loc bx	chl _r ,ser carb	carb microvns. qtz<1cm	-	-	-	ep	chl _r ser carb	?	-	-	(pyr) (cpy)	pyr (cpy)	wk		Pyr>cpy. Dis bx ap _l ite dyke, silicified, w/ healed qtz/chl _r fracts(cross cutting bx) containing S _x . Loc stng blebs of ep assoc with fracts and chl _r . Int is generally quite siliceous. Original Guichon fabric not discernable.
106.1-108.2	?	loc	stng/bkn loc int	(carb) ser	-	-	(Fe)	-	sil (chl _r) ser	sil (chl _r) ser	?	-	-	(pyr) (cpy)	pyr (cpy)	wk		Stng alt and sil. Pyr>cpy. Numerous healed fracts with qtz/chl _r /ser alt cont pyr and cpy. Alt env around fracts are ser to ~ 1 cm. Often quite blch.

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			
108.2-111.1	Guichon	-	stng	carb, ser chl	aplite(5) 3 cm at ~ 40°	-	(Fe)	-	sil chl carb? ser	chl ser sil carb	?	-	-	(pyr) (cpy)	pyr (cpy)	mod	Pyr>cpy. Guichon/Hyb, healed fracts as abv Fract sets 30, 90o commonly mineralized (no preferred orientation)
111.1-112.9	Guichon	-	stng	asabv	aplite (2) 1cm at ~40°; qtz ~1cm, 45°	-	(Fe)	-	sil chl carb? ser	chl ser sil carb	?	-	-	(pyr) (cpy)	pyr (cpy)	mod	As abv. Guichon/Hyb. Healed fracts as abv (often with carb) Fracts sets as abv.
112.9-115.6	Guichon	-	mod	(ser), chl carb	aplite<0.5 cm at 45°	-	(Fe)	-	sil chl (ser) carb?	chl ser sil carb	?	-	-	pyr cpy	pyr cpy	wk	Loc stng Sx on fracts. Guichon/Hyb? Loc stng siliceous with original fabric obscured or removed (sil fault bx?) closely spaced fract sets at 30 and 60° C.A.. Healed with qtz/chlr/and containing pyr/cpy
115.6-117.1	Guichon	loc	wk/loc shatt	as abv	as abv	-	-	-	asabv	asabv	?	-	-	pyr cpy	pyr cpy	wk	Loc sil zones as above.
117.1-120.1	Guichon/Hyb fault zone	Y 118.9m	stng/int	black cly chl, carb ser	qtz ~2cm // to fault gouge	-	-	-	carb ser chl sil	chl sil carb ser	?	-	-	pyr cpy	pyr cpy	tr	Healed fracts with qtz/chlr and both ser & chl alt env. Generally stng alt interval. loc blich with stng ser. Fault at 10° C.A., streaked and banded. Very fine disp pyr? in gge.
120.1-123.1	Guichon/Hyb fault zone	-	stng/int	carb (chl) (ser)	qtz frags carb microvns	-	-	-	(ep) sil carb ser chl	chl sil, ser carv	-	-	-	pyr cpy	pyr cpy	tr	Local perv ser, loc stng sil.
123.1-125.0	Guichon/Hyb? fault zone	-	stng/int	carb, (ser) chl	-	-	(Fe)	-	(ep) ser chl (sil)	ser chl carb	?	-	-	pyr cpy	pyr cpy	-	Guichon/Hyb? Strongly altered, loc stng silici- fied. Numerous healed fracts at var orient- ations. S ₂ (pyr/cpy) as abv.
125.0-126.8	Guichon/Hyb?	-	stng/shatt	carb, (ser) chl	carb micro vns	-	-	-	asabv ep	asabv	?	-	-	pyr cpy	pyr cpy	-	Inc ep with depth, loc stng sil. Check for K-spar. As abv.
126.8-128.8	Guichon/Hyb?	loc	stng/bkn	carb, chl, cly (ser)	carb micro vns	-	(Fe?) hem?	-	ser (carb) chl	ser chl carb cly	?	-	-	pyr cpy	pyr cpy	wk	Check for cup? Guichon/Hyb? Stng sil and chl (perv. Healed fracts with ser alt env Pyr crystals ~ 1mm in fracts.
128.8-130.0	Guichon/Hyb?	-	stng/shatt	carb, chl, cly (ser)	carb micro vns	-	-	-	asabv	asabv	-	-	-	pyr cpy	pyr cpy	wk	Similar to prev int, but more stngly bkn.
130.0-132.1	Guichon/Hyb	-	stng	chl, ser carb	carb micro vns	-	-	-	ser chl (carb)	asabv	-	-	-	pyr cpy	pyr cpy	wk	Guichon/Hyb, increasingly comp. Healed fracts at var angles. Striated pyr crystals.
132.1-133.6	Guichon/Hyb	-	stng/loc shatt	chl, ser, carb	carb micro vns	-	(Fe?)	-	ser chl (carb)	asabv	-	-	-	pyr cpy	pyr cpy	wk	Check for K-spar. Healed fracts prominent at 0 and 15-20° C.A. 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				
133.6-135.1	Guichon/Hyb	-	stng/bkn	carb, chl (ser)	as abv aplite>3cm at ~20° C.A.	-	-	-	ser chl (carb)	ser chl carb cly	-	-	-	pyr cpy	pyr cpy	wk	Pyr>cpy. As abv with partially assim xenoliths, prominent ep, numerous healed fracts at var orientations. Pyr crystals on fracts (~1mm). Aplite dklt cut vert and horizontal by healed fracts.	
135.1-137.2	Guichon/Hyb	-	as abv	chl, (carb) (ser)	-	-	-	-	ep, ser chl (carb)	ep, ser chl, cly carb	?	-	-	(pyr) (cpy)	pyr (cpy)	wk	Slight decr in pyr/cpy. Guichon/Hyb. healed fracts as prev noted.	
137.2-139.6	Guichon/Hyb	loc	stng	cly, chl ser, carb	-	-	-	-	ep, ser chl (carb)	ep, ser chl, cly carb	?	-	-	(pyr) (cpy)	pyr (cpy)	tr	Pyr/cpy appears restricted to fracts. As above, loc stng ser around fracts. Closely spaced fracts at 40-60° C.A.	
139.6-141.0	Guichon	Y	wk/mod	black cly chl, ser carb	-	-	(Fe)	-	ser chl	ser chl carb cly	?	-	-	(pyr) (cpy)	pyr (cpy)	wk	Pyr/cpy not as abundant. Guichon/Hyb, inc mafic, continued healed fracts with diffuse ser alt env and selv.	
141.0-143.0	Guichon	-	mod/stng	chl, carb (ser?)	qtz/carb vnits to 2cm	-	-	-	chl ser	sil ser chl (ep)	?	-	-	pyr (cpy)	pyr (cpy)	wk	Guichon/Hyb. Stng fract and healed, predom fracts at ~ 0-5o. Commonly fract'd along prev healed fracts.	
143.0-145.0	Guichon	-	mod	chl, carb, (ser?)	qtz/carb vnits to 2cm	-	-	-	chl ser	sil ser chl	?	-	-	pyr (cpy)	pyr (cpy)	wk		
145.0-147.1	Guichon	-	stng	chl, ser (carb)	qtz to 1 cm w/ep	-	blue/grn (Cu?) (hem?)	-	ep	ep sil ser chl	(ser) chl	-	grn Cu?	-	pyr (cpy)	pyr (cpy)	wk	Blue grn stain in some fracts. Pyr>cpy. Guichon, loc stng chl with ep blebs, some open spaces.
147.1-148.4	Guichon	-	stng	carb, ser chl	qtz frags	-	-	-	loc sil	ep, sil ser chl	?	-	-	pyr (cpy)	pyr (cpy)	wk	As above, with possible partially assim xenoliths. Dominant fract orientation at 10° C.A.	
148.4-150.1	Guichon	loc	stng	cly, chl, carb, ser	-	-	-	-	loc ser chl loc sil	cly ep carb (ser)	?	-	-	pyr (cpy)	pyr (cpy)	wk	Patchy chl/ser alt with loc sil zones, often with epidote. Loc pervasive alb	
150.1-152.3	Guichon	-	stng/bkn	cly, chl, ser carb	qtz frags w/primary pyr/cpy	-	-	-	loc ser chl loc sil	cly, ep carb (ser)	?	-	-	(pyr) (cpy)	pyr (cpy)	wk	Mafics occasionally hosting primary. Local pervasive alb.	
152.3-153.1	Guichon	-	wk	chl (ser) (carb)	-	-	-	-	-	chl (ser) (carb)	?	-	-	pyr (cpy)	pyr (cpy)	wk	Increasing mafics with some K-sp. Healed fracts (esp at 20-30° C.A.) with qtz/chl and ser alt env to 0.5 cm.	

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			
153.1-154.8	Guichon	loc	stng/bkn	(cly?) chl carb, (ser)	-	-	-	-	chl carb (ser) (cly?)	?	-	-	-	asabv	wk			
154.8-157.6	Guichon	loc	mod	(cly?) chl carb (ser)	-	-	-	-	asabv ep	?	-	-	-	pyr (cpy)	wk		Increasing mafic concentration, appearance of epidote.	
157.6-159.1	Guichon	loc 1cm	stng/loc int	(cly?) chl ser, carb	aplite to 1cm; qtz <1cm 80° C.A.	-	-	-	asabv	?	-	-	-	pyr (cpy)	wk		Guichon/Hyb, strongly fract'd. loc stng chl and ser. Primary min in healed fracts to 3mm. Fracts commonly at 80-90o C.A.	
159.1-160.6	Guichon	loc to 1cm	mod/loc int	(cly) chl ser, carb	qtz ~ 1cm at 20oC.A.	-	-	-	(ser) (chl)	asabv	-	-	-	pyr (cpy)	wk		Preferred fract along prev healed qtz/chl fracs at 70-90° C.A.. Generally comp with little apparent alt since healed fracts. Several partially assim mafic xenoliths.	
160.6-162.7	Guichon	-	stng	chl, (ser) (carb)	-	-	(Fe)	-	chl (ser)	chl (ser) (carb)	-	-	-	(pyr) pyr (cpy?)	pyr (cpy)	wk		Guichon/Hyb several partially assim xeno- liths (Nicola?); bkn mainly along prev healed fracts with qtz/chl; fract sets at 30 45-50 and 70°, all prev healed, all contain pyr/cpy to varying degrees.
162.7-165.5	Guichon	-	stng	chl, ser carb	-	-	-	-	chl (ser)	chl ser carb (ep)	-	-	-	(pyr) pyr (cpy)	pyr cpy	wk		Inc in ser alt around fracts. As abv, slight- ly stronger fract'g, stronger sericitic alt in env around fracts. Scattered ep as blebs assoc with fracts.
165.5-167.5	Guichon	-	mod/stng	chl, ser carb	K-sp?/qtz <0.5 cm	-	-	-	chl (ser)	chl ser (carb) ep	-	-	-	(pyr) pyr (cpy)	pyr cpy	wk		Loc inc in K-sp at bottom of int. Guichon/ Hyb comp fracts and ser alt as above with stronger occ of epidote assoc with fracts.
167.5-169.9	Guichon	-	stng/bkn	chl, ser (carb)	qtz to 2cm at 30° C.A.	-	-	-	sil	chl ser (carb) ep	?	-	-	(pyr) pyr (cpy)	pyr cpy	tr		Inc in ep with fracts. Guichon/Hyb strongly fract'd and bkn. Increase in sil over prev int stng qtz veining 168.6-169.1m with pyr/cpy and ep blebs in alt env.
169.9-171.7	Guichon	?	stng/shatt loc int	chl, ser carb	qtz 2-3cm at 20° C.A.	-	-	-	loc ser (sil) chl	chl ser carb (ep)	?	-	-	(pyr) pyr (cpy)	pyr cpy	tr		Stng cpy in qtz vein. local complete ser- icitization(170.5-170.8m), otherwise stng ser above and below qtz vein. Stng cpy as blebs in qtz vn, generally perv chl alt throughout int.
171.7-172.7	Guichon	-	stng/bkn	chl, ser, carb	carb micro vns.	-	-	-	(sil) chl	chl ser (ep) carb	?	-	-	(pyr) pyr (cpy)	pyr cpy	wk		K-spar? throughout int. Guichon/Hyb, stngly fract'd and bkn; decr in primary over prev int; predominant fract sets at 30 and 50°, where commonly bkn.

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			
172.7-174.2	Guichon/Hyb	-	wk/mod	chirser carb,ep	?	-	-	-	chir (ser)	ser chir ep (carb)	-	-	-	(pyr) (cpy)	cpy pyr	tr	Cpy>pyr. Guichon/Hyb, comp healed fracts, often diffuse and up to 1.5 cm, with Qtz/chlr/ser core and ser/ep in selv or env, the most pronounced of these are commonly at ~ 30° C.A.
174.2-177.2	Guichon/Hyb	-	stng/shatt	ser,chl carb	aplite to 2 cm; Qtz <0.5cm and larger frags	-	-	-	ser chlr (sil)	ser,ep chlr carb	?	-	-	(pyr) (cpy)	cpy pyr	tr	Overall decr in primary; inc in ep. Strongly fract'd and bkn, inc comp with depth. Stng ser (complete alt) at 175.5-175.7m w/ Qtz vn frags. Stng wp as blebs assoc with fracts.
177.2-178.8	Guichon/Hyb	?	stng/loc bkn bx	ser,chl (carb),(cly)	aplite to ~15 cm; Qtz to 3cm vuggy	-	-	-	ser chlr sil	ser,ep chlr (carb) (cly?)	?	-	-	(cpy)	cpy pyr	-	Stng sil, ep and chl/ser alt. Guichon/Hyb strongly fract'd, aplice dks to ~15 cm, wk bx, Qtz vns to 3cm cutting aplice, Qtz vns subsequently offset (poss during growth?) healed fracts cutting both aplice and Qtz vns with chl/ep/primary min. Stng ep in selv and env around fracts and vns.
178.8-182.0	Guichon/Hyb poss rexiz'd Guichon? or Porph??	loc	mod/stng	ser, chl (carb) cly?	-	-	-	(sil) (ser) (chl)	ser chlr (carb)	-	-	-	-	(cpy)	cpy (pyr)	tr	Decr in primary, and ep; inc in K-sp. Guichon, inc comp with depth, K-sp apparent throughout int, few partially assim mafic xenoliths.
182.0-185.7	Guichon/Hyb poss rexiz'd Guichon? or Porph??	-	stng/bkn	carb,ser chl,(loc cly?)	carb micro vns at 15- 20° C.A.	-	-	-	(er) chlr	ser chlr (carb) (hem?)	-	-	-	-	cpy pyr	mod	Loc stng cpy/pyr in fracts. As abv with occ of epidote.
185.7-187.6	fault zone	~5 cm at 186.0 m	stng/shatt loc int	cly, ser chl, (carb)	Qtz/carb to 2cm at 0-5° C.A. vuggy	-	-	-	(carb) chlr ser	(carb) ser chlr cly	?	-	-	-	cpy pyr	-	Stng perv chl alt. Original fabric/texture not readily discernable. Quite green in colour.
187.6-189.1	fault zone	~15cm at 0-5° C.A.	stng	as abv stng carb	carb to 3 cm	-	-	-	carb chlr ser	carb ser chlr cly	-	-	-	cpy	cpy (pyr)	-	As abv. Inc in cpy and also with stronger carb. Deep green colour.
189.1-191.6	fault zone	entire int	int/gge	as abv	carb to 3 cm	-	-	-	carb chlr ser	ser,cly carb cly	-	-	-	cpy	cpy (pyr)	-	Stng gge and ser/chlr alt. Stng cly. Drill hole nearly follows fault.
191.6-193.6	fault zone	loc 0-5° C.A.	int/shatt	cly, chl ser,carb	carb vnls	-	-	-	chlr ser	cly chlr ser carb	-	-	-	?	cpy (pyr)	-	Stng alt as abv. Int chl/ser/cly alt and fract throughout with loc gge at small angles to C.A.

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			
193.6-194.9	fault zone	193.6-194.5m	int/gge fault bx	cl, chl, ser carb	carb frags (vnlt)	-	-	-	chl ser cl	cl chl ser carb	-	-	-	?	cpy (pyr)	-	-	more int fract/alt than prev. Alt as abv with extensive gge, clasts in gge to 5cm
194.9-196.6	Guichon fault zone	-	stng/bx	chl, carb	carb-1cm 0° C.A.	-	(Fe (hem?))	-	carb chl ser	carb chl ser?	-	-	-	cpy	cpy pyr	tr	-	Cpy>pyr. Int chl/ser alt and stng fract'd Red stain (hem?) in selv on carb vns.
196.6-198.2	Guichon	197.4-198.2m	stng/int gge fault bx	cl, chl carb, ser	carb microvns	loc hem	(Fe (hem?))	-	carb chl ser	asabv w/cl	-	-	-	cpy	cpy pyr	-	-	Check for mo. As above with more int fracturing and faulting.
198.2-200.3	Guichon	loc	stng/int fault bx	cl, chl, carb ser	carb vnlt qtz vn frags carb ~1cm at 45°	-	(Fe (hem?))	-	carb chl ser	carb, chl ser? w/cl	-	-	-	cpy	cpy pyr mo?	-	-	Check for mo. Strong to intensely fract'd with loc fault bx. Cpy pref dep in bx. Poss moS2 - dark grey-green streak- assoc w/ bx and fault gge.
200.3-202.6	Guichon	-	stng/loc shatt	chl,ser carb	carb vnlt	-	(Fe)	-	(carb) chl ser	carb chl ser? w/cl	-	-	-	(cpy)	cpy (pyr)	wk	-	Cpy>>pyr. Strongly chl/ser alt with perv carb. more comp than prev int.
202.6-204.1	Guichon	-	stng/shatt	cl? chl ser, carb	-	-	(Fe hem?)	-	(carb) chl ser	carb chl ser? w/cl	-	-	-	(cpy)	cpy (pyr)	wk	-	Stronger Fe(hem?) staining. Primary min occurs mainly in healed fract. Wk perv primary min.
204.1-205.6	Guichon	loc at top of int	v stng	cl, chl, carb,ser	-	-	-	-	sil chl	chl ser carb	-	-	-	(cpy)	(cpy) (pyr)	wk/ mod	-	Apparent decr in primary. Guichon/Hyb? Increasingly siliceous and less alt with depth, although still stng chl. Fracts at 20 and 50° with primary min.
205.6-208.0	Guichon	-	stng/bkn	chl,ser carb	carb microvns	-	(Fe)	-	(sil) chl carb	chl ser carb	-	-	-	(cpy)	cpy pyr	wk	-	Loc sil zones. Fracts as abv.
208.0-211.6	Guichon fault zone begins at 208.6 m	209.7-211.6m	int/gge fault bx	ser,chl carb, cl	carb to 3 cm, 0-5° C.A.:209.8m	-	-	-	cl carb ser chl	chl ser carb cl	-	-	-	pyr (cpy)	cpy pyr	-	-	Stng gge. Fault zone, gge through most of int. (often quite plastic:clays) Fault bx, fine-grained, with coarse, rounded qtz clasts. Pyr in clasts.
211.6-213.4	fault zone	loc	mod/stng loc int	ser chl carb, cl	carb <1m at 30° C.A.	-	Fe? (hem)	-	carb loc cl ser chl	chl ser carb cl	-	-	-	cpy	(cpy) pyr?	-	-	Wk pyr/cpy. Fault zone, more comp than prev int (partially healed/cemented?.stng carb). Cpy in selv of carb vn.
213.4-215.8	fault zone	loc 214.8 m, 0.3 m	mod/stng loc int/bx	as abv	qtz vn? to ~ 0.2 m, stng vuggy	-	-	-	asabv	asabv	-	-	-	(cpy)	cpy pyr mo	-	-	Stng mo 215.7m. Cpy/pyr/mo in qtz vn. Fault zone, fault at ~20-30° C.A. Loc stng occ of cpy and mo asoc with qtz vein. Qtz vein may be stng silicified bx
215.8-217.6	fault zone	loc at 0-5° 20 cm?	stng/bkn loc int	as abv	carb vnlt qtz<0.5cm at 55° C.A.	-	(Fe)	-	asabv	asabv	-	-	-	(cpy) pyr?	cpy mo	wk	-	Cpy shows poss oxidation?

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.
interval (m)																		
217.6-219.2	Guichon	loc at 217.6 m	stng/bkn loc int	ser, chlr carb, cly	qtz to 10 cm at 15- 20° C.A. w/ (mo)	-	(Fe)	-	sil chl ser carb	chl ser carb	-	-	-	cpy (pyr)	asabv (pyr)			mo cpy in qtz vns. Loc stng sil below qtz vn; stng perv chl/ser has obscured orig rock fabric/texture. Contact visible btwn porph? and Guichon?/Hyb? (218.7m) Qtz vn appears streaky (black) and banded-- possible mo? Cpy and mo appear on same fract surface.
219.2-221.6	Hybrid? 220---rextlz'd Guichon? or Porph?	-	stng	ser, chl carb	qtz ~0.5 cm at 5° C.A. w/mo	-	(Fe) (hem?)	-	carb ser chl	carb ser chl	?	-	-	(cpy)	cpy pyr	wk/ mod		Cpy>pyr hem? stain assoc with fract. Hyb? phase mod /stng perv chl/ser alt. streaky (black) qtz vn.(prob mo) <1cm at ~5o C.A. with ser, Fe-stained selv. Fract sets at ~5, 60-70°.
221.6-222.1	Hybrid?	-	mod/stng	ser, chl carb	-	-	(Fe)	-	sil (carb) ser chl	asabv	?	-	-	(cpy)	cpy pyr	wk		Check for K-sp. Cpy>pyr. Hyb? phase; decrease in perv ser alt with depth, corres- ponding inc an sil with depth. Healed qtz/ chl fract with cpy>pyr. Fract sets asabv.
222.1-224.3	Hybrid?	-	stng/bkn	carb, chl (ser)	-	-	?ser (Fe)	-	(carb) chl (ser)	carb chl ser	?	-	-	(cpy)	cpy pyr mo	wk		Check for K-sp. mod sil. Hyb? phase: ser has unusual blue stain(?) mod sil section. Cpy/mo in fract; cpy shows signs of oxidation.
EOH 224.3 m																		

DDH 95-5

Northing: 5603989.1			DDH 95-5				Azimuth: -		
Easting: 641487.7			Elevation: 1751.0 m				Inclination: -90		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
15673	6.1	7.6	0.07	0.04	-	-	-	-	
15674	7.6	9.1	0.10	0.07	-	-	-	-	
15675	9.1	10.6	0.08	0.05	-	-	-	-	
15676	10.6	12.1	0.09	0.06	-	-	-	-	
15677	12.1	13.6	0.07	0.04	-	-	-	-	
15678	13.6	15.1	0.07	0.04	-	-	-	-	
15679	15.1	16.6	0.08	0.06	-	-	-	-	
15680	16.6	18.1	0.08	0.06	-	-	-	-	
15681	18.1	19.6	0.07	0.04	-	-	-	-	
15682	19.6	21.1	0.11	0.07	-	-	-	-	
15683	21.1	22.6	0.13	0.07	-	-	-	-	
15684	22.6	24.1	0.12	0.07	-	-	-	-	
15685	24.1	25.6	0.06	0.03	-	-	-	-	
15686	25.6	27.1	0.10	0.05	-	-	-	-	
15687	27.1	28.6	0.16	0.07	-	-	-	-	
15688	28.6	30.1	0.08	0.06	-	-	-	-	
15689	30.1	31.6	0.11	0.04	-	-	-	-	
15690	31.6	33.1	0.09	0.05	-	-	-	-	
15691	33.1	34.6	0.09	0.05	-	-	-	-	
15692	34.6	36.1	0.11	0.07	-	-	-	-	
15693	36.1	37.6	0.10	0.05	-	-	-	-	
15694	37.6	39.1	0.08	0.05	-	-	-	-	
15695	39.1	40.6	0.06	0.03	-	-	-	-	
15696	40.6	42.1	0.06	0.03	-	-	-	-	
15697	42.1	43.6	0.10	0.05	-	-	-	-	
15698	43.6	45.1	0.07	0.03	-	-	-	-	
15699	45.1	46.6	0.23	0.14	-	-	-	-	
15700	46.6	48.1	0.08	0.04	-	-	-	-	
15701	48.1	49.6	0.10	0.02	-	-	-	-	
15702	49.6	51.1	0.12	0.03	-	-	-	-	
15703	51.1	52.6	0.24	0.15	-	-	-	-	
15704	52.6	54.1	0.18	0.06	-	-	-	-	
15705	54.1	55.6	0.12	0.03	-	-	-	-	
15706	55.6	57.1	0.11	0.02	-	-	-	-	
15707	57.1	58.6	0.11	0.05	-	-	-	-	
15708	58.6	60.1	0.09	0.05	-	-	-	-	
15709	60.1	61.6	0.07	0.03	-	-	-	-	
15710	61.6	63.1	0.08	0.05	-	-	-	-	
15711	63.1	64.6	0.10	0.03	-	-	-	-	
15712	64.6	66.1	0.08	0.02	-	-	-	-	
15713	66.1	67.6	0.11	0.04	-	-	-	-	
15714	67.6	69.1	0.17	0.09	-	-	-	-	
15715	69.1	70.6	0.19	0.10	-	-	-	-	
15716	70.6	72.1	0.13	0.05	-	-	-	-	

DDH 95-5

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
15717	72.1	73.6	0.09	0.02	-	-	-	-	
15718	73.6	75.1	0.07	0.02	-	-	-	-	
15719	75.1	76.6	0.10	0.02	-	-	-	-	
15720	76.6	78.1	0.08	0.03	-	-	-	-	
15721	78.1	79.6	0.11	0.07	-	-	-	-	
15722	79.6	81.1	0.14	0.10	-	-	-	-	
15723	81.1	82.6	0.12	0.07	-	-	-	-	
15724	82.6	84.1	0.08	0.03	-	-	-	-	
15725	84.1	85.6	0.09	<.01	-	-	-	-	
15726	85.6	87.1	0.09	<.01	-	-	-	-	
15727	87.1	88.6	0.12	-	<.1	<.01	<5	<.001	
15728	88.6	90.1	0.10	-	<.1	<.01	<5	<.001	
15729	90.1	91.6	0.07	-	<.1	<.01	<5	<.001	
15730	91.6	93.1	0.14	-	<.1	<.01	<5	<.001	
15731	93.1	94.6	0.13	-	<.1	<.01	<5	<.001	
15732	94.6	96.1	0.09	-	<.1	<.01	<5	<.001	
15733	96.1	97.6	0.09	-	<.1	<.01	<5	<.001	
15734	97.6	99.1	0.20	-	0.1	<.01	<5	<.001	
15735	99.1	100.6	0.12	-	<.1	<.01	<5	<.001	
15736	100.6	102.1	0.09	-	0.1	<.01	<5	<.001	
15737	102.1	103.6	0.05	-	<.1	<.01	<5	<.001	
15738	103.6	105.1	0.14	-	<.1	<.01	<5	<.001	
15739	105.1	106.6	0.10	-	<.1	<.01	<5	0.015	
15740	106.6	108.1	0.20	-	<.1	<.01	<5	<.001	
15741	108.1	109.6	0.16	-	0.1	<.01	<5	0.008	
15742	109.6	111.1	0.22	-	0.1	<.01	<5	0.001	
15743	111.1	112.6	0.08	-	0.1	<.01	<5	0.001	
15744	112.6	114.1	0.08	-	<.1	<.01	<5	0.002	
15745	114.1	115.6	0.08	-	0.1	<.01	<5	<.001	
15746	115.6	117.1	0.09	-	0.1	<.01	<5	0.001	
15747	117.1	118.6	0.09	-	0.1	<.01	<5	0.004	
15748	118.6	120.1	0.08	-	0.9	0.03	<5	0.020	
15749	120.1	121.6	0.09	-	<.1	<.01	<5	0.001	
15750	121.6	123.1	0.07	-	<.1	<.01	<5	0.003	
15751	123.1	124.6	0.05	-	0.1	<.01	<5	<.001	
15752	124.6	126.1	0.07	-	0.1	<.01	<5	<.001	
15753	126.1	127.6	0.12	-	<.1	<.01	<5	<.001	
15754	127.6	129.1	0.12	-	<.1	<.01	<5	0.001	
15755	129.1	130.6	0.14	-	<.1	<.01	<5	0.003	
15756	130.6	132.1	0.07	-	<.1	<.01	<5	0.002	
15757	132.1	133.6	0.09	-	<.1	<.01	<5	0.001	
15758	133.6	135.1	0.10	-	<.1	<.01	<5	0.002	
15759	135.1	136.6	0.08	-	<.1	<.01	<5	0.001	
15760	136.6	138.1	0.13	-	<.1	<.01	<5	<.001	
15761	138.1	139.6	0.14	-	0.1	0.01	<5	<.001	
15762	139.6	141.1	0.11	-	0.1	0.01	<5	0.001	
15763	141.1	142.6	0.12	-	0.1	0.01	<5	0.002	

DDH 95-5

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
15764	142.6	144.1	0.18	-	0.1	0.01	<5	0.001	
15765	144.1	145.6	0.14	-	0.1	0.01	<5	0.001	
15766	145.6	147.1	0.07	-	0.1	0.01	<5	<.001	
15767	147.1	148.6	0.09	-	0.1	0.01	<5	0.004	
15768	148.6	150.1	0.08	-	0.1	0.01	<5	0.007	
15769	150.1	151.6	0.15	-	0.1	0.01	<5	0.003	
15770	151.6	153.1	0.15	-	0.1	0.01	10	0.006	
15771	153.1	154.6	0.25	-	0.1	0.01	<5	0.002	
15772	154.6	156.1	0.2	-	0.1	0.01	10	0.001	
15773	156.1	157.6	0.2	-	0.1	0.01	<5	<.001	
15774	157.6	159.1	0.32	-	0.1	0.01	<5	0.014	
15775	159.1	160.6	0.22	-	0.1	0.01	<5	<.001	
15776	160.6	162.1	0.32	-	0.1	0.01	<5	0.001	
15777	162.1	163.6	0.31	-	0.1	0.01	<5	<.001	
15778	163.6	165.1	0.27	-	0.1	0.01	<5	0.001	
15779	165.1	166.6	0.24	-	0.1	0.01	10	0.001	
15780	166.6	168.1	0.27	-	0.1	0.01	<5	0.003	
15781	168.1	169.6	0.27	-	0.1	0.01	15	0.006	
15782	169.6	171.1	0.45	-	0.3	0.01	5	0.003	
15783	171.1	172.6	0.24	-	0.1	0.01	<5	0.008	
15784	172.6	174.1	0.18	-	0.1	0.01	<5	0.006	
15785	174.1	175.6	0.11	-	0.1	0.01	15	0.001	
15786	175.6	177.1	0.17	-	0.1	0.01	<5	0.004	
15787	177.1	178.6	0.09	-	0.1	0.01	<5	0.002	
15788	178.6	180.1	0.31	-	0.1	0.01	<5	0.003	
15789	180.1	181.6	0.36	-	0.1	0.01	<5	0.002	
15790	181.6	183.1	0.19	-	0.1	0.01	<5	0.002	
15791	183.1	184.6	0.18	-	0.1	0.01	<5	0.001	
15792	184.6	186.1	0.22	-	0.1	0.01	<5	0.001	
15793	186.1	187.6	0.35	-	0.1	0.01	<5	0.019	
15794	187.6	189.1	0.28	-	0.1	0.01	<5	0.003	
15795	189.1	190.6	0.29	-	0.1	0.01	<5	0.001	
15796	190.6	192.1	0.36	-	0.1	0.01	<5	0.002	
15797	192.1	193.6	0.72	-	0.1	0.01	<5	0.002	
15798	193.6	195.1	0.34	-	0.1	0.01	<5	<.001	
15799	195.1	196.6	0.33	-	0.1	0.01	<5	<.001	
15800	196.6	198.1	0.39	-	0.1	0.01	<5	0.001	
15801	198.1	199.6	0.3	-	0.7	0.02	<5	0.016	
15802	199.6	201.1	0.44	-	0.5	0.02	<5	0.018	
15803	201.1	202.6	0.43	-	0.1	0.01	<5	0.002	
15804	202.6	204.1	0.28	-	0.1	0.01	<5	<.001	
15805	204.1	205.6	0.31	-	0.1	0.01	<5	0.004	
15806	205.6	207.1	0.5	-	0.1	0.01	<5	0.002	
15807	207.1	208.6	0.48	-	0.7	0.02	5	<.01	
15808	208.6	210.1	0.42	-	0.2	0.01	110	<.01	
15809	210.1	211.6	0.38	-	0.6	0.02	60	<.01	
15810	211.6	213.1	0.36	-	<.1	<.01	785	<.01	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
15811	213.1	214.6	0.61	-	0.2	0.01	10	0.03	
15812	214.6	216.1	0.45	-	0.4	0.01	105	0.01	
15813	216.1	217.6	0.44	-	0.3	0.01	5	0.01	
15814	217.6	219.1	0.37	-	0.3	0.01	10	0.07	
15815	219.1	220.6	0.25	-	0.2	0.01	5	<.01	
15816	220.6	222.1	0.42	-	0.6	0.02	5	<.01	
15817	222.1	223.6	0.36	-	0.4	0.01	5	<.01	
15818	223.6	225.1	0.44	-	0.4	0.01	5	0.01	
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-6	Date	14-Aug							Logged by:	VN	PM							
Elevation	1754.5 m	Azimuth	-							Northing:	5604057.5								
Inclination	-90	Length	241.5 m							Easting:	641509.0								
ROCK TYPE		STRUCTURE			STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS		
interval (m)	FAULT	FRACTURE	VEINING	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary						
	GOUGE	INTENSITY		SURFACES					perv.	fract.	perv.	fract.	perv.	fract.					
16.8-18.3	Guichon? fault	loc	int/shatt loc crushed	loc cly,ser chlr	-	wk Fe	stng, Fe,(Mn)	Fe, cly, ser	chlr ser	chlr ser	-	-	-	-	wk		Stng Fe staining; jar, hem? Guichon? strongly oxidized and altered, strongly fractured and broken. Possible mafic xenolith frags.		
18.3-21.3	NO CORE RECOVERED																		
21.3-23.5	Guichon? fault?	-	int/bkn loc shatt	cly? ser, chlr	-	wk Fe	stng Fe (Mn)	Fe (cly) ser	chlr ser	chlr ser	-	-	-	-	-		As above.		
23.5-25.0	Guichon? fault	loc	stng/bkn loc crushed	cly,ser,chl r	-	Fe in gge	stng Fe hem, jar,(Mn)	Fe (cly) ser	chlr ser	chlr ser	-	cup?	-	-	-		Check for cup. Stng jar and hem. Guichon? Stng oxidized and altered, strongly to intensely fractured and bkn. ?, local gge zones, with clasts to 0.5 cm.		
25.0-27.2	Guichon? fault	loc	int/bkn loc crushed	cly, ser, chlr	-	Fe in gge	Fe, hem jar, (Mn)	Fe (cly) ser	chlr ser	chlr ser	-	?	-	-	-		Stng jar and hem. As above with more int frags.		
27.2-28.6	Guichon? fault	loc	stng/int loc crushed	cly, ser, chl r	-	Fe in gge	Fe, hem jar, (Mn)	Fe (cly) ser	chlr ser	chlr ser	-	-	-	-	-		Stng jar and hem. more int gouge than previous section, loc competent sections		
28.6-29.7	fault	28.5-29.0	int/crushed	cly, ser, chl r	-	Fe in gge, (Mn)	-	Fe cly ser	ser chlr	-	-	-	-	-	-		Stng jar and hem in gouge. Loc compe- tent sections.		
29.7-32.0	Guichon fault	loc	int/gge	cly, chl r ser	qtz vn frags	stng jar in gge	hem grn ser (Mn)	Fe cly ser	chlr ser	chlr ser	-	chrys	-	-	-		Chrys associated with bx at 30.9. AZ? Loc siliceous---aplite frags?		
32.0-33.5	Guichon fault zone	32.0-33.5	int/shatt gge	cly, ser	qtz vn frags	Fe in gge,loc Cu stn	Fe	Fe cly ser	cly chlr ser	cly chlr ser	-	chrys AZ?	-	-	-		Chrys and AZ? in qtz vn. Should run well.		
33.5-36.6	Fault zone	33.5-36.6	gge	cly,chl? ser?	qtz vn frags	Fe, jar hem	Fe, jar hem	-	cly chlr? ser?	cly chlr? ser?	-	chrys	-	-	-		Chrys ant 36.0. Strong gouge with qtz frag containing chrys.		
36.6-39.0	Guichon	most of interval	int-crushed fault bx	cly, ser,chl r	-	Fe in gge	Fe,hem jar,(Mn)	Fe, (cly) ser	chlr ser	chlr 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		
39.0-41.1	Guichon	loc	stng/bkn	chl, ser, (cly),(carb)	carb vnlt	-	Fe, hem jar, (Mn)	Fe, (cly) ser	chl ser	chl ser	-	-	-	-	-	-	Check for K-spar. carb veinlets with stng Fe oxidized in healed fractures.
41.1-42.3	Guichon	41.7m	shatt	chl, ser, cly	carb microvns	-	Fe, hem jar	Fe cly ser	chl ser (cly)	chl ser chl	-	-	(chrys)	-	-	-	
42.3-45.1	Guichon? fault	42.3-43.7	int/fault bx	(chl) ser, cly	qtz vn frags	Fe in gge	Fe, jar hem (Mn)	Fe cly ser	chl ser cly	chl ser chl	-	-	(chrys)	-	-	-	Chrys- trace. Stng Fe staining in matrix and in oxidized, formerly healed? fract.
45.1-48.2	Guichon fault zone	loc	stng/ckle bx	ser, chl carb	qtz at ? <1cm	Fe-mat	Fe, jar hem (Mn)	Fe cly ser	chl ser	chl ser (cly)	-	-	-	-	-	-	As above, partially assimilated xenoliths.
48.2-51.5	Guichon	loc	ckle	(cly) chl, ser, carb	-	-	hem jar	-	chl ser sil-loc	chl ser carb	-	-	-	-	-	-	Ser-hem healed fracts with Fe stain envel- opes. Complete ser-chl alteration.
51.5-54.3	Guichon	loc	stng/int	chl, ser (carb) (cly)	remnants	-	hem jar (Mn)	-	chl ser	chl ser (carb)	-	-	-	-	-	-	Strong hem-jar. This interval strongly fract'd but less bkn than prev interval.
54.3-56.5	Guichon	-	v stng/bkn loc ckle bx	chl, ser, cly?	qtz at 5° <0.5cm	-	hem jar, Mn	-	chl ser cly?	chl ser (carb)	-	-	cup?	-	-	-	Check for cup. Very strong hem, ckle bx voids.
56.5-58.8	Guichon	-	stng/ckle	chl, ser, (cly?)	-	-	hem, jar	-	chl ser	chl ser (cly?) loc	-	-	-	-	-	-	Strong hem-jar. 56.7-57.3 porph dyke, pink-grey, complete alteration to ser and chl with depth.
58.8-60.7	Guichon	loc	int/ckle, bx	chl, ser	-	-	hem jar(Mn)	-	ser chl	chl ser	-	-	-	-	-	-	Strong hem-jar.
60.7-64.0	Guichon	loc	stng/ckle bx	chl, ser, cly carb	carb microvns	-	hem jar	-	chl ser	chl ser carb cly	-	-	-	-	-	-	As above. Fault gge 1 cm at 30-40° C.A.
66.3-67.8	Guichon	loc	fault bx- loc, int	cly, ser, chl	-	Fe in gge	hem jar, (Mn)	-	chl ser	chl, ser (cly)	-	-	-	-	-	-	H ₂ SO ₄ test +ve at 67.1m. Hem & jar stng in fract, should run well.
67.8-69.5	Guichon	-	stng/bkn	chl, ser	-	-	hem jar, Cu- grn (Mn)	Fe (cly?)	chl ser	ser chl (cly?)	-	-	(chrys cup)	-	-	-	Check for cup. Complete oxidation in healed fracts, rock is fairly competent.

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deutenic	supergene		primary				
								perv.	fract.		perv	fract	perv	fract			
69.5-71.9	Guichon	-	stng	chl, ser, (carb)	-	-	hem	Fe	chl	chl	-	-	NCu	-	-	-	NCu strong on fract, occurs first at 70.4m This interval is fairly competent.
71.9-75.0	Guichon	loc 72.2- 72.4 m	stng/shatt ckle-slight	chl, ser (carb)	-	-	hem jar(Mn)	Fe, ser (cly?)	chl ser	chl ser(cly) (carb)	-	-	-	cup? NCu	-	-	Strong Hem, jar. Check for NCu and cup. Aplite frags.
75.0-76.8	Guichon	-	stng-shatt	chl?, chl ser?	possible aplite	-	hem jar	Fe (cly?)	chl ser	chl ser (cly?)	-	-	-	-	-	-	Interval is slightly frag, possible aplite dk?
76.8-79.4	Guichon	loc	stng/shatt loc bx	chl, ser (carb) cly	qtz w/ chrys	-	hem, jar (Mn) Cu-grn	Fe	chl ser	cly chl ser	-	-	chrys	-	-	-	Hem<jar. Loc stng chrys. Possible porph dyke through interval, contact 77.4 (fault) strongly altered interval.
79.4-81.4	Guichon	loc 80.1 m	stng/shatt	chl, ser (carb) cly	-	-	jar, Mn ser-Cu grn	-	chl (ser)	chl ser (carb)	-	-	loc cup	cup (NCu) chrys	-	-	cup-80.6m Hem<<jar. Cup and NCu assoc with mafics. 80.5-81.0. Competent sections contain NCu and cup, assem- blage with depth. Cup- to Cup and NCu
81.4-82.9	Guichon	loc	stng/diss bx	chl, ser, cly(loc)	dyke 82.8m	-	Cu-grn (Mn) jar	-	ser chl	chl ser	-	-	chrys	-	-	-	Dyke, pink colour, possible Witches Brook. Chrys mod to stng.
84.8-85.9	Guichon	85.1 ~ 1 cm at 30°	stng bkn	(cly), chl ser, (carb)	-	-	jar Cu-grn ser, (Mn)	-	chl (ser)	chl (ser) (cly) (carb)	-	-	chrys (cup) loc st	-	-	tr	Cup assoc with mafics.
85.9-88.7	Guichon/ Porphyry	79.8 m	stng, shatt diss bx	chl, ser, cly	qtz vn frag	Fe stn Cu-grn in mat	(Mn) jar Cu-grn	-	chl ser	chl ser cly	-	-	chrys cup	-	-	-	Chrys- loc stng. Cup-check. Some strongly bleached and silicic frag. Probably pink aplitic porph seen above at 82.8 + 84.4m. Bx contains clasts of strongly altered Guichon and Porph
88.7-90.3	Guichon	loc	st, bkn loc crushed	(carb)(cly) ser, chl	qtz at 30° <0.5cm vuggy	-	(Mn) jar Cu-brn	-	chl ser sil?	chl ser cly? (carb)	-	-	cup chrys NCu	-	-	wk	Jar>hem. Cup very st and diff and assoc with mafics. Check NCu. Qtz vein has strong chrys ass. Numerous pink aplitic porph dykelet as seen above.
90.3-91.8	Guichon	-	stng/shatt	chl, ser (carb)(cly)	qtz at 80° <0.5cm dk at 50° 1.5< cm	-	jar (Mn)	-	(sil?) chl ser	chl ser (cly) (carb)	-	-	cup	-	cpy pyr	mod	Cup - assoc with mafics. Pyr and cpy 91.5. Dyke, possibly. Fracts with mineralization post date the dyke.

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			
91.8-94.0	Guichon	-	stng/bkn loc ckle bx	chl,ser carb (cly?)	aplite?(3) to 2cm at 30-40°; qtz<0.5cm at 80-90°	-	jar (Mn) (Cu-grn)	-	chl ser loc sil	chl ser (clay)	-	? NCu cup	(cpy) cpy	cpy	wk		Cpy and cup assoc with mafics. Check for K-spar. Guichon/hybrid, strongly fract'd and bkn with local ckle bx zones. Several aplite dykelet to 3cm. (possible syn-tectonic) Stng loc NCu on fracts (as small mats) in ckle bx zones. Stng cpy in fracts. Intermittent pinkish tint in grdms	
94.0-95.2	Guichon fault zone	loc at 94.5m at 45°	ckle bx/dis bx	chl,ser cly,carb	qtz vn frags	Fe in mat	jar	-	chl ser	chl ser carb cly	-	-	cup?	-	-		Check for cup. Guich/hyb? Generally ckled with loc dis bx and gge. Increasingly blch/ser/sil with depth.	
95.2-96.3	Guichon fault zone	Y	ckle bx/dis bx	chl, ser, carb cly	qtz frags to 0.5cm	-	(jar)	-	chl ser (carb)	cly ser chl carb	-	-	0 NCu	-	cpy		Check for cup and NCu. Strongly ser/chlr alt. Guich? with perv grnish colour. Intermittent, narrow gge zones btwn axis of ckle and dis bx. Base of oxide zone.	
96.3-98.1	Guichon	loc	ckle bx/ dis bx	cly,carb ser,chl	qtz<0.5 cm at 70° C.A. carb vnlt	-	(Fe)	-	chl ser (cly)	chl ser (carb) (cly)	-	-	-	-	cpy	wk	local stng cpy in fracts. Slightly less altered than prev interval with similar fract int. Pinkish cast throughout Guichon	
98.1-99.8	Guichon fault zone	loc 99 & 99.7m	ckle bx/dis bx	cly, carb, ser chl	carb vnlt	-	-	-	chl (ser)	carb chl ser (cly)	-	-	cup?	cpy w/ maf	cpy	mod	Check for K-sp and cup. Cpy in healed fracts. Guichon, similar in appearance to prev interval. Some core lost in gge sections. calcite in pockets/fract filling in bx	
99.8-101.0	Guichon	loc	stng	(cly) carb ser,chl	carb micro vns	-	(Fe)	-	asabv	asabv	-	-	cup?	cpy w/ mafics	cpy	mod	Check for cup and mo. Guich/hyb, more comp than prev int, healed fracts with chl/qtz/cpy and ser alt env at 30-50° C.A.	
101.0-102.3	Guichon fault zone	3.0cm at 102.1m	mod/stng bkn	chl,carb cly,ser	qtz<0.5cm at 60-90° C.A.	-	(Fe)	-	chl (ser)	cly ser chl (carb)	?	-	mo	cpy w/ mafics	cpy	mod	Check for mo. As abv with slightly stronger fract int. Healed fracts as abv with mo occ at 102.2m, 80° C.A.	
102.3-105.3	Guichon fault zone	loc	stng/loc dis bx	chl, carb, cly ser	carb<1cm at ~30°C.A. 103.6m	-	jar	-	chl ser loc- carb	cly ser chl carb	?	-	mo 104 m	cpy w/ mafics	cpy	wk	mo in fracts and qtz vn. Guich/hybrid fault zone, strongly fract'd with local dis bx zones. calcite vns abundant in bx with cpy in carb. mo strongest in qtz vn, 104.0 m at 50° C.A., occurring as blebs in vn margins.	
105.3-106.0	Guichon	-	mod/stng	chl,(ser) carb	calcite to 0.5cm at 30°, vuggy qtz ~1cm at 70° C.A.	-	jar	-	(carb) chl (ser)	(chl) carb (ser)	chl? ser?	-	mo?	cpy w/ mafics	(cpy)	mod	Cpy pred. Check for mo. Guichon grey-black with pink spots. comp. qtz vn with 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.			
106.0-108.5	Guichon	loc 106m at 20°	stng/bkn loc int	(carb)chlr ser	qtz~1cm ~45°	-	(Fe) Patchy ox	-	chlr (ser)	chlr ser?	chlr?	-	cup?	cpy w/maf	cpy	mod		Cpy with mafics and in fracts. Guich/hyb grey black to grey gm with pink spots. K-spar? alt on fault surface at 106.0m. Last movement on fault appears to have been perpendicular to C.A. Qtz vn with chlr {ser?}
108.5-110.3	Guichon fault zone	loc	stng/bkn loc shatt	ser,chlr (cly)carb	qtz to 2.0 cm 20 + 70-80°	-	(jar) Patchy ox	-	ser chlr (cly)	carb ser chlr (cly)	(chlr) (ser)	-	-	cpy w/maf	cpy	mod		Guich mafics wk chlr though most of int. Dec mafic with depth. Upper part of interval quite comp. Poss WB dykelets 108.8m
110.3-112.6	Guichon fault zone	110.6- 111.1m	shatt/loc int	cly,chlr,ser carb	qtz <1cm at 20° C.A. qtz frags	-	(jar) (hem)	-	ser chlr (cly)	ser chlr cly (carb)	?	-	chrys?	cpy w/maf	cpy	mod		Cpy in healed fracts with qtz/chlr. Possible Guichon zone. Healed fracts with cpy at 0 and 30° C.A.
112.6-114.0	Guichon fault zone	int	stng/shatt fault bx	cly, chlr, ser carb	qtz vn frags in bx	-	hem jar	-	ser chlr loc sil	carb ser chlr cly	-	-	-	cpy w/maf	cpy (pyr)	mod		Loc stng sil near dykes. Pyr as smears on fracts. Alternate hyb with xenoliths and guich, locally silicified. Possible maf dyke 113.9m, poss felsic(?) 114.6m both pre-mineralization.
114.0-115.8	Guichon narrow pink aplite/porph fault zone	115.2m	stng/bkn fault bx	cly, chlr ser,(carb)	carb~1cm at 40°	-	(jar)	-	ser chlr	ser,cly chlr (carb)	-	-	asabv	cpy pyr	cpy	mod		Cpy>pyr. Guich/hyb, fault bx. Porph/aplite, 114.3-115.0 pink ~ parallel to C.A. Premineral.
115.8-117.4	Guichon	169.9m 30° C.A.	stng/bkn fault bx	ser,chlr carb,cly	carb~0.5 cm at 60° carb to 3 cm at 30d	-	-	-	loc- ser chlr carb	ser chlr carb (cly)	?	-	-	cpy w/maf	cpy (pyr)	mod		Check for mo. Loc stng ser around fracts. Guich/hyb fault zone, with fault bx. Some partially assim xenoliths. Clasts in bx are milled, angular to rounded. Seem to be passing btwn more mafic hyb and less maf guich/hyb zones over the past several intervals. Cpy in carb veins. Fracts at 0o prominent.
117.4-119.7	Guichon poss short porph ints	-	dis bx	chlr,ser (carb)	qtz <0.5 cm frags	-	(jar)	-	(carb) ser(alb) chlr	(carb) chlr ser	-	-	asabv	asabv	asabv	mod		Voids in bx. Hem stained alb.
119.7-121.8	Guichon	-	dis bx	carb,ser,chlr cly?	-	-	(hem)	-	(carb) loc ser (alb) chlr	carb ser chlr	-	-	-	(cpy w maf)	(cpy) (pyr)	wk		Guich/hyb dis bx (structural) with open spaces.

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.			
121.8-122.9	Guichon	122.3m	stng/bkn	chl, ser, carb, (cly)	felsic dykelets 122.7m ~2 cm		(hem)		asabv w/stng ser	carb ser chl			(cpy w maf)	asabv	wk		Primary in healed fracts, vns, maf. Strongly fract'd and bkn guich/hyb, felsic (salmon pink) dykelet at 122.7m, pre-mineralization. Dark green/black carb w/ primary min.
122.9-124.7	Guichon		dis bx/shatt	ser, chl, carb, cly	carb vnlts		(jar)		asabv	carb ser chl			(cpy w maf)	cpy	tr		Cpy with bornite or peacock blush (covellite)? Tarnish. (blue-purple) Dis bx.
124.7-125.7	Guichon	loc	shatt/dis bx	ser, chl, carb cly	qtz +carb frags		(jar)		ser chl loc sil? alb (cly)	carb ser chl			(cpy w maf)		tr		Decrease in primary in fracts. Dis bx with numerous, apparently different or gradation rock types (varieties)? ; some hyb, some guich, WB? Strong mottled pink staining locally. Bx is pre-min.
125.7-127.8	Guichon fault zone	126.1- 126.6m	shatt	ser, chl, carb cly	qtz at 20° <1cm		(hem)		ser chl loc sil? alb (cly)	carb (chl) ser cly		mo	(cpy w/maf)	(cpy)	tr		Check for mo. Consistently pink mottled with dark grn-black grdmss. mo in qtz vein selvage. Guichon as for 95-5 182.0 m
127.8-129.0	Guichon		ckle bx/ dis bx	ser, chl, carb cly	carb micro vns; qtz at 5° C.A. w/cpy/bo				loc cly ser carb	carb (chl) ser cly			(cpy w/maf)	cpy			Stng tarnished, cpy (w/bornite). Ser alt env on all fracts and vns. Colour is at var.angs Cpy in vns and fracts w/bornite? Tarnish, throughout interval.
129.0-130.8	Guichon	loc	dis bx	ser, chl, carb cly			(hem)		loc cly ser carb	carb (chl) ser cly			(cpy w/maf)	(cpy)			As abv. Dec in primary. Some healed fracts with ser alt env. Cpy in alt env with bornite? Tarnish.
130.8-132.2	Guichon fault zone	Y	stng/fault bx	chl, ser carb cly					chl ser (carb) loc cly	chl ser carb cly			cpy w/maf		wk		Fault bx 130.8-134.4m Clasts to 8.0 cm, matrix cly to coarse sand size.
132.2-134.1	Guichon w/ short int, poss porph & apilite		mod/stng	chl, ser carb	qtz at 70+ 90° to 1cm carb <0.5 cm at 70 and 90°		(Fe)		chl ser alb loc cly	chl ser carb (sil)			(cpy w/maf)	(cpy)	wk		Bornite? Tarnish on cpy. Hyb?, comp, strongly fract'd, predominant fract sets at 70 and 90° Stng ser alt env on fracts (to 3 cm). Cpy pred in healed qtz/chl fracts with bornite? Tarnish. Generally strong sil and chl/ser alt.
134.1-136.1	Guichon w/ short int, poss porph & apilite		wk/mod	chl, ser, carb	carb micro vns		(jar)		asabv	carb (chl) (ser)			asabv	(mo)	wk/ mod		Check for mo. Strong chl/ser/sil alt. Hyb? Highly chl/ser alt with original rock fabric/ texture largely obscured or unrecognizable

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		
136.1-137.2	Guichon w/ ~ 1 m poss Porph	-	wk/loc shatt	(ser) (chlr) carb	qtz 1cm at 80° C.A. carb at 5-10° (vnits)	-	asabv	-	chlr ser, alb patchy chlr	asabv	-	-	-	asabv	cpy	wk	As above. Primary occurs mainly in qtz and carb vns and vnits and in qtz/chlr healed fracts.
137.2-139.6	Guichon w/ ~ 1 m poss Porph	-	mod/stng	(ser) (chlr) carb	carb vnits at 90° qtz vnits at 90°	-	(jar)	-	asabv alb	asabv	-	-	-	cpy w maf	cpy	wk	As above. Dominant fracts at 90 and 45°
139.6-141.3	Alt Guichon	?	dis bx, clasts to 10 cm	cly ser chlr, carb	-	-	-	-	chlr ser cly	carb ser chlr cly	-	-	-	cpy in clasts	mo	-	Bornite tarnish on cpy. Check for mo. Dis bx with clasts of guich?, Dark grey-grn with mottled pink. Cpy with bornite tarnish in clasts in bx. <u>Stng blch ser, chlr, cly</u>
141.3-143.1	Alt Guichon	-	stng/bkn	chlr, ser, carb	carb vnits qtz at 50° 1cm	-	loc hem	-	chlr ser (carb)	chlr ser carb	-	-	-	(cpy)	cpy	-	Cpy associated with fracts. Increase in chlr, loc hydr.
143.1-144.3	Alt Guichon	-	dis bx	chlr, ser, carb	qtz to 2cm at 45° C.A. carb at 0+ 70° vnits.	-	-	-	chlr ser carb	chlr ser carb	-	-	-	cpy	(pyr) cpy	-	(Pyr in vugs). Bornite? tarnish on cpy. Guichon? dis bx with pink, blotchy staining, numerous qtz & carb vns & vnits at various angles, dominant at 0, 45 + 70°.
144.3-147.6	Alt Guichon	loc	ckle bx/ dis bx?	loc cly, ser chlr, carb	carb < 1cm at 30° carb vnits qtz frags	-	-	-	chlr ser carb	asabv	-	(mo)	(cpy)	cpy	-	-	Check for mo, bornite and hem. Qtz vein frags in bx to 0.5cm. Perv chlr/ser/sil alt strong greenish cast throughout. Ser alt env on healed fracts. Loc pink to red stained spots and patches =hem?
147.6-150.8	fault zone Poss Porph clasts	Y	gge	chlr, ser carb	qtz + carb frags to 2 cm	-	loc hem	-	asabv cly stng chlr	asabv cly	-	-	mo?	-	cpy (Bo)	-	Check for mo. Bo tarnish on cpy (loc stng) Fault gge with clasts (to 10cm, rarely larger) of guich? hyb? WB? all stnly chlr/ser alterd with original text. difficult to discern. Loc stng carb in gge, w/ carb and qtz vn frags Shear appears to have taken place at ~20° C.A. Loc stng occ of cpy w/ Bo tarnish (occ as 1 cm vn at ~20° C.A.) at bottom of int. does NOT appear to be in clast.
150.8-153.3	fault zone Poss Porph clasts	Y	gge/fault bx	chlr, ser, carb	qtz & carb frags to 2 cm	-	loc hem (jar?)	-	asabv v stng ser	asabv	-	-	-	-	?	-	Fault gouge /bx with loc more comp sec- tions. Clasts as abv. Shear angles apparent from 5-20° C.A.
153.3-154.8	fault zone Poss Porph clasts	loc	gge/fault bx	chlr, ser, carb	aplite? size uncertain qtz < 0.5 cm at 15° C.A.	-	(hem)	-	asabv	asabv	-	-	-	-	(cpy)	-	Fault bx with loc gge, grading to bx/stng fract'd. Guich/aplite? (or stng alt WB? var) dyke sequence at bottom of int. Dyke rock is pink/red to stng salmon pink col- oured and fine to med grained. Loc occ of cpy in fracts in dykes. Consistent fract at 0° apparent.

ROCK TYPE	interval (m)	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
Guichon/Hyb	154.8-156.7	-	stng/bkn loc ckle bx	ser, chlr carb, loc cly	aplite?dkkt to 2cm, qtz vns to 1cm at 70° C.A.		(Fe)		ser chl	ser chl (cly) carb				cpy w maf	(cpy)	tr	Guichon/Hyb. Aplite dykelets. Dominant fract at 30°.	
Hybrid	156.7-158.0	loc 1 cm at 157.2m	mod/stng bkn	chl, ser carb, loc cly	qtz to 1cm at 0 + 45°				chl ser	carb chl ser				(cpy w/maf)	(cpy)	tr	Stng chl alt wk cpy	
Hybrid	158.0-160.3	loc 160m	mod/stng	chl, ser carb, loc cly	qtz to 0.5 cm var an- gles, carb microvns		(Fe)		chl ser	carb loc cly chl ser				(cpy w/maf)	cpy	tr	As above.	
Hybrid aplite dykelets	160.3-161.6	loc 161.5m	stng/loc int	chl, ser, carb loc cly	aplite 2cm at 20° qtz 0.5cm at 0-5°		(Fe)		chl ser	chl carb ser loc cly				(cpy w/maf)	(cpy)	-	As above with stng ser alt. Aplite dykelet 160.8m postdates qtz vn. Qtz vn post- dates grad contact? between alt hybrid and WB. Shear 11.15m at ~ 20° C.A.	
fault zone	161.6-164.6	Y	gge/fault bx	chl, ser, carb loc cly	qtz frags in bx & gge		hem		chl ser(alb) carb cly in mat	chl ser cly carb					(cpy) in cists mo?	-	Check for mo. Stng chl/ser alt wk cpy w maf. Fault zone, mainly gge, with stng chl/ser alt clasts, to 10cm, of hyb? WB? qtz veins. Prominent shear surface at 0-5° C.A.	
Porph fault zone	164.6-165.5	loc	stng/bkn loc int	chl, ser, carb loc cly	qtz frags		loc hem (jar)		chl (ser)	asabv (sil)				cpy w/maf	(cpy) mo?	-	As above. Hyb/WB? Generally more comp than prev int though still in fault zone	
guichon wk fault	165.5-169.2	loc	stn/shatt	chl, ser, carb loc cly			(Fe)		chl ser	chl ser carb loc cly				asabv bo	cpy bo	-	Cpy with bo tarnish 168.3m. As abv. Healed fract with chl/ser env, cpy with bornite tarnish in fract. Fract sets at 20 and 70, 40 and 50°	
Guichon	169.2-170.7	-	stng/bkn	chl, ser carb (cly)	qtz 1cm at 0°. vuggy	hem in albite			(chl) ser (alb)	chl carb ser (cly)				asabv	cpy (pyr)	tr	Guich/hyb, much less chl/ser alt than prev intervals, though still bkn. Fract at 0 and 50°. Cpy in qtz vn.	
Guichon	170.7-172.5	-	mod	carb, ser chl	carb micro vns				(chl) (ser)	carb ser chl				cpy w/maf	cpy	wk	Guich/hyb, increasingly competent. Fract sets at 0 and 50°	
Guichon	172.5-174.3	-	mod/stng	carb, chl ser	carb vnits to 0.5 cm at 0°				(chl) (ser) (carb)	carb ser chl				asabv	cpy	-	Guich/hyb. Generally fairly comp loc bkn. Aplite dykelet with qtz selv at 173.6m, normal offset ~ 1cm. Several other felsic dykelet with qtz selv at 30° and var angles. Check for Bo	

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			
174.3-176.0	Guichon w/gry Porph at 175.3 -175.4 m	-	stng/shatt	carb, chl, ser	qtz 0.5cm at 40°	-	jar, hem	-	(chl) chl (ser) ser carb	-	-	-	asabv	cpy pyr?	-	-	Guich/hyb. Contact 175.3 between porph and guich/hyb at ~ 40° C.A.. Porph appears barren. 175.8 blebs cpy and chalcocite
176.0-178.3	Guichon	-	stng/shatt loc crushed	chl, ser carb cly	aplite frags	(hem)	jar, hem	-	(chl) chl (ser) ser (carb) carb cly?	-	-	-	asabv	cpu pyr	tr	-	
172.5-174.3	Guichon	-	mod/stng	carb, chl ser	carb vnlt to 0.5 cm at 0°	-	-	-	(chl) carb (ser) ser (carb) chl	-	-	-	asabv	cpy	-	-	Guich/hyb. Generally fairly comp loc bkn. Aplitic dykelet with qtz selv at 173.6m, normal offset ~ 1cm. Several other felsic dykelet with qtz selv at 30o and var angles. Check for Bo
174.3-176.0	Guichon w/gry Porph at 175.3 -175.4 m	-	stng/shatt	carb, chl, ser	qtz 0.5cm at 40°	-	jar, hem	-	(chl) chl (ser) ser carb	-	-	-	asabv	cpy pyr?	-	-	Guich/hyb. Contact 175.3 between porph and guich/hyb at ~ 40° C.A.. Porph appears barren. 175.8 blebs cpy and chalcocite
176.0-178.3	Guichon	-	stng/shatt loc crushed	chl, ser carb cly	aplite frags	(hem)	jar, hem	-	(chl) chl (ser) ser (carb) carb cly?	-	-	-	asabv	cpu pyr	tr	-	
178.3-179.2	Guichon/Hyb fault zone	loc at ~ 20° 179.2	stng/bkn loc int	cly, chl ser, carb	aplite dykelet	hem in gge	-	-	chl ser (carb) (cly)	chl ser carb loc cly	-	-	asabv	cpy pyr	-	-	Aragonite? in frags. Should grade well. Guich/hyb, aplite dykelet? 178.5 m, 178.8m felsic, salmon red colour, chl alt maf.
179.2-181.8	fault zone	Y	fault bx/gge	cly, chl ser, carb	-	hem gge	hem (loc)	-	ser chl carb cly	ser chl carb cly	-	-	asabv	bo? cpy pyr? mo?	-	-	Check for Bo and mo. Primary in clasts and mat. Fault zone, gge and fault bx w/ open spaces, matrix quite and blch. Shear surfaces evident at 0 and 30° Stng ser alt.
181.8-183.0	fault zone	Y	fault bx/gge	cly, chl, ser carb	qtz vein frags	Fe in gge	hem, jar	-	chl ser loc cly	asabv	-	-	asabv	cpy pyr? mo?	-	-	Primary in mat and clasts. Fault zone, stronger chl alt that prev interval, shearing at 0-10 degrees.
183.0-184.8	Guichon/Hyb fault zone	Y	fault bx/gge	cly, chl, ser carb	-	-	hem (jar)	-	chl carb ser	chl carb ser cly	-	-	pyr cpy	pyr cpy mo?	-	-	Fault zone with clasts mainly, guich/hyb (probably), shearing evident at 0° C.A..
184.8-186.7	Guichon	-	ckle bx	chl, carb ser (cly)	qtz ~1cm at 20°	-	(Fe)	-	ser chl	chl carb ser (cly)	-	-	pyr + cpy w/maf	pyr cpy	-	-	Musc. in qtz vn. Cpy in qtz vn. Guichon Strongly chl/ser alt. Orig fab and texture obscured. Primary in qtz vns (cpy) ser alt env ~1 cm with stng cpy. Fract sets at 50-60 and 90°

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)																		
186.7-189.3	Guichon		stng/bkn loc ckle bx	ser, chlr carb, (cly)	qtz frags carb to 1 cm at 0°	-	-	-	chlr (ser)	carb ser chlr (cly)	-	-	-	asabv	asabv	loc	Guich/hyb, partially assimilated mafic xenolith. Fracts at 0, 30, and 50°	
189.3-190.7	Guichon		wk/mod	chl, ser carb	carb vnlt	-	-	-	(ser) chl	chl ser carb	-	-	-	asabv	asabv	wk/ mod	Guich/hyb partially assimilated mafic xenolith, possible some intrusions of WB at 10°/fracts at 30°	
190.7-192.3	Guichon		mod	chl, ser, carb	qtz at 90° <1.5 cm	-	-	-	chl (ser)	chl ser carb	-	-	-	asabv	cpy	-	Cpy occurs as smears in fract surfaces. Fracts- healed carb at 0° / porphyry dykelets at 30°.	
192.3-194.5	Guichon		wk	loc cly, ser (chl) carb	qtz <0.5 cm at 30°	-	-	-	ser chl (carb)	ser (chl) (carb) musc	-	-	-	asabv	cpy	-	Cpy as abv, musc in qtz and carb vns 193.8 m Poss K-sp alt? Guich/hyb: healed fracts w/carb blebs(fract filling?) + pink (K-sp?) alt env at 0° C.A.	
194.5-196.8	Guichon		mod	carb, ser chl, cly?	qtz at 60° 5cm; 10° 1 cm	-	-	-	ser chl (carb)	ser chl carb cly?	-	-	-	asabv	cpy (pyr)	-	Check for K-sp, pyr in healed fracts. Guichon most active fracts at 40°. Antitaxial? qtz vns - 2 cm at 40° Fe-stain? of K-sp with ser selv 195.5m Qtz veins appear to be pre-min, cpy blebs in veins.	
196.8-198.3	Guichon		stng	ser chl (carb)	-	-	-	-	ser chl	ser chl (carb)	-	-	-	pyr + cpy w/maf	cpy pyr	wk	Primary as blebs and stng in fracts. Cpy ~ pyr. Guich/hyb. most common fracts at ~20°. Loc strong pervasive ser.	
198.3-199.8	Guichon	loc at 20°	stng/bkn	ser, chl cly (carb)	-	-	-	-	(carb) ser (chl)	ser chl (carb) cly	-	-	-	pyr + cpy w/ mafics	cpy pyr	wk	Primary as blebs and strong in fracts. Cpy ~ pyr Guichon/Hyb. most common fracts at 20°. Loc strong perv ser. Shear surface at 0-20°.	
199.8-202.0	Guichon		wk/loc stng	(carb) ser chl	qtz 2cm at 45° C.A. vuggy	-	-	-	asabv	ser chl (carb)	-	-	-	asabv	asabv mo?	wk	Check for mo. Guich/hyb, comp. Healed fracts with ser and pink stained alt env. mafic env outside ser; stng chl healed fracts (to 1 cm) w/primary throughout.	
202.0-204.0	Guichon/Hyb		stng/loc ckle	carb, ser (chl)	bkn qtz to 2cm	-	-	-	ser chl loc alb	carb ser chl	-	-	-	asabv	stng asabv mo	mod	Stng pyr and cpy in fracts. Grey mo coating on fracts. Guichon/Hyb, stng fract'd and chl/ser alt. Prominent fract system at 0-5° C.A. w/ stng pyr/cpy, qtz/chl in center. Stng ser alt env. Loc alb zones: may have been bx and subsequently albitized? Difficult to distinguish.	
204.0-206.3	Guichon?/Hyb		ckle/bx bkn	carb, ser chl	-	-	-	-	ser chl loc alb	carb ser chl	-	-	-	asabv	cpy pyr mo?	wk	Cpy>pyr, faint mo? coating on fracts. Similar to prev int, more intense fract and broken.	

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			
206.3-209.4	Guich? +/-or Beth?/Hyb	-	stng/ckle bx	carb, ser, chl	qtz <0.5 cm at 60° C.A.	-	-	ser	carb	-	-	-	pyr +	cpy	tr	Cpy>pyr. Guich?(maybe beth?)/hyb perv chl/ser alt. Clots of maf (larger than in Guich) may indicate Beth/hyb? Similar fract int as prev 2 ints but less bkn. Fract systems (healed and formerly healed) similar to prev int, are often vuggy.	
209.4-212.6	Guichon/Hyb	-	stng/bkn	carb, ser, chl	-	(Fe)	-	asabv (loc ep)	ser chl carb (loc ep)	-	-	-	asabv	asabv mo?	tr	Cpy>pyr. Fract-predominate at 0 at 50 at 30°. 0° fracts are strongly mineralized.	
212.6-213.8	Guichon/Hyb	-	mod	chl, ser carb (cly)	cpy at 0-5° <0.5cm	-	-	chl ser loc ep loc alb	chl ser carb (cly)	-	-	-	cpy/ pyr assoc w/maf	cpy pyr + bo	wk	Bo tarnished cpy- abundant. Fract sets 50,40 and 60°. Generally competent interval.	
213.8-217.6	Porphyry fault bx	1 cm at 214.9 at 55° 216.4-217.4	fault bx/gge	cly, chl ser, carb	qtz vn frags. carb vn at 5° 1cm	-	(Fe) in gge jar	chl ser cly	carb ser chl cly	-	-	-	cpy/ pyr assoc w/maf	cpy pyr		Specular hematite in bx, some sil frag in bx, prominent vuggy calcite at 216.3 with sil clasts containing cpy.	
217.6-219.5	Porphyry	loc	stng/bkn loc ckle,bx	carb (chl) (ser) (cly)	carb micro veins.	-	jar hem	chl (ser)	(chl) (ser) carb (cly)	-	-	-	-	-	wk	Strong loc hem. Fract sets at 60°, stng perv chl, appears porphyritic phenos stngly alt and ghost like, pockets appear to be carb filled, dark grey grn in general.	
219.5-222.3	Porphyry	loc at 10° 1cm	wk/ mod	carb loc-cly (chl) ser	carb vnits, microvns	-	(Fe)	chl ser carb	carb chl ser	-	-	-	tr cpy pyr?	-	wk	Dyke/porph -grey-grn with distinct remnant feld 0.5 cm stngly ser, stng perv chl, fairly competent throughout interval. Fract sets 30,60,45 degrees.	
222.3-223.8	Porphyry	-	wk/mod	carb, loc cly, chl, ser	carb vnits microvns	-	(hem) loc	chl ser carb	cly carb chl ser	-	-	-	tr cpy pyr?	pyr	wk	Sections of mottled creamy white alt?/ check for NICOLA! carb vn at bottom of interval contains pyr.	
223.8-227.0	Porphyry	loc 226 at 45° <3cm	wk/mod loc int	carb, ser chl, loc-cly	carb micro veins	-	-	chl ser carb	carb ser chl	-	-	-	-	cpy?/ pyr	-	mottled creamy white (ser) alteration as above increasing with depth.	
227.0-228.3	Porphyry contact	-	mod/stng	carb, ser, chl (cly)	carb-chalc at 20-45° to 1cm	-	-	chl ser carb	carb ser chl	-	-	-	dissp pyr	cpy?/ pyr	-	mod bleached-unbleached sections, sharp contact at 227.5,(not structural) between different porphyries	
228.3-229.8	Porphyry	228.3- 229.1 m	wk/int	chl, ser carb	qtz + carb vn frag at 0-10°	-	(hem)	chl ser alb?	chl ser carb	-	-	-	diss pyr	diss pyr	-	Transition interval porph, porph text- ure grades from fine grained to coarse grained, appears more crowded.	

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)																	
229.8-232.1	Porphyry	-	wk	ser (carb)	carb vnits and micro vns at 0-20°	-	(hem) loc	-	chl	ser (carb) chl	-	-	-	diss pyr	diss pyr	wk	Cpy found in calcite vein. Rock colour green-grey pales with depth frac set- 10 and 80°
232.1-235.4	Porph, Beth WB Porphyry	loc 233.6 232.1 m	wk/loc int	carb, ser cly-loc	carb micro vns, qtz vn frag	-	(hem) loc	-	chl	carb ser cly-loc (carb) (cly?)	-	-	-	diss pyr	diss pyr	wk	Comp near top of interval--234.2-234.8 m, fairly perv red stain. Aplitic dyke frags. Where least altered, texture suggests Beth WB Porph
235.4-241.5	WB variety C Bethlehem WB Porph	loc	stng/bkn loc ckle	carb, ser (chl) cly?	-	-	(hem)	-	chl (ser)	carb ser (chl) cly?	-	-	-	pyr/ cpy assoc w/maf min NCu Cu-smear	pyr		Fract set 50 and 10°. Pyr/cpy blebs assoc with mafics and hem staining. Note: NCu smears on core surface. Gradation form patchy mod/strong pervasive chl alteration to relatively fresh Porphyry ~ 235.8 m.
EOH 241.5 m																	

DDH 95-6

Northing: 5604057.5			DDH 95-6					Azimuth: -	
Easting: 641509.0			Elevation: 1754.5 m					Inclination: -90	
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
15819	16.8	18.3	0.1	0.06	-	-	-	-	Fault Zone
15820	21.3	22.8	0.09	0.04	-	-	-	-	"
15821	22.8	24.3	0.11	0.04	-	-	-	-	"
15822	24.3	25.8	0.1	0.05	-	-	-	-	"
15823	25.8	27.3	0.12	0.05	-	-	-	-	"
15824	27.3	28.8	0.11	0.03	-	-	-	-	"
15825	28.8	30.3	0.1	0.03	-	-	-	-	"
15826	30.3	31.8	1.05	0.88	-	-	-	-	"
15827	31.8	33.3	0.57	0.54	-	-	-	-	"
15828	33.3	34.8	0.17	0.11	-	-	-	-	"
15829	34.8	36.3	0.29	0.06	-	-	-	-	"
15830	36.3	37.8	0.14	0.08	-	-	-	-	Gouge
15831	37.8	39.3	0.13	0.06	-	-	-	-	"
15832	39.3	40.8	0.08	0.09	-	-	-	-	Guichon/Hybrid
15833	40.8	42.3	0.12	0.05	-	-	-	-	"
15834	42.3	43.8	0.11	0.05	-	-	-	-	Fault Zone
15835	43.8	45.3	0.15	0.08	-	-	-	-	"
15836	45.3	46.8	0.15	0.12	-	-	-	-	"
15837	46.8	48.3	0.12	0.09	-	-	-	-	"
15838	48.3	49.8	0.16	0.05	-	-	-	-	Guichon
15839	49.8	51.3	0.16	0.03	-	-	-	-	"
15840	51.3	52.8	0.17	0.03	-	-	-	-	"
15841	52.8	54.3	0.16	0.02	-	-	-	-	"
15842	54.3	55.8	0.14	0.02	-	-	-	-	"
15843	55.8	57.3	0.09	0.01	-	-	-	-	"
15844	57.3	58.8	0.17	0.05	-	-	-	-	"
15845	58.8	60.3	0.16	0.02	-	-	-	-	"
15846	60.3	61.8	0.18	0.04	-	-	-	-	"
15847	61.8	63.3	0.26	0.11	-	-	-	-	"
15848	63.3	64.8	0.24	0.09	-	-	-	-	"
15849	64.8	66.3	0.36	0.11	-	-	-	-	"
15850	66.3	67.8	0.29	0.19	-	-	-	-	"
15851	67.8	69.3	0.23	0.16	-	-	-	-	"
15852	69.3	70.8	0.21	0.14	-	-	-	-	"
15853	70.8	72.3	0.18	0.12	-	-	-	-	"
15854	72.3	73.8	0.18	0.13	-	-	-	-	Guichon/Hybrid
15855	73.8	75.3	0.22	0.15	-	-	-	-	"
15856	75.3	76.8	0.35	0.33	-	-	-	-	"
15857	76.8	78.3	0.34	0.32	-	-	-	-	"
15858	78.3	79.8	0.27	0.27	-	-	-	-	"
15859	79.8	81.3	0.29	0.28	-	-	-	-	Guichon
15860	81.3	82.8	0.34	0.34	-	-	-	-	"
15861	82.8	84.3	0.52	0.52	-	-	-	-	"
15862	84.3	85.8	0.38	0.38	-	-	-	-	Guichon/Hybrid

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
15863	85.8	87.3	0.47	0.47	-	-	-	-	Guichon/Hybrid
15864	87.3	88.8	0.4	0.4	-	-	-	-	"
15865	88.8	90.3	0.51	0.5	-	-	-	-	"
15866	90.3	91.8	0.48	0.22	-	-	-	-	Guichon/Hybrid
15867	91.8	93.3	0.62	0.17	-	-	-	-	"
15868	93.3	94.8	0.46	0.1	-	-	-	-	"
15869	94.8	96.3	0.63	0.08	-	-	-	-	Fault Zone
15870	96.3	97.8	0.33	0.01	-	-	-	-	Guichon
15871	97.8	99.3	0.42	0.01	-	-	-	-	"
15872	99.3	100.8	0.4	0.01	-	-	-	-	Guichon/Fault Zone
15873	100.8	102.3	0.42	0.02	-	-	-	-	Guichon/Hybrid
15874	102.3	103.8	0.29	0.06	-	-	-	-	"
15875	103.8	105.3	0.32	0.06	-	-	-	-	"
15876	105.3	106.8	0.43	0.11	-	-	-	-	"
15877	106.8	108.3	0.35	-	0.3	0.01	10	0.001	"
15878	108.3	109.8	0.33	-	0.4	0.01	5	0.005	Guichon/Hybrid/
15879	109.8	111.3	0.37	-	0.1	0.01	5	0.006	Fault Zone
15880	111.3	112.8	0.29	-	0.1	0.01	<5	0.002	"
15881	112.8	114.3	0.3	-	<.1	0.01	10	0.002	"
15882	114.3	115.8	0.28	-	0.2	0.01	20	0.001	"
15883	115.8	117.3	0.35	-	<.1	0.01	5	<.001	"
15884	117.3	118.8	0.24	-	0.3	0.01	10	<.001	"
15885	118.8	120.3	0.39	-	0.9	0.03	15	0.002	"
15886	120.3	121.8	0.25	-	0.2	0.01	5	<.001	"
15887	121.8	123.3	0.46	-	0.6	0.02	10	0.019	Guichon/Hybrid
15888	123.3	124.8	0.64	-	1.2	0.04	20	0.005	"
15889	124.8	126.3	0.38	-	0.5	0.02	15	0.006	"
15890	126.3	127.8	0.43	-	0.9	0.03	5	0.001	"
15891	127.8	129.3	0.33	-	1.2	0.04	10	0.001	DIIK
15892	129.3	130.8	0.3	-	0.7	0.02	5	0.006	"
15893	130.8	132.3	0.39	-	0.6	0.02	15	0.002	Hybrid?
15894	132.3	133.8	0.23	-	0.5	0.02	5	<.001	"
15895	133.8	135.3	0.24	-	0.7	0.02	10	<.001	"
15896	135.3	136.8	0.32	-	0.2	0.01	3	0.002	"
15897	136.8	138.3	0.37	-	0.5	0.02	<5	0.001	"
15898	138.3	139.8	0.48	-	0.7	0.02	10	0.001	"
15899	139.8	141.3	0.58	-	0.9	0.03	15	<.001	"
15900	141.3	142.8	0.39	-	0.6	0.02	15	<.001	DIIK/Guichon
15901	142.8	144.3	0.43	-	0.9	0.03	10	0.002	"
15902	144.3	145.8	0.25	-	0.4	0.01	<5	0.002	"
15903	145.8	147.3	0.19	-	0.3	0.01	<5	0.003	"
15904	147.3	148.8	0.19	-	0.4	0.01	10	0.001	Fault Zone
15905	148.8	150.3	0.25	-	0.9	0.03	20	0.002	"
15906	150.3	151.8	1.23	-	2.8	0.08	15	0.002	"
15907	151.8	153.3	0.31	-	0.3	0.01	15	<.001	"
15908	153.3	154.8	0.35	-	0.7	0.02	10	<.001	"
15909	154.8	156.3	0.28	-	0.4	0.01	5	<.001	DIIK

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
15910	156.3	157.8	0.25	-	0.3	0.01	5	<.001	Hybrid/Witches Brk.
15911	157.8	159.3	0.16	-	0.2	0.01	<5	<.001	"
15912	159.3	160.8	0.38	-	0.6	0.02	15	<.001	"
15913	160.8	162.3	0.25	-	0.7	0.02	<5	<.001	"
15914	162.3	163.8	0.28	-	1.5	0.04	<5	<.001	Fault Zone
15915	163.8	165.3	0.2	-	0.3	0.01	<5	<.001	"
15916	165.3	166.8	0.22	-	0.5	0.02	<5	<.001	"
15917	166.8	168.3	0.39	-	0.2	0.01	<5	<.001	"
15918	168.3	169.8	0.22	-	0.3	0.01	<5	<.001	"
15919	169.8	171.3	0.43	-	0.4	0.01	<5	<.001	Guichon/Hybrid
15920	171.3	172.8	0.23	-	0.5	0.02	5	<.001	"
15921	172.8	174.3	0.22	-	0.3	0.01	<5	<.001	"
15922	174.3	175.8	0.21	-	0.3	0.01	10	<.001	"
15923	175.8	177.3	0.37	-	0.6	0.02	5	<.001	"
15924	177.3	178.8	0.46	-	0.4	0.01	<5	<.001	"
15925	178.8	180.3	0.36	-	1.3	0.04	<5	0.002	Fault Zone
15926	180.3	181.8	0.33	-	1.0	0.03	10	0.001	"
15927	181.8	183.3	0.36	-	0.5	0.02	<5	<.001	"
15928	183.3	184.8	0.47	-	0.6	0.02	15	0.002	"
15929	184.8	186.3	0.35	-	0.3	0.01	<5	<.001	Guichon/Hybrid
15930	186.3	187.8	0.47	-	0.8	0.02	10	<.001	"
15931	187.8	189.3	0.46	-	0.9	0.03	25	<.001	"
15932	189.3	190.8	0.2	-	0.5	0.02	<5	<.001	"
15933	190.8	192.3	0.26	-	0.4	0.01	<5	<.001	"
15934	192.3	193.8	0.15	-	0.3	0.01	<5	0.001	"
15935	193.8	195.3	0.1	-	0.3	0.01	<5	0.004	"
15936	195.3	196.8	0.1	-	0.2	0.01	<5	<.001	"
15937	196.8	198.3	0.09	-	0.1	<.01	<5	0.001	"
15938	198.3	199.8	0.08	-	0.2	0.01	<5	<.001	"
15939	199.8	201.3	0.09	-	0.2	0.01	<5	0.004	"
15940	201.3	202.8	0.21	-	0.2	0.01	<5	0.006	"
15941	202.8	204.3	0.21	-	0.3	0.01	<5	0.005	"
15942	204.3	205.8	0.35	-	0.5	0.02	10	<.001	"
15943	205.8	207.3	0.29	-	0.3	0.01	<5	0.003	Guichon/Hyb?
15944	207.3	208.8	0.21	-	0.4	0.01	5	0.003	"
15945	208.8	210.3	0.23	-	0.3	0.01	10	0.002	"
15946	210.3	211.8	0.18	-	0.2	0.01	<5	0.003	"
15947	211.8	213.3	0.24	-	0.5	0.02	<5	0.004	"
15948	213.3	214.8	0.34	-	0.6	0.02	<5	0.002	"
15949	214.8	216.3	0.54	-	1.3	0.04	<5	0.004	"
15950	216.3	217.8	0.05	-	0.4	0.01	<5	0.004	"
15951	217.8	219.3	<.01	-	0.3	0.01	<5	<.001	Porphyry
15952	219.3	220.8	0.03	-	0.4	0.01	<5	0.003	"
15953	220.8	222.3	0.03	-	0.2	0.01	<5	<.001	"
15954	222.3	223.8	<.01	-	0.3	0.01	<5	<.001	"
15955	223.8	225.3	0.01	-	0.1	<.01	<5	<.001	"
15956	225.3	226.8	<.01	-	0.1	<.01	<5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
15957	226.8	228.3	0.01	-	0.3	0.01	<5	<.001	Porphyry
15958	228.3	229.8	0.03	-	0.1	<.01	<5	<.001	"
15959	229.8	231.3	0.01	-	<.1	<.01	<5	<.001	"
15960	231.3	232.8	0.05	-	0.3	0.01	<5	<.001	"
15961	232.8	234.3	0.01	-	<.1	<.01	<5	<.001	"
15962	234.3	235.8	<.01	-	<.1	<.01	10	<.001	"
15963	235.8	237.3	0.01	-	<.1	<.01	<5	<.001	"
15964	237.3	238.8	<.01	-	<.1	<.01	<5	<.001	Porphyry
15965	238.8	240.3	<.01	-	0.2	0.01	<5	<.001	"
16244	240.3	241.8	0.01	-	<.1	0.01	5	<.001	"
end of hole									
>>intervals 18.3 to 19.8 and 19.8 to 21.3 not sent for assay: no core recovered !!!									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-7A	Date	17-Aug	Logged by						VN	PM								
Elevation		Azimuth	Hole shut down: hole lost/drilling problem	Northing:															
Inclination		Length		Easting:															
		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				
0-9.4	overburden																		
9.4-11.3	overburden?	?	shalt	chl, ser, cly	-	-	Fe	-	(ser)	chl	-	-	-	-	-	wk	Broken fragments of volcanic and plutonic wk types.		
11.3-13.6	fault zone	yes	bx/gge	cly, chl ser, carb	-	jar, hem in mat	hem jar	cly hem jar	ser chl carb	ser chl carb cly	-	-	chrys	-	-	wk	Chrys on clasts surfaces. Fault zone- frags of mostly Guichon, lasts up to 10 cm.		
13.6-17.4	fault zone	yes	fault bx/gge	cly, ser, (chl) (carb)	carb vein frag	hem, loc jar	hem jar Cu grn	-	ser chl (carb)	cly ser (chl) (carb)	-	-	(chrys)	-	-	-	Check for chrys. Fault zone - gge has plastic texture.		
17.4-18.6	fault zone	yes	fault bx/gge	cly, ser, (chl)	-	hem loc jar	hem jar Mn/Cu spots	-	ser chl	cly ser (chl)	-	-	-	-	-	-	Fault zone- clasts are mostly Guichon.		
18.6-20.4	fault zone	yes loc 18.6	fault bx/gge	cly, ser, (chl)	-	hem loc jar in gge	hem jar Mn-deut (grn Cu)	-	chl (ser)	ser chl cly	-	-	(chrys)	-	-	-	Fault zone- Bx matrix lost at bottom of interval gge not recovered, clasts rounded up to 4 cm.		
20.4-21.4	fault zone	yes	fault bx/gge	cly, ser, chl	-	hem, loc jar, in gge	hem, jar Mn-deut (grn Cu)	hem jar	-	-	-	-	(chrys)	-	-	-	Bx matrix not recover, pebbles 2-3 cm, some gge recovered.		
21.4-22.9		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NO RECOVERY		
EOH																			

Northing: 5604057.5			DDH 95-7A				Azimuth: 045		
Easting: 641509.0			Elevation: 1757.0 m				Inclination: -45		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
DDH 7A	-	-	-	-	-	-	-	-	-
15966	9.4	10.9	0.02	0.02	-	-	-	-	-
15967	10.9	12.4	0.08	0.02	-	-	-	-	-
15968	12.4	13.9	0.10	0.05	-	-	-	-	-
15969	13.9	15.4	0.11	0.05	-	-	-	-	-
15970	15.4	16.9	0.09	0.07	-	-	-	-	-
15971	16.9	18.4	0.11	0.07	-	-	-	-	-
15972	18.4	19.9	0.07	0.04	-	-	-	-	-
15973	19.9	21.4	0.04	0.02	-	-	-	-	-
-	-	-	-	-	-	-	-	-	hole abandoned

GETTY NORTH PROJECT														Gower Thompson & Associates Ltd.													
DDH #	DH95-7B	Date	18-Aug											Logged by	PM VN												
Elevation	1757.0 m	Azimuth	045											Northing:	5604079.0												
Inclination	-45	Length	266.4 m											Easting:	641509.0												
				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.	perv.	fract.										
0-12.4	Overburden																										
12.4-15.4	fault zone	loc	fault bx/gge	ser, chl cly, carb	-	(jar) in gge	jar, hem (Mn)	ser, cly Fe	chl ser	chl ser	-	-	-	-	-	-	-	wk		Gouge intermittent. Clasts appear to be Guichon and Guichon/hybrid. Loc strong/complete ser alteration							
15.4-20.0	fault zone	loc	fault bx/gge	ser, chl, cly carb	-	(jar) in gge	jar, hem (ser)(Mn) grn-Cu	ser, cly, Fe	chl ser	ser chl	-	-	(chrys)	-	-	-	-	wk		As above, clasts slightly rounded, gge not recovered.							
20.0-27.4	fault zone	loc	fault bx/gge	chl, ser (cly) (carb)	-	jar, hem in mat	jar, hem	ser, (cly) Fe	chl ser	chl ser	-	-	-	-	-	-	-	wk		Fault zone clasts appear porphyritic; grey-grn/pink. Strongly resembles porphyry at 92.5 m in DDH 95-24							
27.4-37.2	?	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		NO RECOVERY							
37.2-40.9	(Crowded Bethlehem? Porphyry) mafic rich, f.gr	-	stng/bkn/ loc ckle	chl, ser carb	-	-	hem (jar) (Mn) dend	ser Fe	chl (ser)	chl ser carb	-	-	chrys	-	-	-	-	tr		Strong Fe stain in healed fract. Fract set 40-60 degrees							
40.9-41.8	Crowded Bethlehem? Porphyry	-	ckle/shatt	chl, ser (cly?)	qtz remnants	-	jar hem (Mn) Cu spot grn Cu stain	ser Fe	chl (ser)	chl ser (sil) cly?	-	-	(chrys)	-	-	-	-	-		Chrys blebs in voids. Cu staining on fract.							
41.8-45.1	Crowded Bethlehem? Porphyry	at 42.8 m	ckle/shatt	chl, ser, (cly?)	qtz remnants	jar in gge	jar, hem (Mn) Cu spot grn Cu stn (Mn) dend	Fe cly, ser	chl (ser)	chl ser cly (sil)	-	-	(chrys)	-	-	-	-	tr		As above. Loc bleached as compared to previous interval. Broken contact with Guichon at ~ 45.1 m.							
45.1-46.3	Guichon bkn contact	-	stg/ckle loc shatt	chl, ser, cly?	chrys at 15° < 0.5cm	-	jar hem Mn Cu-grn	Fe (cly) ser	chl (ser)	chl ser cly? loc sil	-	-	chrys	-	-	-	-	wk		Chrys blebs in fract. Mn dendrites and spots. Lots of chrys; should kick like a mule							

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			
46.3-48.4	Guichon	?	ckled diss bx	chl, ser, cly, carb	qtz frag 1 cm	jar, hem in mat of bx	Cu-grn Mn, hem jar	ser Fe cly	chl ser (carb)	cly chl ser carb	-	-	chrys	-	-	-	Mn-as above. Stng chrys in bx matrix
48.4-50.9	Guichon fault	loc	bx/diss bx	ser, (carb) chl, cly	qtz frag 1 cm at 0° 1cm	Fe mat Cu-grn stain	Cu grn stain (Mn)	-	chl (ser)	ser chl (carb) cly	-	chrys in mat	chrys	-	-	-	Stng Fe, Hem and chrys in bx matrix. Sample of chrys for X-ray, habit unusual.
50.9-52.5	Guichon	-	fault bx shatt	chl, ser cly	qtz vein frags	Fe+Cu grn stain	(Mn) spots Cu grn stain jar-hem	-	chl (ser)	chl ser cly	-	chrys in mat	chrys	-	tr	AZ check. Stng chrys and Fe stain Bx matrix, less altered than previous interval.	
52.5-55.5	Guichon	-	diss and ckle bx	chl, ser (cly?)	qtz at 20, 60,70° < 1cm	-	Cu grn Mn spots jar, hem	-	chl (ser)	chl ser (cly?)	-	-	chrys	-	tr	AZ check. Fract set prominent 0 and 50 degrees.	
55.5-57.2	Guichon	-	ckle bx/shatt	chl, ser, cly?	qtz at 50- 60° <1cm	-	Cu grn Mn spots jar, hem	-	chl ser	chl ser cly?	-	-	chrys	-	tr	Decrease in chrys, hem with mafics. Less bx than preveious interval and less mineralized, Fe staining similar, possible lost gouge at 56.3.	
57.2-58.8	Guichon	loc	ckle bx/shatt	chl, ser cly	-	-	(grn Cu- stn ser) jar	-	chl ser	chl ser cly	-	-	chrys	-	tr	Hem with mafics. More shattered than previous interval, Fe staining similar. Shear surface 10 degrees.	
58.8-60.4	Guichon	-	ckle bx & loc bkn	chl, ser (cly?)	-	-	hem jar (Mn- spots) (Cu grn stain)	-	chl (ser)	chl ser (cly?)	chl? ser?	-	chrys	-	wk	Guichon, grey-green/pink (salmon) speckles. Possibility of goethite. Fract sets- 50 and 60 degrees.	
60.4-62.0	Guichon	-	stng/ckle	chl, ser cly? (carb)	qtz<0.5cm at 30°	-	dend- Mn Cu-grn hem jar	-	chl (ser)	chl ser cly? (carb)	chl ser	-	(chrys)	-	wk	Guichon, comp. Dark green black, streaky, banded zones with elongate bands/blebs of pale brown-purple (?) 40-50°. Possibly healed, silified fracture zones. Altered Porphyry? dyke 61.0- 61.5 m.	
62.0-64.9	Guichon	(loc)	stng/ckle loc int	ser, (chl) (cly)	qtz vnlt	Fe-loc	hem jar grn-Cu stain	-	chl ser	ser (chl) (cly)	-	-	(chrys)	-	wk	Stng diffuse Fe stained envelopes around fracts. Hem deposit or coating on fract surfaces. Local strong chrys near bottom of interval - occurs as fracture filling. Fract set- 55-65 degrees. Goethite?	

		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
ROCK TYPE		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
interval (m)									perv.	fract.		perv.	fract.	perv.	fract.			
64.9-66.1	Guichon fault	59.8 m	ckle/stng/ loc gge	(chlr) ser	qtz vein frag	Cu grn stain	jar hem Cu grn ser	-	chlr ser	(chlr) ser	-	-	chrys	-	-	tr		Shear angle 20°. Increase in chrys and Cu staining in this interval.
66.1-67.8	Guichon fault zone	?	stng/shatt fault bx?	(ser) (chlr) (carb)	qtz vn frags		Mn spots hem jar (Cu grn) stain	-	ser chlr	(chlr) (carb) ser	(ser?) (chlr?)	-	(chrys)	-	-	tr		Weak chrys, strong Mn-Cu spots. Guichon, fault zone, local breccia.
67.8-68.9	Guichon	-	stng/ckle	chlr, ser	chrys at 5° C.A. <1cm qtz vn frag		(Mn spots) Cu grn stain	-	chlr ser	chlr ser	(ser?) (chlr?)	-	chrys ten?	-	-	tr		68.9 chrys vein 0.5 cm at 5 degrees. Tenorite? Strong chrys vein and fract at bottom of interval, rock generally competent at base of interval.
68.9-70.7	Guichon	-	stng	ser chlr	qtz at 40- 60° C.A. < 2 cm	grn-Cu?	jar, hem Mn dend	-	(chlr) (ser)	ser chlr	-	-	chrys	-	-	tr		Should grade well. Chrys should kick like 10 mules. Strong fract but competent and silicic, 12 qtz veins and veinlets <2cm this interval strong dark green and Fe stained, diffuse Fe stain envelopes around fract.
70.7-73.0	Guichon	-	stng	ser, chlr	qtz at 40° C.A. < 1cm		hem jar grn Cu stain (Mn spots)	-	(cly?) ser chlr	ser chlr (cly?)	-	-	chrys	-	-	tr		Chrys sharp decrease over previous interval.
73.0-75.4	Guichon	-	stng/ckle	ser, chlr	qtz at var <1cm		(hem) (jar) grn Cu stain Mn spots	-	(patchy chlr)	ser chlr loc ser	-	-	chrys	-	-	wk		Competent interval, some diffuse Fe staining envelopes around fract.
75.4-76.8	Bethlehem? Porphyry	-	ckle bx	ser, chlr	qtz at 40- 50° C.A. 1 cm		(hem) (jar) grn Cu stn, Mn spots	-	(patchy chlr)	ser chlr loc ser	-	-	chrys	-	-	wk		Qtz veins vuggy with chrys; weaker chrys Fract set 40-50 degrees. Similar to Porphyry at 37.2 m.
76.8-78.4	Guichon	78.2 m	ckle bx/ loc gge	ser, chlr (carb)	qtz at 30° C.A. <1cm	grn Cu in gge	grn Cu hem jar	-	ser chlr	(carb) ser chlr	-	-	chrys	-	-	tr		
78.4-80.5	Guichon	-	dis bx/loc ckle bx	ser, chlr	qtz vn frags	grn-Cu in mat Fe in mat	hem jar Cu-grn	-	ser chlr	ser chlr	-	-	chrys	-	-	tr		Hem staining associated with mafics. Guichon dislocation breccia with loc ckle zones. Stng green Cu stained ser and chrys in fract and Breccia matrix

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			
80.5-82.9	Guichon	-	dis bx/loc ckle bx	chl, ser	qtz vn frag 0.5	-	hem jar Cu grn	chl ser	chl ser	-	-	chrys cup?	-	-	-	-	Check for Cuprite. Bleb in voids of Bx. As above, strong occurrence of chrys in bx voids. Possible xenolith frag partially assimilated
82.9-84.4	Guichon	-	dis bx	chl, ser cly in bx mat	qtz vn frag 0.5 cm	Cu grn	(hem) (jar) Cu grn	chl ser	chl loc cly ser	-	-	chrys	-	-	-	-	Check for cuprite. Fract set 50 and 60° C.A. and subparallel
84.4-86.9	Guichon fault zone	loc 86.0m	dis bx/fault bx?	chl, ser (cly)	qtz vn frag qtz to 2cm at 60° C.A. var <1cm	Cu grn in mat	hem jar, Mn spots Cu grn	chl ser	chl ser (carb)	-	-	chrys	-	-	-	-	Check for cuprite. Numerous qtz veins ckle.
86.9-89.9	Hyb?/Guichon	-	ckle bx/ dis bx	ser, chl (carb)	qtz frags, qtz to 1.0 cm 40-80° C.A.	Cu-grn	hem Mn spots jar	chl ser	chl ser (carb)	-	chrys?	chrys	-	-	-	-	Perv grn Cu stain ser at top interval. Strong chrys on fract. Hybrid?/Guichon, generally ckle bx, loc dislocation bx. Upper part of interval is dark grn-black with perv grn. Cu stained ser and chrys in fract. (may be Hybrid?) Ap- pears that top of interval may have been strongly altered & fractured and subsequently healed (some "veins" of sil-clays) Becomes more recognizable as guich at bottom of int.
89.9-91.7	Guichon	-	stng/loc dis bx	ser, (chl) tr carb	qtz to 1cm 70-80° C.A. vuggy	Cu-grn in mat	hem (jar) (Mn) Cu-grn ser	loc alb (ser) (chl)	ser chl	ser chl	-	chrys	-	-	-	-	Chrys in qtz vein fract. Guichon, strongly fracture, some minor ckle and dislocation.
91.7-93.4	Bethlehem?	-	ckle bx/bkn	ser, chl cly?	qtz vn frag:qtz vn at 30- 40° <1.0cm	-	Cu-grn hem jar (Mn)	(ser) chl loc alb	ser chl	ser chl	-	chrys	-	-	-	-	Bot chrys in Breccia. Guichon strongly fractured, some minor ckle and dislocation.
93.4-95.2	Bethlehem?	-	stng/bkn dis bx?	(cly?) ser chl	qtz vn frags: qtz 3.0cm at 30° C.A.	-	Cu grn hem jar(Mn)	loc alb loc ser (chl)	ser chl	-	-	chrys	-	-	-	-	Hem and chrys in qtz vein vugs: 94.0 m bleach strong ser alteration 30.0 cm
95.2-96.6	Bethlehem	-	ckle/ckle bx	(chl) ser (cly?)	qtz to 2cm at 80-90° & 5-10° C.A.	-	hem (jar) (Cu grn ser)	(loc ser) alb? chl	chl ser	?	-	chrys	-	cpy in qtz vn	-	-	Strong open spaces in qtz vein with chrys. Qtz vein with cpy at 95.6 m. Bethlehem, ckle/ ckle breccia with qtz fracture filling numerous voids. Qtz vein with large (~0.5cm) open spaces and coarse "drusy" qtz crystals with chrys. Cpy and chrys in qtz vein.

		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
ROCK TYPE		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
interval (m)									perv.	fract.		perv	fract	perv	fract			
96.6-98.3	Bethlehem	-	stng/shatt loc ckle	ser, chlr cly?	qtz vn frags; qtz at 0-0.5 cm	-	(grn-Cu ser) hem (Mn-Cu spots)	-	alb? (ser) chl	ser chl	-	-	chrys	-	?	-	-	Check for cpy and NCu. Bethlehem, strong/ shattered, locally cracked with open spaces; numerous healed, qtz/chlr fracts with strong Fe staining and loc chrys, strong ser alteration envelopes.
98.3-100.3	Bethlehem	-	bkn/shatt	ser, chl sil, carb	qtz to 2 cm at 50°	-	grn-Cu ser, (hem)	-	(ser) chl	ser chl carb	-	-	chrys	-	?	-	-	Check for azurite. Bethlehem, bkn/shatt loc healed dislocation bx/ckle bx, w/ ser alt env around fracts.
100.3-102.2	Bethlehem fault bx	101.0m	dis bx/shatt	ser chl	qtz vn at 40° <1cm	-	grn Cu in mat hem (jar)(Mn)	-	(ser) chl	ser chl	-	-	chrys	-	-	-	-	Bethlehem, Fault zone. Fault bx and gge with perv green Cu stained matrix. Occ ser/chlr healed fracts stained.
102.2-105.2	fault zone Bethlehem	loc	fault bx/gge	ser, chl, cly	qtz frags	hem & Cu in mat	-	ser (chl) cly	ser (chl) cly	-	-	chrys in mat	chrys	-	-	-	-	Perv Cu in mat. Fault Bx 102.2-104m: clasts in clay matrix. Clasts are rounded and milled, strong Bx & altered but texture suggests Beth or Beth Porph.
105.2-106.4	Bethlehem	loc, top of int	mod/shatt at top of int	chl, ser (cly?)	qtz to 1cm at 45°, var qtz vnlt	-	Mn spots hem grn-Cu ser	-	ser chl (cly?)	ser chl cly?	-	-	chrys	chrys	-	-	-	Perv chrys should run well. Strong chl, perv Cu (as chrys and staining), ser alt, dark green-black and patchy green-black in color
106.4-106.9	Bethlehem Porphyry	-	mod/stng	ser (chl)	qtz < 1cm at 80° C.A.	-	(hem) (Mn)	-	ser (chl) (cly)	ser (chl) cly	-	-	Cu- stain	-	-	-	-	Strong ser alt/blch. Porphyry? Mafics nearly gone Possible fract controlled pervasive arg alteration
106.9-111.1	Bethlehem	loc 106.9- 107.1m	stng/loc int	ser, chl cly, (carb)	qtz 1-2cm 20-40° C.A.	Cu-grn	hem, Cu-grn ser	-	chl ser	ser chl cly (carb)	-	-	chrys? chrys	chrys	-	-	-	Strong perv Cu-grn staining. Tenorite? (Sooty). Strong chl/ser alt. Strong fractured and healed. Local milled Bx at 106.9 m
111.1-112.9	Bethlehem	loc	mod	chl, ser, cly	qtz vns + frags to 1cm at 50° C.A.	Cu grn	(jar) (Mn) Cu-grn	-	chl ser cly	ser chl cly	ser chl	-	chrys? chrys	chrys ten?	-	-	-	Strong ser alt/blch zone at 111.0 m with fault bx (milled clasts). Rock fabric and texture as above. Alternating blch and comp/ chl zones throughout interval. Qtz veins with open spaces and chrys.
112.9-114.3	Bethlehem	-	wk/mod	ser, chl, (cly)	qtz to 1cm at 40° C.A.	Cu grn	(jar) (hem) (Mn) Cu grn	-	ser chl (cly?)	ser chl (cly)	-	-	chrys? chrys	chrys	-	-	-	Strong chl alt with pervasive Cu-grn stained ser. Sub-parallel qtz veins to 1.0 cm at ~40° C.A. Open spaces in qtz vns. Possible antitaxial vein growth.
114.3-118.0	Bethlehem	-	mod/stng	ser, chl, (cly)	qtz~0.5cm at 20+80° C.A.	-	-	-	(cly?) ser chl	ser chl (cly)	-	-	chrys? (chrys)	-	-	tr	-	Bethlehem, mottled Fe stained and bleached Transition from perv Cu-grn ser and strong chl to blch. Zone with little Cu-grn stain- ing. Fe-staining in alt env around fracts.

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			
118.0-120.4	Bethlehem		ckle bx	chlr, ser, cly loc carb	qtz to 1cm at 40° C.A. often vuggy	-	hem	-	ser chlr (cly?) clots	(loc carb) ser chlr cly	-	(chrys)	loc cpy	-	tr	Blebs of cpy in vuggy, sil zone 118.9m [T.S. required] Ckle bx, local strong sil with drusy qtz in vugs. Cpy/hem blebs in sil zone. Antax qtz veins to 1.0 cm with chrys. Numerous qtz/chlr healed fracts w/ ser and/or hem env. Fault bx 119.8 m milled clasts, shear at 10° C.A. Normal dis- placement fo qtz vn. (2.0 cm displacement) on shear surface.	
120.4-121.9	Bethlehem		ckle/dis bx (open open spaces) fract sets at 60+40° C.A.	ser, chlr (cly?) (cly?)	2 qtz .5 & 1 at 30o C.A. at 30° C.A.	-	(hem) Mn dend Mn dend &spots (jar) (Grn-Cu stn ser)	-	ser (chlr)	ser (cly?) (cly?) chlr	-	(chrys)	-	-	-	Minor chrys on fracts. Ckle/dis bx, pervasive ser Ckle/dis bx, pervasive ser from fracts leav- from fracts leaving less altered cores of clasts! Probably Bethlehem or Bethlehem Porphyry	
121.9-123.9	Bethlehem		stng/ckle	ser, (chlr) (cly?)	qtz vn frag to 0.5cm	(Fe)	Fe,Cu Mn spts	-	(ser) fracts	ser (chlr) (cly?) (sil)	-	(chrys)	chrys (hem)	-	tr	Grn Cu stain in ser in fracts. Chrys most abundant in upper part of interval. Wallrock has appearance of hyb, then on the other hand, looks like porph, then again could be mafic-rich Guich. Ser altn follows fracts and perme- ates into wallrock leaving less altered cores; carries diffuse Fe stain. Bleached along fracts	
123.9-126.0	Bethlehem		stn/ckle bkn, slip surfaces.	ser, chlr (cly?)	qtz vnlt to <0.5 cm discont	-	Fe, Cu Mn spots	-	ser chlr	ser chlr (cly?) sil?	-	chrys	-	-	-	Grn Cu stain, chrys stronger than prev interval. As above with more pervasive ser altn than previous interval. Possible weak arg alteration (fract controlled). Check for clay.	
126.0-128.0	Bethlehem		stng shatt w/loc ckle	ser, (chlr) (cly?)	qtzs vnlt to ~0.5 cm at ~60° C.A.	-	Fe, Cu Mn spots & dends	-	ser	ser	-	chrys	cpy	wk	-	Less chrys than above. More recognizable Bethlehem remnant texture. Ser in fract, weak to moderate impreg of wallrock leaving slightly less alt cores. Open spaces in brecciation 127-127.5. Strong bleaching, silicic because of more intense fracts and where qtz vns concentrated.	
128.0-130.0	Bethlehem		stng, loc bkn	ser,(chlr) carb	carb vnlt	-	Fe, Cu stn,Mn spots	-	ser chlr	ser chlr (sil/alb)	-	chrys	cpy	mod hyb frags	-	[T.S required] Cu stained ser. Chrys & cpy blebs/blobs in fracts. Oriented elongate chlr clasts, healed by younger hybridized Beth? with pervasive ser alteration, chlr mafics. Later fracturing, additional ser, Fe stain.	

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			
130.0-133.2	Bethlehem	-	stng/ckle loc bkn fract sets at 40 & 50° C.A.	ser, chlr (carb)	qtz 1.5cm at 40° C.A. vuggy	-	Fe, Cu stn ser (Mn spots (// to fract surface)	-	ser loc chlr	ser chl cyl (carb) qtz xtals	-	chrys &vnlt	-	-	mod Hyb frags	Chrys on fracts and forms vnlt. [T.S. req'd salmon pink altn etc] Similar to above. Noted salmon pink altn spots in and assoc with chlr Hybrid remnants. Associated hem ser. Minute distinct black crystals of ? with reddish streak. 130.9 m gouge (?), clys.	
133.2-135.3	Bethlehem	(loc gge)	stng loc shat loc slip at 5° C.A.	ser, chlr, clys	qtz vnlt frags dis stng chl selv	-	Fe, Cu stn ser (Mn spots)	-	ser loc chlr	ser chl (loc cyl)	-	chrys	-	-	wk	Similar to above. Few strong occ chrys in fracts and as veinlets, quite local.	
135.3-136.4	Bethlehem	loc	ckle/shatt	chl, ser cyl	qtz vn frag	-	Fe, Cu stn ser	-	ser (chl)	ser cyl	-	chrys	-	-	-	Alteration, ghost-like phenos. 135.4 and 136.2} Fault zone, w/ gouge.	
136.4-138.4	Guichon/Hyb? wk fault zone	loc	stng/bkn loc shat	cyl, chl, ser	qtz <1cm at 60° C.A. w/open spaces qtz vn frags	(loc grn Cu)	Fe, Cu- grn ser (Mn spots)	-	ser (chl)	ser chl cyl	-	Cu- stn	chrys	-	-	Positive H ₂ SO ₄ test on perv Cu stain. Guichon/Hybrid?, strong bich (ser altn) with perv chl maf. (138.4 m gge) Occasional fragments of Bethlehem.	
138.4-139.5	Guichon/Hyb? fault zone	loc 139.0 m	dis bx/fault bx w/gge	cyl, chl, ser	-	Cu-grn in mat	(jar) hem Cu-grn	-	ser chl loc cyl	ser chl cyl	-	chrys	-	-	-	As above. Guichon/Hyb/Beth clasts in dis bx/fault bx. Gouge 139.0-139.5 m at ~5-10° C.A.. Matrix supported Bx with Cu-grn stain in matrix though most of interval. (H ₂ SO ₄ test positive in mat.)	
139.5-141.4	Guichon/Hyb? w/Porphyry intervals	loc 139.5 m	ckle bx/dis bx w/loc gge	cyl, chl, ser	qtz vn frag qtz <1cm at 50° C.A.	Cu-grn in mat	hem Cu-grn ser jar (Mn)	-	chl ser loc cyl	cyl ser chl	-	loc chrys in mat	chrys	-	-	Guichon/Hyb/Beth/Porph in fault zone: ckle bx/dis bx with cyl matrix. S ₂ in qtz vn with halo of hem. Fract sets at 0-5° and prominent 30° C.A. H ₂ SO ₄ test positive in matrix. Strong chrys as veinlets and in fracts. 139.9 m	
141.4-142.9	Bethlehem Porphyry	loc 142.4 m	ckle bx/dis bx w/loc gge	cyl, chl, ser	qtz vnlt at 90° C.A.	Cu grn in matrix	hem (jar) Cu-grn ser	-	ser (chl) cyl in mat	ser cyl (chl)	-	chrys	-	-	-	Pink Bethlehem Porphyry, crowded? Phenos larger than Bethlehem seen above. Aphanitic pink/grey groundmass. Strong ser/(chl) alteration generally bleached with Cu-grn ser/cyl matrix.	
142.9-144.4	Bethlehem Porphyry (Crowded?)	-	stng/bkn' shatt	cyl, chl, ser	chrys vnlt at 0° C.A. ~0.5cm	Cu-grn ser	Cu-grn ser Fe, (Mn)	-	ser (chl)	ser chl cyl	-	chrys	-	-	-	Strong hem on fracts. H ₂ SO ₄ test positive on perv Cu stain. Strongly fractured and broken with local shatt. Strong chrys occ on	
144.4-146.3	Bethlehem Porphyry (Crowded?)	loc 145.5 m 0.5 cm	mod/stng	ser/chl	qtz ~0.5cm at 30-40° C.A.	Cu-grn ser	Cu-grn ser Fe, (Mn)	-	ser (chl)	ser chl	-	chrys	-	-	-	Check for Cup. Moderate to strongly fractured with weak qtz veins at 30-40° with open spaces. Shear surface/gouge 145.5 m at 40° C.A.. Prominent fract sets at 80-90° C.A.	
146.3-147.2	Bethlehem	-	stng/shatt	ser, (chl)	qtz vn	loc Cu-	Fe	-	(ser)	ser	-	chrys	-	-	tr	Dec in perv Cu-grn ser from prev int.	
146.3-147.2	Bethlehem	-	stng/shatt	ser, (chl)	qtz vn	loc Cu-	Fe	-	ser	ser	-	chrys	-	-	tr	Decrease in pervasive Cu-grn ser from prev inter-	

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
	Porphyry (Crowded?)		loc bkn	(cly)	frags	grn ser	Cu-grn ser (Mn)		chr	(chlr) (cly)							val. Porphyry, strongly fractured /shattered to broken. Antax qtz veins/fragments.	
147.2-148.4	Bethlehem Porphyry fault zone	loc 148.4 m	shatt	ser chlr loc cly	qtz vnlls frags		Fe Cu- grn ser		(ser) (chlr)	ser chlr cly?		chrys					More strongly fract'd bkn/shatt that prev int. Stng Fe and Cu-grn stain than prev interval. Loc pale blue grey efflorescence on fract.	
148.4-149.8	Bethlehem Porphyry fault zone	loc	bkn/shatt	chlr,ser (cly)	qtz vnll frags	loc Cu- grn ser	Fe,Cu- grn ser (Mn)		(chlr) ser	chlr ser (cly)		chrys					Wk H ₂ SO ₄ positive. Fault zone, shattered to broken. Pink/grey (crowded?) Bethlehem Porphyry.	
149.8-152.4	Bethlehem Porphyry fault zone	loc 160.5 m	shatt/loc stng	ser, chlr loc cly		loc Cu- grn ser	loc Cu- grn ser Fe(Mn)		ser (chlr)	ser chlr loc cly		chrys					As above.	
152.4-154.5	Bethlehem Porphyry fault zone		stng/bkn	ser, chlr (cly)			stng Fe (Mn)		ser (chlr)	ser chlr (cly)		(chrys)		(cpy)			Tr cpy in fract; Fe stained ser alt. env on fracts. Strongly fract'd and broken perv ser alt and stng chlr. Fe staining in fracts, very stng. (coating). Outlines of mafics and feldspars- bleached feldspars and mafics.	
154.5-155.3	Guichon		stng/bkn to ckle/dis bx w/open spaces.	chlr,ser,cly	qtz vn frags <1.0 cm	loc Cu- grn ser	Fe, Mn Cu-grn ser		ser chlr	ser chlr cly		cup? (chrys)					Check for cup. Strongly fract'd/bkn at top of in to ckle/dis bx. stng milled, at bottom of int. Partially assimilated mafic xenolith 154.5m	
155.3-157.9	Guichon (fault)	156.6 & 157.4 m	fault bx/ gge (loc)	cly, ser chlr		loc Fe			ser chlr	cly ser chlr				cpy (pyr) mo	wk		mo in clasts in Bx and fract surfaces. Con- tact btwn oxide and primary zone sharp at 155.3 clasts in bx up to 10 cm, matrix cly-coarse sand particles.	
157.9-159.4	Guichon fault		diss bx/ fault bx/ loc shatt shatt	ser, chlr. (carb) (cly)	qtz vn frag 0.5 cm chlr selvage and cpy		(Fe)		ser chlr ep chlr	(carb) ser chlr (ep) chlr (cly) ep				cpy w/maf maf	cpy mo (pyr)	mod	Epidote- diffuse blebs. Very stng cpy on fracts. Very strongly ser interval. blebs in remnant qtz veins. Very stng ser alteration around fracts, healed chlorite fract. Some slip surfaces 40-50-70-20°.	
161.6-162.6	Guichon		stg/shatt	chlr, ser cly, ep?	qtz vnlls 0.5cm		(Fe)		chlr ser (loc cly)	chlr ser ep? cly				cpy (pyr) (mo)	loc		mo. mottled alteration fract controlled ser chlr, clasts of unaltered beside altered clasts. Healed qtz, chlr, fracs with cpy. Local unaltered Guichon is mag- qtz vnlls carry cpy and have chlr selvage.	

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				
162.6-163.9	Guichon? loc mafic rich	loc 163.0 m	ckle/shatt	cl, chl, ser (carb)	qtz at 50° 1 cm	-	(Fe)	-	chl ser	chl ser	-	-	-	cpy w/maf	cpy (mo)	-	-	-	Cpy with bornite tarnish. Aplite dykelets 90° C.A. 3 cm
163.9-165.5	Guichon (Hybrid?) loc mafic rich	-	ckle/bkn loc shatt	chl, ser, cly (carb)	qtz vnits 0.5cm at 30° C.A.	-	(Fe)	-	chl ser	chl ser (carb) cly	-	-	-	cpy w/maf	cpy (mo)	-	-	-	Cpy with bornite tarnish. Strongest alteration is chl/ser around fract and diminishes with distance away from fract.
165.5-168.9	Guichon/Hyb	loc gge	ckle/dis bx shatt/crushd	chl, carb, ser, cly	carb to 1cm 10-40° C.A. w/cpy blebs	-	(Fe tr)	-	chl ser (cly?)	chl ser cly carb	-	-	-	cpy	cpy (pyr)	wk	-	-	Cpy blebs in carb veinlets; perv cpy in mafics Qtz microvnits w/ cpy. Check for mo. Guichon/Hyb; crushed, chlorite-rich open spaces. Carb and qtz veinlets. Cpy strong, diss with mafics and in fract and in carb and qtz veinlets. Check for MoS ₂ . Aplite remnants.
168.9-171.3	Guichon/Hyb loc mafic rich	loc gge	ckle/dis bx loc shatt/ crushed	ser chl (carb), cly	carb vn frag some quite pink. Qtz vnit 1cm ckle. cpy & mo	-	(Fe tr) hem loc	-	chl ser (carb)	chl ser carb cly	-	-	-	cpy	cpy mo (pyr)	wk	-	-	Cpy in fract, veinlets assoc with mafics. mo in fract/veinlets. Guichon/Hyb; chlorite mafic- rich. Mod/strong crushed locally, otherwise med/strong fract/ckle bx. Aplite dykelet at 80° C.A. Qtz vnit 1 cm, ckle, cpy and mo on throughout and on midline.
171.3-172.9	Hyb/Guichon	loc gge	ckle/dis bx loc gge	ser, chl carb	carb micro vns. qtz vnits.	-	(Fe tr)	-	chl ser (carb in gge)	chl ser carb	-	-	hem	cpy	cpy (pyr)	wk	-	-	Cpy with chl and in fract. Hyb/Guichon 172- gge 10 cm at 20° C.A. Pink hem stain on footwall. Qtz vns carry cpy.
172.9-174.4	Hyb/Guichon	173.0 at 30° C.A. 1 cm	ckle/dis bx loc crushed	cly, chl ser, carb.	carb vnits Qtz vnits 0.5-1cm	-	Fe tr	-	chl ser (carb)	cly chl ser carb	-	-	-	cpy assoc w/ mafics	cpy (pyr)	wk	-	-	Check for mo. Lots of cpy in matrix. Cpy in carb veinlet beside gouge.
174.4-175.9	(Guichon)Hyb	loc	ckle bx/bkn	chl, ser carb loc cly	wk aplite dykelets	-	Fe tr	-	chl ser	carb ser chl loc cly	-	-	-	cpy assoc w/ mafics	cpy	wk	-	-	Interval starts off strong chl and decreases with depth. Aplite dykes associated with pink mottled alteration 2.5 cm at 60°, 0.5 cm at 70° cm. Fract set-50-70-20° C.A. Some slip surfaces
		C.A. 1 cm	loc ckle	cly, carb	cpy + qtz at 10, 0.5 cm	-		-	ser alb	chl cly carb	-	-	-	assoc w/ mafics			-	-	Aplite dykes-[premineralization-contain mineralized fract and bleached envelopes] at 60-68° C.A. strong shatt around aplite dyke slip surface perpendicular to core axis. Fract sets 40, 50, 70, 20° C.A. Qtz aplite dykelet at 176.2 cuts aplite dyke.
179.2-181.0	Guichon contacts Porph	-	ckle/loc dis bx	ser, chl carb	aplite 180.2 2cm at 80° C.A.	-	Fe tr	-	ep chl ser (alb)	chl ser carb sil	-	-	-	pyr & cpy assoc w/maf	pyr cpy mo Unk	mod	-	-	mo in fract 180.9 m also an unknown which reqs ID. ICP and PTS. * Aplite dyke fract and mineralized/contact between Guichon-Hybrid and porph dyke.

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
181.0-182.3	Porph grey	-	stng loc shatt	carb, chr ser	aplite <0.5 to 2cm at 80° C.A.	-	Fe wk	-	(ep?) ep ser chr (carb)	-	-	-	(pyr) (cpy)	pyr mo	mod	As above*. Grey porph, ghost-like phenos plag, few chr mafic phenos, aphanitic groundmass Strong ser as envelopes around fract to ~ 0.5 cm		
182.3-185.3	Porph grey	-	stng loc ckle bkn/shatt	chr, ser (carb)	qtz ~ 1cm ckle, open spaces	-	Fe(jar) hem?	-	(ser) chr ser (carb)	-	-	-	(pyr)	pyr mo cpy	mod	mo and pyr on margins of qtz veinlets. Grey porph, as above. Aplitic dykelet 4 cm at 70°, predates min and fract.		
185.3-187.5	Guichon	loc gge	shatt	Fe (hem)	?	(Fe)	Fe	-	ser chr	ser chr	-	-	(NCu)	(NCu tr)	wk	NCu in fract and diss in mafics. Guichon some pink mottling of K-spar. 185.5 gge 0-5° C.A., perv Fe stain. Traces diss and fract NCu.		
187.5-188.9	Guichon	loc gge	shatt	Fe, chr ser, (carb)	?	-	(Fe) blk Mn stain	-	Ep ser chr	ep ser chr (carb)	-	Mn blebs ?	(NCu) loc chalc	NCu unk	wk	Black Mn (stain and blebs). Spider webs of NCu in fract, dendrites, blebs. Guichon as above. Major NCu in fract, dendrites, barbed wires.		
188.9-190.8	Hyb/Guichon loc mafic rich	loc gge	ckle/shatt	chr, ser (cly loc)	-	-	(Fe) (blk Mn stain)	-	(ep) ser chr	ep ser chr	-	-	cpy	cpy pyr unk chalc	tr	Also grey unknown in fract. Guichon Hybrid in contact with Guichon which continues down hole. 188.9 loc gge 1 cm, perv Fe stain with black unknown.		
190.8-192.5	Guichon/Hyb	-	bx dis loc mod/stng	chr, ser, (carb) (cly loc)	qtz ~ 0.5 cm bx	-	(Fe-hm)	-	chr ser	chr ser (carb) loc cly	chr? (ser)	Mn? blebs	cup	(pyr) cpy	pyr cpy	tr	Check for cup. Guichon/Hybrid as above, less pervasive alteration.	
192.5-194.5	Guichon	loc 194.2 m	stn/shatt loc crushed	chr, ser (carb), cly	-	-	-	-	(ep) alb	ep ser chr (carb) cly	(chr) (ser)	-	(pyr)	pyr (cpy?)	mod	Pyrite in fract and with mafics. Guichon mottled pink, ep in fract. Moderately diss pyr in gouge. Slip surfaces ground up sulphides		
194.5-195.6	Guichon	-	mod/loc shatt	ser, chr (cly?) (carb)	-	-	-	-	(chr) (ser) (loc ep) alb	ep chr ser (cly?) (carb)	chr ser	-	pyr (cpy)	pyr	mod	Pyr moderate to strong in fract and with mafics. Similar to above interval.		
195.6-197.2	Guichon	-	wk/loc bkn	carb, ser chr	aplite dykelet frags	-	-	-	chr (ser) alb	chr ser carb	chr (ser)	-	(pyr)	pyr cpy	mod	Pyr mod in fract. Trace with mafics. Guichon, competent, fract (healed) with sulphides.		
197.2-199.2	Guichon	-	stng /bkn shatt	carb, ser chr	pink porph 197.6 m (40cm) at 30° C.A.	-	-	-	alb patchy ep	(chr) (ser) loc ep	(chr)	-	(pyr)	pyr cpy	mod	Guichon, strongly fractured and broken, pink aplitic porph dykelet 4.0 cm with healed fract. Sulphides in fract, black selvage around fract.		

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			
199.2-201.3	Guichon	-	shatt/bkn	carb, ser chl	carb vnlt 1.5 cm, vuggy carb micro vnlt, qtz vnlt	-	-	ser chl alb patchy ep	ser chl carb loc ep	(chl)	-	-	(pyr)? (cpy)?	cpy pyr	wk		Pyr?/cpy? with mafics. Guichon, strongly fractured, shattered to broken, more intense fract than previous interval. Carb vnlt with cpy in fracts, and as blebs. Some fracts parallel (or nearly) to C.A. show displacement. Fracts healed with chl and primary min.
201.3-202.0	Guichon (Hybrid?) loc mafic rich	-	shatt/bkn	ser, (chl) carb, cly	-	-	-	(ser) chl loc alb patchy ep	cly ser (chl) carb ep	(chl)	-	-	(cpy)	pyr cpy	mod		Cpy with mafics. Guichon, shattered/broken Contact? with Hybrid at 202.0 m, ep around fracts. Possible xenolith.
202.0-203.9	Hyb/Guichon fault zone	loc 202.6 m 15° C.A.	stng bkn/ shatt loc int	chl, ser carb, cly	-	-	-	loc ep chl alb (patchy ser)	ep carb chl ser cly	chl (ser)	-	-	cpy	cpy pyr	mod		Calcite crystals in gouge. Large bleb of pyr in gouge. Cpy with maf. Hybrid/Guichon. Fault zone, strongly fractured. Large bleb of pyr in gouge(cly/carb) at 202.6 m. Ser alt env on fracts to <0.5 cm. Ep associated with fracts and locally pervasive as blebs. Primary mineralization (cpy and pyr) suspended in gouge.
203.9-205.5	Guichon	-	stng/bkn	chl, ser, carb cly	aplite dklt at 90° <3 cm	-	-	chl alb (patchy ep)	ser (chl) carb cly	chl (ser)	-	-	cpy	cpy pyr	mod		Cpy with mafics. Pyr>cpy in fracts. Guichon, stng fract'd/bkn, aplitic porphyry dyke--premineral. Cross cut by mineralized qtz vn parallel to C.A. Fract sets at 10 & 20° C.A.
205.5-207.4	Guichon fault zone	-	shatt	cly, ser carb, chl	-	-	-	ser chl loc alb	ser chl cly carb	-	-	-	cpy	pyr cpy	mod		Cpy as above. Guichon, patchy strong perv ser alteration. 205.5-206.0 m
207.4-208.9	Guichon	-	wk/mod	chl, ser carbq	carb micro vns, pyr/ qtz vnlt at 80° C.A. <0.5 cm	-	-	loc alb (patchy ep) (loc ser)	chl ser carb	chl	-	-	cpy	pyr cpy	mod		Cpy as above. Pyr>cpy. Guichon, comp, pyr/qtz vnlt <0.5 cm with strong alt env <1.5 cm. Healed fracts chl/qtz/pyr at 0-5° C.A. Fracts sets at 60 and 30° C.A. Generally mottled pink throughout.
208.9-210.4	Guichon	-	wk/mod	chl, ser, carb	pyr/carb vnlt ~0.5 cm at 90° C.A.	-	-	(ser) (chl) alb ep?	ser chl carb loc ep	-	-	-	cpy	pyr cpy	wk		Pyr =- cpy. Guichon, comp, grey to dark grey, have lost the pink mottling. Strong ser Alt. env on pyr/carb vnlt ~ 1.0 cm. Slight perv bleaching throughout.
210.4-212.9	Guichon fault zone	loc 212.7 10° C.A.	mod/loc shatt	chl, ser carb, loc cly	aplite dklt ~ 1.0cm	-	(Fe)	ser (chl) (alb)	ser chl carb loc cly	-	-	-	cpy	pyr cpy	wk		Guichon, less comp than above, bleaching and ser alt. as above.

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			
212.9-213.9	Guichon	-	stng/bkn	ser, chlr carb, ep	aplite dklt frags	-	-	-	loc ep (ser) chl	(ep) ser chl carb	-	-	-	cpy in maf	pyr cpy	mod		Pyr>cpy. Guichon, strongly fract'd/bkn with ep occ as blebs increasing with depth. Pink aplitic porphyry dykelet
213.9-214.9	Pink Aplitic Porphyry	-	shatt	(ser) (chl) carb	-	-	-	-	(chl) (patchy ser)	(ser) (chl) carb	-	-	-	-	pyr cpy	wk		Ser alt env on fracts; pyr>cpy in fracts. Pink porph, alt env around fracts are bleached and grey to light grey. Fracts mod to strong mineralized with pyr and cpy (pyr>cpy)
214.9-217.9	Guichon	-	wk/loc stng	chl, ser carb, loc cly	-	-	-	-	(chl) patchy alb (patchy ser)	chl ser carb loc cly	chl (ser)	-	-	(cpy in maf)	cpy pyr	mod		Pyr>cpy in fracts. Guichon, pink mottled near top of interval grading to grey to dark grey with depth. Loc strong ser/chl alt associated with fracts (chalky white ser). Fract sets at 10 and 70° C.A.
217.9-219.3	Guichon	-	wk/mod	chl, ser carb	cpy/pyr vnlt ~0.5 cm at 15 & 45° C.A.	-	-	-	(alb)	chl ser carb loc ep	chl (ser)	-	-	(cpy in maf)	cpy pyr	mod		Pyr>cpy. Guichon, comp wk/mod fract'd cpy/pyr vnlt to 0.5cm. Fract sets at 10, 15 and 45° C.A.
219.3-221.3	Guichon	loc 220.9 m	wk/loc shatt	chl, ser, ep carb, loc cly	qtz vn to at 1st 3cm 219.5 m at 70° C.A. pnk porph dykelets	-	-	-	(ser) loc ep patchy alb	chl ser carb loc cly ep	chl (ser)	-	-	(cpy in maf)	cpy pyr	mod		Loc perv ep and ep on, and associated with fracts. Guichon, comp, strong loc perv ep & ep with fracts. 220.9-221.3 m gouge/fault bx. Qtz vein has ep, carb, and chl in selvage at 219.5 m. Pink porph dykelets 1.5 and 4.0 cm at 80° C.A.. 2.0 mm pyr veinlet in pink porph with ser, selvage. Fract sets as above. Pink porph dykelets at bottom of interval.
221.3-223.4	Guichon	-	stng	chl, ser, ep carb, (loc cly)	-	-	-	-	loc ep loc alb (chl)	chl ser carb (loc cly) ep	chl	-	-	-	cpy pyr	mod		Decrease in perv primary mineralization. Guichon, slightly less comp than above, local strong silicification. Dominant fract sets at 10 & 35° C.A.
223.4-227.0	Guichon	-	wk	ser, chl	carb in fract	-	-	-	alb	ser chl carb loc ep	chl ser	-	-	(cpy) (pyr)	pyr	mod		Weak cpy and pyr with mafics. Guichon, pink mottled throughout interval. Slip surface fracts coated with ser, chl, carb w/ diss pyrite, with very min diss cpy (tr) and pyr in mafic 225.4- Aplite dklt shatt, at 70°C.A.. Fracts contain pyrite.

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
227.0-231.0	Guichon		mod	chl, ser	chl 1 cm sulph, ser chl at 20° C.A. others at 70° chl/ ser wk min	-	-	-	patchy alb	ser chl (patchy ser)	chl (ser)	-	-	(pyr) wk	pyr (cpy?)	mod	Guichon, pink mottled throughout. Fract system at 20° C.A., pyr ser, chl. Possibly cpy? with carb strongest min on 20° C.A. set.	
231.0-234.7	Guichon (Hybrid?) loc mafic rich		wk	ser, chl carb	chl 1 cm Sx, ser, chl at 20° C.A. at 70° chl/ ser more min than abv	-	-	-	patchy alb	ser chl carb ep	chl (ser)	-	-	wk pyr	pyr	mod	Strongest pyr on 20° C.A. frags. Guichon, pink mottled throughout, some variation in grain size, becoming finer towards base of interval. Aplite, 1 cm & 2 cm, both premineral	
234.7-236.6	Guichon/ Hybrid mafic rich		wk	chl, ser, carb	carb vnlt at 20° C.A. chl selv Sx at 70° C.A.	-	-	-	-	(chl) ser carb	chl (ser)	-	-	(tr pyr) (tr cpy)	pyr	mod	Strongest pyr on 20° C.A. frags. Guichon/Hybrid, fine grained, 2 mafic size pops, scatt coarser in more abd finer grained, probably xenolith. Weakly mineralized carb, chl, ser wk min carb, chl, ser.	
236.6-238.3	Guichon		wk at top, stng to bkn at bottom	chl, ser carb	fract sets 70 & 20° at top becom'g closer & at 30° at base	-	-	-	-	(chl) ser carb (ep)	chl ser	-	(hem)	(tr pyr) (cpy?)	pyr	mod	Strongest pyr on 30° C.A. frags. Guichon, pink mottled, medium grained, minor albite impreg along distorted fract fillings. Diss pyr in feldspar and mafics. One speck cpy associated with mafics.	
238.3-242.5	Guichon		stng to bkn loc ckle	chl, ser, carb	carb vnlt & chl ser carb pyr	loc hem stn alb	-	-	patchy alb (loc ep)	(chl) ser carb (ep)	chl	-	(hem)	(tr pyr) (cpy?)	pyr	mod	Strongest pyr on 30° C.A. frags. Lightly ckled. Guichon, grey/pink mottled, mod to strong mafic, local bleaching, more silicious, more abundant min, diss pyr (cpy) (minute hem?) 241.7 m aplite, 2 cm, ep below, displaced. Premineral. Phenos locally ghost-like.	
242.5-246.2	Guichon		mod/loc stng to bkn	chl, ser carb, (cly)	carb to 3 mm at 20 & 70° C.A. pyr, ser, chl, selv	-	-	-	(ser) (loc chl) patchy ep	ser (chl) carb (cly) ep	chl	-	-	(pyr maf)	pyr	mod	Guichon, locally contaminated by fine grained Hyb 40-50 cm bleached, sericitized, contains ep. Slip surfaces on 20° frags.	
246.2-250.2	Guichon/ Hybrid? loc mafic rich	loc stng	stng/int loc dis bx	chl, ser, carb, loc cly	carb, var angles, commonly at 20° C.A.	(hem) loc	hem	-	chl ser	chl ser carb loc cly	-	-	-	pyr (cpy)	pyr	wk	Pyrite bleb (seahorse). Bleached diss cpy locally. Very weak cpy. Guichon grading to Hybrid at top. May be very strongly altered Porphyry? Hybrid dyke 247.5-247.9 m gouge at ~ 20° C.A. thickness > 4.0 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
250.2-253.3	Hybrid?/Poss porphyry dyke	loc stng	stng/mod	chl, cly carb ser	carb vnits µvn at 20 & 50° C.A.	-	(Fe)	-	chl ser carb	chl ser cly	-	-	-	pyr (cpy)	pyr (cpy)	wk	Hybrid, strong chl, ser, some carb perv as well as in fract. 250.2-250.7 m gouge, diss (pyr) 252.0 m gge, diss (pyr). This interval may be very strongly altered porphyry with Guichon xenoliths.	
253.3-257.1	Hybrid/loc Guichon Hybrid	loc	wk/mod loc stng	ser, chl, carb, cly	carb vnits &impreg at 50° C.A.	-	-	-	chl ser carb	chl ser carb	chl ser	-	-	(cpy) (pyr) (hem)	pyr	wk/ mod	Hybrid with loc Guichon/Hybrid intervals, strong chl/ser. Strong carb locally.	
257.1-261.5	Hybrid/ loc Guichon Faut zone	intermittent	stng/int	ser, chl, carb (hem) cly	carb vnits microvnits w/ (pyr)	loc hem	hem	-	chl ser carb loc cly	chl ser carb cly	-	(hem)	-	(pyr)	pyr cpy	wk	Cpy in gouge. Hybrid- strong chl/ser/cly/carb perv as well as on fract. 257.6-258.0 m gouge-shear at 40° C.A. 259.7-260.2 m gouge 260.7-261.3 m gouge/shear at 40° C.A. with bleb of pyr, diss pyr.	
261.5-263.7	Hybrid/ Guichon/ Bethlehem	(loc)	mod/stng	chl,ser (cly) (loc)	carb vnits 0.5 cm at 40 & 50° w/ K-spar diff	-	-	-	(ep) ser loc chl (carb) K-sp	(ep) ser chl carb	chl ser	-	-	(pyr) (cpy)	pyr (cpy)	wk	Very weak pyr, trace cpy. Guichon/Bethlehem appears to be an intermingling of phases, Guichon/Hybrid/Bethlehem	
263.7-266.4	Porph/WB/ Bethlehem	-	stng bkn	ser, (chl) (carb)	carb microvnt	-	-	-	chl ser	(chl) ser carb	chl ser	-	-	(pyr) (cpy)	pyr (cpy)	-	Very finely diss sulphides. Pyr>>>cpy. Bethlehem related.	
EOH 266.4 m																		

Northing: 5604057.5			DDH 95-7B				Azimuth: 045		
Easting: 641509.0			Elevation: 1757.0 m				Inclination: -45		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
15974	12.4	13.9	0.05	0.03	-	-	-	-	Fault Zone
15975	13.9	15.4	0.10	0.05	-	-	-	-	"
15976	15.4	16.9	0.06	0.04	-	-	-	-	"
15977	16.9	18.4	0.07	0.05	-	-	-	-	"
15978	18.4	19.9	0.04	0.02	-	-	-	-	"
15979	19.9	21.4	0.09	0.03	-	-	-	-	"
15980	21.4	22.9	0.05	0.03	-	-	-	-	"
15981	22.9	24.4	0.04	0.03	-	-	-	-	"
15982	24.4	25.9	0.05	0.03	-	-	-	-	"
15983	25.9	27.4	0.40	0.24	-	-	-	-	"
15984	27.4	37.9	0.38	0.23	-	-	-	-	No recovery to 37.2
15985	37.9	39.4	0.65	0.53	-	-	-	-	Hybrid
15986	39.4	40.9	0.73	0.60	-	-	-	-	"
15987	40.9	42.4	0.77	0.67	-	-	-	-	"
15988	42.4	43.9	0.71	0.62	-	-	-	-	"
15989	43.9	45.4	0.84	0.74	-	-	-	-	"
15990	45.4	46.9	0.97	0.85	-	-	-	-	Guichon/Hybrid
15991	46.9	48.4	1.09	0.96	-	-	-	-	"
15992	48.4	49.9	0.88	0.77	-	-	-	-	"
15993	49.9	51.4	1.10	1.06	-	-	-	-	"
15994	51.4	52.9	0.71	0.63	-	-	-	-	Guichon
15995	52.9	54.4	0.93	0.83	-	-	-	-	"
15996	54.4	55.9	0.72	0.57	-	-	-	-	"
15997	55.9	57.4	0.44	0.33	-	-	-	-	"
15998	57.4	58.9	0.38	0.21	-	-	-	-	"
15999	58.9	60.4	0.54	0.45	-	-	-	-	"
16000	60.4	61.9	0.66	0.59	-	-	-	-	"
16001	61.9	63.4	0.34	0.27	-	-	-	-	"
16002	63.4	64.9	0.80	0.63	-	-	-	-	"
16003	64.9	66.4	0.88	0.70	-	-	-	-	"
16004	66.4	67.9	0.62	0.46	-	-	-	-	"
16005	67.9	69.4	1.40	1.38	-	-	-	-	"
16006	69.4	70.9	2.05	2.00	-	-	-	-	"
16007	70.9	72.4	0.97	0.96	-	-	-	-	Guichon
16008	72.4	73.9	0.78	0.70	-	-	-	-	"
16009	73.9	75.4	0.92	0.84	-	-	-	-	"
16010	75.4	76.9	0.68	0.67	-	-	-	-	"
16011	76.9	78.4	0.62	0.60	-	-	-	-	"
16012	78.4	79.9	0.60	0.58	-	-	-	-	"
16013	79.9	81.4	0.62	0.59	-	-	-	-	"
16014	81.4	82.9	0.70	0.71	-	-	-	-	"
16015	82.9	84.4	0.86	0.83	-	-	-	-	"
16016	84.4	85.9	0.82	0.80	-	-	-	-	"
16017	85.9	87.4	0.80	0.79	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16018	87.4	88.9	0.95	0.93	-	-	-	-	"
16019	88.9	90.4	1.07	1.06	-	-	-	-	"
16020	90.4	91.9	0.59	0.56	-	-	-	-	"
16021	91.9	93.4	0.45	0.45	-	-	-	-	"
16022	93.4	94.9	0.65	0.63	-	-	-	-	"
16023	94.9	96.4	0.57	0.53	-	-	-	-	"
16024	96.4	97.9	0.48	0.46	-	-	-	-	"
16025	97.9	99.4	0.44	0.43	-	-	-	-	"
16026	99.4	100.9	0.52	0.51	-	-	-	-	"
16027	100.9	102.4	0.55	0.53	-	-	-	-	"
16028	102.4	103.9	0.54	0.52	-	-	-	-	Guichon/Fault Bx
16029	103.9	105.4	0.47	0.43	-	-	-	-	"
16030	105.4	106.9	0.72	0.64	-	-	-	-	"
16031	106.9	108.4	0.55	0.51	-	-	-	-	"
16032	108.4	109.9	0.72	0.70	-	-	-	-	DIK Porphyry
16033	109.9	111.4	0.99	0.99	-	-	-	-	"
16034	111.4	112.9	1.14	1.10	-	-	-	-	"
16035	112.9	114.4	0.93	0.86	-	-	-	-	"
16036	114.4	115.9	0.92	0.88	-	-	-	-	"
16037	115.9	117.4	0.81	0.74	-	-	-	-	"
16038	117.4	118.9	0.65	0.55	-	-	-	-	"
16039	118.9	120.4	0.67	0.57	-	-	-	-	"
16040	120.4	121.9	0.65	0.61	-	-	-	-	"
16041	121.9	123.4	0.62	0.56	-	-	-	-	Hybrid/Porphyry
16042	123.4	124.9	0.48	0.43	-	-	-	-	"
16043	124.9	126.4	0.42	0.36	-	-	-	-	"
16044	126.4	127.9	0.46	0.39	-	-	-	-	"
16045	127.9	129.4	0.39	0.26	-	-	-	-	Guichon/Hybrid
16046	129.4	130.9	0.59	0.47	-	-	-	-	"
16047	130.9	132.4	0.63	0.54	-	-	-	-	"
16048	132.4	133.9	0.57	0.43	-	-	-	-	"
16049	133.9	135.4	0.67	0.64	-	-	-	-	"
16050	135.4	136.9	0.54	0.48	-	-	-	-	"
16051	136.9	138.4	0.45	0.41	-	-	-	-	"
16052	138.4	139.9	0.65	0.58	-	-	-	-	"
16053	139.9	141.4	0.96	0.91	-	-	-	-	"
16054	141.4	142.9	0.73	0.72	-	-	-	-	Guichon/Hybrid
16055	142.9	144.4	1.22	1.20	-	-	-	-	"
16056	144.4	145.9	0.86	0.83	-	-	-	-	"
16057	145.9	147.4	0.43	0.36	-	-	-	-	"
16058	147.4	148.9	0.50	0.47	-	-	-	-	Fault Zone
16059	148.9	150.4	0.50	0.45	-	-	-	-	"
16060	150.4	151.9	0.52	0.49	-	-	-	-	"
16061	151.9	153.4	0.60	0.57	-	-	-	-	"
16062	153.4	154.9	0.53	0.43	-	-	-	-	"
16063	154.9	156.4	1.04	0.10	-	-	-	-	"
16064	156.4	157.9	0.76	0.03	-	-	-	-	Guichon/Hybrid

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16065	157.9	159.4	0.82	0.02	-	-	-	-	"
16066	159.4	160.9	0.65	0.01	-	-	-	-	"
16067	160.9	162.4	0.77	0.01	-	-	-	-	"
16068	162.4	163.9	0.95	0.01	-	-	-	-	"
16069	163.9	165.4	0.49	-	0.6	0.02	<5	0.004	"
16070	165.4	166.9	0.56	-	1.4	0.04	<5	0.014	"
16071	166.9	168.4	0.64	-	2.7	0.08	<5	0.005	"
16072	168.4	169.9	0.66	-	1.6	0.05	<5	0.004	"
16073	169.9	171.4	0.64	-	1.2	0.04	5	0.024	"
16074	171.4	172.9	0.97	-	0.8	0.02	<5	0.006	"
16075	172.9	174.4	0.87	-	0.5	0.02	<5	0.006	"
16076	174.4	175.9	0.17	-	0.4	0.01	<5	0.001	"
16077	175.9	177.4	0.33	-	0.7	0.02	<5	0.004	"
16078	177.4	178.9	0.25	-	0.6	0.02	<5	0.002	"
16079	178.9	180.4	0.21	-	0.4	0.01	<5	0.001	"
16080	180.4	181.9	0.21	-	<.1	0.01	15	0.001	"
16081	181.9	183.4	0.34	-	<.1	0.01	15	0.002	Grey Porphyry
16082	183.4	184.9	0.35	-	<.1	0.01	35	0.006	"
16083	184.9	186.4	0.27	-	<.1	0.01	10	0.003	"
16084	186.4	187.9	0.22	-	<.1	0.01	15	<.001	Guichon/Fault Zone
16085	187.9	189.4	1.03	-	<.1	0.01	20	0.003	Guichon/Hybrid
16086	189.4	190.9	0.78	-	<.1	0.01	15	0.002	"
16087	190.9	192.4	0.25	-	<.1	0.01	<5	0.001	"
16088	192.4	193.9	0.22	-	<.1	0.01	20	0.002	"
16089	193.9	195.4	0.19	-	<.1	0.01	<5	0.002	Guichon
16090	195.4	196.9	0.05	-	<.1	0.01	<5	<.001	"
16091	196.9	198.4	0.10	-	0.2	0.01	20	<.001	"
16092	198.4	199.9	0.07	-	0.2	0.01	<5	<.001	"
16093	199.9	201.4	0.06	-	<.1	0.01	<5	0.002	"
16094	201.4	202.9	0.07	-	<.1	0.01	<5	<.001	"
16095	202.9	204.4	0.04	-	0.2	0.01	<5	0.001	"
16096	204.4	205.9	0.04	-	0.2	0.01	<5	<.001	"
16097	205.9	207.4	0.08	-	0.1	0.00	<5	<.001	"
16098	207.4	208.9	0.08	-	0.3	0.01	10	<.001	"
16099	208.9	210.4	0.11	-	0.2	0.01	<5	<.001	"
16100	210.4	211.9	0.06	-	0.4	0.01	<5	<.001	"
16101	211.9	213.4	0.10	-	0.3	0.01	<5	0.001	Guichon
16102	213.4	214.9	0.07	-	0.2	0.01	10	0.001	Pink Porphyry
16103	214.9	216.4	0.06	-	0.1	0.00	15	0.001	Guichon
16104	216.4	217.9	0.08	-	0.3	0.01	10	0.001	"
16105	217.9	219.4	0.20	-	0.2	0.01	5	0.002	"
16106	219.4	220.9	0.06	-	0.4	0.01	<5	<.001	"
16107	220.9	222.4	0.10	-	0.3	0.01	5	<.001	"
16108	222.4	223.9	0.06	-	0.3	0.01	<5	<.001	Guichon
16109	223.9	225.4	0.09	-	0.2	0.01	10	0.004	"
16110	225.4	226.9	0.21	-	0.5	0.02	5	0.002	"
16111	226.9	228.4	0.10	-	0.4	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							
16112	228.4	229.9	0.18	-	0.4	0.01	30	<.001	"
16113	229.9	231.4	0.09	-	0.2	0.01	<5	<.001	"
16114	231.4	232.9	0.16	-	0.4	0.01	<5	<.001	"
16115	232.9	234.4	0.11	-	0.2	0.01	15	<.001	"
16116	234.4	235.9	0.11	-	0.2	0.01	5	0.001	"
16117	235.9	237.4	0.09	-	0.4	0.01	15	0.001	"
16118	237.4	238.9	0.11	-	0.3	0.01	10	<.001	"
16119	238.9	240.4	0.11	-	0.3	0.01	10	<.001	"
16120	240.4	241.9	0.13	-	0.4	0.01	15	0.003	"
16121	241.9	243.4	0.10	-	<.1	0.01	25	<.001	"
16122	243.4	244.9	0.10	-	0.3	0.01	15	0.001	"
16123	244.9	246.4	0.11	-	0.2	0.01	20	0.001	"
16124	246.4	247.9	0.45	-	0.2	0.01	<5	<.001	Hybrid
16125	247.9	249.4	0.33	-	<.1	0.01	<5	0.001	"
16126	249.4	250.9	0.51	-	<.1	0.01	<5	<.001	"
16127	250.9	252.4	0.21	-	0.2	0.01	20	<.001	"
16128	252.4	253.9	0.16	-	0.2	0.01	<5	<.001	"
16129	253.9	255.4	0.08	-	0.3	0.01	<5	<.001	"
16130	255.4	256.9	0.13	-	0.3	0.01	<5	<.001	"
16131	256.9	258.4	0.15	-	0.4	0.01	<5	0.005	"
16132	258.4	259.9	0.08	-	0.3	0.01	<5	0.002	"
16133	259.9	261.4	0.07	-	0.1	0.00	<5	<.001	"
16134	261.4	262.9	0.03	-	<.1	0.01	<5	0.001	"
16135	262.9	264.4	0.02	-	<.1	0.01	<5	<.001	"
16136	264.4	266.4	0.06	-	<.1	0.01	<5	0.002	"
end of hole									
>> sample 15984 interval 27.4 to 37.9 m : no recovery from 27.4 to 37.2 m !!									
>>sample 16080A : regular split									
>>sample 16080B: small sample for ICP									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.												
DDH #	DH95-8	Date	22-Aug	Logged by	VN PM	Elevation	1755.1 m	Azimuth	-	Northing:	5604108.9	Inclination	-90	Length	182.9 m	Easting:	641528.8	MAG.		FL		REMARKS
ROCK TYPE		FAULT	STRUCTURE		STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS						
interval (m)	GOUGE	INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary									
								perv.	fract.		perv	fract	perv	fract								
24.4-27.4	Guichon/Hyb	-	stng/bkn chl _r ,ser loc cly	-	-	Fe, hem jar	Fe, cly	chl _r (ser)	chl _r ser loc cly (ep?)	-	-	-	-	-				Strong Fe stain in fract. Guichon/Hybrid stng fractured, closely spaced subparallel fract. at 50-60° C.A. with strong Fe stain.				
27.4-29.6	fault zone	27.4-29.6m	gge cly, ser, chl _r	-	loc Cu- grn ser	Fe, hem	Fe	chl _r ser cly	chl _r ser cly	-	-	chrys	-	-				Fault gouge/breccia with weak loc Cu stain. Fault gouge/breccia clasts to 3.0 cm				
29.6-31.9	Bethlehem	loc 30.9m	mod/ckle chl _r ,ser, loc cly (loc carb)	qtz~1.0cm at 90° C.A. loc carb microvns	-	Cu-grn ser, Fe	(Fe) cly	(loc ser chl _r)	chl _r ser loc cly	chl _r (ser)	loc chrys in mat	-	-	chrys	-	wk	Chrys, perv in breccia matrix. Bethlehem, with short interval of Guichon. Mod fractured to ckle. Nearly all fractures with chrys.					
31.9-34.0	Bethlehem/ Guichon	-	mod/stng chl _r ,ser	qtz vns + vnlts to 1cm at 50° C.A.	-	hem, jar Cu-grn ser (Mn)	Fe, cly	chl _r ser	chl _r ser	-	-	chrys turq?	-	-				Possible Turquoise. Much harder than chrys (bright blue). Bethlehem/Guichon mod to strong fract with strong Fe stained (Bethlehem to 33.0 m. Guichon 33.0-34.0 m)				
34.0-36.0	Guichon	-	stng/bkn wk ckle chl _r ,ser (carb)	-	-	hem jar Cu-grn ser (Mn)	Fe, cly	chl _r ser	chl _r ser (carb)	-	-	(chrys)	-	-	wk		Very strong Fe stain on fract. Fe in alt env on fract. As above with greater fract intensity and stronger Fe stain.					
36.0-37.3	Guichon	loc 36.4m	as abv cly,chl _r , ser, (carb)	qtz at 90° C.A. <1 cm, ckle	Cu-grn ser	(Cu-grn ser) Fe, (Mn)	Fe, cly	chl _r ser	chl _r ser (carb) loc cly	-	Cu- grn ser	chrys turq?	-	-	tr		Possible H ₂ SO ₄ test on perv Cu. Local strong green Cu-stain perv. Guichon strongly fractured and bkn to ckle. Check for turquoise!! - quite hard (more than chrys) and blue.					
37.3-39.4	Guichon	loc 38.4m	bkn/shatt loc gge ser,chl _r (carb) cly	qtz ~1cm at 20° C.A.	loc Cu- grn ser	Fe (Mn) (Cu-grn ser)	Fe, cly	ser (chl _r)	ser chl _r ,cly (carb)	-	loc Cu grn. chrys?	chrys	-	-	tr		Perv. Cu (green stain) possible H ₂ SO ₄ . Strongly fractured with weak perv Cu as in previous interval. Pink porphyry dyke ~ 15 cm at 38.3 m. See					
39.4-41.2	Guichon fault zone	40.2-40.8m	shatt/gge ser, chl _r (carb) cly	-	loc Cu- grn ser	Fe, (Mn) (Cu grn ser)	Fe, cly	ser (chl _r) (loc ep)	ser chl _r (carb) cly (ep)	-	loc Cu grn chrys?	(chrys) turq?	-	-			Very strong Fe stain. Check for turquoise!! Guichon, strong Fe (hem) stained fract. give positive H ₂ SO ₄ Cu test! Shear surface 40.2 at 20° C.A. Possible turq? on fract.					

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			
41.2-42.7	Guichon fault zone	loc	shatt/loc gge	ser, chlr, cly (carb)	-	loc Fe	stng Fe	Fe, cly	ser chl	ser chl	-	-	-	-	-	-	-	Fe as above. Pos. sulfuric acid test on Fe stained fracts. As above: hem stain gives weak pos H ₂ SO ₄ Cu test.
42.7-44.7	Guichon	-	bkn/shatt	ser, chlr, cly (carb)	-	loc Fe	stng Fe	Fe, cly	as abv	ser chl (carb) cly	-	-	-	-	-	-	tr	As above.
44.7-46.2	Guichon	-	stng/loc shatt	carb, ser chl, loc cly	qtz 1.0cm at 70° C.A. open spaces	loc Fe	stng Fe (Cu-grn ser)(Mn)	Fe, cly	ser chl loc ep	(carb) ser chl loc cly	-	(hem)	(chrys)	-	-	-	-	Weak ep associated with fracts. As above Strongest Fe stain on 80-90° C.A. fractures, at times forms a 1-2 mm coating giving wk positive Cu test. Chalc with secondary hem
46.2-48.4	Guichon	-	stng	carb, ser, chl, loc cly	chrys vnlt	loc Fe	Fe, Cu- grn ser (Mn)	Fe, cly	loc ser + chl ep (cly)	chl ser loc cly	chl (ser)	loc chrys cup? (hem)	chrys turq?	-	-	-	tr	Blebs of ep associated with fracts. Strong chrys in fracts. Check for turquoise. Check for cup. Strong chrys also as veinlets. Chalc with secondary hem
48.4-49.9	Guichon	loc	mod	ser, chl, loc cly	-	loc Cu- grn, Fe	Fe, Mn as dend	Fe, cly	chl ser (cly)	ep ser chl loc cly	chl ser	loc turq? Cu- grn ser	chrys	-	-	-	tr	Positive H ₂ SO ₄ on perv Cu staining. Broad diffuse Fe stained env around fracts, give at times, perv Fe stain. Pale blue-green pervasive staining gives pos H ₂ SO ₄ Cu test Strong chrys and turq? on fracts. Guichon
49.9-52.3	Guichon	-	stng/bkn	chl, ser loc cly	chrys vnlt 1-2mm	Fe loc Cu- grn	(Mn)Fe	Fe, cly	loc ep? ser (cly)	(chl) ser loc cly	-	loc chrys	chrys turq?	-	-	-	-	Strong fractured/broken, strong Fe stain, loc perv, pale blue-green perv Cu stain with chrys veinlets!!
52.3-53.3	Guichon	loc	stng/shaqt loc dis bx	loc cly ser, (chl)	-	loc Fe Cu-grn	stng Fe Cu-grn ser (Mn)	-	(chl) ser	loc cly chl ser	-	Cu-grn ser chrys?	chrys	-	-	-	-	Mn dendrites. May be Guichon. Strong diffuse Fe stain and alt obscures rock texture. Probably lost Cu bearing bx matrix and Cu bearing gouge.
53.3-54.9	Guichon	-	stng/ckle	ser, chl loc cly	chrys, micro vns at var angles	loc Fe Cu grn	stng Fe Cu grn ser, (Mn)	-	(chl) ser	loc cly chl ser	-	loc chrys	chrys	-	-	-	-	Dominant fracture ser at ~ 90° C.A. Minor fracts at 30°, equally Fe stained.
54.9-57.4	Guichon/ Hybrid? fault zone	loc	fault bx/gge	cly, ser, chl (carb)	qtz vn frags to 2 cm in gge coated w/ chrys	loc Cu (loc Fe)	Cu-grn ser Fe	-	ser chl loc cly	cly ser chl	-	loc chrys	chrys	(chalc?) (cpy?)	-	-	tr	Chrys in fracts and as veinlets. Chlr/ser, generally fine/very fine grained, 56.7-57.3 m gouge. Local strong Cu stained ser, chrys
57.4-59.3	Hybrid/ Guichon	loc	fault bx, loc gge, loc ckle bx	cly, ser, chl, (carb)	qtz v remn 0.5 cm at 80° C.A. Fe stn env	Fe, grn Cu stn ser	jar/hem Cu stn ser	-	ser chl loc cly	ser chl cly (carb)	-	loc chrys	chrys	-	-	-	-	Strong pervasive ser 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			
59.3-61.0	Guichon/ Hybrid		stng ckle bx bkn, sets of fracts at 60° & 0-10° C.A. Fe & chrys	ser, chlr, cly	qtz 1 cm at 60° C.A., scatt qtz vnit frags	Fe grn Cu stn Mn	Fe Mn grn Cu	ser chl (cly)	ser chl (cly)		loc chrys	chrys				Guichon/Hybrid, continuous bleached with perv- asive chrys stained ser.	
61.0-62.3	Guichon/ Hybrid?	loc	ckle/bkn	cly loc, ser (chl)	qtz v frags to 0.5 cm	loc Fe chrys in loc ser	Fe chrys (Mn)	ser chl	ser (chl) (cly)		chrys loc	chrys				Guichon/Hybrid, strong bleached locally, local chl groundmass. May be fined grained xenolith or porphyry dyke?? Alteration too intense to be certain.	
62.3-63.9	Guichon/ Hybrid fault zone	stng gge	int gge	cly, ser, (chl)		Fe	Fe, (Mn) Cu grn	ser chl	ser (chl) cly		chrys (loc ser)	chrys				Hybrid with strong bleached Guichon. Guichon /Hybrid fault zone	
63.9-66.0	Hybrid?	loc gge	stng/int/bkn	ser, cly (chl)	qtz to 1cm ~80 + ~30° C.A. qtz- chrys vugs	Fe Cu grn blue Cu	Fe(Mn) Cu grn blue Cu	ser chl	ser (chl) (cly)		chrys (loc ser)	chrys				Note bright yellow efflorescence. (ferrimolybdite)	
66.0-69.5	Hybrid/ Guichon?	loc gge	ckle/dis bx at top sets at 20, 50, + 70° C.A.	(chl) cly ser, wk carb	qtz frags in bx & vnits at 60° C.A. Ckled chrys	(loc Fe) chrys in loc ser ser	Fe(Mn) Cu in ser grn & blue	ser chl	ser (carb) (chl)		chrys (loc ser)	chrys w/ Fe stain envel efflor.				Chrys forms minute veinlets with Fe stain envelope. Pale bluish white efflorescence on fracts. Chrys loc with ser, chrys on fracts and in quartz veins, frags	
69.5-73.6	Hybrid/ Guichon?		mod/loc ckle/dis bx	ser chl (cly)	qtz at 20- 70° C.A. 1 cm	Fe grn Cu w/ ser	Fe grn & blue ser in fracts (Mn)	ser chl (loc cly)	ser (chl) (cly)		chrys (loc ser) tr NCu	chrys				Pale bluish white efflorescence on fracts. Possibly crushed and healed section.	
73.6-77.4	Hybrid/ Guichon?	loc	ckle/dis bx	(carb), ser (chl) cly	qtz frag to 2 cm qtz at 60° C.A. 2 cm chl	loc Fe loc-grn Cu ser	grn & blue-Cu stained ser Fe (Mn)	ser chl	(carb) ser (chl) cly		chl (loc ser)	chrys	(chalc)			Pale blue-white efflorescence. H ₂ SO ₄ +ve strong. Strong fract perv Fe stain. Guichon/ Hybrid strongly altered throughout. Strong local perv Cu!! Qtz vein contains chrys. A few partially assimilated xenoliths (mafic)	
77.4-80.7	Guichon/ Hybrid? fault zone	79-79.4 m	stng/int	cly/ser (chl) carb	carb vnits at 20+30° qtz at 70° 1cm ckled	Cu-grn ser loc Fe	Fe (Mn)	ser chl (carb) (loc cly)	cly ser (chl) carb		loc grn Cu	chrys	(chalc)			Loc Bot chrys on fracts. Fract set at 50 and 70° C.A. Strongly fract Guichon/Hybrid, loc perv Fe stained loc strong ser alt and chl A few partially assimilated xenoliths.	
80.7-84.0	Guichon/ Hybrid?	loc 83.5 m	stng/bkn loc	loc cly, chl ser, carb-loc	carb vnits qtz vnits at 40-80°	loc Fe loc Cu grn ser	Fe, Cu grn ser (Mn)- spots	ser chl loc- (carb)	loc cly chl, ser (loc carb)		loc Cu grn ser loc ep?	chrys	(chalc)			Pale blue-efflorescence. ASSAY FOR Mo Loc strong bleach perv/ser possible FeMo on fract (ferrimolybdite)	

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			
84.0-87.8	Guichon/ (Hybrid?)	loc	mod/stng ckle	loc cly, carb ser, (chlr)	carb vnlt at 30 & 40° C.A.	loc Fe loc Cu grn ser loc mo- yellow	Fe Mn	-	ser loc chlr carb	ser (loc chlr)	-	loc Cu grn ser loc Fe-Mo yellow	chrys Fe-Mo?	(chalc) (cpy)	(chalc)	-	-	Carb perv in Hybrid, not in Guichon. Assay for mo Bright yellow on fracts. Very strong loc Fe on fract 1 cm wide (thick) at 20° C.A. Fract set at 20, 40 and 50° C.A. Local prominent cpy and chalc (cpy as intergrowths) on fracts.
87.8-91.9	(Hybrid?)/ Guichon	-	mod/stng	(chlr) cly? carb, ser	qtz at 50- 80° C.A. up to 1 cm ckle	Fe loc grn Cu ser	Mn Fe	-	carb ser chlr loc cly	(chlr) cly? carb ser	-	loc chrys	chrys	(chalc) (cpy)	(chalc)	-	-	Bot chrys on fract on strong Cu mineralization. Very strong loc Fe on fract 1cm wide at 20° C.A. Some slip perpendicular to core axis. Very fine grained dissp chalc.
91.9-95.8	Guichon/ (Hybrid?)	loc	mod/stng loc diss bx	carb, ser (chlr) cly	20-50-70° C.A. qtz at var < 2 cm	loc-gn Cu ser Fe	Cu grn ser Mn Fe	-	chlr ser carb cly	carb ser (chlr) cly	-	loc chrys loc Mn?	chrys FeMo	(chalc) (cpy)	(chalc) (cpy)	-	-	Loc concentration of black spots perv (Mn)? ASSAY FOR Mo. Some slip on fract surfaces. Fract set - 40 & 30° C.A. Qtz ckle and contains chrys.
95.8-99.7	Hybrid? fault zone	97.0-97.8 m and loc	stng loc int	ser, chlr carb, cly	qtz and carb vnlt and frags	loc -Fe grn-Cu ser Mn	Fe	-	ser chlr loc carb (cly)	ser chlr cly carb	-	loc chrys	chrys	(chalc) (cpy)	-	-	Strong loc chrys. Frac set-40 and 50° C.A. Strong chlr, ser alteration, loc strong Fe stain. Loc fault bx, strong loc perv chrys.	
99.7-103.7	Guichon	loc 0.5 cm	mod	ser,(chlr) cly-loc carb	qtz at 30 & 60° C.A. <1.5 cm, ckle & open spaces	loc Fe	Fe,Mn Cu-grn ser	-	ser chlr	ser (chlr) loc cly carb	-	(chrys)	chrys	-	-	-	-	Decrease in Cu min in general. Generally strongly bleached and strong perv ser alt with strong local fract set 30 and 60° C.A.
103.7-106.4	Guichon/ (Hybrid?)	loc 104.0 m	stng/bkn loc ckle	ser,(chlr) loc cly, carb	carb micro vns & vnlt qtz at 20- 90° C.A. up to 0.5 cm	loc Fe (loc Cu grn ser)	Mn,Fe Cu grn ser	-	ser chlr carb	ser chlr carb loc cly	-	loc chrys cup?	cup chrys (mal)	(cpy)	-	-	Chlr strong patches. Check for NCu. Patchy strong chlr, ser alt, strong Fe in fract with Hem stain. Fract set 30-90° C.A. Locally fine grained--may be porphyry or xenoliths; alteration too strong to be certain.	
106.4-109.4	Guichon	-	wk/mod	(carb)(chlr) ser (cly)	qtz at 70 and 20° C.A. < 1cm vuggy	loc Fe	Fe, Mn Cu grn ser	-	ser chlr carb	carb (chlr) ser (cly)	-	loc chrys	chrys cup NCu (mal)	(chalc)	cpy	-	-	Diss cpy. Quartz veining carries chrys. Sample flagged with cpy and chalcocite ~ 108.6 m Very small acicular bundles of mal on fracts.
109.4-111.4	Hybrid/ Guichon	loc 60° C.A. at 111.2 m 2 cm	stng/bkn int	ser, chlr carb	qtz at 60° C.A. 0.5 cm ckle, open spaces	loc Fe	Fe,Mn dend. Cu grn ser	-	ser chlr carb	ser chlr carb	-	cup? loc	NCu cup chrys- loc	-	-	-	-	Strong NCu on fracts--Loaded. Quartz vein carries NCu. NCu ZONE -gouges stained red-appear to be a shatter zone-crushed. Increasingly red with depth. At 112.0 m strong transition out of primary.
112.0-115.1	Hybrid	loc 113.2 m 1 cm at 50° C.A.	stng/bkn	cly ser carb (chlr)	carb vnlt	loc hem/ jar stn alb	Fe (Mn)	-	ser chlr loc carb	cly ser chlr? carb	-	-	-	cpy with mafic (chalc)	tr	-	Patchy purple hematitic stain. H ₂ SO ₄ negative, but if NCu would not coat nail. Check for minute diss NCu. Possible partially assimilated xenolith	

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			
115.1-119.1	Hybrid w/ min ep	loc 117-117.5 m	stng/int	cly, ser carb,chl	carb vnits qtz 2.5 cm at 50° C.A. 1 cm at 70° C.A. ckled	loc Fe splotches	Fe	-	chl ser carb loc ep	chl ser carb cly	-	-	-	pyr? (cpy) (hem)	cpy	mod	Very fine diss pyr? Cpy with mafics and carb/qtz veinlets. <u>Cpy>pyr</u> . Core shows patchy diffuse purplish red hematite(?) splotches. These could contain NCu which w/H ₂ SO ₄ will not coat iron!! Negative results w/H ₂ SO ₄ - Check for NCu - assays!!! Hematite as minute grains diss in rock matrix in purplish blotches.
119.1-122.8	Hybrid/ Guichon	-	stn/bkn loc shatt	chl, ser carb loc cly	carb vnits qtz to 1cm at 50 & 70° C.A. Stkww	loc Fe splotches	Fe splotches	-	chl ser carb cly?	chl ser loc cly carb	-	-	-	cpy blebs with chl	cpy (chalc) (mo)	mod	Blebs cpy with loc con chl. Guichon/Hybrid strong chl in Hybrid, cpy assoc chl rich blebs. Aplite veinlet. Blue tarnish on chalc-digenite?
122.8-126.5	Hybrid/ Guichon	loc	stng/int w/ loc comp crushed/ sheared cpy rich section	ser, cly (chl) carb	qtz v frag to 2 cm	loc hem stn ser & chl	-	-	chl ser carb cly?	(chl) ser carb loc cly	-	-	-	cpy cpy	cpy mod	Strong cpy in ckle. Crushed 124.9-126.0 m. Hybrid/Guichon ; not as intensely sericitized, scatt coarse clusters cpy in loc crushed/shatt zones with carbonate/sheared. 124.9-126.0 Crushed/shatt, coarse cpy clusters ~ 1+ % Cu.	
126.5-130.0	Hybrid/ (Guichon)	loc gge at 40° C.A.	mod/stng loc crushed	ser, chl cly, carb	qtz & carb vnits var orientation	loc hem stn ser/ chl	-	-	chl ser carb (loc ep)	ser carb chl cly	-	-	-	cpy cpy qtz vnits	cpy mod	Hybrid/Guichon. No strong concentration of cpy as interval above.	
130.0-134.9	Hybrid/ Guichon	loc gge at 140 1cm	stn bkn	ser, chl (cly) carb	qtz vn frag qtz vn<1cm at 45° C.A. carrying cpy	-	(loc Fe jar)	-	chl ser	ser,cly carb chl	-	-	-	cpy (chalc?) (mo)	cpy wk	Cpy in mafics, wk cpy, mo in frags. Cpy>pyr. Hyb/guich. 130.6-140.0 m Very fine grained. Mafic-rich interval [dyke?/Hybrid?] Wk cpy in frags.	
134.9-138.6	Guichon/ Hybrid	-	mod/stng bkn 2 sets at 90+40° C.A.	ser,chl (cly), carb	qtz frags to sev cms qtz <0.5 cm at 10 + 20° C.A.	patchy hem	(loc Fe hem)	-	loc ser chl (cly)	ser chl carb	-	-	-	(cpy) cpy in qtz vn	cpy wk	Guichon/Hybrid. Local patches hem staining at 136.5 and 138.6 m with scattered local patches.	
138.6-141.1	Guichon/ Hybrid	-	wk/mod	ser,chl	qtz <0.5 at 10 + 80° C.A.	Fe patchy hem	(Fe)	-	loc ser (cly) (chl)	ser (chl) carb	-	-	-	(cpy) cpy (pyr)	cpy slight	Cpy>pyr. Guichon/Hybrid. Patchy hematitic pervasive staining.	
141.1-143.1	Guichon/ Hybrid alt/stained fault	scatt 141.3 m at 0° C.A.	intense/gge	ser,(cly) (chl),carb	qtz; <0.5 at 0°; 1 cm at 45° C.A. vuggy.	Fe hem patches	(jar) (hem)	-	carb loc ser cly	ser chl cly carb	-	-	-	tr NCu	tr	One grain NCu noted on fract. Guichon/Hybrid fault zone. Local hem patches. Watch for NCu in assays. 141.7 m - Caving, frags cont sec Cu, (turq?/chrys). Note: bright red/brown hematitic patches, watch Cu assays, no (+) Cu test. Watch for NCu?? K-feldspar.	

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
143.1-145.9	Guichon/ Hybrid	-	int/shatt	ser, (chlr) (cly) carb	qtz & carb at 10° 2 cm at 0° C.A. <0.5 cm carb	Fe hem patches	(jar & hem)	-	ser (chlr) carb cly	ser (chlr) cly carb	-	-	-	tr cpy mo? cpy	tr	Check for mo. Guichon/Hybrid contains zones of strongly altered ser (ep). Qtz veins vuggy, patchy hem stain areas. At 145.0 m aphanitic dyke? Chloritic ep? Carries minor cpy.		
145.9-149.9	Guichon/ Hybrid	-	mod/stng	chl, ser chl, carb	qtz at 70° C.A. <0.5 cm carb at 10° C.A. <0.5 cm	-	(jar)	-	ser chl (carb) cly bio	chl ser chl carb	-	-	-	(cpy) (cpy)	tr	Cpy>pyr. Check for mo. Note: bright red/orange hematitic blotches. K-spar watch assays for Cu.		
149.9-153.7	Guichon/ Hybrid	-	mod/stng btwn 10 & 0°	ser, chl carb (cly)	qtz 7 cm at 35° C.A. scatt cpy qtz 2 cm at 20° C.A.	loc hem patchy possible K-spar	(hem)	-	loc ser chl calcite loc cly (carb) bio	carb ser chl (loc cly)	-	-	-	(cpy) cpy tr chalc	tr	Wk cpy>pyr. Guichon/Hybrid, mafic-rich Patchy pervasive sericite altn. Patchy hematite stained K-feldspar. Local strong pervasive cly alteration		
153.7-155.5	Guichon/ Hybrid	-	wk-mod	ser, chl carb (cly)	-	(loc hem)	(Fe)	-	loc bio chl ser carb cly	ser chl (cly) carb	-	-	-	(cpy) cpy with mafics	wk	Guichon/Hybrid mafic rich increase in chl (to strong) with depth.		
155.5-157.9	Guichon/ Hybrid	loc gge	wk/mod see rmks.**	chl, ser carb, cly	Min calc vnls. qtz v <0.5 cm at 30° C.A.	-	-	-	chl ser cly carb	chl ser carb cly	-	-	-	(cpy)	-	**Some crushing at base of interval. Crushing at 30° C.A. Hybrid, dark green, chloritic, massive unit. Trace mag. premineral, pre-alteration		
157.9-162.1	Fault zone ** see rmks	stng	intense shatt crushed	chl, carb, cly, ser	qtz vn frag ckled, bkn diss vnls at 5° C.A.	-	-	-	chl ser carb cly	chl ser carb cly	-	-	-	cpy cpy/ pyr in qtz vn frags	slight	**Late movement at 50° C.A. on fract 20° C.A. Fault zone. Some of this looks rather convincingly like a porphyry. Check cross sections to see if this makes sense.		
162.1-166.4	Hybrid/ Porphyry?	loc 162.7- 163.9 m	mod/stng but comp healed, crushed zone?	chl, ser, carb, loc cly	carb vn & microvns qtz	-	-	-	chl ser (carb) cly	chl ser carb loc cly	-	-	-	cpy chalc	pyr in gge	slight	Cpy increasing slightly. Cpy>pyr. Premineral/pre-alteration. Strong pervasive chl/ser (carb) alteration. Sericitized musc. Possibly aplitic porphyry dykelets.	
166.4-168.4	Hybrid/ Porphyry?	-	wk	chl, carb ser, loc cly	qtz <1cm at 80° C.A. w/ cpy in fract qtz/carb vn w/pink stn.	-	-	-	chl ser carb cly	chl ser carb cly	-	-	-	(chalc)	-	slight	Hybrid or Porphyry? Premineral/pre-alteration, grading to Hybrid Guichon.	

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
168.4-170.6	Hybrid/ Porphyry? grading to Hybrid/ Bethlehem?	-	wk	chl, ser cly, carb	qtz <0.5 cm at 90° C.A. cont cpy	loc hem	loc hem	-	chl ser (carb) (bio)	chl carb ser (cly)	-	-	-	cpy (loc chalc)	-	tr	Hybrid/Porphyry, grading to Hybrid Bethlehem. Contains a fragment? of brown porphyry at ~ 169.0 m.	
170.6-174.5	Hybrid/ Bethlehem?	min gge	mod stng fracts <10° C.A.	chl, ser, carb,(cly)	qtz vns // to C.A. & at 30° C.A. <1 cm. cont cpy w/bn tarnish	Hm, ptchy stain assoc w/K-sp	-	-	ser chl (cly) K-spar alb patchy distribution	ser chl carb (cly)	-	-	-	cpy	-	tr	Hybrid/Bethlehem; shows strong variation in impregnation of feldspars. K-spar>albite. Irregular intervals of pervasive feld impregnation. Associated qtz. Check cross sections from 157.9- 174.5 m to determine whether this interval makes sense as porphyry.	
174.5-175.5	Guichon	-	wk	carb	qtz vn <0.5 cm at 20° C.A. w/cpy	hem stain w K-sp	-	-	(carb) ptchy K-sp	-	-	-	-	cpy	-	tr	Locally fine grained, K-spar impregnated, locally strong. Hem stained altered plagioclase pheno- crysts.	
175.5-178.6	Guichon	-	wk/mod	carb, ser (chl)	carb <0.5 cm at 60° C.A. & qtz at 60 & 90° C.A.	-	-	-	mottled K-spar alb	carb ser (chl)	-	-	-	cpy	cpy healed fracts	tr	Guichon, grey black with mottled pink, albitization.	
178.6-182.9	Guichon	-	mod	ser, carb	qtz< 0.5 cm at 30° C.A.	loc hm stn on K-sp	-	-	loc K-sp impreg loc ser	loc ser loc chl	-	-	-	cpy	-	tr	Guichon; impregnated by Kspar, partial Fe stain. Cut by numerous apite and apilitic porphyry dykes/dykelets 1 cm to >10 cms. Contains traces of pyr. 180.0 m - Pervasive sericite altn.	
EOH 182.9 m																		

DDH 95-8

Northing: 5604108.9			DDH 95-8					Azimuth: -	
Easting: 641528.8			Elevation: 1755.1					Inclination: -90	
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
16137	24.4	25.9	0.06	0.02	-	-	-	-	Guichon/Hybrid
16138	25.9	27.4	0.04	0.01	-	-	-	-	"
16139	27.4	28.9	0.25	0.14	-	-	-	-	Fault Zone
16140	28.9	30.4	1.05	0.99	-	-	-	-	Guichon/Hybrid
16141	30.4	31.9	1.07	1.02	-	-	-	-	"
16142	31.9	33.4	1.02	0.88	-	-	-	-	"
16143	33.4	34.9	0.63	0.50	-	-	-	-	"
16144	34.9	36.4	0.68	0.50	-	-	-	-	"
16145	36.4	37.9	0.57	0.40	-	-	-	-	"
16146	37.9	39.4	0.76	0.58	-	-	-	-	"
16147	39.4	40.9	0.51	0.33	-	-	-	-	"
16148	40.9	42.4	0.34	0.20	-	-	-	-	"
16149	42.4	43.9	0.22	0.05	-	-	-	-	Fault Zone
16150	43.9	45.4	0.38	0.17	-	-	-	-	"
16151	45.4	46.9	0.32	0.12	-	-	-	-	Guichon/Hybrid
16152	46.9	48.4	1.16	0.90	-	-	-	-	"
16153	48.4	49.9	1.18	1.00	-	-	-	-	"
16154	49.9	51.4	1.65	1.40	-	-	-	-	"
16155	51.4	52.9	1.41	1.30	-	-	-	-	"
16156	52.9	54.4	1.30	1.20	-	-	-	-	Porphyry/DIHK
16157	54.4	55.9	0.78	0.75	-	-	-	-	Guichon/Fault Zone
16158	55.9	57.4	0.71	0.55	-	-	-	-	Fault Zone
16159	57.4	58.9	0.68	0.56	-	-	-	-	Guichon/Hybrid
16160	58.9	60.4	0.52	0.43	-	-	-	-	"
16161	60.4	61.9	1.02	0.91	-	-	-	-	"
16162	61.9	63.4	0.73	0.61	-	-	-	-	"
16163	63.4	64.9	0.73	0.61	-	-	-	-	"
16164	64.9	66.4	0.98	0.87	-	-	-	-	"
16165	66.4	67.9	0.70	0.61	-	-	-	-	"
16166	67.9	69.4	1.08	0.90	-	-	-	-	"
16167	69.4	70.9	0.98	0.90	-	-	-	-	"
16168	70.9	72.4	1.10	1.00	-	-	-	-	"
16169	72.4	73.9	1.22	1.10	-	-	-	-	"
16170	73.9	75.4	0.99	0.86	-	-	-	-	"
16171	75.4	76.9	1.00	0.80	-	-	-	-	"
16172	76.9	78.4	0.76	0.63	-	-	-	-	"
16173	78.4	79.9	0.58	0.47	-	-	-	-	"
16174	79.9	81.4	0.41	0.29	-	-	-	-	"
16175	81.4	82.9	0.48	0.35	-	-	-	-	"
16176	82.9	84.4	0.47	0.38	-	-	-	-	"
16177	84.4	85.9	0.42	0.32	-	-	-	-	"
16178	85.9	87.4	0.62	0.49	-	-	-	-	"
16179	87.4	88.9	0.36	0.23	-	-	-	-	"
16180	88.9	90.4	0.57	0.37	-	-	-	-	"

DDH 95-8

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16181	90.4	91.9	0.36	0.26	-	-	-	-	Guichon/Hybrid
16182	91.9	93.4	0.61	0.47	-	-	-	-	"
16183	93.4	94.9	0.57	0.43	-	-	-	-	"
16184	94.9	96.4	0.31	0.18	-	-	-	-	"
16185	96.4	97.9	0.56	0.44	-	-	-	-	"
16186	97.9	99.4	0.61	0.43	-	-	-	-	"
16187	99.4	100.9	0.40	0.30	-	-	-	-	"
16188	100.9	102.4	0.26	0.16	-	-	-	-	"
16189	102.4	103.9	0.35	0.27	-	-	-	-	"
16190	103.9	105.4	0.38	0.29	-	-	-	-	"
16191	105.4	106.9	0.38	0.26	-	-	-	-	"
16192	106.9	108.4	0.48	0.39	-	-	-	-	"
16193	108.4	109.9	0.52	0.06	-	-	-	-	"
16194*	109.9	111.4	0.35	N/A	-	-	-	-	"
16195*	111.4	112.1	0.33	N/A	-	-	-	-	"
16196	112.1	112.9	0.36	0.03	-	-	-	-	"
16197	112.9	114.4	0.33	0.02	-	-	-	-	"
16198	114.4	115.9	0.34	0.03	-	-	-	-	"
16199	115.9	117.4	0.28	0.03	-	-	-	-	"
16200	117.4	118.9	0.28	-	0.3	0.01	<5	<.001	"
16201	118.9	120.4	0.18	-	0.6	0.02	<5	<.001	"
16202	120.4	121.9	0.32	-	0.8	0.02	5	0.001	"
16203	121.9	123.4	0.46	-	1.0	0.03	<5	0.001	"
16204	123.4	124.9	0.20	-	0.2	0.01	5	<.001	"
16205	124.9	126.4	1.00	-	0.8	0.02	<5	0.001	"
16206	126.4	127.9	1.47	-	0.3	0.01	<5	0.002	"
16207	127.9	129.4	0.27	-	0.2	0.01	<5	0.002	"
16208	129.4	130.9	0.30	-	0.2	0.01	<5	<.001	"
16209	130.9	132.4	0.25	-	0.8	0.02	<5	0.002	"
16210	132.4	133.9	0.28	-	0.8	0.02	5	0.002	"
16211	133.9	135.4	0.35	-	1.5	0.04	<5	0.001	"
16212	135.4	136.9	0.32	-	1.0	0.03	5	0.001	"
16213	136.9	138.4	0.22	-	0.8	0.02	<5	0.002	"
16214	138.4	139.9	0.20	-	0.4	0.01	<5	0.001	"
16215	139.9	141.4	0.31	-	1.1	0.03	<5	0.001	"
16216	141.4	142.9	0.40	-	0.8	0.02	<5	<.001	Fault Zone
16217	142.9	144.4	0.26	-	0.5	0.02	<5	<.001	"
16218	144.4	145.9	0.30	-	0.8	0.02	<5	<.001	Guichon/Hybrid
16219	145.9	147.4	0.30	-	0.5	0.02	<5	0.001	"
16220	147.4	148.9	0.35	-	1.1	0.03	<5	0.001	"
16221	148.9	150.4	0.29	-	1.2	0.04	10	0.001	"
16222	150.4	151.9	0.27	-	1.0	0.03	<5	<.001	"
16223	151.9	153.4	0.41	-	1.4	0.04	5	<.001	"
16224	153.4	154.9	0.20	-	0.6	0.02	<5	<.001	"
16225	154.9	156.4	0.47	-	1.2	0.04	<5	<.001	Guich/Hyb/Porph
16226	156.4	157.9	0.45	-	2.4	0.07	10	<.001	"
16227	157.9	159.4	0.45	-	2.1	0.06	<5	0.001	Fault Zone

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
16228	159.4	160.9	0.22	-	0.8	0.02	<5	<.001	Fault Zone
16229	160.9	162.4	0.27	-	0.4	0.01	<5	<.001	"
16230	162.4	163.9	0.26	-	1.0	0.03	<5	<.001	Hybrid/Porphyry
16231	163.9	165.4	0.30	-	0.6	0.02	<5	0.001	"
16232	165.4	166.9	0.90	-	3.2	0.09	20	<.001	"
16233	166.9	168.4	0.35	-	0.3	0.01	5	<.001	"
16234	168.4	169.9	0.28	-	0.2	0.01	5	<.001	"
16235	169.9	171.4	0.34	-	0.1	<.01	5	0.001	"
16236	171.4	172.9	0.33	-	0.1	<.01	5	0.001	"
16237	172.9	174.4	0.28	-	0.1	<.01	5	<.001	"
16238	174.4	175.9	0.29	-	0.1	<.01	5	<.001	"
16239	175.9	177.4	0.19	-	0.1	<.01	5	<.001	Guichon
16240	177.4	178.9	0.26	-	0.1	<.01	5	<.001	"
16241	178.9	180.4	0.22	-	0.1	<.01	5	<.001	"
16242	180.4	181.9	0.23	-	0.1	<.01	5	<.001	"
16243	181.9	182.9	0.23	-	0.1	<.01	5	<.001	"
end of hole									
Small sample from 111.9 m >> 0.67% Cu									

GETTY NORTH PROJECT				Gower Thompson & Associates Ltd.													
DDH #	DH95-9	Date	25-Aug	Relogged?:	after split Feb2/96			Logged by									
Elevation	1754.2 m	Azimuth	045	W.Verne Niessen			Northing:	5604145.6									
Inclination	-50	Length	182.9 m	Original first page lost... whereabouts unknown.			Eastng:	641542.7									
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			
18.3-22.3	Guichon wk fault zone	loc	bx/crushed	cl, loc carb	wk carb vnits	loc jar	jar	Fe, cl	?	?	-	-	-	-	-	-	Strongly weathered and faulted? Guichon
22.3-25.8	Guichon/ Bethlehem wk fault zone	loc ?	stgn/bkn loc shatt/ crushed	cl, loc carb (ser)	wk carb vnits	loc jar	jar hem	Fe, cl	chir ser	loc carb	-	-	-	-	-	-	Overall alteration intensity decreased somewhat but still strongly weathered. Guichon with intervals of Bethlehem Quartz Diorite.
25.8-28.9	Guichon/ Bethlehem fault zone	loc	shatt/crushed loc fault bx	cl, (loc carb)	-	loc jar	jar hem	Fe, cl	chlr ser	-	-	-	-	-	-	-	Strongly weathered Guichon with intervals of Bethlehem Quartz Diorite. Possible gradational contact? or juxtaposition related to faulting? Strong jar fracture coatings--probably ex pyrite.
28.9-31.8	Guichon/ Bethlehem fault zone	loc	bx/crushed loc milled	cl, loc carb	-	loc jar	jar hem	Fe, cl	chlr ser	-	-	-	-	-	-	-	More intensely fractured and weathered than previous interval.
31.8-39.3	Fault zone	several intervals	fault bx/ crushed/milled	cl, (loc carb)	-	loc jar loc grn Cu stn cl/ser	jar (hem)	Fe, cl	-	-	(loc chrys)	-	-	-	-	-	Fault zone with clasts of Guichon and Bethlehem. Very strongly wethered with complete feldspar destruction and intense fracturing.
39.3-42.7	Fault zone	loc	fault bx/ crushed/ milled	cl, ser, (chlr)	wk qtz vnits < 0.5 cm	loc jar loc grn Cu stn cl/ser	jar (hem)	Fe, cl	chlr loc alb ser	-	(loc chrys)	loc chrys	-	-	-	-	Suspect most cu is adsorbed by Fe-Mn oxides and clays. H ₂ SO ₄ positive nail test.
42.7-46.1	Guichon	stng	Fault zone dis bx	Fe Jar>hem grn Cu stain	-	Fe carb loc	Fe carb loc, grn Cu	-	ser chlr? carb loc	ser chlr? carb loc cl	-	chrys	-	-	-	-	Fault zone, some more comp intervals.
46.1-49.4	Guichon	loc stng	as abv shatt	Fe Hem>jar	-	Fe, -	Fe, - wk Cu	-	ser chlr	ser chlr cl	-	Tr chrys	-	-	-	-	Fault zone, few less shattered/alterd fragments.
49.4-52.6	Guichon	loc	fault zone shatt	Fe Hm, ser	-	Fe	Fe	-	ser chlor	chrys	-	(chrys)	-	-	-	-	Loc gge, sulfuric acid test +ve. Locally unaltered fragments.
52.6-55.3	Guichon	loc	fault zone shatt	Fe Hem ser, (chlr) (loc carb)	-	Fe (Cu grn)	Fe Cu grn (Mn)	-	ser chlr loc carb	ser chlr loc carb cl	-	chrys	-	-	tr	-	Shows increase in Cu stain and chrys

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			
55.3-58.5	Guichon	v loc 55.7 m	ckle loc crushed, out of main fault zone	carb, chlr, ser, (cly)	qtz at <0.5 cm at 24° antiaxial carb, Cal- cite vnit at 80° ca	loc Fe	hem, grn ser	-	(chlr) ser ptchy	ser chlrl carb (cly)	-	-	chrys (cup?)	-	-	tr		Check for cuprite, sulf acid test +ve on fracts with red stain.
58.5-63.9	Guichon	loc	fault zone shatt	Fe, ser, (chlrl) (loc carb)	-	Fe loc	Fe (loc carb) grn Cu (Mn)	-	ser (chlrl)	ser (chlrl) (carb) cly	-	-	chrys	-	-	-		Check for malachite.
63.9-67.1	Guichon	loc	crushed/ shatt	ser, chlrl	-	-	Fe, grn Cu	-	ser (chlrl)	ser chlrl cly	-	-	chrys	-	-	-		
67.1-70.6	Guichon	loc	stng shatt zones w/ comp int	cly, hem, ser, (chlor) carb	-	-	Fe (hem -jar) Cu stn	-	ser chlrl	ser chlrl cly	-	-	chrys	-	-	tr		69.5 Fault slip surface.
70.6-74.6	Guichon	-	stn shatt	ser, chlor hem	-	loc Cu in ser	as abv	-	ser chlrl	ser (chlrl) cly	-	-	chrys	-	-	tr		Increase in Cu content. (Pervasive) in frags ser, etc. Larger rock frags unaltered.
74.6-79.1	Guichon	-	ckle dis bx w/shatt int at 76.2	chlrl, ser, Fe	-	-	Fe Cu grn Mn	-	K-sp Cu ser in some ckle matrix Cu(+)	ser chlrl Mn	-	-	chrys	-	-	tr		Ckle bx with voids. Epidotized shatt int at 76.2 but Cu(+). Odd salmon pink colour K-spar? at 98.4m Milled and epidotized at 75.3.
79.1-84.3	Guichon	loc gge	crushed dis loc bx Fault zone	ser, (chlrl), Mn	chrys <0.5 at 20° ca	Hem in gge	Fe, Cu grn	-	Cu, ser bx mat Cu(+)	ser (chlrl)	-	-	chrys	-	-	-		Chrys in fract/vein at 79.8 m.
84.3-88.0	Guichon	-	dis bx, loc shatt	ser, (chlrl) (cly)	Frag in dis bx	Cu in mat of dis bx	Mn, Fe Cu grn	-	Cu ser bx mat Cu(+)	ser chlrl	-	-	chrys	-	-	tr		
88.0-92.2	Guichon/Hyb	-	dis bx shatt	(chlrl) ser (cly)	chrys <1cm at 25° ca	Cu loc (Fe)	Fe grn Cu	-	Cu ser, bx mat Cu(+)	ser (chlrl) cly	-	-	chrys	-	-	tr		Decrease in Fe stain.
92.2-96.1	Guichon/Hyb diff zones Hyb	-	ckle bx loc dis bx	ser, (chlrl)	-	Cu loc	Mn, Fe	-	Cu ser bx mat Cu +	ser (chlrl)	-	-	chrys	-	-	-		Purple/red blotches. Ints of hybrid.

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		
96.1-99.5	Guichon/Hyb	loc	stn ckle dis loc bx	Fe,carb, (chlr) ser (cly)	Qtz frags	Cu stn ser,gge and bx	Fe, Hm & jar Cu ser	-	ser in bx mat	ser chlr carb cly	-	Cu stn	Cu stn	-	-	tr	Stng ser Cu
99.5-103.5	Guichon	-	stng dis bx cavities	Fe,ser,chlr	Qtz frags	Cu stn ser bx mat,Fe bx mat	Fe Cu stn Mn	-	ser in bx mat	ser chlr cly	-	Cu stn	Cu stn chrys	-	-	wk	As above.
103.5-107.2	Guichon	-	stng dis bx w/ voids	Fe, ser,cly	qtz frags	grn Cu loc hem stn	Fe,Cu Mn	-	ser chlr	ser chlr cly	-	Cu stn chrys in bx mat	chrys	-	-	-	As above.
107.2-111.0	Guichon	-	diss bx w/ voids	Fe(hem) (chlr),ser (cly)	qtz frags	Cu stn in bx mat	Fe, Cu stn, ser	-	ser in bx mat	ser (chlr) (cly)	-	Cu stn	chrys	-	-	-	Chrys in Bx voids.
111.0-115.1	Guichon	-	as abv	hem, ser (chlr)	-	Cu stn in bx mat	Hem, Cu stn ser(cly)	-	as abv (chlr) (carb)	ser (chlr) (cly)	-	Cu stn in bx mat	-	-	-	-	Noticably decreased chrys.
115.1-120.2	Guichon	-	as abv shatt-loc	ser(chlr)(cly)	qtz frag	Cu stn ser in bx mat	hem (Cu stn) (ser)	-	loc ser (chlr)	ser (chlr) (cly)	-	loc Cu stn ser	(chrys)	-	-	-	Top of section stgly allered to about 116.4
120.2-122.9	Guich/Hyb	-	diss bx loc shatt	ser, chlr	qtz frag	loc-Cu stn ser in bx mat	hem Cu grn	-	ser chlr	ser chlr	-	Cu stn	(chry)	-	-	tr	Sulf acid test +ve in Hem. Some chrys in voids of bx. Mafic zone 121.2-121.8
122.9-126.3	Guichon	-	diss bx,loc shatt voids	ser,chlr (cly)	-	Cu stn in bx mat	hem Cu grn	-	(ser) (chlr)	ser chlr (cly)	-	Cu stn in bx	(chry)	-	-	-	Hem test H ₂ SO ₄ +ve
126.3-129.3	Guichon	128.1 60° < 2cm	faulted/ shatt/bx	ser,chlr cly	-	loc hem	hem	-	ser chlr	ser chlr cly	-	-	-	-	-	-	Bx matrix H ₂ SO ₄ +ve. Strongly altered.
129.3-133.4	Guichon	45° at 130 < 2cm	faulted shatt/diss bx	ser (chlr) cly-loc	qtz frags	loc Cu stn bx matrix	Fe Fe stn ser	-	ser chlr	ser chlr cly-loc	-	Cu stn in bx	chrys	-	-	-	As above. Chrys in voids in Bx.
133.4-137.2	Guichon	-	ckle bx/ shatt	chlr, ser, (Mn) (cly)	qtz at 80° <1 cm	loc-Fe	Fe-hem	-	ser chlr	ser chlr (cly)	-	NCu cup chrys	-	-	-	tr	Check for cuprite. NCu at 136.0. Chry filling Bx voids. Noticable increase in chrys.

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
137.2-141.4	Guich/Hyb	-	diss bx loc-crushed	ser, carb chl, cly	qtz at 50° <1cm	loc hem loc - Cu str bx mat	hem (Mn)	-	ser chl	ser chl cly	-	-	-	-	-	Hem H ₂ SO ₄ +ve. Loc very str hem. No visible chrys.		
141.4-144.9	Guichon? contact	-	int/fault bx	ser (chl) (cly)	qtz at 0° <1cm	-	-	-	ser chl	ser (chl) (cly)	-	-	-	cpy pyr	Qtz vein antiaxial - cpy/pyr strongly alter and chl. Contact- oxide/primary 142.7.			
144.9-148.4	Guichon?	-	int/fault bx shatt	ser, chl (cly)	-	-	-	ser chl	ser,chl (cly) (carb)	-	-	-	pyr cpy	tr	Pyr>>cpy. Strongly alter and chl.			
148.4-151.8	Guichon?	-	as abv	ser, chl (cly) carb	qtz at 20d 1 cm	-	-	-	ser chl	ser chl (cly) carb	-	-	-	pyr cpy	tr	As above. Healed fract- pyr.		
151.8-155.1	Guichon	-	stg/shatt diss bx	ser, chl, (cly) (carb)	-	-	-	ser chl	ser chl (cly) (carb)	-	-	-	pyr cpy	tr	Pyr>>cpy			
155.1-158.7	Guichon/Hyb?	-	shatt/dis bx	chl,ser,cly (carb)	qtz vn frags	-	-	-	chl ser	chl ser (cly) (carb)	-	-	-	pyr cpy	wk	Pyr>> cpy. Stg chl.		
158.7-162.4	Guichon/Hyb	-	ckle diss bx w/voids loc shatt	chl, ser,cly carb	qtz in frag	-	-	-	chl ser	chl ser cly,ep carb	-	-	-	pyr	wk	Carb most in upper levels of interval.		
162.4-166.2	Guichon/Hyb Porph?	-	diss bx/shat	chl,ser carb, (cly)	carb vnlt	-	-	-	ser chl carb in mat of bx	chl ser carb (cly)	-	-	(NCu)	pyr cpy	wk	NCu at 163.8-tr. Pyr>cpy. Mafic porph? -164-164.9.		
166.2-170.5	Guichon/Hyb	-	stg/bkn ckle bx	chl,ser, carb (cly)	-	-	-	-	(chl) (ser)	chl ser carb (cly) ep-tr	-	-	-	pyr cpy	wk	Pyr>>cpy. Mafic dykelet? 170.2-170.4		
170.5-174.1	Guichon/ Porph?	-	in shatt/ fault bx	(chl), ser carb, (cly)	-	-	-	-	(chl) ser	(chl) ser carb (cly)	-	-	-	pyr cpy	wk	Pyr>>cpy. Mafic/porph? clasts in Bx. Guichon- grey/mottled pink		

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.
174.1-177.1	Guichon/ Porph?	loc	diss/bx int shatt	(carb) ser (chl) (cly)	-	-	-	(chl)	(carb)	-	-	-	-	pyr cpy		Guichon- grey/ mottled pink			
177.1-180.3	Guichon	179.8 at 30° <2cm	fault bx/ shatt	ser, chl carb. (cly)	-	-	-	(chl)	carb	-	-	-	-	pyr		Check for K-spar at bottom of interval. Check for ep. Some mafic frag in fault bx			
180.3-182.9	Guichon/Hyb	-	fault/bx	chl, ser, carb (cly)	-	-	-	carb	chl	-	-	-	-	pyr cpy		Pyr>>cpy. Check for ep.			
EOH 182.9 m								carb in mat of bx (chl) ser	chl ser carb (cly) (ep-tr)										

DDH 95-9

Northing: 5604145.6			DDH 95-9				Azimuth: 045		
Easting: 641542.7			Elevation: 1754.2 m				Inclination: -50		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
16245	18.3	19.8	0.10	0.04	-	-	-	-	
16246	19.8	21.3	0.14	0.05	-	-	-	-	
16247	21.3	22.8	0.11	0.02	-	-	-	-	
16248	22.8	24.3	0.08	0.02	-	-	-	-	
16249	24.3	25.8	0.08	0.04	-	-	-	-	
16250	25.8	27.3	0.11	0.04	-	-	-	-	
16251	27.3	28.8	0.14	0.04	-	-	-	-	
16252	28.8	30.3	0.18	0.04	-	-	-	-	
16253	30.3	31.8	0.15	0.02	-	-	-	-	
16254	31.8	33.3	0.18	0.02	-	-	-	-	
16255	33.3	34.8	0.59	0.46	-	-	-	-	
16256	34.8	36.3	0.69	0.59	-	-	-	-	
16257	36.3	37.8	0.60	0.47	-	-	-	-	
16258	37.8	39.3	0.55	0.43	-	-	-	-	
16259	39.3	40.8	0.36	0.22	-	-	-	-	
16260	40.8	42.3	0.46	0.28	-	-	-	-	
16261	42.3	43.8	0.50	0.33	-	-	-	-	Guichon:Fault Zone
16262	43.8	45.3	0.55	0.38	-	-	-	-	"
16263	45.3	46.8	0.45	0.22	-	-	-	-	"
16264	46.8	48.3	0.67	0.48	-	-	-	-	"
16265	48.3	49.8	0.73	0.59	-	-	-	-	"
16266	49.8	51.3	0.71	0.61	-	-	-	-	"
16267	51.3	52.8	0.40	0.30	-	-	-	-	"
16268	52.8	54.3	0.39	0.36	-	-	-	-	"
16269	54.3	55.8	0.34	0.31	-	-	-	-	"
16270	55.8	57.3	0.41	0.38	-	-	-	-	Guichon:shatt./Bx
16271	57.3	58.8	0.44	0.39	-	-	-	-	"
16272	58.8	60.3	0.49	0.41	-	-	-	-	"
16273	60.3	61.8	0.38	0.33	-	-	-	-	"
16274	61.8	63.3	0.35	0.32	-	-	-	-	"
16275	63.3	64.8	0.42	0.36	-	-	-	-	"
16276	64.8	66.3	0.39	0.34	-	-	-	-	"
16277	66.3	67.8	0.35	0.30	-	-	-	-	"
16278	67.8	69.3	0.31	0.25	-	-	-	-	"
16279	69.3	70.8	0.30	0.25	-	-	-	-	"
16280	70.8	72.3	0.29	0.26	-	-	-	-	"
16281	72.3	73.8	0.22	0.20	-	-	-	-	"
16282	73.8	75.3	0.35	0.34	-	-	-	-	"
16283	75.3	76.8	0.40	0.39	-	-	-	-	"
16284	76.8	78.3	0.44	0.42	-	-	-	-	"
16285	78.3	79.8	0.41	0.40	-	-	-	-	"
16286	79.8	81.3	0.47	0.47	-	-	-	-	Guichon:Fault Zone
16287	81.3	82.8	0.47	0.47	-	-	-	-	"
16288	82.8	84.3	0.44	0.43	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16289	84.3	85.8	0.41	0.40	-	-	-	-	Guichon: Disl. Bx.
16290	85.8	87.3	0.46	0.47	-	-	-	-	Guichon/Hybrid:Bx/
16291	87.3	88.8	0.71	0.70	-	-	-	-	shattered
16292	88.8	90.3	0.55	0.53	-	-	-	-	"
16293	90.3	91.8	0.86	0.84	-	-	-	-	"
16294	91.8	93.3	0.92	0.90	-	-	-	-	"
16295	93.3	94.8	0.98	0.96	-	-	-	-	"
16296	94.8	96.3	0.64	0.63	-	-	-	-	"
16297	96.3	97.8	0.71	0.70	-	-	-	-	"
16298	97.8	99.3	0.67	0.66	-	-	-	-	"
16299	99.3	100.8	0.74	0.73	-	-	-	-	Guichon:Disl. Bx.
16300	100.8	102.3	0.83	0.82	-	-	-	-	with voids
16301	102.3	103.8	0.86	0.83	-	-	-	-	"
16302	103.8	105.3	0.78	0.72	-	-	-	-	"
16303	105.3	106.8	0.63	0.53	-	-	-	-	"
16304	106.8	108.3	0.69	0.63	-	-	-	-	"
16305	108.3	109.8	0.62	0.58	-	-	-	-	"
16306	109.8	111.3	0.79	0.74	-	-	-	-	"
16307	111.3	112.8	0.92	0.85	-	-	-	-	"
16308	112.8	114.3	0.68	0.68	-	-	-	-	"
16309	114.3	115.8	0.42	0.40	-	-	-	-	"
16310	115.8	117.3	0.26	0.20	-	-	-	-	"
16311	117.3	118.8	0.55	0.47	-	-	-	-	"
16312	118.8	120.3	0.60	0.55	-	-	-	-	"
16313	120.3	121.8	0.80	0.72	-	-	-	-	"
16314	121.8	123.3	0.58	0.48	-	-	-	-	"
16315	123.3	124.8	0.47	0.34	-	-	-	-	"
16316	124.8	126.3	0.44	0.36	-	-	-	-	"
16317	126.3	127.8	0.26	0.19	-	-	-	-	Guichon:Fault Zone
16318	127.8	129.3	0.16	0.04	-	-	-	-	"
16319	129.3	130.8	0.93	0.92	-	-	-	-	"
16320	130.8	132.3	0.52	0.45	-	-	-	-	"
16321	132.3	133.8	0.48	0.38	-	-	-	-	"
16322	133.8	135.3	0.32	0.19	-	-	-	-	Guichon:Bx
16323	135.3	136.8	1.06	0.77	-	-	-	-	"
16324	136.8	138.3	0.45	0.33	-	-	-	-	"
16325	138.3	139.8	0.54	0.14	-	-	-	-	"
16326	139.8	141.3	0.41	0.09	-	-	-	-	"
16327	141.3	142.8	0.63	0.05	-	-	-	-	"
16328	142.8	144.3	0.66	-	0.1	<.01	5	0.008	"
16329	144.3	145.8	0.85	-	0.1	<.01	5	0.009	Guichon?:Fault Bx.
16330	145.8	147.3	0.74	-	0.1	<.01	5	0.007	"
16331	147.3	148.8	0.38	-	0.1	<.01	10	0.025	"
16332	148.8	150.3	0.31	-	0.1	<.01	5	0.001	"
16333	150.3	151.8	0.29	-	0.1	<.01	5	0.001	"
16334	151.8	153.3	0.23	-	0.1	<.01	5	0.013	Guichon: Disl. Bx.
16335	153.3	154.8	0.24	-	0.1	<.01	5	0.002	Guichon/Hybrid?

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
16336	154.8	156.3	0.29	-	0.1	<.01	10	0.001	Guichon/Hybrid:
16337	156.3	157.8	0.28	-	0.1	<.01	5	0.004	shattered/Bx
16338	157.8	159.3	0.35	-	0.2	<.01	5	0.002	"
16339	159.3	160.8	0.17	-	0.1	<.01	5	0.001	"
16340	160.8	162.3	0.12	-	0.1	<.01	5	0.001	"
16341	162.3	163.8	0.13	-	0.1	<.01	5	0.001	"
16342	163.8	165.3	0.15	-	0.1	<.01	5	0.001	Porphyry?
16343	165.3	166.8	0.10	-	0.1	<.01	5	0.001	Guichon/Hybrid
16344	166.8	168.3	0.09	-	0.1	<.01	5	0.002	"
16345	168.3	169.8	0.07	-	0.1	<.01	5	0.001	"
16346	169.8	171.3	0.06	-	0.1	<.01	5	<.001	"
16347	171.3	172.8	0.05	-	0.1	<.01	5	0.001	Guichon/Porphyry?
16348	172.8	174.3	0.04	-	0.2	0.01	5	<.001	"
16349	174.3	175.8	0.12	-	0.2	0.01	5	<.001	"
16350	175.8	177.3	0.12	-	0.2	0.01	5	0.001	"
16401	177.3	178.8	0.08	-	0.1	<.01	5	<.001	Guichon:Fault Bx.
16402	178.8	180.3	0.15	-	0.1	<.01	5	0.001	"
16403	180.3	181.8	0.16	-	0.1	<.01	5	0.002	"
16404	181.8	183.3	0.09	-	0.1	<.01	5	0.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-10	Date	27-Aug							Logged by									
Elevation	1754.2 m	Azimuth	225							Northing:		5404145.6							
Inclination	-45	Length	132.9 m							Easting:		641542.7							
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					
9.1-21.9	Guichon	-	fault bx	ser,carb, cly	-	Fe	Fe	Fe	-	-	-	-	-	-	-	-	Surface weathering, mainly Fe stains.		
21.9-26.9	Guichon	23.5-26.21	as abv	cly, ser, chlr,carb	-	Fe	Fe	Fe	-	-	-	-	-	-	-	-			
26.9-31.0	Guichon/Hyb	29.7-30.5	as abv	cly, ser,chlrcarb	-		as	above	-	-	-	-	-	-	-	-	Ep and Hem in mafics		
31.0-35.7	Guichon/Hyb	35.5	as abv	ser,(carb)chlrcly	qtz vn frag	Fe	Fe	Fe?	-	ep	-	-	-	-	-	mod	Loc bleached ep.		
35.7-47.6	Guichon	38.7-39.5	as abv	as abv	-	loc Fe	Fe	-	ser	ep	-	-	-	-	-	-	Much less Fe staining intensity.		
47.6-51.7	Guichon/Hyb	loc	fault Bx/int	cly, ser,(chlrcarb)	-	(Fe)	Fe	-	ser	ser	-	-	-	-	-	-	Specular hematite?		
51.7-55.5	Guichon/Hyb	loc	stg/int fault Bx	ser, (chlrcly)	-	Fe	Fe	-	chlrcly	ser	-	-	-	-	-	tr	Shear surface 50°. Fe stain stronger		
55.5-59.5	Guichon	56.5-57.0	fault Bx stg/int	chlrclyloc(carb)	-	Fe loc	Fe	-	chlrclyloc(carb)	ser	-	-	-	-	-	-	Possible Cu stain ser?		
59.5-63.1	Guichon	-	stg	chlrcly,ser	-	+	Fe	-	chlrcly	ser	-	-	chrys	-	-	-	Sulfuric acid test +ve. Fract set - 40& 90°		
63.1-66.7	Guichon	-	stg/ckle loc/int	chlrclyloc	-	Fe loc	Fe	-	chlrclyloc	ser	-	-	chrys	-	-	wk	As above		
66.7-70.6	Guichon/Hyb	loc	ckle-loc stg	(chlrcly)loc,carb	-	Fe loc	Fe	-	chlrclyloc	ser	-	-	(chrys)	-	(pyr)	tr	Pyr in mafics weak. Sulfuric acid test +ve		
70.6-74.6	Guichon/Hyb	73.2-74.6	stg/ink fault Bx	cly, ser(chlrcly)	-	Fe loc	Fe	-	chlrclySER(ep)	ser	-	-	-	-	-	tr	Fe staining increasing mafics host hem.		
74.6-78.6	Guichon/Hyb	75.0-78.0	fault bx	cly, ser(chlrcly)	-	Fe	Fe	-	(chlrcly)ser	ser	-	-	-	-	-	-	Shear surface at 10°. White clay very sticky.		
78.6-82.6	fault Guichon/Porph	78.6-81.4	fault bx	porph dyke frag	Fe	Fe	-	ser(chlrcly)	clyser	-	-	-	-	-	-	-	Porphyry dyke strongly altered.		
82.6-87.4	Porph/Guichon/Hyb	loc	stg/int loc crush	cly,ser(chlrcly)	-	Fe	Fe	-	ser(chlrcly)sly	clyser	-	-	-	-	-	-	Very strongly altered stg ser. Porph clasts/sections		

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
87.4-90.8	Guichon?	-	stg bkn	ser, (chlr)	-	Fe	Fe	-	ser (chlr)	ser (chlr)	-	-	-	-	-	Hem increasing frac set- 60-40°. Ser alteration nearly complete. Hem halo around frac.		
90.8-94.0	Guichon	loc	stg/bkn	(ser), chlr loc, (carb)	porph-92.4 at 10-20° 4 cm<	Fe loc	Fe	-	chlr ser loc	ser chlr loc	-	-	-	-	tr	Hem increasingly red.		
94.0-97.3	Guichon	-	stg loc bkn	chlr, ser	pink porph at 30°< 2.5 cm	Fe loc	Fe	-	ser chlr	chlr ser	-	-	-	-	wk			
97.3-101.8	Guichon/Porph	loc	stg/bkn	ser, chlr, carb loc	pink porph ar 10°. 1cm at 20°, 1cm carb vnlt at 60°	Fe loc	Fe	-	chlr ser	ser chlr carb-loc ep	-	-	-	pyr loc	wk	Fract set 60-50-80°.		
101.8-105.3	Guichon/Hyb/ Porph contact	-	stg loc-bkn	ser, (chlr)	-	-	Fe	-	chlr ser (ep)- loc	ser (chlr)	-	-	pyr & cpy as mafic	pyr (cpy)		Contact guich/hybrid=crowded pink Porph at 20° - 103.8 Mafics carries pyr to cpy		
105.3-109.1	Porph/Guichon contact	-	stg/loc shatt	ser, (chlr)	-	-	Fe	-	(chlr) (ser)	ser chlr	-	(cup?)	pyr		Porph/Guichon contact 107.0. Check for cuprite. Primary minerals partially oxidized fract sets 90 and 35°.			
109.1-112.5	Guichon/Hyb	-	stg/bkn	ser, chlr	?	-	Fe	-	-	ser (chlr)	-	-	tr (cpy)	pyr cpy				
112.5-115.8	Guichon/Hyb	-	stg/bkn	ser, chlr, (carb)	-	-	Fe	-	chlr ser	ser chlr (carb)	-	-	pyr cpy asl mafic	(cpy) pyr	loc sg/ mod	Fract set 70-80°		
115.8-118.8	Guichon/Hyb porph	-	stg shatt	chlr, ser, carb	?	-	Fe	-	ser (chlr)	chlr ser (carb)	-	-	(pyr & cpy) as/ mafic	pyr	wk/ mod	Primary mineralization, minerals oxidized and occurring in fract. Apparent interfingering of G/H and porph. (pyr=cpy) are with mafics syn mineralization G/H/P primary generally with porph Possible gradational contact. Guich/Hyb //porph 119.5, hem ass/ mafic.		
118.8-123.3	Guichon/Hyb	119.7 at 45°, 7cm	stg/shatt loc-int	ser, chlr carb	120.4- 128.8 porph	-	Fe (Mn)	-	chlr ser	ser chlr carb	(chlr) (ser)	-	cpy ass/ mafic	pyr	mod			
123.3-126.3	Porph/Hyb?	-	stg/shatt	chlr, ser, (cly?)	aplite at 40° 1cm	-	(Fe)	-	chlr ser	chlr ser (cly?)	-	-	cpy ass/ mafic	pyr (cpy)	mod	Noticably less Fe stain 10-20 and 70°		
126.3-129.2	Hyb/Porph	126.8at 60°~3cm	stg/shatt loc int	chlr, ser, carb, loc-cly	aplite at 30° 2cm	-	(Fe)	-	chlr ser	ser chlr carb loc- cly	?	-	cpy pyr ass/ mafic	pyr cpy	loc- wk	Cpy>pyr. Hyb/porph appears to be mixed.		
129.2-130.8	Guichon/Porph Hyb?	-	stng/bkn	chlr, ser, carb	carb vnlt at 60°	-	-	-	chlr ser alb	(chlr) ser carb	?	-	cpy pyr	pyr cpy Mo?	tr	Pyr>cpy. Cpy>pyr on 10d frags, fract sets at 10, 20, 30, 40 and 70°		

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.
130.8-132.9	Guichon/Porph Hyb?		stng/shatt	chl, ser, carb	-	-	-	chl	chl	?	-	-	cpy	cpy	tr		Pyr>cpy. Pink mottled with greenish plag. INcrease in cpy in mafics. Check for K-spar.	
EOH 132.9 m								ser	ser				pyr	pyr				
								alb?	carb									

DDH 95-10

Northing: 5604145.6			DDH 95-10				Azimuth: 225		
Easting: 641542.7			Elevation: 1754.2 m				Inclination: -45		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22022	19.6	21.1	0.06	<.01	-	-	-	-	Guichon:
22023	21.1	22.6	0.06	0.01	-	-	-	-	fault breccia
22024	22.6	24.1	0.06	0.01	-	-	-	-	" "
22025	24.1	25.6	0.09	0.01	-	-	-	-	" "
22026	25.6	27.1	0.09	0.01	-	-	-	-	" "
22027	27.1	28.6	0.04	0.01	-	-	-	-	Guichon/Hybrid:
22028	28.6	30.1	0.09	0.02	-	-	-	-	fault breccia
22029	30.1	31.6	0.14	0.02	-	-	-	-	" "
22030	31.6	33.1	0.16	0.02	-	-	-	-	" "
22031	33.1	34.6	0.32	0.06	-	-	-	-	" "
22032	34.6	36.1	0.21	0.03	-	-	-	-	Guichon:
22033	36.1	37.6	0.57	0.44	-	-	-	-	fault breccia
22034	37.6	39.1	0.16	0.10	-	-	-	-	" "
22035	39.1	40.6	0.09	0.03	-	-	-	-	" "
22036	40.6	42.1	0.19	0.09	-	-	-	-	" "
22037	42.1	43.6	0.30	0.15	-	-	-	-	" "
22038	43.6	45.1	0.19	0.06	-	-	-	-	" "
22039	45.1	46.6	0.21	0.06	-	-	-	-	" "
22040	46.6	48.1	1.24	0.89	-	-	-	-	" "
22041	48.1	49.6	0.38	0.16	-	-	-	-	Guichon/Hybrid:
22042	49.6	51.1	0.14	0.02	-	-	-	-	fault Bx/int
22043	51.1	52.6	0.31	0.02	-	-	-	-	" "
22044	52.6	54.1	0.25	0.02	-	-	-	-	" "
22045	54.1	55.6	0.30	0.03	-	-	-	-	" "
22046	55.6	57.1	0.15	0.01	-	-	-	-	Guichon:
22047	57.1	58.6	0.20	0.02	-	-	-	-	fault bx/stng - int
22048	58.6	60.1	0.40	0.16	-	-	-	-	stng/ckle loc int
22049	60.1	61.6	0.92	0.56	-	-	-	-	" "
22050	61.6	63.1	0.71	0.40	-	-	-	-	" "
22051	63.1	64.6	1.09	0.69	-	-	-	-	" "
22052	64.6	66.1	0.72	0.38	-	-	-	-	" "
22053	66.1	67.6	0.59	0.18	-	-	-	-	Guichon/Hybrid:
22054	67.6	69.1	0.38	0.12	-	-	-	-	stng/ckle
22055	69.1	70.6	0.45	0.16	-	-	-	-	" "
22056	70.6	72.1	0.32	0.03	-	-	-	-	stng/int, fault bx
22057	72.1	73.6	0.18	0.01	-	-	-	-	fault bx
22058	73.6	75.1	0.24	0.01	-	-	-	-	" "
22059	75.1	76.6	0.29	0.03	-	-	-	-	" "
22060	76.6	78.1	0.29	0.11	-	-	-	-	" "
22061	78.1	79.6	0.28	0.06	-	-	-	-	Fault
22062	79.6	81.1	0.31	0.04	-	-	-	-	fault bx
22063	81.1	82.6	0.22	0.02	-	-	-	-	" "
22064	82.6	84.1	0.15	0.04	-	-	-	-	Porph/Guich/Hyb:
22065	84.1	85.6	0.25	0.04	-	-	-	-	stng/int, loc crushed

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22066	85.6	87.1	0.22	0.02	-	-	-	-	Porph/Guich/Hyb:
22067	87.1	88.6	0.25	0.01	-	-	-	-	stng/int, loc crushed
22068	88.6	90.1	0.17	0.01	-	-	-	-	Guichon:
22069	90.1	91.6	0.17	0.01	-	-	-	-	stng/bkn
22070	91.6	93.1	0.17	0.01	-	-	-	-	" "
22071	93.1	94.6	0.49	0.15	-	-	-	-	" "
22072	94.6	96.1	0.69	0.27	-	-	-	-	" "
22073	96.1	97.6	0.60	0.23	-	-	-	-	" "
22074	97.6	99.1	0.32	0.12	-	-	-	-	" "
22075	99.1	100.6	0.20	0.05	-	-	-	-	" "
22076	100.6	102.1	0.29	0.06	-	-	-	-	" "
16405	102.1	103.6	0.18	-	<.1	<.01	10	0.001	Guich./Hyb./Porph.:
16406	103.6	105.1	0.19	-	<.1	<.01	5	0.001	contact 103.8 m
16407	105.1	106.6	0.14	-	<.1	<.01	5	0.001	Porph./Guich.:
16408	106.6	108.1	0.22	-	<.1	<.01	5	0.002	contact 107.0 m
16409	108.1	109.6	0.26	-	<.1	<.01	5	0.001	"
16410	109.6	111.1	0.24	-	<.1	<.01	10	<.001	Guichon/Hybrid
16411	111.1	112.6	0.25	-	<.1	<.01	5	<.001	"
16412	112.6	114.1	0.16	-	<.1	<.01	5	<.001	"
16413	114.1	115.6	0.19	-	<.1	<.01	5	0.001	"
16414	115.6	117.1	0.14	-	<.1	<.01	5	0.001	Guich./Hyb./Porph.
16415	117.1	118.6	0.10	-	<.1	<.01	10	<.001	"
16416	118.6	120.1	1.25	-	<.1	<.01	10	<.001	Guichon/Hybrid
16417	120.1	121.6	0.06	-	<.1	<.01	5	0.001	"
16418	121.6	123.1	0.09	-	<.1	<.01	5	0.001	"
16419	123.1	124.6	0.11	-	<.1	<.01	5	0.001	Porphyry/Hybrid?
16420	124.6	126.1	0.10	-	<.1	<.01	5	0.001	"
16421	126.1	127.6	0.11	-	<.1	<.01	5	0.002	Hybrid/Porphyry?
16422	127.6	129.1	0.11	-	<.1	<.01	5	<.001	"
16423	129.1	130.6	0.08	-	<.1	<.01	5	0.002	Guich./Porph.
16424	130.6	132.1	0.07	-	<.1	<.01	5	<.001	Hybrid?
16425	132.1	132.9	0.06	-	<.1	<.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-11	Date	27-Aug							Logged by	VN								
Elevation	1751.1 m	Azimuth	043							Northing:	5603996.4								
Inclination	-45	Length	289.6 m							Easting:	641495.2								
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					
6.1-12.1	Guichon fault zone?	loc	stng/bkn loc int	chlor, ser cly	-	loc Fe Fe	yes Fe	ser chlor loc ep	(carb) ser (chlor)	-	-	-	-	-	wk	Guichon, some quite fresh; fault zone w/ intermittent gouge. Loc v stng ser alt. Fracts at 20 + 30 + 40 degrees. Generally pink mottled.			
12.1-15.5	Guichon/Hybrid? fault zone?	?	as above	chlor, ser cly	qtz frags dyke?	loc Fe Fe Mn	-	loc stng ep, ser chlor loc cly	ser ser chlor cly	-	-	-	-	-	wk	Guichon/Hybrid? Fault zone. Possible Witched Break? Dyke at 12.5m w/ stng perv ep; loc complete ser alt			
15.5-18.6	Guichon fault zone	16.5-18.3m	stng/shatt loc int	cly ser chlor, carb	qtz frags	Fe Fe Mn	-	ser chlr carb cly	ser ser chlr carb cly	-	-	-	-	-	-	Fault zone w/ Guichon clasts. Shear surfaces at 20 + 30° c.a. Stng alt porphyry? at bottom of interval			
18.6-23.0	Porphyry/Hybrid? fault zone	20.5-21.2m and loc at 22.9m	stng/int	cly, ser, carb (chlor)	?	stng Fe Fe, Mn	-	ser chlr carb loc cly	ser (chlr) carb cly	-	-	-	-	-	-	Stng ser alt porph; fault zone w/ intermittent gouge. Shear surfaces ~ parallel to c.a. Stng perv. Fe stng			
23.0-28.6	Porphyry/Hybrid? fault zone	loc + 23.5-23.9m	stng/int	as above	-	stng Fe loc Cu grn ser	Mn Fe	as above	as above	-	loc chrys	loc chrys	-	-	-	Alt as above w/ shear surfaces at ~ 30° c.a. Fe as above.			
28.6-32.0	Guichon/Porph contact at 29.5m	-	bkn/shatt	ser, (chlor) loc carb (cly)	carb vnlt	loc Fe Mn loc Fe	-	carb in porph ser chlr	carb (cly) ser (chlr)	-	-	-	-	-	wk	Porphyry/guichon contact, (vague). Guichon is fairly fresh.			
32.0-35.0	Guichon	-	stng/bkn	ser (chlr) carb, cly	-	loc Fe Mn Fe(hem) (Cu-grn ser)	-	ser chlr loc cly	carb ser (chlr) cly	-	-	(Cu-grn ser)	-	-	wk	Pink speckled guichon w/ loc zones of complete ser alt (rotten). Wk, sulfuric acid pos on fracts (loc)			
35.0-38.7	Guichon fault zone	loc 37.6m	stng/ckle	ser (chlr) carb, cly	-	loc Fe Mn Fe(hem)	-	ser (chlr)	ser (chlr) cly carb	-	loc chrys in mat	chrys	-	-	wk	Guichon w/ intermittent gge. Some relatively fresh guichon w/ biotite> hbde. Sulfuric acid.			
38.7-41.9	Guichon	-	stng/bkn loc shatt	ser, chlor carb, loc cly	carb vnlt	-	Fe Mn	ser chlor loc ep.	ser chlr carb, loc cly, ep.	?	-	tr chrys	-	-	mod	Pink speckled guichon. Loc stng ser on fracts, loc chrys and Cu-stained ser on fracts. Fract sets at 0-5, 40, 50, + ~80° d.c.a.			
41.9-44.9	Guichon	44.0-44.8	stng/shatt loc int	as above (see pg 1)	-	Fe in gge	Fe, Cu- grn, ser, Mn	ser chlr	ser chlr carb loc cly	-	-	chrys	-	-	wk	Hem stained fracts sulfuric acid poss. Loc complete ser/chlr alt.			
44.9-47.9	Guichon	-	ckle/dis Bx loc shatt	cly, ser, (chlr) carb	-	loc Cu stn ser	Fe Cu- grn ser (Mn)	ser chlr carb in bx mat	ser ser (carb) chlr cly	-	loc Cu stn ser	chrys	-	-	wk	Pink speckled guichon, loc complete ser /chlr alt.			

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
47.9-51.6	Guichon	-	fault/shatt	cly?ser (chlr) carb- loc	-	Cu stn ser	Fe Cu- grn,ser	-	ser chlr carb in bx mat	cly? ser chlr ep	-	loc grn stn ser	chrys	-	-	-	Abundant Fe-Hem staining. Mod perv alt to chlr/alt.	
51.6-54.5	Guichon fault zone	-	ckle Bx shatt	ser, chlr carb, cly	-	-	Fe, Mn Cu stn ser	-	ser chlr	ser chlr carv cly	-	-	Cu stn ser	-	-	-	Stng perv. ser/chlor alt. (Quite rotten)	
54.5-57.8	Guichon fault zone	55.0-55.5 m + loc	stng/shatt ckle Bx	ser, chlr carb (cly)	-	loc Fe in gge	Fe (Mn) Cu-stn ser	-	ser chlr	ser chlr cly carb	-	-	(chrys)	-	-	wk	Wk poss sulfuric acid test on frags.	
57.8-61.7	Guichon	loc	stng/shatt	ser, chlr carb (cly)	-	loc Fe	as above	-	ser chlr	ser chlr	-	-	(chrys)	-	-	tr	Pink speckled guichon, stng fract'd/shatt with stng loc ser/chlr alt.	
61.7-65.4	Guichon/ Hybrid	-	stng/shatt loc ckle Bx	ser, chlr carb (cly)	qtz vnlt and qtz vn frags	loc Fe	Fe, Mn	-	(loc ep) ser chlr	ep ser chlr carb (cly)	-	N Cu? N Cu?	(cup) N Cu?	-	-	-	Partially assimilated xenoliths loc crush zones. Ckle Bx with loc stng chlr alt. Wk poss sulfuric acid test on Fe stn frags. Check for N Cu.	
65.4-68.4	Guichon/ Hybrid	loc	stng/bkn loc ckle Bx	ser, chlr, loc cly carb.	-	loc Fe in Bx mat	Fe (Mn) Cu stn ser	-	chlr ser	chlr ser carb loc cly	-	(NCu)	(NCu)	-	-	wk	Wk pink speckled guichon/hybrid? Wk NCu with maf and in frags; frags at 0+ 90, 20° c.a.	
68.4-72.7	Guichon/ Hybrid	-	mod/bkn loc ckle Bx	ser (chlr) (cly) carb	qtz vnlt	as abv	as abv	-	loc ep chlr ser	ep (chlr) ser (cly) carb	-	(hem, w/maf) NCu	NCu	-	-	wk	Guichon/hybrid with partially assim. mafic xenoliths. Fracts at 30-35° c.a. Blebs of ep in stng chlr alt env around qtz vnt [Mafic xenolith (nicoh?) with dissp NCu!!]	
72.7-76.5	Guichon/Hyb	-	stng/loc dis Bx	ser chlr, loc cly, carb	chrys vnt at 76.3m	loc Cu- stn ser	Fe Mn (Cu-stn ser)	-	chlr ser	ser chlr carb loc cly	chlr? ser?	loc chrys NCu w/maf	cup NCu	-	-	wk	NCu decrease from 75.0-76.5m. Oxidation increases with depth. Shear surface with dis Bx at 5-10° c.a.	
76.5-80.2	Guichon/Hyb	-	stng/bkn	ser chlr	-	-	as abv	-	chlr ser	chlr ser	-	(hem w/maf)	(chrys)	-	-	tr	Fract sets at 30-35 and 90° c.a. NCu absent?	
80.2-84.1	Guichon/Hyb	-	stng/bkn loc dis bx	chlr ser loc cly	grey, sili aphanitic dyke~20 cm at 80.2 m chrys vnlt	-	as abv	-	loc ep chlr ser	ep chlr ser loc cly	chlr? ser?	as abv loc chrys	chrys	-	-	-	Loc zones of banded, streaky chlr with diff blebs of ep. Mafic xenolith 81.8m for 30 cm; bio<hbde. Dominant frags at 20, 40 and 90° c.a.	
84.1-87.6	Guichon/ Hybrid	loc at 87.6	ckle/dis/ stng/shatt	ser chlr (carb gge)	pink porph dykelets 3 at 1- ~10 cm	Fe Cu in gge	Fe (Mn) Cu-stn ser	-	chlr maf wk ser	ser chlr	-	chry in gge Diss N Cu & cup in maf	chrys (Cup?)	-	-	wk	Guichon/hybrid with pink porph stkwk. NCu? in porph and diss with cuprite in mafics. Probably more visible after splitting.	

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			
87.6-91.0	Guichon/Hyb	40 cm at top of int	shear at 20° c.a. ckle	ser chlr cly carb	pink porph dykelets qtz vning	wk Fe in gge	Fe Cu stn ser Mn spot		chl wk ser loc stng	wk cp w/diff chl in fracts ser		hem w/maf spkld w chrys	chrys loc (Cup?)			wk		Numerous apliric porphyries from ~2 cm to 40 cm, mostly ~ 90° c.a.
91.0-94.6	Guichon/Hyb	-	mod/ckle loc shatt	ser chl (cly) carb	apl porph dyklt to 5 cm. Carb micrn. qtz vnlt 1cm shatt. Chry 30° c.a. < 0.5 cm		Fe, Mn spots. Cu stn ser		chl wk ser	ser chl carb (cly)			chrys cup			wk		Cu stained sericite, stronger than previous interval. Aplite porphs ~ 90° c.a.
94.6-97.8	Guichon/Hyb pink Porph dklts 15 cm	-	wk/mod loc shatt loc bkn	chl, ser loc cly (carb)	qtz-0.5cm at 30°ca ckled. Apl porph dklts & pink porph		Fe. Cu stn ser (Mn spts)		chl ser loc stng	chl ser loc cly (carb)		cup w maf. NCu w maf	cup chrys NCu			wk		Pink porphyry dykelet 15 cm wide cuprite and NCu with mafic should grade well.
97.8-101.9	Guichon/Hyb	(loc gge at 70° ca)	ckle/ckle bx	chl ser loc cly (carb)	carb. qtz to 0.5cm at 50-80° ca		Fe Cu stn ser		chl ser. loc stng	chl ser loc cly carb		cup w maf loc chry hem	cup chrys			wk		Open spaces with qtz crystal grown out of sides with chrys.
101.9-105.5	Guichon/Hyb	-	ckle, loc dis bx Fract sets at 60 & 30° ca. // to ca	ser, chl (wk carb)	qtz 0.5 cm at 50° ca Chrys 1mm at 20° ca	Fe	Fe, Cu stn ser (Mn)		chl ser loc stng	chl ser wk carb		chrys w maf Hem w maf. Cup? w maf	chrys			wk		check assays for cuprite.
105.5-108.8	Guichon/Hyb	loc gge 5° ca	disloc fault w/ gge. loc crushed	ser chl (cly) (carb)	qtz vn frag & vnlt to 0.5cm	Fe stn gge & Fe stn chrys in bx mat	Fe Cu stn ser (Mn)		chl loc stn ser	chl ser (cly) carb in bx		loc chrys (cup?) w maf	chrys			wk		Cone of "dalmationite". 107.6-108.2 shatter int. chrys in fract. dissemination.
108.8-112.4	Guichon/Hyb	loc gge at 110.3 at 10° ca at 109.2 at 80°ca	mod/ckled loc shatt carb in gge	ser chl cly carb	qtz to 2cm at 10° w. 1 at 60° ca w chrys	Fe loc gge Cu stn in gge	Fe, Cu stn ser, Mn		chl loc qtz ser w. stng	chl ser (cly) carb		loc chry Tr cup Hem	chrys			Tr		
112.4-116.0	Guichon/Hyb	scatt gge	strg/loc shat slip surfaces perp to ca	chl, ser cly, carb	carb vnlt in cup stn Qtz to 0.5 cm --// to 20° ca	Fe loc	Fe, red cup, Cu stn ser Mn		loc alb? chl (ser loc)	ser chl carb loc cly		cup w maf loc NCu	chrys NCu			wk		Native Cu conspicuous diss and fract 115. gge 115.6 gge

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			
116.0-119.8	Guichon/Hyb		mod/loc ckle sets at 30 50,60,80°ca	chlor ser,carb	carb,qtz 0.5-1cm // to ca & 30° ca	loc grn Cu stn	Fe, Mn cup, grn & red Cu stn ser		loc ser chlor	ser chlor carb		NCu cup chrys loc	cup chrys NCu			wk		Diffuse chlorite healed fracts with cuprite.
119.8-123.3	Guichon/Hyb		w/m to ckle; loc shatt	ser, chlr (cly) (carb)	qtz 2cm at 60cm 0.5-1cm at 20° ca open sp skled	loc grn Cu stn	Fe, grn & red Cu stn ser Mn		loc K-s ep vnltls chlor alb loc (ser)	ser chlor cly carb ep		NCu cup loc	cup NCu chrys			wk		Chlor fract fillings with cuprite NCu diss with mafic and in albitized patched, starts at ~ 122m
123.3-127.3	Guichon/Hyb pink aplitic Porph at base		stng to loc ckle, loc shatt	ser, chlor carb	(?) 0.5cm at 30° w/ NCu, qtz to 3cm at 30° ca. vugs	loc Cu stnd sericite	Fe, grn and red Cu stn ser (Mn)		chlor ser	carb ser chlor (cly?)		NCu Cup loc chrys loc	NCu cup chrys	cpy in qtz	Tr		127.1. Composite albite margins qtz center 3cm at 30° ca. Thin fract cont cpy Diffuse chlor filled fracts with speckled. Pink apitic porph at base of interval.	
127.3-130.0	Guichon/Hyb aplitic Porph dklts	loc 1cm at 127.5 at 70° ca	strng/ckled	ser, chlor carb, cly	alb/qtz similar to abv at 30°	loc grn Cu	Fe wk red & grn stn Tr Mn (Mn) (Fe) (grn Cu stn ser)		ser chlor	ser chlor carb cly		cup NCu loc chrys	cup NCu chrys			wk		Pink aplitic porphyry dykelets, pink porphyry (W.B.). Noted one small dykelet of Beth 3 cm cont NCu very fine diss and cup with mafics.
130.0-131.2	Beth Fine gr dke		mod fracts at 20° ca 40° ca	ser, chlor carb, (cly)	qtz 3 cm at 20° ca		(Mn) (Fe) (grn Cu stn ser)		(ser) chlor	ser chlor carb (cly?)		NCu ptchy	NCu			wk		Contains bleb of Guich cont diss NCu. Watch for decrease in Cu content!
131.2-134.4	Beth dyke w/small dklts of crowded Porph	loc 1cm at 133. @ 20° ca	wk top to shatt & crshd to mod at bottom	carb,ser chlor, clay			wk Fe grn Cu stn ser (red Cu stn ser) (Mn)		chlor ser	ser chlor carb (cly) epid		(chrys) NCu				wk		Low Cu content.
134.4-138.3	Beth dyke loc pink mottled	loc at 138.1 m	wk loc shatt at 50, 60 to 70°ca.	ser, chlor carb, (Cly)	carb mic	loc Fe	Fe, grn Cu stn ser, Mn		(ser) chlor	ser chlor carb (cly)		NCu diss patchy	NCu (chrys) patchy			wk		Coarse mafic phenocrysts. Low Cu content.
138.3-142.3	Beth dyke loc pink mot	139-140.5	stng/shatt fault bx // ca	cly, ser, (chlor) carb		Fe gge	Fe, wk grn Cu		ser chlor cly (carb) ingge	chlor ser cly carb cly		(NCu) patchy	NCu (chrys wk)			wk		139.0-140.5 Fault/gouge.
142.3-145.7	Beth dyke loc pink mot Abd fault/ gge zones	mod/strg 142.4- 142.8 // ca	stng/shat w/loc dis Bx // ca	ser, chlor carb, cly	qtz vn frags in gge & bx	Fe in gge	Fe(Hem) grn Cu stn ser		ser chlor cly (carb) in gge	chlor ser carb cly		NCu ptchy	NCu chrys			wk		Native Cu diss not restricted to mafic and in fracts with chrys patchy.

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			
145.7-149.7	Beth Porph dyke pinkish grey	loc	mod/stng loc shatt sets at 30, 40,60,80° ca	chlor, ser carb, loc cly	-	-	Fe wk (Cu stn ser)	-	chlor clor ser loc cly loc carb	chlor ser loc cly	NCu NCu	-	-	wk		Shows increase in NCu diss, very fine grained/sl coarser; in mafic and matrix and in fract.		
149.7-153.5	Beth Porph dyke, pink grey	-	wk to mod	ser, chlor carb, (cly)	-	-	wk Fe (grn Cu stn ser)	-	chlor chlor ser loc carb (cly)	chlor ptchy Tr cup chrys tr	NCu NCu	-	-	w/m		NCu patchy pervasive		
153.5-157.3	Beth Porph dyke, grey pink/grey grn at bott	loc at 10°	wk. 0°ca at 10° ca	loc cly, ser chlor, (carb) (epid)	-	-	Fe (Mn)	-	chlor loc chlor ser carb	chlor ser NCu ptchy	(NCu) (cup)	-	-	wk		Funny spots; looks like alt maf surrounded by alt plag.		
157.3-160.6	Beth Porph dyke; grey pink/grey grn	loc 159.1m & 160m at 40° ca	mod/ckle loc shatt/int sets at 50 + 60° ca	loc cly ser chlr, carb	carb vnits at 5° ca	loc Fe	Fe(Mn)	-	chlor loc stn ser loc K- spar loc K- spar	chlor ser (ser) ptchy	NCu (NCu)	(epy)	(cpy)	tr		Alt spots as above. Cpy in carb veinlets and in maf within K-spar alt env around carb vnits and fract. NCu patchy perv.		
160.6-163.8	Beth Porph dyke, grey green/grey pink at bott	loc	mod/stng bkn, loc s shatt/dis Bx sets at 30, 40,50,70° ca	cly, ser, chlr, carb	carb vnits at 40° ca	-	Fe	-	chlor, loc stng ser, loc K- spar	chl r (ser) ptchy	(NCu) (NCu)	-	-	tr		Shows decrease in native Cu diss.		
163.8-167.5	Beth Porph dk grey-pink loc grey grn	loc 166.6 m at 15° ca	stng/ckle loc shatt	carb, ser, loc chlor loc cly	carb vnits w/K-sp. alt env 0.5 -2.0cm	loc Fe	Fe(hem)	-	loc K- spar chl loc stn ser loc carb	ser carb loc cly K-sp	NCu ptchy	(NCu)	(cpy) chalc? pck?	wk		Slip on fract at ~ 40° ca. Dark blue- black mineral with cpy at 166.4m. Pkck or chalc? NOTE: From here on "cov" will be known as peacock blush, abbreviated by "pck". Only on this drill log		
167.5-170.7	Beth Porph dk grey-pink loc grey grn	Loc 168m at 30° ca	mod/ckle loc shatt	carb, ser loc chl loc cly	as abv at top of int	loc Fe	Fe (hem)	-	loc stng ser (blich) chl	ser carb loc cly locK- spar (chl)	NCu patchy	NCu cup	cpy?	wk/ mod		NCu loc stng on fract with cup at 20, 70, and ~ 0°. Fracts at 30 and 40°. wk min or barren. Check for cpy w/ maf		
170.7-172.9	Beth Porph dk grey. Pink /grey, grn /pink grn	172.2- 172.5 at 60° ca	wk/mod loc shatt	ser, carb loc cly (loc chl)	qtz/chlr < 1 cm at 40° ca	loc Fe	Fe; loc gn + red Cu stn ser (Mn)	-	chl loc stng ser	ser (chlor) carb loc cly	(NCu)	(chrys) (cup)	(cpy) pck? w/cpy	wk		Check for peacock blush (probably tarnish on cpy) Stng ser/blich with wk perv. Fe-stn above and below gge. Contact with coarser grn. Beth /Hyb at 172.9m.		

ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal perv.	deuteric fract.	supergene perv. fract.		primary perv. fract.					
172.9-174.6	Beth/Hyb cgr. grey/ grn grey		wk/mod	ser,carb loc chl	qtz/plag ~2cm at 20° ca. qtz <0.5cm at 45°		as abv		chl	ser		loc	cup	(cpy)		tr	Composite qtz/albite margins with medial quartz. Peacock bluish <u>tarnish</u> on cpy?	
174.6-177.0	Beth/Hyb cgr grey/ pale grn gry		wk/med loc bkn	ser, carb, chl	qtz<1cm w/chrys		Mn(Fe)		chl	ser		loc	cup			wk	Numerous qtz vnlt with alb margins and at various angles freq. with cuprite and/or chrys. Vague broken and subsequently healed contact with Beth Porph at bottom.	
177.0-178.4	Beth/Hyb/ Beth Porph contact w/ Guichon		wk/mod	ser, chlor carb	qtz/chrys ~0.5cm // to ca	loc grn Cu	red+grn Cu stn (Fe) (Mn)		chl	ser	chl	loc	cup	(cpy)		wk	Numerous quartz vnlt <1.0cm ~ 20° ca often with chrys and/or cup postdate contact. Contact at ~ 0°ca for most of interv.	
178.4-180.8	Beth/Hyb/ Beth Porph contact w/ Guichon		wk/mod loc shatt at at 179.6m	(chl) ser carb (loc chry)	qtz frags qtz vnlt <1cm at 20-40° ca		grn Cu ser (Fe) (Mn)		chl	ser	chl	loc	(cup)	(cpy)		wk	Comp guichon 179.7-180.8m. NCu stronger (in maf) in Guichon. Contact similar to above with contact at bottom of int at ~ 80° ca. 1.0 cm apite dykelet at 180.7m	
180.8-182.5	Beth Porph		wk/mod	ser, chl	qtz/alb vnlt w/ chrys at 40, 60, 80° ca. Vuggy		grn Cu ser (Fe) (Mn)		chl	ser	chl	(chyl)	(chyl)	NCu	(cpy)		tr	Mafics and primary min usually oxidized = perv rust spots, occ? with cpy (often with peacock bluish <u>tarnish?</u>) at center.
182.5-186.2	Beth Porph grey/ grey green		wk/mod loc stng	ser, chl carb	qtz to 2cm at var angles often vuggy		grn Cu ser (Fe) (Mn)		chl	ser.	?	(chyl)	(chyl)	(cpy)	(cpy)	tr	Numerous qtz vnlt at various angles, occ composite with alb margins and qtz core. freq with chrys occ offset. Bottom sili.	
186.2-190.3	Beth/Beth/Hyb/ Beth Porph		stn bkn top wk mid stn bkn bott	ser, (chl) (carb)	qtz to 0.5 cm blich marg albitic chrys		Fe grn Cu (Mn) (cup) (Cu)		chl	alb		(cov?)	chyl	(cpy)	NCu	tr		
190.3-193.4	Bethlehem Hybrid/Beth Porphyry grey green contact w/Guichon		wk/mod, loc ckle bx/ shatt	ser, (chl)	qtz to 2.0 cm and qtz frags vuggy	loc grn Cu	loc grn Cu, ser (Mn) (Fe)		chl	ser		loc	chyl	(cpy)			Bethlehem Hybrid/Bethlehem Porphyry. Loc ckle bx/shatt with strong chyl and green Cu stained ser. Numerous qtz veinlets at various angles often with open spaces and chyl.	
193.4-194.8	Guichon		wk/mod loc ckle	ser, chl, carb	qtz vnlt < 0.5 cm w/chyl		grn Cu ser, (Fe)		chl	chl		loc	chyl				Fracture sets // to subparallel at 60-70° C.A. closely spaced.	
194.8-198.7	Guichon/ loc 195.1.		wk/stng/shatt	ser, chl, carb	carb, qtz		Fe, Mn		chl	chl		loc	chyl			wk	Local strong chyl on fractures.	

interval (m)	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
	Hybrid, fault zone w/loc comp	197.9 m Fe stn	/int	loc cly	at 0.5 cm at 40° C.A.		grn Cu ser		loc ser	ser		chrys	cup					
198.7-200.5	Guichon/ Hybrid	loc 198.8 m	mod/stng loc bkn set at 60-80° C.A.	chl, ser, carb loc cly	qtz/2 cm at 30° C.A. open space carb vnits w/chrys	loc grn Cu stn ser	grn Cu Fe, Mn spots & dends		chl, loc ser	chl, ser carb loc cly		(loc chrys in ser)	chrys cpy maf		wk	Slip surface at 30-40° C.A.		
200.5-204.1	Guichon/ Hybrid	gge/f bx 201.1 to 202.3 & 204.1 m	fault bx w/ gge and stng fract	ser (chl) carb, cly	carb at var angles qtz vn w/ diff margins > 4 cm at bottom		Fe, Grn Cu ser, Mn		carb ser chl	car chl ser cly		loc chrys in cup (cup diss)			wk			
204.1-209.7	Guichon/ Hybrid Dykelets grey porphyry, 3 cm at 70° aplitic porphyry 3 cm at 70° qtz vnit down middle	loc 208.2 to 208.7 m at 20° C.A.	mod to stng fault bx	chl, ser, carb cly	carb var angles, qtz to 1 cm		Fe, Mn, grn Cu in ser		chl ser carb (cly in gge)	chl ser carb cly		loc chrys loc cup?	(chrys) cpy chalc		wk	Pink stained blotches Hem. Noted first <u>chalcocite</u> with cpy in K-spar associated with qtz veinlet.		
209.7-214.0	Guichon w/ aplitic porph- yry ints, Hybrid xenos		wk/mod int in sericitized set at 0° C.A. cont NCu & cup and at 80° C.A.	chl, ser, carb (cly)	carb 3 cm at 40° C.A. Fe stn addit		Fe, red Cu stn ser		K-spar & alb loc chl carb ser	ser chl carb loc cly		(NCu in maf) NCu cup			wk	Zones of diffuse K-spar alteration above and below carb vein. farther above and below pervasive ser alteration. NCu with carb vein 209.7-210.0 m. Intermingled phases pink aplitic porphyry and grey crowded porphyry. Cont qtz veinlets with cpy and chalc.		
214.0-217.5	Guichon/ Hybrid, pink aplitic porph dykelets to 20 cm at 80°	loc on vns or aplite	mod/shatt loc crush	ser, chl, carb loc cly	carb vnits qtz 2 cm at 30-40° C.A. & qtz vn frags		red+grn Cu, ser Mn, loc Fe		chl loc ser loc carb loc K-sp altn	chl ser carb loc cly		loc : chrys NCu cup	NCu chrys cup		wk			

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
217.5-221.3	Guichon/ Hybrid, pink aplite porph dykelets, pale aplite 15 cm at 70° C.A. 7 cm at 70°		wk/mod loc ckle & shatt	ser, chl, carb	qtz vn in cpy & hem at 10° C.A. cut aplite chl clots chrys in qtz vnits	loc grn Cu	grn+ red Cu stn ser, Fe	-	chl loc ser	chl ser carb	-	NCu w/chl loc : cup chrys	NCu cup chrys	-	-	tr	Pale aplite dyke cut by small qtz vein with chrys. Diffuse chloritic bands contain very fine disseminated NCu		
221.3-225.0	Guichon/ Hybrid pale aplite & pink aplitic porphyry dykelets to 3 cm at 70° C.A.		wk/mod, loc ckle sets at 0, 20, 70, & 80° C.A.	ser, chl, carb	qtz vnits 20-70° w/ chl selv, cpy in qtz vnits	loc hem	fe	-	chl loc ser	ser chl carb	-	NCu w/chl cup	NCu!!! w/chl cup	loc cpy	cpy	wk	Chloritic bands as above. Aplites cut by qtz veinlets with strong chl selvage. Strong chl/ NCu association. Assay for metallic Cu!!!		
225.0-228.7	Guichon/Hyb grey porphyry dykelet 228.2- 228.6 m at 50° C.A.		wk/mod sets at 0-5, 60 & 70° C.A.; loc ckle	chl, ser, carb	qtz vns to 4 cm at 40° C.A., vuggy	-	(Fe), red Cu stn ser	-	chl loc ser	chl ser carb	-	(NCu) (NCu)	cup (cup)	cpy w/ maf	cpy w/ chalc	wk/ mod	Distinct decrease in NCu in fract (still strongly chloritic) with increase in cpy diss and in fract and qtz vnits occurring with chalc.		
228.7-232.8	Guichon/Hyb pale grey apl & grey aplitic porph dykelets to 10 cm at 70° C.A.		wk/mod loc ckle, sets at - 0, 20 & 70° C.A.	chl, ser, carb	qtz vnits to 2 cm at 20 & 70° C.A.	loc grn Cu stn ser	grn Cu stn ser Fe	-	loc sil chl loc ser	loc sil ser chl carb	-	loc chrys	(cup) chrys	cpy w/ loc chalc	cpy	wk	Cpy with chalc and chrys in porphyry dykelet. Laminated qtz/feldspar (very local) with cpy/ chalc forming dark clots. Blue green chrys around clots and in adjacent ckle bx matrix		
232.8-233.6	Guichon, loc pink speckled		mod/stng bkn	chl, ser, (loc carb)	qtz vnits < 1 cm	(loc grn Cu stn ser)	Fe, Mn grn Cu stn ser	-	chl loc ser	chl ser (carb)	-	-	cup chrys	(cpy) (pyr)	(cpy)	wk	Cpy>pyr.		
233.6-235.8	Guichon/Hyb grey porph dyke	loc 235.2 m	stng bkn loc shatt	chl, ser, (carb) loc cly	qtz 3 cm ckled vug w/ chrys at 20° C.A.	loc Fe	Fe, Mn grn Cu ser	-	chl ser	chl ser (carb) (loc cly)	-	loc chrys	chrys (cup)	cpy (pyr)	cpy (pyr)	wk	Cpy>pyr		
235.8-238.2	Grey pophyry		stng bkn/shatt	ser, (chl) (carb)	carb vnits to 0.5 cm	-	grn Cu ser, Mn Fe	-	chl ser	chl ser (carb)	-	-	loc chrys	cpy	cpy tr mo	wk	Cpy>pyr		
238.2-240.1	Guichon/Hyb and fault bx		stng/shatt fault bx	loc cly, chl, ser, carb	carb to 0.5 cm, varied attitudes	loc Fe, (hem) in fault bx	Fe, (Mn)	-	chl ser (carb in bx mat)	chl ser carb loc cly	-	-	-	cpy	cpy pyr	tr/wk	239.2-240.1 m Fault bx, Cpy>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.				
240.1-241.9	Porphyry w/ short int fault zone at top Contains zone of polymictic bx	loc at top	stng bkn loc shatt	ser, chlr, carb loc cly	qtz to 1 cm 20-30° C.A	loc Fe in gge, & shatt zone	Fe, (poss grn Cu stn ser)	-	chlr ser	ser chl carb loc cly	-	-	(chrys)	pyr> cpy	-	tr			240.6-241.1m Healed polymictic bx with angular /subangular clasts of porphyry, Guichon etc. Matrix appears to be Guichon.
241.9-243.3	Guichon/Hyb aplitic dykelet grey porph at 90° C.A. 20 cms		wk/mod sets at 70, 80, 20° C.A. slip surface	chl, ser, (carb)	qtz vein cont from above int		Fe, (Mn)		chl ser	chl ser (carb)	-	-		cpy w/ mafic pyr	-	wk			— PREDOMINANTLY PRIMARY increase in primary pervasive over last interval. still patchy. cpy>pyr
243.3-248.0	Guichon/Hyb aplitic/apl porph dykelets at 244.1 to 5 cm at 60° C.A.		mod/stng set at 20-40° C.A. healed chl set at 0° C.A. cont carb	chl, carb, ser	carb, qtz to 0.5 cm at 10, 50° C.A.		(Fe)		(ser) chl	chl ser carb	-	-		cpy pyr	cpy Mo pyr	wk/ mod			Pink speckled Guichon > Hybrid. Cpy with mafics and in chl fracts associated with diffuse Mo. Few cms loc crushed
248.0-250.3	Grey Porphyry		stng/bkn loc ckled set at 0° C.A w/ slip	chl, ser, carb	carb, qtz vnits		(Fe)		chl (ser) loc ep w/chl	chl ser carbq	-	-		cpy pyr	pyr (cpy)	mod			Cpy>pyr
250.3-252.1	Guichon/Hyb		mod/stng bkn	chl, ser, carb	cpy close spaced at 70-80° C.A chlr banding				chl ser loc ep w/chl	chl ser carb	-	-		cpy pyr	cpy pyr	tr/wk			Noticeable increase in cpy in mafics and in fracts and as veinlets Cpy>pyr.
252.1-255.2	Guichon/Hyb (pink aplitic porph (20cm)) dykelets scatt throughout 80-90° C.A.	very loc 1 cm	mod/stng/bkn 80-90-50° C.A	chl, ser, carb	qtz to 0.5 cm at 0° C.A cpy & tr mo		(Fe)		chl loc ser loc diff ep w/ chl	chl ser carb	-	-		cpy pyr	cpy in chl pyr (mo)	wk/ mod			252.1 10cm pink aplitic porphyry. Patchy cpy ~ pyr Diffuse chlr banding with diffuse ep.
255.2-258.6	Guichon/Hyb w/short ints of grey>pink porphyry		stng bkn loc shatt	chl, ser, carb	qtz 1cm 0° C.A. cont cpy & tr mo		(Fe)		loc ser chl kaolin carb ep	chl ser carb	-	-		cpy pyr	cpy pyr (mo)	wk/ mod			Porphyry contains very fine disseminated sulphides. Cpy~pyr Best MoS ₂ noted to date!

interval (m)	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
258.6-261.6	Grey porph/ Hyb fault	short gge ints	stng/bkn shatt	chl, ser carb	qtz vnits w/ cpy>pyr & MoS ₂ at margins at 0° C.A. to 1 cm, carb vnits, micro- vnits	-	-	-	chl ser carb	chl ser carb	-	-	-	cpy> pyr	cpy pyr MoS ₂			
261.6-264.7	grey porphyry /Hyb	short gge ints	stng/bkn shatt	ser, chl, carb loc cly	carb vnits-	-	-	-	loc carb ser chl	chl ser carb loc cly	-	-	-	cpy pyr in chl clots	cpy pyr	wk mod		Cpy~pyr
264.7-267.1	Pink-grey porphyry/Hyb shatter zone	very loc	shatt	ser, carb, chl (loc cly)	chl/qtz w/ sulphides	-	-	-	chl (ser)	chl ser carb (loc cly)	-	-	-	cpy pyr	cpy pyr	tr		cpy~pyr
267.1-270.2	pink grey porphyry/Hyb	-	mod/stng loc shatt	ser, chl, carb (loc cly)	-	-	-	-	loc ser (kaolin) chl (ep)	ser chl carb (loc cly)	-	-	-	cpy pyr	cpy pyr MoS ₂	wk/ mod		cpy~pyr
270.2-273.6	Bethlehem/ Porphyry pink grey foliated	-	stng bkn/ shatt	chl, ser, carb	0, 40, 50° C.A. chl heal'd fracts w/sulphides	-	-	-	chl loc ser (ep)	ser chl carb	-	-	-	cpy pyr	cpy pyr	tr		Pyr>cpy. Numerous chl healed fracts // to C.A.
273.6-276.5	Porphyry grey-pink/ grey green	-	stng bkn/shatt sets at 0, 20, 50,60, 80° C.A.	chl, ser, carb	carb vnits < 0.5 cm at 0 & 20° C.A chl healed fracts w/ Sx	-	-	-	chl ser	chl ser carb	-	-	-	cpy pyr	cpy pyr Mo?	tr		Pervasive ser alteration increasing with depth. Check for MoS ₂ on 0o chl healed fracts with cpy and pyr. Dominant Sx mineralization on fracts at 0 and 20o C.A. Ser bleached alteration env on chl healed fracts.
276.5-279.6	Porphyry? pale grey green /dark green	-	mod/stng bkn fract sets as above	chl, ser, carb	carb vnits as abv, qtz vnits <0.5 cm w/cpy & MoS ₂	-	-	-	chl ser carb	chl ser carb	-	-	-	cpy pyr	cpy pyr MoS ₂	wk		Strong pervasive chl alteration. Strong pyr with cpy and very fine grained MoS ₂ in ~ 0 and 20° qtz vnits
279.6-280.7	Diik/Porphyry? green/dark green chl/ carb healed crush zone	-	mod/stng dis bx	chl, ser, carb	carb vnits chl healed fracts w/ Sx; pyr>cpy	loc Mn	Mn	-	chl ser carb	chl ser carb	-	-	-	pyr (cpy)	pyr (cpy)	-		Porphyry? Strongly altered/chl and carb healed crush zone/dis bx. Very strong Mn on fracts. H ₂ SO ₄ test negative.

ROCK TYPE		STRUCTURE				STAINING		ALTERATION				MINERALIZATION				MAG.	FL	REMARKS
		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
interval (m)															perv.	fract.		perv.
280.7-283.2	Porphyry? dark green/ grey green	loc	stng/bkn loc shatt	chlr, ser carb	carb vnlt	-	loc Mn	-	chlr ser carb	chlr ser carb	-	-	-	pyr (cpy)	pyr (cpy)	-	Dominant mineralized fracts at 0-20° with pyr>> cpy. Very fine grained pyr with Mn and chlr (strong) on 20° fracts.	
283.2-287.1	Guichon/Hyb grey green/ green	loc	mod/loc ckle dominant sets at 20, 50, & 80° C.A. vuggy	ser, chlr, carb loc cly	carb vnlt ~1 cm at 30 & 80° C.A. vuggy	-	-	-	chlr ser (loc carb)	chlr ser carb loc cly	-	-	-	pyr (cpy)	pyr (cpy)	wk	Guichon/Hybrid; loc pink speckled, strong ser/chlr pervasive alteration; Pink/green aplite dykelet 12.0 cm at 90° C.A. with pyr in fracts at 20° C.A.	
287.1-289.6	Guichon/Hyb grey/grey green	very loc at 30° C.A.	stng/bkn, loc shatt, sets at 0-5, 60 & 70° C.A.	ser, chlr, carb loc cly	carb vnlt <0.5 cm; aplite frags	-	-	-	chlr ser (loc carb) (loc ep)	chlr ser carb loc cly	-	-	-	pyr	loc pyr	wk	Diffuse chlr banding with diffuse ep blebs. Local strong pyr (as veinlets to ~ 1.0 cm)	
EOH 289.6 m																		

DDH 95-11

Northing: 5603996.4			DDH 95-11				Azimuth: 043		
Easting: 641495.2			Elevation: 1751.1 m				Inclination: -45		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
16426	6.1	7.6	0.03	0.02	-	-	-	-	Guichon:Fault Zone
16427	7.6	9.1	0.05	0.02	-	-	-	-	"
16428	9.1	10.6	0.04	0.02	-	-	-	-	"
16429	10.6	12.1	0.05	0.01	-	-	-	-	"
16430	12.1	13.6	0.06	0.01	-	-	-	-	"
16431	13.6	15.1	0.07	0.01	-	-	-	-	"
16432	15.1	16.6	0.07	0.03	-	-	-	-	"
16433	16.6	18.1	0.08	0.02	-	-	-	-	"
16434	18.1	19.6	0.06	0.01	-	-	-	-	Porphyry/Hybrid?:
16435	19.6	21.1	0.07	0.01	-	-	-	-	Fault Zone
16436	21.1	22.6	0.05	0.02	-	-	-	-	"
16437	22.6	24.1	0.09	0.03	-	-	-	-	"
16438	24.1	25.6	0.09	0.02	-	-	-	-	"
16439	25.6	27.1	0.22	0.12	-	-	-	-	"
16440	27.1	28.6	0.11	0.05	-	-	-	-	"
16441	28.6	30.1	0.06	0.02	-	-	-	-	Porphyry/Guichon:
16442	30.1	31.6	0.05	0.03	-	-	-	-	contact 29.5 m
16443	31.6	33.1	0.07	0.04	-	-	-	-	Guichon
16444	33.1	34.6	0.07	0.04	-	-	-	-	"
16445	34.6	36.1	0.08	0.05	-	-	-	-	Guichon:Fault Zone
16446	36.1	37.6	0.08	0.05	-	-	-	-	"
16447	37.6	39.1	0.11	0.07	-	-	-	-	"
16448	39.1	40.6	0.13	0.07	-	-	-	-	Guichon
16449	40.6	42.1	0.13	0.08	-	-	-	-	"
16450	42.1	43.6	0.12	0.07	-	-	-	-	"
16451	43.6	45.1	0.16	0.09	-	-	-	-	"
16452	45.1	46.6	0.18	0.12	-	-	-	-	"
16453	46.6	48.1	0.14	0.08	-	-	-	-	"
16454	48.1	49.6	0.23	0.10	-	-	-	-	"
16455	49.6	51.1	0.18	0.08	-	-	-	-	"
16456	51.1	52.6	0.10	0.04	-	-	-	-	Guichon:Fault Zone
16457	52.6	54.1	0.10	0.05	-	-	-	-	"
16458	54.1	55.6	0.12	0.05	-	-	-	-	"
16459	55.6	57.1	0.11	0.06	-	-	-	-	"
16460	57.1	58.6	0.13	0.07	-	-	-	-	"
16461	58.6	60.1	0.10	0.05	-	-	-	-	Guichon
16462	60.1	61.6	0.11	0.05	-	-	-	-	"
16463	61.6	63.1	0.16	0.05	-	-	-	-	Guichon/Hybrid
16464	63.1	64.6	0.16	0.05	-	-	-	-	"
16465	64.6	66.1	0.13	0.04	-	-	-	-	"
16466	66.1	67.6	0.11	0.04	-	-	-	-	"
16467	67.6	69.1	0.11	0.02	-	-	-	-	"
16468	69.1	70.6	0.13	0.02	-	-	-	-	"
16469	70.6	72.1	0.17	0.05	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16470	72.1	73.6	0.27	0.08	-	-	-	-	Guichon/Hybrid
16471	73.6	75.1	0.30	0.15	-	-	-	-	"
16472	75.1	76.6	0.66	0.57	-	-	-	-	"
16473	76.6	78.1	0.52	0.39	-	-	-	-	"
16474	78.1	79.6	0.58	0.40	-	-	-	-	"
16475	79.6	81.1	0.56	0.45	-	-	-	-	"
16476	81.1	82.6	0.63	0.50	-	-	-	-	"
16477	82.6	84.1	0.35	0.23	-	-	-	-	"
16478	84.1	85.6	0.44	0.34	-	-	-	-	"
16479	85.6	87.1	0.43	0.35	-	-	-	-	"
16480	87.1	88.6	0.63	0.53	-	-	-	-	"
16481	88.6	90.1	0.65	0.33	-	-	-	-	"
16482	90.1	91.6	0.48	0.39	-	-	-	-	"
16483	91.6	93.1	0.22	0.15	-	-	-	-	"
16484	93.1	94.6	0.70	0.61	-	-	-	-	"
16485	94.6	96.1	0.58	0.48	-	-	-	-	"
16486	96.1	97.6	0.54	0.50	-	-	-	-	"
16487	97.6	99.1	0.46	0.33	-	-	-	-	"
16488	99.1	100.6	0.51	0.40	-	-	-	-	"
16489	100.6	102.1	0.37	0.29	-	-	-	-	"
16490	102.1	103.6	0.43	0.43	-	-	-	-	"
16491	103.6	105.1	0.95	0.95	-	-	-	-	"
16492	105.1	106.6	0.69	0.62	-	-	-	-	G/H:wk Fault Zone
16493	106.6	108.1	2.24	0.40	-	-	-	-	"
16494	108.1	109.6	0.57	0.48	-	-	-	-	"
16495	109.6	111.1	0.58	0.44	-	-	-	-	"
16496	111.1	112.6	0.50	0.36	-	-	-	-	"
16497	112.6	114.1	0.38	0.25	-	-	-	-	"
16498	114.1	115.6	0.42	0.32	-	-	-	-	"
16499	115.6	117.1	0.43	0.34	-	-	-	-	Guichon/Hybrid
16500	117.1	118.6	0.45	0.32	-	-	-	-	"
16501	118.6	120.1	0.43	0.33	-	-	-	-	"
16502	120.1	121.6	0.55	0.45	-	-	-	-	"
16503	121.6	123.1	0.43	0.30	-	-	-	-	"
16504	123.1	124.6	0.21	0.06	-	-	-	-	"
16505	124.6	126.1	0.38	0.20	-	-	-	-	"
16506	126.1	127.6	0.36	0.29	-	-	-	-	G/H:w/ pink aplitic porphyry
16507	127.6	129.1	0.27	0.18	-	-	-	-	"
16508	129.1	130.6	0.04	0.02	-	-	-	-	"
16509	130.6	132.1	0.09	0.02	-	-	-	-	Bethlehem porphyry
16510	132.1	133.6	0.05	0.04	-	-	-	-	dyke
16511	133.6	135.1	0.04	0.03	-	-	-	-	"
16512	135.1	136.6	0.05	0.05	-	-	-	-	"
16513	136.6	138.1	0.05	0.03	-	-	-	-	"
16514	138.1	139.6	0.05	0.04	-	-	-	-	"
16515	139.6	141.1	0.04	0.02	-	-	-	-	"
16516	141.1	142.6	0.03	0.03	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16517	142.6	144.1	0.04	0.02	-	-	-	-	Bethlehem porphyry
16518	144.1	145.6	0.05	0.04	-	-	-	-	dyke
16519	145.6	147.1	0.06	0.03	-	-	-	-	"
16520	147.1	148.6	0.04	0.01	-	-	-	-	"
16521	148.6	150.1	0.06	0.02	-	-	-	-	"
16522	150.1	151.6	0.05	0.02	-	-	-	-	"
16523	151.6	153.1	0.04	0.02	-	-	-	-	"
16524	153.1	154.6	0.04	0.01	-	-	-	-	"
16525	154.6	156.1	0.02	0.01	-	-	-	-	"
16526	156.1	157.6	0.03	0.01	-	-	-	-	"
16527	157.6	159.1	0.04	<.01	-	-	-	-	Beth. porph. dyke:
16528	159.1	160.6	0.01	<.01	-	-	-	-	wk Fault Zone
16529	160.6	162.1	0.02	<.01	-	-	-	-	"
16530	162.1	163.6	0.03	<.01	-	-	-	-	"
16531	163.6	165.1	0.03	<.01	-	-	-	-	"
16532	165.1	166.6	0.04	0.01	-	-	-	-	"
16533	166.6	168.1	0.05	0.02	-	-	-	-	"
16534	168.1	169.6	0.04	0.01	-	-	-	-	"
16535	169.6	171.1	0.04	0.01	-	-	-	-	"
16536	171.1	172.6	0.03	<.01	-	-	-	-	"
16537	172.6	174.1	0.21	0.05	-	-	-	-	Bethlehem/Hybrid
16538	174.1	175.6	0.26	0.05	-	-	-	-	"
16539	175.6	177.1	0.36	0.13	-	-	-	-	"
16540	177.1	178.6	0.40	0.18	-	-	-	-	Beth./Hyb/Guichon:
16541	178.6	180.1	0.31	0.16	-	-	-	-	contact
16542	180.1	181.6	0.36	0.11	-	-	-	-	"
16543	181.6	183.1	0.36	0.15	-	-	-	-	Bethlehem Porphyry
16544	183.1	184.6	0.26	0.08	-	-	-	-	"
16545	184.6	186.1	0.38	0.13	-	-	-	-	"
16546	186.1	187.6	0.37	0.27	-	-	-	-	"
16547	187.6	189.1	0.52	0.12	-	-	-	-	"
16548	189.1	190.6	0.42	0.14	-	-	-	-	"
16549	190.6	192.1	0.30	0.21	-	-	-	-	Beth. Hyb./Beth.
16550	192.1	193.6	0.31	0.21	-	-	-	-	Porph./Guich.:contact
16551	193.6	195.1	0.30	0.22	-	-	-	-	Guichon
16552	195.1	196.6	0.12	0.08	-	-	-	-	G/H:Fault Zone
16553	196.6	198.1	0.20	0.14	-	-	-	-	"
16554	198.1	199.6	0.23	0.19	-	-	-	-	Guichon/Hybrid:wk
16555	199.6	201.1	0.27	0.09	-	-	-	-	Fault Zone
16556	201.1	202.6	0.22	0.08	-	-	-	-	"
16557	202.6	204.1	0.27	0.23	-	-	-	-	"
16558	204.1	205.6	0.49	0.39	-	-	-	-	"
16559	205.6	207.1	0.50	0.27	-	-	-	-	"
16560	207.1	208.6	0.48	0.15	-	-	-	-	"
16561	208.6	210.1	0.17	0.02	-	-	-	-	"
16562	210.1	211.6	0.18	0.04	-	-	-	-	Guichon
16563	211.6	213.1	0.27	0.03	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16564	213.1	214.6	0.39	0.04	-	-	-	-	Guichon
16565	214.6	216.1	0.20	0.16	-	-	-	-	Guichon/Hybrid
16566	216.1	217.6	0.56	0.14	-	-	-	-	"
16567	217.6	219.1	0.23	0.10	-	-	-	-	"
16568	219.1	220.6	0.29	0.13	-	-	-	-	"
16569	220.6	222.1	0.32	0.05	-	-	-	-	"
16570	222.1	223.6	0.26	0.03	-	-	-	-	"
16571	223.6	225.1	0.28	0.03	-	-	-	-	"
16572	225.1	226.6	0.19	0.01	-	-	-	-	"
16573	226.6	228.1	0.17	0.01	-	-	-	-	"
16574	228.1	229.6	0.26	0.02	-	-	-	-	"
16575	229.6	231.1	0.30	0.01	-	-	-	-	"
16576	231.1	232.6	0.33	0.04	-	-	-	-	"
16577	232.6	234.1	0.44	0.10	-	-	-	-	Guichon
16578	234.1	235.6	0.61	0.16	-	-	-	-	Guichon/Hybrid/grey
16579	235.6	237.1	0.53	0.05	-	-	-	-	porphyry
16580	237.1	238.6	0.59	0.02	-	-	-	-	Grey Porphyry
16581	238.6	240.1	0.66	-	1.1	0.03	5	0.001	Guichon/Hybrid
16582	240.1	241.6	0.70	-	0.6	0.02	5	0.002	Porphyry
16583	241.6	243.1	0.78	-	0.7	0.02	5	0.007	Guichon/Hybrid
16584	243.1	244.6	0.64	-	0.6	0.02	5	0.003	"
16585	244.6	246.1	0.61	-	0.5	0.02	5	0.004	"
16586	246.1	247.6	0.53	-	0.5	0.02	5	0.011	"
16587	247.6	249.1	0.29	-	0.2	0.01	5	0.010	Grey Porphyry
16588	249.1	250.6	0.51	-	0.4	0.01	5	0.014	"
16589	250.6	252.1	0.68	-	0.6	0.02	5	0.024	Guichon/Hybrid
16590	252.1	253.6	0.34	-	0.3	0.01	5	0.007	"
16591	253.6	255.1	0.50	-	0.4	0.01	5	0.002	"
16592	255.1	256.6	0.74	-	0.6	0.02	5	0.016	G/H/ w/ grey porph.
16593	256.6	258.1	0.22	-	0.2	0.01	5	0.005	"
16594	258.1	259.6	0.39	-	0.2	0.01	5	0.296	Grey Porphyry/Hyb.:
16595	259.6	261.1	0.25	-	0.1	<.01	5	0.017	Fault Zone
16596	261.1	262.6	0.51	-	0.2	0.01	5	0.016	"
16597	262.6	264.1	0.40	-	0.1	<.01	5	0.013	"
16598	264.1	265.6	0.38	-	0.1	<.01	5	0.003	Pink-grey Porph/Hyb.
16599	265.6	267.1	0.32	-	0.2	0.01	5	0.002	"
16600	267.1	268.6	0.33	-	0.2	0.01	5	0.003	"
16601	268.6	270.1	0.21	-	0.2	0.01	5	0.002	"
16602	270.1	271.6	0.10	-	0.1	<.01	5	0.001	Beth./Porphyry
16603	271.6	273.1	0.23	-	0.1	<.01	5	0.001	"
16604	273.1	274.6	0.06	-	0.1	<.01	5	<.001	Porphyry
16605	274.6	276.1	0.26	-	0.1	<.01	5	0.003	"
16606	276.1	277.6	0.33	-	0.3	0.01	5	0.003	"
16607	277.6	279.1	0.29	-	0.2	0.01	5	0.002	"
16608	279.1	280.6	0.34	-	1.0	0.03	5	0.046	Porphyry??
16609	280.6	282.1	0.16	-	1.0	0.03	5	0.049	"
16610	282.1	283.6	0.04	-	0.2	0.01	5	0.005	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
16611	283.6	285.1	0.07	-	0.1	<.01	5	0.001	Guichon/Hybrid
16612	285.1	286.6	0.13	-	0.1	<.01	5	0.001	"
16613	286.6	288.1	0.07	-	0.1	<.01	5	<.001	"
16614	288.1	289.6	0.10	-	0.2	0.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-12	Date	03-Sep							Logged by	VN								
Elevation	1754.8 m	Azimuth	-							Northing:	5604178.0								
Inclination	-90	Length	146.0 m							Easting:	641543.6								
ROCK TYPE		FAULT	FRACTURE	FRACTURE	VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)	GOUGE	INTENSITY	SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary							
								perv.	fract.		perv	fract	perv	fract					
12.2-16.9	Guichon/Hyb? stng weath and Fe stn	loc	int/crushed	ser, chlr carb, cly	-	Fe	Fe	Fe: hem/jar cly	ser chlr carb	ser chlr carb	-	-	-	-	-	-	Mud at top of interval. More competent, strong chlr/ser alt Guich/hyb? 12.7-14.5 m and 15.6-16.9m, crushed, stng alt and Fe(hem, jar) stained between.		
16.9-19.9	Guichon	?	as abv	ser, chlr, loc-carb, loc cly	-	loc Fe	Fe	Fe, (cly)	ser chlr loc-carb loc-cly	ser chlr loc-carb loc-cly	-	-	-	-	-	-	Stng chlr/ser alt, less strongly weath than above but nearly complete ser alt with poss kaolin.		
19.9-23.5	Guichon, loc stng weath	loc	stng/int, loc crushed, sets at 50-80° ca	ser, chlrl, carb loc cly	carb vnlt	loc Fe	Fe	as abv	asabv	asabv	-	-	-	-	-	-	Int fract'd/crushed 19.9-20.9 and at bottom of interval. More comp Guich between closely spaced (~ 2.0 cm) fract's sets. Alt as above.		
23.5-26.8	as abv	-	int/crushed	as abv	-	loc Fe	Fe	as abv	asabv	asabv	-	-	-	-	-	-	Fract and alt as above.		
26.8-30.5	Guichon Fault/crush zone	30.0-30.5 m	as abv	ser, chl, carb cly	-	asabv	Fe	asabv	asabv	asabv	-	-	-	-	-	-	Fault/crush zone with short sections of stng fract'd Guich. Complete ser alt with kaolin?/ gge at bottom.		
30.5-33.2	Guichon, fault zone	-	stng/int/ crushed, loc fault bx	chl, ser carb loc cly	-	as abv	Fe	-	ser, chl, loc cly carb	ser, chl, loc cly carb	-	-	(chrys)	-	-	-	Trace chrys in bx at bottom of interval. Clay to coarse sand size in bx matrix.		
33.2-34.1	Guichon loc pink speckled	-	stng/shatt	chl, ser loc carb	-	-	grn-Cu stn ser, Fe	-	ser, chl	ser, chl	-	-	(chrys)	-	-	-	First consistent occ of Cu-stn ser and chrys on fract's		
34.1-38.0	Guichon/Hyb loc pink spckld	-	stng/shatt loc dis bx	chl, ser (carb)	-	-	as abv loc stng Mn	-	asabv	ser, (carb)	-	-	chrys	-	-	tr	Guich/hyb with partial assim mafic xenolith. Decreasing perv ser alt		
38.0-41.2	Guichon/Hyb loc pink spckld	-	stng ckle/dis bx	asabv, loc cly	qtz vnlt <0.5cm at 40° ca with chrys	-	grn Cu-stn ser Fe, Mn	-	asabv	ser, chl, (carb) loc cly	-	-	(chrys)	-	-	tr	Guich/hyb with diff chl, banding near qtz vnlt		
41.2-45.0	Guichon/Hyb shatter zone	-	stng/shatt loc ckle dis bx	chl, ser	qtz vnlt and frags	loc grn Cu-stn ser, loc Fe	as abv	-	ser chl	ser chl	-	loc chrys	chrys	-	-	-	Guich/hyb? shatter zone with loc ckle to dis bx. Perv chrys in bx matrix with loc perv chrys stain elsewhere.		
45.0-50.1	Guichon/Hyb fault zone	48.5-48.7m	ckle/dis bx loc gge	loc cly, chl, ser, carb in gge	qtz vn frags in bx matrix	v loc Fe loc grn Cu-stn ser	Fe,(Mn) grn Cu-stn ser	-	ser chl, loc cly carb	chl, ser loc cly	-	loc chrys	chrys	-	-	-	Guich/Hyb, fault zone with dis bx and gge. Short zones of perv grn Cu-stn in bx mat and in more competent sections.		

ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal perv.	fract.	deuteric	supergene perv fract		primary perv fract				
50.1-53.7	Guichon/Hyb	-	mod/stng bkn loc ckle, sets at 20d + 60- 70 d ca	chl, ser	qtz vnits <0.5 cm w/ chys, carb	(loc grn Cu-stn ser)	loc stng Mn dends	-	chl ser	chl ser	-	(loc chys)	loc stng chys	-	-	wk		Guich/hyb with loc perv chys staining. Dominant fract sets at 60-70° ca
53.7-54.6	Guichon/Hyb	-	wk/mod	chl, ser	qtz vnits <0.5 cm	-	Fe (grn Cu-stn ser) Mn	-	as abv	asabv	-	-	(chys)	-	-	wk		Guich/hyb, comp; with partial assim xenoliths. Lt blue-grey efflorescence on fracts
54.6-57.4	Guichon/Hyb	~ 1cm, 57.4 m at 10° ca	shatt	cly, ser, chl (carb)	qtz vnits <1cm at 10° ca	grn Cu- stn ser	grn Cu- stn ser (Mn) Fe	-	as abv	ser, chl (carb)	-	chrys, stn	chrys	-	-	tr		Gouge stng H ₂ SO ₄ pos
57.4-61.0	Guichon/Hyb Fault zone	~ 1 cm, 57.5 m at 10°(or 1.0) to ca	dis bx	loc cly, ser chl, loc carb	qtz vn frags	as abv in bx mat	as abv	-	ser, chl loc- carb	ser chl, loc carb	-	chrys stn in bx mat	chrys	-	-	tr		Guich/hyb dis bx with open spaces.
61.0-66.8	Guichon/Hyb? Fault zone	-	dis bx	as abv	qtz vn frags	as abv	asabv	-	loc stng ser, chl	as abv	-	asabv	asabv	-	-	-		As abv. Poor core recovery in this interval.
66.8-71.3	Guichon Fault zone	-	asabv	chl, ser, loc- cly, loc carb	as abv	asabv	grn Cu- stn ser, (Mn)(Fe)	-	chl, ser	as abv	-	asabv	chrys cup?	-	-	-		Increase in chrys on fracts. Voids in bx.
71.3-75.2	Guichon Fault zone	-	asabv	cly, (chl) ser	as abv	grn Cu- stn ser in bx mat (Fe in bx matrix)	asabv	-	asabv	cly (chl) ser	-	loc chrys	loc chrys	-	-	-		Dis bx matrix H ₂ SO ₄ pos. Loc stng chrys in dis bx matrix (as blebs). Alt in bx increases with depth.
75.2-77.0	Guichon Fault zone	76.8m, 5cm at 50° ca	dis bx	cly, ser, chl	qtz vn frags	grn Cu- stn ser in bx mat (Fe in bx mat)	grn Cu- stn ser (Fe)(Mn)	-	chl ser	cly, ser chl	-	chrys stn in bx mat	-	-	-	-		Guich, some clasts in bx still pink speckled. H ₂ SO ₄ pos in gge and bx matrix
77.0-79.5	Guichon Fault zone	76-76.3m & 79.3m	as abv	cly, ser, (chl)	-	jar, loc hem	Fe	-	as abv	ser (chl)	-	asabv	-	-	-	-		40 Degree slip surface at 76.3m gge, sense of movement at 30° ca. Interval is stng ser alt/blch with perv Fe stn increasing with depth.
79.5-82.0	Guichon Fault zone	-	ckle/dis bx sets at ~ 35° ca	ser,(cly), (chl)	-	jar, stng loc hem	Fe	-	ser chl	ser (cly) (chl)	-	-	-	-	(pyr?)	tr		Perv ser alt/blch decreases with depth. Perv jar stn with loc intense hem stn.
82.0-83.7	Guichon	-	ckle bx sets at 0 and 30°	ser,(chl)	chl, healed fracts with pyr	loc Fe at top	Fe at top	-	chl, ser	ser (chl)	-	-	-	-	pyr	-		Brief gradation from Fe-stained to unstained Guich at top of interval. Perv vlch. Check for Mo. Diff chl patches with ep?
83.7-87.2	Guichon grey green/ green	-	stng/shatt loc ckle bx	ser, chl (carb)(cly)	as abv	-	-	-	chl, ser	chl ser (carb) (cly)	-	-	-	-	pyr	-		Guich, strongly fract/shatt with stng perv chl alt Numerous chl healed fracts at various angles with pyr 1-2 mm.

		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		
87.2-90.5	fault zone	short sectns	gge/fault bx	cly, ser, chl loc carb	as abv	loc Fe (hem)	(loc Fe)	-	as abv	chl ser cly,loc- carb	-	-	-	loc pyr	pyr	tr	Fault zone, bx and gge with loc stng blebs or pyr Gouge and bx mat H ₂ SO ₄ neg
90.5-94.2	Hyb? grey grn with red(hem) patches	-	shatt/dis bx	loc cly, ser, chl	as abv	loc hem	-	-	as abv	ser chl loc cly	-	-	-	?	pyr	-	Stng chl/ser alt dis bx with red hematitic patches
94.2-96.8	Guichon/Hyb? grey porph?	-	stng/shatt	as abv	as abv	-	-	-	as abv	asabv	-	-	-	cpy?	pyr	-	Check for MoS ₂ in fract.
96.8-99.2	grey porph? fault zone	loc 97.8- 98.2 m	int/shatt loc crushed	cly, ser (chl)	chl healed fracts with pyr	-	-	-	as abv	cly,ser (chl)	-	-	-	pyr	pyr	-	Stng perv chl/ser alt gery porph? with loc pink speckles.
99.2-102.0	Porph grey/pink	100.2m very loc	as abv	ser, (chl)	as abv	-	-	-	(ep) chl, ser	ser (chl)	-	-	-	(pyr)	pyr	-	Grey-pink porph stng chl/ser alt with stng pyr on fract.
102.0-104.8	Porph, grey/ pink	-	stng/ckle loc shatt	ser, chl	chl healed fracts with S _x	-	-	-	chl ser	chl ser	-	-	-	pyr	MoS ₂ pyr (cpy)	tr	Tr MoS ₂ in chl healed fracts with pyr.
104.8-107.2	Porph, grey/ pink patchy altered	-	stng/shatt	ser, chl	as abv	-	-	-	chl, patchy ser	chl ser w/pyr	-	-	-	pyr	pyr	wk	Coarser texture than most other porphyries logged to date. Beth bleached along fract.
107.2-109.5	Porph, grey/ pink loc stng pink	loc at 109.4	stng/shatt sl stng than above	ser, chl, (cly) (carb)	chl/qtz heal'd fracts w/ pyr/vnlts	-	-	-	chl, patchy ser	chl ser w/ pyr	-	-	-	pyr	pyr (cpy?)	wk	Beth as abv. Noted coarsening and "finining" of porph. Locally with Beth-like texture and coarse- ness.
109.5-112.3	Porph/Beth grey/pink coarser	loc at 111	stng/shatt	ser, chl, loc cly	chl/qtz healed fracts w/ ser	-	-	-	as abv	chl, ser	-	-	-	pyr Mag patchy in maf	pyr (cpy)	wk loc- stng	As abv, with variation in pink and coarseness and fineness.
112.3-115.0	Porph/Beth grey/pink aplitic imp	-	as abv	ser, chl (loc cly)	loc pyr vnlts chl/qtz heal'd fracts with S _x	-	Tr Fe	-	as abv (ep) (alb?)	as abv (ep)	-	-	-	pyr	pyr	as abv	Stng zones of diffuse aplitic impregnation. Loc Guich at 117.3m.
115.0-117.3	Porph/Beth grey/pink aplitic imp	-	asabv	chl, (ser)	chl/qtz heal'd fracts	-	-	-	chl patchy ser,alb loc	chl ser	-	-	-	(pyr)	pyr	wk	Chilled contact against Guich at 117.3 m
117.3-121.4	Guichon	-	wk/mod loc bkn	chl, ser (carb)	qtz chl heal'd fracts pyr vnlts	-	-	-	chl (ser)	chl ser (carb)	-	-	-	(pyr)	pyr	wk/ mod	Xenolith 10 cm at 118.6 fine mafic rich
121.4-124.6	Guichon, loc pink speckled	loc gge	mod/loc shatt	chl,ser, carb, loc cly	as abv carb vnlts <0.5cm	-	-	-	as abv	chl ser carb (loc cly)	-	-	-	(pyr)	pyr	wk/ mod	Broader chlorite fracture filling at 60° ca
124.6-128.0	Guichon	loc gge at 125.7m w/ pyr	wk/mod loc shatt	as abv	chl with some qtz	-	-	-	chl (ser)	chl ser loc cly carb	-	-	-	(pyr)	pyr	wk/ mod	Broader chl bands at 40, 50, and 70° ca. Porph section 127-127.5m in shattered section.

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				
128.0-132.3	Guichon	loc gge at 129.8 w/ pyr	shatt/bkn	chl, ser, loc cly, loc carb	chl	-	-	-	chl (ser)	chl ser	-	-	-	(pyr) w/maf	pyr cpy	wk/mod		Chlr bands as above. Patch ep? Pyr>>cpy.	
132.3-135.9	Guichon	-	shatt/wk	chl, ser, carb (cly)	moly?/carb at 40° <1cm	-	-	-	as abv	chl ser carb (cly) (ep?)	-	-	-	as abv	pyr			Guich, grey with mottled pink patches. Check for Mo. Ep?	
135.9-139.7	Guichon	-	mod/bkn	chl, (ser) carb, (cly)	chl healed fract	-	(hem)loc	-	as abv	(ep?) chl (ser) carb (cly)	-	-	-	as abv	(cpy) pyr	mod		Guich as above. Pyr>>cpy. Fract set at 30 & 90°	
139.7-143.2	Guichon	-	as abv	carb, chl,ser	pink porph? at 40° <2cm at 141.0 pink porph? ~ 100(?) cm at 141.5 w/ ep?	-	-	-	as abv	(ep?) chl ser carb	-	-	-	(pyr) w/maf	pyr	mod-loc		Ep generally assoc with chl healed fract.	
143.2-146.0	Guichon	145.4 at 50° < 1cm	wk	chl,ser,carb	Moly? pyr & qtz at <10° ~ 1 cm at 145.5	-	(hem)loc	-	chl ser	chl ser carb	-	-	-	(pyr) w/maf	pyr (Mo?)			Check for Mo in pyr, qtz vein at 145.5. Fract set at 30 and 60°	
EOH 146.0 m																			

DDH 95-12

Northing: 5604178.0			DDH 95-12				Azimuth: -		
Easting: 641543.6			Elevation: 1754.8 m				Inclination: -90		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
16615	30.5	32.0	0.16	0.06	-	-	-	-	Guichon:Fault Zone
16616	32.0	33.5	0.24	0.14	-	-	-	-	"
16617	33.5	35.0	0.44	0.36	-	-	-	-	Guichon
16618	35.0	36.5	0.43	0.34	-	-	-	-	Guichon/Hybrid
16619	36.5	38.0	0.57	0.43	-	-	-	-	"
16620	38.0	39.5	0.75	0.58	-	-	-	-	"
16621	39.5	41.0	0.54	0.38	-	-	-	-	"
16622	41.0	42.5	0.99	0.72	-	-	-	-	G/H:shattered
16623	42.5	44.0	0.58	0.49	-	-	-	-	"
16624	44.0	45.5	0.96	0.74	-	-	-	-	"
16625	45.5	47.0	0.92	0.72	-	-	-	-	G/H:Fault Zone
16626	47.0	48.5	0.53	0.44	-	-	-	-	"
16627	48.5	50.0	0.56	0.47	-	-	-	-	"
16628	50.0	51.5	0.60	0.46	-	-	-	-	Guichon/Hybrid
16629	51.5	53.0	0.73	0.62	-	-	-	-	"
16630	53.0	54.5	0.57	0.49	-	-	-	-	"
16631	54.5	56.0	0.73	0.61	-	-	-	-	"
16632	56.0	57.5	0.55	0.45	-	-	-	-	"
16633	57.5	59.0	0.59	0.48	-	-	-	-	G/H:Fault Zone
16634	59.0	60.5	0.71	0.57	-	-	-	-	"
16635	60.5	62.0	0.70	0.55	-	-	-	-	"
16636	62.0	63.5	0.44	0.38	-	-	-	-	"
16637	63.5	65.0	0.60	0.52	-	-	-	-	"
16638	65.0	66.5	0.49	0.44	-	-	-	-	"
16639	66.5	68.0	0.55	0.49	-	-	-	-	Guichon:Fault Zone
16640	68.0	69.5	0.45	0.39	-	-	-	-	"
16641	69.5	71.0	0.53	0.50	-	-	-	-	"
16642	71.0	72.5	0.53	0.51	-	-	-	-	"
16643	72.5	74.0	0.50	0.42	-	-	-	-	"
16644	74.0	75.5	0.61	0.53	-	-	-	-	"
16645	75.5	77.0	1.14	0.91	-	-	-	-	"
16646	77.0	78.5	0.50	0.26	-	-	-	-	"
16647	78.5	80.0	0.20	0.02	-	-	-	-	"
16648	80.0	81.5	0.12	0.02	-	-	-	-	"
16649	81.5	83.0	0.09	0.01	-	-	-	-	Guichon
16650	83.0	84.5	0.26	0.02	-	-	-	-	"
16651	84.5	86.0	0.15	0.02	-	-	-	-	"
16652	86.0	87.5	0.27	0.03	-	-	-	-	"
16653	87.5	89.0	0.26	-	0.3	0.01	5	0.006	Fault Zone
16654	89.0	90.5	0.12	-	0.2	0.01	5	0.006	"
16655	90.5	92.0	0.16	-	0.2	0.01	5	0.002	Hybrid?
16656	92.0	93.5	0.13	-	0.5	0.02	5	0.002	"
16657	93.5	95.0	0.14	-	0.7	0.02	5	0.003	Guichon/Hybrid/
16658	95.0	96.5	0.08	-	0.4	0.01	5	0.003	grey Porphyry?

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16659	96.5	98.0	0.24	-	0.2	0.01	5	0.010	Grey Porphyry:
16660	98.0	99.5	0.15	-	0.3	0.01	5	0.005	Fault Zone
16661	99.5	101.0	0.11	-	0.2	0.01	5	0.022	Grey/pink Porphyry
16662	101.0	102.5	0.16	-	0.2	0.01	5	0.003	"
16663	102.5	104.0	0.10	-	0.2	0.01	5	0.006	"
16664	104.0	105.5	0.06	-	0.4	0.01	5	0.007	"
16665	105.5	107.0	0.06	-	0.1	<.01	5	0.005	"
16666	107.0	108.5	0.05	-	0.2	0.01	5	0.002	"
16667	108.5	110.0	0.05	-	0.3	0.01	5	0.001	"
16668	110.0	111.5	0.05	-	0.2	0.01	5	0.002	"
16669	111.5	113.0	0.05	-	0.2	0.01	5	0.001	"
16670	113.0	114.5	0.04	-	0.1	<.01	5	0.005	"
16671	114.5	116.0	0.07	-	0.1	<.01	5	0.003	"
16672	116.0	117.5	0.05	-	0.1	<.01	5	0.003	"
16673	117.5	119.0	0.05	-	0.4	0.01	5	0.001	Guichon
16674	119.0	120.5	0.05	-	0.3	0.01	5	0.002	"
16675	120.5	122.0	0.08	-	0.8	0.02	5	0.004	"
16676	122.0	123.5	0.08	-	0.4	0.01	10	0.002	"
16677	123.5	125.0	0.08	-	0.5	0.02	10	<.001	"
16678	125.0	126.5	0.08	-	0.4	0.01	20	0.004	"
16679	126.5	128.0	0.11	-	0.5	0.02	10	0.010	"
16680	128.0	129.5	0.14	-	0.4	0.01	5	0.005	"
16681	129.5	131.0	0.10	-	0.3	0.01	5	0.003	"
16682	131.0	132.5	0.10	-	0.3	0.01	5	0.004	"
16683	132.5	134.0	0.10	-	0.4	0.01	5	0.015	"
16684	134.0	135.5	0.09	-	0.3	0.01	10	0.003	"
16685	135.5	137.0	0.13	-	0.2	0.01	20	0.001	"
16686	137.0	138.5	0.23	-	0.4	0.01	15	0.010	"
16687	138.5	140.0	0.31	-	0.4	0.01	25	0.007	"
16688	140.0	141.5	0.10	-	0.2	0.01	5	0.002	"
16689	141.5	143.0	0.10	-	0.3	0.01	5	0.001	"
16690	143.0	144.5	0.04	-	0.2	0.01	5	0.001	"
16691	144.5	146.0	0.07	-	0.2	0.01	5	0.004	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-13	Date	04-Sep	Logged by	PM	Elevation	1754.8 m	Azimuth	045	Northing:	5614176.3	Inclination	-45	Length	181.7 m	Easting:	641543.3		
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					
15.2-19.2	Tuff/ash? Unconformity contact	-	wk	(ser) carb	-	(loc Fe)	loc Fe	Fe cly	ser cly	-	-	-	-	(py)	-	-	Tuff/ash?-creamy grey with occasional mottled pink, mafics ----> chl; crystals of py. Texture of host rock barely discernable. Occasional crystals of ser-feld, Fe stain at bottom of int. Ep?, rounded qtz crystals.		
19.2-25.8	Guichon?	25.6 at 10° C.A. < 0.5 cm	stng	ser,cly, carb	-	Fe	Fe	Fe cly	ser cly chlr	ser cly chlr	-	-	-	-	-	wk	Stng Fe staining and alter of feldspars and mafics H ₂ SO ₄ (-ve)		
25.8-29.1	Guichon?	-	stng	ser, (chlr), (cly)	-	loc Fe	loc Fe	Fe cly	ser cly chlr	ser (chlr) (cly)	-	-	-	-	-	-	H ₂ SO ₄ -ve, Fe stain brown to red. Fract set 30°		
29.1-32.7	Guichon	dis bx at 32.0-32.0 m	shatt	chlr, ser, (carb) (cly)	-	loc Fe	loc Fe	Fe cly	ser cly chlr	chlr ser (carb) (cly)	-	-	-	-	-	wk	Competent section: 30.0-31.6m. Weak magnetic Fract set 50°. H ₂ SO ₄ -ve.		
32.7-36.3	Guichon?	-	ckle bx?/ collapse of rock fabric	chlr, ser, cly carb	-	loc Fe	loc Fe	Fe cly	ser chlr cly	chlr ser carb cly	-	-	-	-	-	-	Rock fabric has collapsed, rock is crumbly and friable. Bleached sections.		
36.3-39.1	Guichon?	-	int shatt?	ser, carb (cly)	-	-	loc Fe	Fe cly	ser chlr cly	ser carb (cly)	?	-	-	-	-	-	As abv		
39.1-42.6	Guichon?	-	int shatt?	ser, cly	-	loc Fe	loc Fe	Fe cly	ser chlr cly	ser cly	?	-	-	-	-	-	As abv. Fe stain--brown to red. H ₂ SO ₄ -ve.		
42.6-45.9	Guichon?	loc 44.6 m	int shatt loc diss bx	ser, (chlr) loc cly	-	loc Fe	loc Fe	Fe cly	ser chlr loc cly	ser (chlr) loc cly	-	-	-	-	-	-	H ₂ SO ₄ -ve. Rock is friable and crumbly. Fe stain brown to reddish brown.		
45.9-53.1	Guichon?	-	dis bx 50.8-53.1 m	cly, loc carb ser	-	loc Fe	Fe loc black stain	Fe cly	ser chlr cly	loc cly carb ser	-	-	-	-	-	-	H ₂ SO ₄ -ve, stng alteration in dis bx.		
53.1-57.0	Guichon	-	dis bx 57.0-57.7 m	cly, ser, loc carb	carb vn frags	-	Cu-grn stain, Fe	Fe cly	ser chlr loc cly	cly, ser loc carb	-	-	chrys	-	-	-	Dislocation breccia, H ₂ SO ₄ +ve.		

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				
57.0-60.3	Guichon/ Hybrid	-	ckle bx/shatt	cly, ser, (chlr), carb	-	loc Fe	Fe	Fe cly	ser chlr carb in bx mat cly	cly, ser chlr	-	-	cup (chrys) NCu	-	-	-	-	-	Cuprite. H ₂ SO ₄ +ve
60.3-64.5	Guichon/ Hybrid	-	ckle bx/shatt	cly, ser, (chlr), carb	-	-	Fe	Fe cly	ser chlr cly in bx mat	cly, ser (chlr) carb	-	-	(chrys)	-	-	-	-	-	H ₂ SO ₄ -ve in heavy hem stained areas.
64.5-68.0	Guichon/ Hybrid	-	ckle bx/shatt	cly, ser, chlr	-	loc Fe	Fe	Fe cly	cly ser chlr	cly, ser chlr	-	-	-	-	-	-	-	-	H ₂ SO ₄ -ve. Black stain on fract in hem H ₂ SO ₄ -ve Stngly altered rock, clays in fract of ckle bx
68.0-71.9	Guichon/ Hybrid	70.7 at 25° C.A. < 0.5 cm	bkn/shatt dis bx	cly, ser, (chlr)	-	loc Cu- grn stn	Fe, (Mn)	Fe cly	ser chlr cly]	cly, ser (chlr)	-	-	(chrys)	-	-	loc- wk	-	-	Stngly altered and Cu stained albitized sections. Gge at 70.7 m H ₂ SO ₄ +ve. Hem stain area H ₂ SO ₄ +ve weakly
71.9-75.8	Guichon/ Hybrid?	-	dis bx/ckle bx	cly, ser, (chlr) (carb)-loc	carb vnnts frags	Loc- (Cu-grn stain)	Fe (Cu grn stn)	Fe cly	(cly) ser chlr (loc carb)	cly ser (chlr) (loc carb)	-	-	(chrys)	-	-	-	-	-	H ₂ SO ₄ +ve areas. Rock continues to be friable and crumbly.
75.8-79.7	Guichon/ Hybrid	-	ckle/bx shatt	cly, ser, chlr (carb)	carb vn frag	-	loc-Cu grn stain Fe	Fe cly	(ser) chlr	cly ser (chlr) (loc carb)	-	-	(chrys)	-	-	-	-	-	H ₂ SO ₄ +ve loc
79.7-83.5	Guichon/ Hybrid	-	stng bkn	cly, ser, chlr loc carb	carb vn frag	-	Fe	Fe cly	(ser) chlr	cly ser (chlr) (loc carb)	-	-	(chrys)	-	-	-	-	-	As abv. Some competent sections.
83.5-87.2	Guichon/ Hybrid	-	bkn/shatt loc dis bx	cly, ser, (carb) chlr	-	-	Fe, Cu stain ser	Fe cly	(ser) chlr	cly, ser chlr (carb)	-	-	chrys trace (cup)?	-	-	tr	-	-	Fract 65° C.A. Check for cup. Dislocation bx wkly H ₂ SO ₄ +ve
87.2-91.0	Guichon/ Hybrid?	88.7 at 60° C.A. <2 cm 90.2 at 10° C.A. < 2 cm	ckle bx faulted	ser, (chlr), cly	-	loc Fe	Fe, loc- Cu grn (Mn)	Fe cly	(ser) chlr	(chlr) ser cly	-	-	chrys in bx matrix	Mn (chrys)	-	-	-	-	Mn massive at 87.8 m: H ₂ SO ₄ +ve. This section should grade well.
91.0-93.8	Guichon	-	stng/bkn	ser, cly, chlr carb, Mn	healed Fe fract	-	Fe	Fe cly	(ser) chlr	ser, cly chlr carb	-	-	?	-	-	-	-	-	Stng hem stain on fract. ?--some H ₂ SO ₄ +ve sections.

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.			
93.8-97.6	Guichon/ Hybrid?	-	ckle dis bx	ser.(cly) chl	carb vn frag	loc-Cu grn	Fe, Mn	Fe hem	(ser) chl	ser, (cly) chl	-	loc Cu stain	(chrys)	-	-	-	-	Mn-massive-? Extremely stng hem stain in fract Fract 30-60° C.A. Should grade well.
97.6-100.9	Guichon/ Hybrid?	-	dis bx/ckle bx	chl, ser, cly	carb vn frag	loc-Cu grn stain	Fe (Mn)	Fe hem	(ser) chl	chl, ser cly	-	Cu stn loc	chrys	-	-	wk	Top portion of interval H ₂ SO ₄ +ve	
100.9-104.6	Guichon/ Hybrid	-	dis ckle bkn	chl, ser, cly carb	carb vn frag	-	Fe, Mn	Fe hem	loc ser chl	chl cly ser carb	-	-	(chrys)	-	-	tr	Very stng hem staining of fract continues	
104.6-108.2	Guichon	-	dis ckle bx	(chl) (cly) ser	-	-	Fe	Fe hem	(ser) chl	(chl) (cly) ser	-	-	(chrys)	-	-	-	H ₂ SO ₄ -ve hem stain, note one 1cm x 0.5 cm hornblende crystal?	
108.2-111.8	Guichon	-	mod/bkn	chl, ser	-	-	Fe, Mn	Fe hem	chl (ser)	chl ser	-	-	(chrys)	-	-	tr	Fract set : 45-60° C.A. Assimilated xenoliths. Patchy ep?	
111.8-115.4	Guichon	114.6 at 30° C.A. < 1 cm	stng/ckle	ser.(chl) loc cly	qtz at 111.9 < 1cm vuggy	-	Fe, Mn	Fe hem	chl (ser)	ser (chl)	-	-	chrys	-	-	wk	Qtz vein at 111.9 m vugs filled with chrys. Hem stain fract weakly H ₂ SO ₄ +ve. Fract set: 45 and 60° C.A. Gge at 114.6m H ₂ SO ₄ +ve.	
115.4-119.6	Guichon	-	stng	ser, (chl)	qtz hem at 117.7 <1cm at 20°	-	Cu grn stain, Fe Mn	Fe hem	ser-loc chl	ser (chl)	-	-	(chrys)	-	-	-	Intense hem stain.	
119.6-123.2	Guichon	119.6<10cm	wk/bkn	ser	qtz vn frag	loc Fe	Fe (Mn)	Fe hem	ser-loc chl	ser ser	-	-	-	-	-	-	Hem stain fract H ₂ SO ₄ -ve.	
123.2-127.1	Guichon?	124.0- 130	fault zone, dis bx	ser, cly	-	loc Fe	Fe (Mn)	Fe hem	loc cly ser chl	ser cly chl	-	-	-	-	-	tr	H ₂ SO ₄ -ve, bleached sections, stng Fe staining	
127.1-131.1	Guichon, fault	129.0 m at 60° C.A. < 5 cm	bkn/shatt	ser, chl, cly	carb vn frags	loc Fe	Fe (Mn)	Fe hem	loc cly ser chl	ser, chl cly	-	-	-	-	-	-	H ₂ SO ₄ -ve, stng hem stain-brown to red brown to red.	
131.1-135.0	Guichon, fault	131.1-131.6 m	dis bx/shatt	ser, chl, cly	-	loc Fe	Fe (Mn)	Fe hem	loc cly ser chl	ser, chl cly	-	-	-	-	-	-	Bleached sections, stng Fe stain.	
135.0-139.2	Guichon	135.7 m at 50° C.A. < 2 cm	stng	ser, chl, cly (loc carb)	-	loc Fe	Fe (Mn)	Fe hem	loc cly ser chl	ser, chl cly (loc carb)	-	-	-	-	-	-	Hem stain- brown to red/brown to red.	

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.				
139.2-142.7	Guichon	-	dis bx/shatt	ser, chlr, cly (loc carb)	-	loc Fe	Fe (Mn)	Fe hem	loc cly ser chl	ser, chl cly (loc carb)	-	-	-	-	-	-	-	Bleached sections, stng Fe stain.	
142.7-146.7	Guichon	145.0 m < 2 cm	bkn	ser, chlr, cly carb-loc	-	loc Fe	Fe	-	loc cly ser chl	ser, chl cly loc carb	-	-	-	-	py	wk	-	Deep red blebs/stain-loc. Fract set: 20 & 40° C.A. Fe staining decreasing in intensity.	
146.7-142.7	Guichon	loc	bkn/ckle	cly, ser, (chl)	-	-	Fe (Mn)	-	ser chl cly	ser, cly (chl)	-	-	-	-	py	-	-	Stngly bleached sections. Fe stain patchy and decreasing in intensity, red blebs. Py healed fract with 0.5 cm selvage.	
142.7-154.7	Guichon	-	bkn/ckle	cly, ser, chl	-	-	Fe (Mn)	-	(ser) chl	cly, ser chl	-	-	-	-	py	-	-	Chl healed fract. Fe staining decreasing in intensity.	
154.7-158.5	Guichon	-	stng/bkn	cly, ser, chl	qtz vn frag	-	Fe Mn	-	(ser) chl	as abv	-	-	-	py as w/maf	py	tr	-	Red blebs, Fe stain decreasing in intensity, healed fractures with selvage.	
158.5-162.4	Guichon	loc	dis bx/bkn	(cly) ser, chl	qtz vn frag	-	Fe	-	ser, chl	(cly) ser chl	-	-	-	-	py	-	-	Fe staining only on fract. Great increase in py.	
162.4-167.7	Guichon/ Hybrid	166.9-167.7 m	bkn/crushed	cly, ser, chl	qtz vn frag	-	(Fe)	-	ser, chl	cly, ser, chl	-	-	-	-	py cpy?	wk	-	Trace Fe staining	
167.7-172.8	fault	167.7-172.8 m	fault	-	-	-	(Fe)	-	ser	ser (chl)	-	-	-	py in gge	-	-	-	Fault gge with occasional clasts of Guichon/Hybrid Gge H ₂ SO ₄ -ve.	
172.8-175.9	Guichon/ Hybrid	-	shatt/bkn	ser, chl	-	-	(Fe)	-	-	ser chl	-	-	-	py assoc w/maf	py	tr	-	Fract set: 60 and 30° C.A.	
175.9-178.8	Guichon/ Hybrid	177.2 at 10° < 2cm	shatt	ser, chl, (cly)	qtz vn frag	-	(Fe)	-	-	ser chl (cly)	-	-	-	-	py	mod	-	Xenolith? 171.1 m mafic	
178.8- 181.7	Guichon/ Hybrid	-	shatt/bkn	ser, chl, (cly)	-	-	Fe tr	-	-	ser chl (cly)	-	-	-	(py assoc w/maf)	py	wk	-	Py healed fract with chl selvage.	
EOH 181.7 m																			

Northing: 5614176.3			DDH 95-13					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							
16692	49.7	51.2	0.10	0.01	-	-	-	-	Guichon:Bx/shatt.
16693	51.2	52.7	0.17	0.04	-	-	-	-	"
16694	52.7	54.2	0.39	0.15	-	-	-	-	"
16695	54.2	55.7	0.24	0.18	-	-	-	-	"
16696	55.7	57.2	0.28	0.20	-	-	-	-	"
16697	57.2	58.7	0.32	0.15	-	-	-	-	Guichon/Hybrid:ckle
16698	58.7	60.2	0.23	0.08	-	-	-	-	Bx/shattered
16699	60.2	61.7	0.25	0.06	-	-	-	-	"
16700	61.7	63.2	0.14	0.04	-	-	-	-	"
16701	63.2	64.7	0.11	0.03	-	-	-	-	"
16702	64.7	66.2	0.20	0.03	-	-	-	-	"
16703	66.2	67.7	0.18	0.02	-	-	-	-	"
16704	67.7	69.2	0.20	0.02	-	-	-	-	"
16705	69.2	70.7	0.30	0.17	-	-	-	-	"
16706	70.7	72.2	0.68	0.48	-	-	-	-	"
16707	72.2	73.7	0.19	0.08	-	-	-	-	"
16708	73.7	75.2	0.34	0.15	-	-	-	-	"
16709	75.2	76.7	0.34	0.12	-	-	-	-	"
16710	76.7	78.2	0.32	0.10	-	-	-	-	"
16711	78.2	79.7	0.31	0.13	-	-	-	-	"
16712	79.7	81.2	0.33	0.13	-	-	-	-	"
16713	81.2	82.7	0.34	0.16	-	-	-	-	"
16714	82.7	84.2	0.42	0.14	-	-	-	-	"
16715	84.2	85.7	0.32	0.11	-	-	-	-	"
16716	85.7	87.2	0.32	0.04	-	-	-	-	"
16717	87.2	88.7	0.69	0.21	-	-	-	-	"
16718	88.7	90.2	0.70	0.44	-	-	-	-	"
16719	90.2	91.7	0.50	0.16	-	-	-	-	"
16720	91.7	93.2	0.55	0.20	-	-	-	-	"
16721	93.2	94.7	0.47	0.19	-	-	-	-	"
16722	94.7	96.2	0.61	0.29	-	-	-	-	"
16723	96.2	97.7	1.30	1.15	-	-	-	-	"
16724	97.7	99.2	0.92	0.81	-	-	-	-	"
16725	99.2	100.7	0.42	0.27	-	-	-	-	"
16726	100.7	102.2	0.36	0.19	-	-	-	-	"
16727	102.2	103.7	0.49	0.27	-	-	-	-	"
16728	103.7	105.2	0.73	0.50	-	-	-	-	"
16729	105.2	106.7	0.58	0.27	-	-	-	-	Guichon:stng/
16730	106.7	108.2	0.67	0.39	-	-	-	-	ckle Bx/shattered
16731	108.2	109.7	0.90	0.74	-	-	-	-	"
16732	109.7	111.2	1.16	1.01	-	-	-	-	"
16733	111.2	112.7	1.08	0.91	-	-	-	-	"
16734	112.7	114.2	0.83	0.71	-	-	-	-	"
16735	114.2	115.7	0.54	0.43	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
16736	115.7	117.2	0.44	0.23	-	-	-	-	Guichon:stng/ckle Bx/shattered
16737	117.2	118.7	0.44	0.12	-	-	-	-	"
16738	118.7	120.2	0.66	0.19	-	-	-	-	"
16739	120.2	121.7	0.18	0.02	-	-	-	-	"
16740	121.7	123.2	0.10	0.01	-	-	-	-	"
16741	123.2	124.7	0.16	0.01	-	-	-	-	"
16742	124.7	126.2	0.50	0.10	-	-	-	-	"
16743	126.2	127.7	0.20	0.05	-	-	-	-	Guichon:Fault Zone
16744	127.7	129.2	0.12	0.01	-	-	-	-	"
16745	129.2	130.7	0.13	0.01	-	-	-	-	"
16746	130.7	132.2	0.09	0.01	-	-	-	-	"
16747	132.2	133.7	0.12	0.01	-	-	-	-	"
16748	133.7	135.2	0.18	0.02	-	-	-	-	"
16749	135.2	136.7	0.13	0.01	-	-	-	-	Guichon:stng/bkn/ckle Bx.
16750	136.7	138.2	0.19	0.01	-	-	-	-	"
17451	138.2	139.7	0.12	0.01	-	-	-	-	"
17452	139.7	141.2	0.13	0.01	-	-	-	-	"
17453	141.2	142.7	0.10	0.01	-	-	-	-	"
17454	142.7	144.2	0.11	0.01	-	-	-	-	"
17455	144.2	145.7	0.07	0.01	-	-	-	-	"
17456	145.7	147.2	0.03	0.01	-	-	-	-	"
17457	147.2	148.7	0.10	0.02	-	-	-	-	"
17458	148.7	150.2	0.06	0.01	-	-	-	-	"
17459	150.2	151.7	0.22	0.05	-	-	-	-	"
17460	151.7	153.2	0.12	0.03	-	-	-	-	"
17461	153.2	154.7	0.08	0.02	-	-	-	-	"
17462	154.7	156.2	0.11	0.03	-	-	-	-	"
17463	156.2	157.7	0.15	0.03	-	-	-	-	"
17464	157.7	159.2	0.09	0.03	-	-	-	-	"
17465	159.2	160.7	0.11	-	0.2	0.01	5	0.002	"
17466	160.7	162.2	0.14	-	0.2	0.01	5	0.001	"
17467	162.2	163.7	0.15	-	0.3	0.01	5	<.001	Guichon/Hybrid: Fault Zone
17468	163.7	165.2	0.11	-	0.2	0.01	5	<.001	"
17469	165.2	166.7	0.11	-	0.3	0.01	5	<.001	"
17470	166.7	168.2	0.14	-	0.1	<.01	5	<.001	"
17471	168.2	169.7	0.15	-	0.4	0.01	5	<.001	Fault Zone
17472	169.7	171.2	0.20	-	0.4	0.01	5	<.001	"
17473	171.2	172.7	0.11	-	0.3	0.01	5	<.001	"
17474	172.7	174.2	0.22	-	0.4	0.01	5	<.001	Guichon/Hybrid: shatt/bkn
17475	174.2	175.7	0.16	-	0.5	0.02	5	0.001	"
17476	175.7	177.2	0.20	-	0.4	0.01	5	0.001	"
17477	177.2	178.7	0.15	-	0.3	0.01	5	<.001	"
17478	178.7	180.2	0.16	-	0.3	0.01	5	<.001	"
17479	180.2	181.7	0.18	-	0.4	0.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-14	Date	07-Sep							Logged by	PM								
Elevation	1746.0 m	Azimuth	045							Northing:	5604121.8								
Inclination	-45	Length	218.0 m							Easting:	641585.0								
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					
10.7-19.1	Guichon? volcanics	-	wk/dis bx	ser	-	(Fe)	Fe cly	ser chl	ser	-	-	-	(py?) in vol- canics	-	wk	Volcanics--buff grey brown 11.0-12.4 m			
19.1-23.0	Chataway? Hybrid	-	dis bx	ser,(chl) loc cly	-	loc Fe	Fe cly	ser (chl)	ser (chl), loc cly	-	-	-	-	-	-	Dis bx--clasts of Chataway? and hyb phases Noticable Biotite.			
23.0-27.0	Guichon	-	dis bx	ser, cly	-	loc Fe	Fe cly	loc-ser loc chl	ser cly	-	-	-	-	-	mod	Fe stain in top half of interval.			
27.0-31.1	Hybrid fault	29.0-29.6 at 45° C.A. < 8 cm	fault/dis bx	ser, (chl) cly (carb)	-	loc Fe	Fe cly	carb in gge & in bx mat	ser (chl) cly (carb)	-	-	-	-	-	wk	Fe stain in bottom half of interval			
31.1-35.2	Hybrid	31.7-32.5 m	dis bx/bkn fault	ser, (chl) cly	-	loc Fe	Fe cly	carb in bx mat cly	ser (chl) cly	-	-	-	-	-	-	Very strongly bleached sections			
35.2-38.9	Hybrid/mafic Porph dyke	loc	shatt/bkn/ diss bx	cly, ser,chl	carb vnits	Fe	(Mn) Fe cly	ser (chl)	cly ser	-	-	-	-	-	-	Mafic dyke porph at 35.3-36.4, bleached sections			
38.9-42.7	Guichon?	-	bkn/dis bx	chl, ser, cly	carb vnits	loc Fe	(Mn) Fe cly	ser (chl)	cly ser	-	-	-	(py) in porph? dyke	-	-	Hybrid dyke? albitized? contains py			
42.7-46.0	crowded Porphyry? Guichon/Hyb	loc	stng bkn/dis bx	cly, ser, (chl) (carb)	-	loc Fe	Fe cly	ser (chl)	cly ser	-	-	-	-	-	mod/ wk	Very strongly bleached sections.			
46.0-49.9	Fault/Guichon/ crowded Porphyry dyke?	loc	dis bx	cly, ser, (chl) (carb)	carb vnits	loc Fe	Fe cly	ser, chl	cly ser	-	-	-	-	-	-	Albitized sections slightly magnetic. Strongly bleached sections.			
49.9-50.3	Fault Guichon	loc	friable	cly (kaolin)	-	Fe(jar)	Fe cly	kaolin? kaolin?	kaolin? (ser)	-	-	-	-	-	-	Requires X-ray dif for cly identification.			

ROCK TYPE		STRUCTURE				STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal perv.	hydrothermal fract.	deuteric	supergene perv.	supergene fract.	primary perv.	primary fract.			
50.3-54.0	Guichon	-	compact friable, loc crush inc at base of int	cly(kaolin) (chl) ser slip surface	-	Fe	Fe	Fe cly	kaolin chl	kaolin	-	-	-	-	-	-	-	Narrow red bands hematite. Chl altn of mafics.
54.0-57.7	Guichon/Hyb fault	loc	dis bx comp frags to > 30 cm fault	cly(kaolin) (chl) ser slip surface	-	Fe in mat & crush zonea	Fe	Fe cly	carb, kaolin-loc, (ser)	cly, ser carb	chl	-	-	-	-	-	-	Comp frags primary; bx mat sec. Polymictic ± showing range of Guich/Porph and Hyb. Kaolin in crushed intervals. Blood red material in frags in comp (-) Cu test. NOTE: Frags show varied degrees of competency from "fresh" primary to friable kaolinized depending on the intensity of crushing. Groundmass oxidized, Fe (jarosite)-stained, loc stng carb Varied degree of kaolinization of fragments.
57.7-61.9	Guichon/Hyb fault zone	loc	polymictic dis bx F friable.	ser, cly(kaolin)	-	Fe in bx mat	Fe	Fe cly	kaolin ser carb in matrix	kaolin ser (carb)	chl	-	-	-	-	-	-	Varied intensity kaolinization of lithic fragments. Kaolinized frags friable.
61.9-65.8	Guichon/Hyb fault zone	asabv	as abv, loc friable	ser, cly (kaolin), (chl) carb	-	as abv	Fe, (Cu-stn)	Fe cly	kaolin ser (carb loc)	kaolin ser (chl (Mn))	chl	-	(Cu stn) (cup?)	-	-	tr	-	Same as previous interval
65.8-69.5	Guichon/Hyb fault zone	stng	polymictic dis bx F, milled frags. Bx mat friable	carb, cly	-	hem in bx mat	hem	?	kaolin ser carb	kaolin ser carb	-	-	-	-	-	-	-	Kaolinization of some Guichon fragments
69.5-73.2	Guichon/Hyb fault zone	mod/stng	stng bkn/shatt Polymictic dis bx	milled friable	sub met hem fract filling loc	hem in bx mat gge loc Cu (+)	hem loc Cu, Mn	-	ser bx mat & loc in frags	ser (chl)	(chl)	chrys loc in ser	chrys	-	-	-	-	Cu stain. No carb
73.2-77.5	Guichon/Hyb/Porph?	mod/stng gge in bx mat	dis bx w/subs crushing/shatt	milled friable	-	grn Cu hem loc	grn Cu Mn, hem	-	ser cly	ser cly	-	chrys perv	chrys	-	-	-	-	Stng sericitized pervasive Cu stain.
77.5-81.8	Guichon/Hyb/Porph?	as abv gge 1cm at 79.7 at 80° C.A.	dis bx w/subs crushing/shatt shatt/friable	crushed	antax qtz w/hem core	hem loc grn Cu loc	hem (Mn), grn Cu loc	-	loc ser loc cly	ser cly	-	Cu stn	Cu stn	-	-	-	-	Cu(+) from above ends at 79 m, less polymictic frags, varied intensity ser (cly) altn. Some frags friable.
81.8-85.5	Guichon/Hyb fault zone	gge loc bx mat	dis bx, subs crush, shatt friable	ser, cly	antax qtz w/hem core & qtz remn	hem bx mat fract	hem blue grn loc	-	cly loc ser	ser cly	-	loc Cu (+)	wk Cu stn	-	-	-	-	More uniform. Obtain Cu(+) in hem and on fract surfaces locally.

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			
85.5-89.1	Guichon/Hyb fault zone	-	dis bx/ckle abd bkn	ser, (cly)	-	grn Cu loc	hem Mn(spotted) grn Cu	-	ser (cly)	(chlr)	(chrys- loc)	(chrys)	tr cpy in prim frags	-	-	Cu(+) throughout the zone. Fe stain decreased from above section.	
89.1-92.3	Guichon	-	shatt	ser (cly)	-	Fe spkld (leach'd) patchy Cu	Fe (hem) MnO ₂ patchy Cu	-	wk/ mod kaolin ser	ser (chlr)	(chlr)	Cu stn Cu stn	(py) assoc w/ maf (cpy)	-	-	H ₂ SO ₄ +ve---tenorite? or Cu bearing MnO ₂ . Cpy in mafic of less altered clasts/frags	
92.3-96.2	Guichon	gge at 95.8-92.6 m Cu(+)	stng bkn	ser, (cly) (chlr) (carb)	-	patchy Fe & Cu	Fe, Cu	-	kaolin ser	ser, cly	(chlr)	Cu stn patchy	Cu stn patchy chrys (cup)	(py) (cpy)	-	Further decrease in Fe in frags.	
96.2-100.5	Guichon fault	loc gge to > 3 cm	shatt/dis bx	ser, cly(kao)	qtz vn frags 2 cm at 98.5 m	Fe (jar)	Fe (jar)	-	kaolin ser	ser, cly	as abv	Cu stn Cu stn	-	-	Cu (+). Patchy cup stain. Shows increase in oxidation. Very few frags primary.		
100.5-102.9	Crowded Porphyry	-	shatt	ser, chlr (cly) (kaolinite)	-	-	(Fe)	-	chlr (ser loc)	ser chlr	(chlr)	-	chrys py cpy	py (cpy) Mo	-	<u>Primary interval: py>cpy (Mo)</u>	
102.9-106.0	Crowded Porphyry	loc gge at 103.7 m	shatt	ser (chlr)(cly)	-	-	(Fe) at top of int	-	(ser) (chlr)	ser (chlr)	chlr	-	-	py (cpy)	py (cpy) (Mo)	Py>cpy (mo)	
106.0-109.7	grey/crowded Porph	gge at 108.0 m	dis bx fault gge	ser, cly (chlr) carb	-	-	-	-	ser (chlr) cly carb	ser chlr cly carb	chlr	-	-	py in bx mat	py	Py, no cpy noted	
109.7-113.6	Grey? Porph fault	loc gge	dis bx shatt, intensely crushed	ser, cly, (chlr in ox zone)	qtz vn frags at 113.4- 113.6	-	Fe in ox zone. fracts & bx mat	-	carb	ser (chlr)	chlr	-	-	py cpy	py cpy (Mo?)	Oxidized interval 110.2-111.5 m. <u>Remainder primary Py>cpy</u>	
113.6-116.6	Guichon fault zone	loc	ckle/dis bx	cly, ser, (chlr) carb	-	-	-	-	cly, carb in dis bx mat	cly carb	-	-	-	py (cpy)	py cpy	Py>cpy. Undetermined black film on frags.	
116.6-120.2	Guichon fault zone	loc in mat	dis bx fault zone, crushed	carb	qtz frags to 5 cm	-	-	-	ser cly carb	cly carb ser	-	-	-	py (cpy)	py cpy	Py>cpy - could almost grade. Check assays.	

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
120.2-123.9	Guichon fault zone	loc in mat	dis bx fault zone, crushed	cly, ser, chr carb	qtz frags	-	-	-	ser cly chr carb	ser carb chr cly	-	-	-	py (cpy)	py cpy	-	Inc chloritic/mafic rich py>cpy	
123.9-126.2	Guichon fault zone	loc in mat	dis bx fault zone	cly, ser, chr carb	-	-	-	-	ser cly chr carb	ser carb chr cly	-	-	-	py (cpy)	py cpy	-	Py >> cpy. More chloritic.	
126.2-127.7	Guichon/ Hybrid	-	stng bkn	chr, (ser), carb	-	-	-	-	chr	chr (ser) carb	chr	-	-	(py) maf	py	wk	More competent.	
127.7-131.0	Guichon/ Hybrid	-	stng bkn/shatt	chr, (ser), carb	-	-	-	-	stng chr	chr (ser) carb	chr	-	-	py	py (cpy)	wk	More competent	
131.0-134.0	Guichon/ Hybrid	-	stng bkn/shatt	chr, (ser), carb	-	-	-	-	chr, (cly) (ser)	chr carb (cly) (ser)	chr	-	-	py (cpy)	py (cpy)	wk	Py>cpy but should show on assay.	
134.0-136.7	Guichon/ Hybrid	-	stng bkn/shatt	chr, (ser) (carb)	-	-	-	-	chr	chr	chr	-	-	py	py (cpy)	wk	Py>>cpy.	
136.7-137.9	Guichon/ Hybrid	-	stng bkn loc mod	chr, (ser) carb-loc	-	-	-	-	chr ser	chr (ser) cly carb	chr	-	-	py	py (cpy)	-	Py>cpy	
137.9-138.8	dimictic bx fault	thin surfaces	dis bx	chr, ser,carb cly	qtz vn frags pyr	-	-	-	ser	ser chr	?	-	-	py (cpy)	py	-	Some intermixed porph and Guichon Hybrid, mainly porph. Porphyry starts at about 137.9 m	
138.8-139.6	Porph	loc	stng bkn	ser, chr,carb	qtz & carb antitax w/ sulp	-	-	-	ser	qtz carb ser chr	chr	-	-	py (cpy?)	py (cpy)	wk		
139.6-142.5	Porphyry grey/loc crowded D3	-	shatt	carb, ser chr, loc cly	carb & pyr w/bleached envs. Poss min cpy	-	-	-	chr ser (ep)	ser chr carb	chr	-	-	py (cpy?)	py (cpy?)	wk	Spotted epidote.	
142.5-150.9	Porphyry D3	-	shatt	ser, chr carb, loc cly	-	-	-	-	ser	ser chr carb loc-cly	chr	-	-	py	py	-	Guichon frag at *143.5 m *, spotty ep.	

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
150.9-154.5	Porphyry (crowded) D3	-	shatt	ser, (chlr) carb	carb & pyr w/ alt env	-	-	-	ser	ser (chlr) carb	chlr	-	-	py	py	wk	Sand 150.9 m, spotty ep.	
154.5-157.5	Porphyry	-	shatt	ser, cly, carb	carb at 30° >3 cm qtz & pyr frag	-	-	-	(carb)	ser chlr carb	chlr	-	-	py	py	-	Check for K-sp	
157.5-160.6	Porphyry	-	shatt	ser, chlr, carb	pyr w/ alt env	-	-	-	(carb)	ser, chlr carb	chlr	-	-	(py)	py	tr	Few competent sections ~ 0.15 (m or cm???)	
160.6-163.7	Porphyry	-	shatt	ser, chlr, carb	-	-	-	-	(carb)	ser, chlr carb	chlr	-	-	(py)	py	-	Ep? blebs.	
163.7-169.8	Porphyry	-	shatt	ser, chlr, carb qtz	carb vnits	-	-	-	(carb)	ser, qtz chlr carb	chlr	-	-	(py)	py	wk	Micro qtz crystals on fract. Chlr increasing. K-sp? increasing, matrix reddish.	
169.8-172.8	Porphyry	-	shatt/dis bx	cly, carb ser, chlr	-	-	-	-	(carb)	cly, carb ser chlr	chlr	-	-	(py) (cpy?)	py	-	Section (top) of grey and sections pinkish porph (bottom).	
172.8-175.2	Porphyry/ Hybrid?	?	dimictic dis bx/shatt	cly, carb, chlr ser	-	-	-	-	(carb) loc-ser	cly, carb ser chlr	chlr	-	-	(py) (cpy?)	py	-	Possible contact between porphyry and Hybrid at ~ 174.0 m	
175.2-178.0	Hybrid?/ Porphyry contact D3	177.8 m at 50° < 3 cm 178.0 m at 20° < 2cm	mod/dimictic dis bx	cly, carb, chlr, ser	carb vnits	-	-	-	(carb) loc-ser	cly carb ser chlr	chlr	-	-	(py)	py	wk	Hyb wk mag. Porph no mag and strongly chlr. Contact- hybrid/porphyry 177.8 m	
178.0-182.3	Porphyry D3	181.3 m < 2 cm	bkn/shatt	carb, chlr, ser	carb vnits carb at 45° C.A. < 1 cm	-	-	-	-	carb ser chlr	chlr	-	-	(py) (py tr)	py	-	Strongly ser and chlr at 181.5 m. Porphyry: pinkish grey fract set at 50° C.A.	
182.3-185.6	Porphyry D3	-	stng ckn	carb, chlr, ser	carb at 80° <1cm	-	hem?	-	(carb)	carb chlr ser	-	-	(NCu?) (py) (cpy)	(py)	tr	Check for NCu at 185.2 m. Porph increase pink.		

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.			
185.6-189.3	Porphyry D3	190.1 at 30° C.A. < 2 cm	fault/dis bx wk	as abv	carb vnit at ~10-20° C.A. carb at: 190.2 ~ 3cm at 188.0 m ~4cm, at 188.4 <1cm	-	(hem?)	-	carb	carb chlr ser	chlr	-	(NCu?)	(py)	(py)		Fault dis bx- 186.7 to 188.4 m in zone of carb vein. Check for NCu. Py noticeable absent in chloritized zone around fault. Patchy ep.
189.3-194.9	Porphyry D3 (crowded)	-	bkn	ser, carb	carb at 10° <0.5cm	-	-	-	ep	ser	chlr	-	-	tr py	-	wk	Fracts: 30 and 60°. Porph- pink grey, phenocrysts of feldspar, chloritized mafics associated with epidote.
194.9-195.9	Porphyry D3	-	ckle/dis bx	carb, ser	-	-	-	carb in mat bx	carb ser	chlr	-	-	-	-	-	-	Strongly ser and chloritized section.
195.9-199.7	Porphyry pink-grey D3	-	bkn/shatt	carb, ser, (chlr)	carb vnits	-	-	carb	carb ser (chlr)	chlr	-	-	-	(py)	tr	Pink porph grading to grey porph with depth. Patchy ep.	
199.7-203.3	Porphyry grey pink D3	-	bkn	carb, ser	carb at 25 < 2cm	-	-	-	carb ser	chlr	-	-	(py)	(py)	tr	Fract set 25° C.A. Patchy ep.	
203.3-207.1	Porphyry grey pink D3	-	wk/bkn	carb, ser	carb at 10° <0.5 cm	-	-	-	carb ser	chlr	-	-	(py)	(py)	tr	Fract set at 10° C.A. Patchy ep	
207.1-211.0	Porphyry D3	-	wk	carb, ser	carb at 10° <0.5 cm	-	-	patchy ep	carb ser	chlr	-	-	tr py	(py)	tr	Porph: increasing grey with depth, (cpy?). Patchy ep.	
211.0-215.3	Porphyry grey pink D3	-	wk	carb, ser	carb at 214.5 at 30° < 1cm	-	hem? at 214.5 m	patchy ep	carb ser	chlr	-	-	(py)	(py)	tr	Fract set 80 and 50° C.A.	
215.3-218.0	Porphyry grey pink	-	wk	carb, ser	-	-	-	(ep)	carb ser	chlr	-	-	(py)	(py)	tr	Patchy ep and much weaker. Fract set 60- 30° C.A.	
EOH 218.0 m																	

Northing: 5604121.8			DDH 95-14					Azimuth: 045	
Easting: 641585.0			Elevation: 1746.0 m					Inclination: -45	
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17480	24.2	25.7	0.03	<.01	-	-	-	-	Guichon: dis Bx
17481	25.7	27.2	0.02	<.01	-	-	-	-	"
17482	27.2	28.7	0.03	0.01	-	-	-	-	Hybrid:Fault Zone
17483	28.7	30.2	0.06	0.01	-	-	-	-	"
17484	30.2	31.7	0.09	0.02	-	-	-	-	"
17485	31.7	33.2	0.08	0.02	-	-	-	-	Hybrid: bkn/dis Bx
17486	33.2	34.7	0.05	0.02	-	-	-	-	"
17487	34.7	36.2	0.05	0.03	-	-	-	-	Hybrid, dis Bx :Porph.
17488	36.2	37.7	0.12	0.06	-	-	-	-	dyke 35.3-36.4 m
17489	37.7	39.2	0.06	0.03	-	-	-	-	"
17490	39.2	40.7	0.11	0.04	-	-	-	-	Guichon?:bkn/dis Bx
17491	40.7	42.2	0.06	0.02	-	-	-	-	"
17492	42.2	43.7	0.08	0.03	-	-	-	-	Guichon/Crowded
17493	43.7	45.2	0.07	0.02	-	-	-	-	Porphyry: fault zone/
17494	45.2	46.7	0.05	0.01	-	-	-	-	stng bkn/dis Bx
17495	46.7	48.2	0.03	0.01	-	-	-	-	"
17496	48.2	49.7	0.06	0.01	-	-	-	-	"
17497	49.7	51.2	0.04	0.01	-	-	-	-	Guichon:wk fault zone
17498	51.2	52.7	0.04	0.01	-	-	-	-	Guichon
17499	52.7	54.2	0.08	0.02	-	-	-	-	"
17500	54.2	55.7	0.05	0.01	-	-	-	-	Guich/Hyb: wk fault
17501	55.7	57.2	0.02	<.01	-	-	-	-	zone/dis Bx
17502	57.2	58.7	0.04	0.01	-	-	-	-	Guich/Hyb:Fault zone/
17503	58.7	60.2	0.06	0.01	-	-	-	-	dis Bx
17504	60.2	61.7	0.07	0.01	-	-	-	-	"
17505	61.7	63.2	0.07	0.02	-	-	-	-	"
17506	63.2	64.7	0.07	0.02	-	-	-	-	"
17507	64.7	66.2	0.09	0.02	-	-	-	-	milled
17508	66.2	67.7	0.09	0.01	-	-	-	-	"
17509	67.7	69.2	0.38	0.14	-	-	-	-	"
17510	69.2	70.7	0.23	0.04	-	-	-	-	shatt/polymictic
17511	70.7	72.2	0.33	0.07	-	-	-	-	"
17512	72.2	73.7	0.69	0.43	-	-	-	-	"
17513	73.7	75.2	0.62	0.32	-	-	-	-	crushed/shatt
17514	75.2	76.7	0.75	0.58	-	-	-	-	"
17515	76.7	78.2	0.75	0.60	-	-	-	-	"
17516	78.2	79.7	0.40	0.24	-	-	-	-	"
17517	79.7	81.2	0.36	0.12	-	-	-	-	"
17518	81.2	82.7	0.28	0.06	-	-	-	-	"
17519	82.7	84.2	0.30	0.10	-	-	-	-	"
17520	84.2	85.7	0.29	0.13	-	-	-	-	"
17521	85.7	87.2	0.25	0.16	-	-	-	-	ckle/bkn
17522	87.2	88.7	0.37	0.29	-	-	-	-	"
17523	88.7	90.2	0.21	0.11	-	-	-	-	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17524	90.2	91.7	0.29	0.22	-	-	-	-	Guichon:shatt.
17525	91.7	93.2	0.35	0.23	-	-	-	-	"
17526	93.2	94.7	0.54	0.25	-	-	-	-	"
17527	94.7	96.2	0.47	0.37	-	-	-	-	"
17528	96.2	97.7	0.41	0.28	-	-	-	-	"
17529	97.7	99.2	0.73	0.22	-	-	-	-	"
17530	99.2	100.7	0.54	0.24	-	-	-	-	dis. Bx/fault
17531	100.7	102.2	0.32	0.03	-	-	-	-	Crowded Porphyry:
17532	102.2	103.7	0.32	0.02	-	-	-	-	shatt./dis. Bx
17533	103.7	105.2	0.59	0.03	-	-	-	-	"
17534	105.2	106.7	0.44	0.02	-	-	-	-	"
17535	106.7	108.2	0.22	<.01	-	-	-	-	gge. @ 108.0 m
17536	108.2	109.7	0.38	<.01	-	-	-	-	dis. Bx
17537	109.7	111.2	0.45	0.03	-	-	-	-	Grey Crowded
17538	111.2	112.7	0.57	0.03	-	-	-	-	Porph. : dis. Bx
17539	112.7	114.2	0.65	0.01	-	-	-	-	"
17540	114.2	115.7	0.81	0.01	-	-	-	-	shatt./crushed
17541	115.7	117.2	0.92	0.01	-	-	-	-	Guichon: fault zone/
17542	117.2	118.7	0.60	0.01	-	-	-	-	dis. Bx
17543	118.7	120.2	0.35	<.01	-	-	-	-	"
17544	120.2	121.7	0.39	-	0.6	0.02	5	0.001	dis. Bx/crushed
17545	121.7	123.2	0.22	-	0.5	0.02	5	0.009	"
17546	123.2	124.7	0.70	-	0.8	0.02	5	0.026	dis. Bx
17547	124.7	126.2	0.46	-	0.2	0.01	5	0.001	"
17548	126.2	127.7	0.12	-	0.1	<.01	5	<.001	Guichon Hybrid
17549	127.7	129.2	0.10	-	0.1	<.01	5	<.001	Hybrid/Guichon : stng.
17550	129.2	130.7	0.13	-	0.1	<.01	5	<.001	bkn/shatt.
17551	130.7	132.2	0.34	-	0.1	<.01	5	0.001	"
17552	132.2	133.7	0.60	-	0.1	<.01	5	0.003	"
17553	133.7	135.2	0.31	-	0.2	0.01	5	<.001	"
17554	135.2	136.7	0.14	-	0.2	0.01	5	0.001	"
17555	136.7	138.2	0.15	-	0.6	0.02	5	0.001	Dimictic Fault/dis Bx
17556	138.2	139.7	0.07	-	0.2	0.01	5	0.003	Porphyry: shatt.
17557	139.7	141.2	0.07	-	0.1	<.01	5	0.001	"
17558	141.2	142.7	0.05	-	0.2	0.01	5	<.001	"
17559	142.7	144.2	0.06	-	0.2	0.01	5	0.001	"
17560	144.2	145.7	0.05	-	0.1	<.01	5	<.001	"
17561	145.7	147.2	0.07	-	0.1	<.01	5	<.001	"
17562	147.2	148.7	0.03	-	0.2	0.01	5	<.001	"
17563	148.7	150.2	0.03	-	0.1	<.01	5	<.001	"
17564	150.2	151.7	0.07	-	0.2	0.01	5	0.012	"
17565	151.7	153.2	0.06	-	0.1	<.01	5	<.001	"
17566	153.2	154.7	0.05	-	0.2	0.01	5	<.001	"
17567	154.7	156.2	0.05	-	0.1	<.01	5	<.001	"
17568	156.2	157.7	0.05	-	0.1	<.01	5	0.001	"
17569	157.7	159.2	0.04	-	0.1	<.01	5	<.001	"
17570	159.2	160.7	0.03	-	0.1	<.01	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17571	160.7	162.2	0.04	-	0.1	<.01	5	<.001	Porphyry: shatt.
17572	162.2	163.7	0.04	-	0.1	<.01	5	<.001	"
17573	163.7	165.2	0.04	-	0.1	<.01	5	<.001	"
17574	165.2	166.7	0.04	-	0.1	<.01	5	<.001	"
17575	166.7	168.2	0.04	-	0.1	<.01	5	0.001	"
17576	168.2	169.7	0.04	-	0.1	<.01	5	0.001	"
17577	169.7	171.2	0.05	-	0.2	0.01	5	<.001	"
17578	171.2	172.7	0.02	-	0.1	<.01	5	<.001	shatt./dis. Bx
17579	172.7	174.2	0.06	-	0.3	0.01	5	<.001	Porphyry/Hybrid?:
17580	174.2	175.7	0.10	-	0.2	0.01	5	0.002	contact ~174.0 m
17581	175.7	177.2	0.13	-	0.2	0.01	5	<.001	Hyb./Porph.: dis. Bx.,
17582	177.2	178.7	0.10	-	0.2	0.01	5	<.001	contact 177.8 m
17583	178.7	180.2	0.07	-	0.1	<.01	5	<.001	Porphyry: bkn/shatt.
17584	180.2	181.7	0.07	-	0.2	0.01	5	<.001	"
17585	181.7	183.2	0.05	-	0.1	<.01	5	<.001	"
17586	183.2	184.7	0.03	-	0.2	0.01	5	0.001	"
17587	184.7	186.2	0.04	-	0.1	<.01	5	<.001	"
17588	186.2	187.7	0.03	-	0.1	<.01	5	0.001	fault/dis. Bx: 186.7 m
17589	187.7	189.2	0.03	-	0.1	<.01	5	<.001	"
17590	189.2	190.7	0.03	-	0.1	<.01	5	<.001	bkn
17591	190.7	192.2	0.02	-	0.2	0.01	5	<.001	"
17592	192.2	193.7	0.04	-	0.2	0.01	5	0.001	"
17593	193.7	195.2	0.02	-	0.1	<.01	5	<.001	ckle/dis. Bx
17594	195.2	196.7	0.04	-	0.2	0.01	5	<.001	"
17595	196.7	198.2	0.02	-	0.1	<.01	5	0.001	"
17596	198.2	199.7	0.02	-	0.2	0.01	5	<.001	"
17597	199.7	201.2	0.04	-	0.1	<.01	5	<.001	"
17598	201.2	202.7	0.03	-	0.1	<.01	5	<.001	"
17599	202.7	204.2	0.02	-	0.2	0.01	5	<.001	"
17600	204.2	205.7	0.02	-	0.2	0.01	5	<.001	"
17601	205.7	207.2	0.02	-	0.1	<.01	5	<.001	"
17602	207.2	208.7	0.02	-	0.2	0.01	5	<.001	"
17603	208.7	210.2	0.02	-	0.1	<.01	5	<.001	"
17604	210.2	211.7	0.02	-	0.1	<.01	5	<.001	"
17605	211.7	213.2	0.03	-	0.1	<.01	5	<.001	"
17606	213.2	214.7	0.03	-	0.1	<.01	5	<.001	"
17607	214.7	216.2	0.02	-	0.1	<.01	5	<.001	"
17608	216.2	217.7	0.02	-	0.1	<.01	5	0.001	"
17609	217.7	219.2	0.01	-	0.2	0.01	5	0.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-15	Date	11-Sep	Relogged:	Mar 31/96 for alteration and lithology	Logged by	VN PM	Elevation	1741.2 m	Azimuth	225	Northing:	5604066.5	Inclination	-60	Length	291.1 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					
12.2-16.7	Guichon	loc	stng/ckle bx /shatt	(chlr), ser loc cly	qtz at 40 < 1 cm carrying chrys qtz at 0° C.A.	loc Cu Fe, Cu	-	(cly) chlr loc ser sil	(chlr) ser cly	-	-	chrys	-	-	wk	Significant quantity of qtz vein frags. Chrys filling voids. Slip on fract surfaces. Mafics completely chloritized; feldspars white but hard; siliceous.			
16.7-21.3	Guichon	loc	ckle/shatt	(chlr) ser loc cly, carb	qtz vn frags	loc Cu Fe, Cu	-	chlr patchy ser (cly) sil	(chlr) ser loc cly (carb)	-	loc- chrys	chrys	-	-	tr	Slip at 70° C.A. stained with chrys, fract 70° C.A. Loc massive chrys. Loc stng perv ser alteration. Pervasive alteration continues as above			
21.3-22.3	Guichon fault zone?	-	stng/ckle loc crushed	(cly) ser (chlr)	qtz vn frags	- Fe, grn Cu-stn ser, (Mn)	-	chlr (ser) (cly) sil	(cly) ser, (chlr)	-	-	(chrys)	-	-	tr	Pale blue-grey efflorescence on fract.			
22.3-25.7	Guichon fault zone	loc? (poor recovery)	ckle/dis bx, loc crushed	loc cly, ser, (chlr)	qtz vn frags	loc grn Cu-stn ser, loc Fe in bx	-	chlr (ser) (cly) sil	loc cly ser (chlr)	-	loc chrys	chrys	-	-	tr	Efflorescence as seen above. Several crushed zones with perv Fe stn and weak perv chrys.			
25.7-27.0	Guichon	-	stng/ckle loc shatt	v loc cly, ser (chlr)	qtz vnfts	loc Fe Fe, grn Cu-stn ser	(kaolin) Fe	chlr (ser) loc alb sil	(chlr) ser (cly)	-	v loc chrys	(chrys)	-	-	tr	Oxidized chlr healed fract. Patchy chlr and chlr banding.			
27.0-28.3	Guichon fault zone	-	stng/shatt loc crushed some milling	loc cly, ser, (chlr)	qtz vn frags	- Fe, grn Cu-stn ser	(kaolin) Fe	chlr (ser) sil (cly)	(chlr) ser	-	-	(chrys)	-	-	-	Appears weathered.			
28.3-30.2	Guichon	bx	ckle bx/bkn/ shatt	(chlr), ser loc cly	qtz frag qtz at 0° C.A. 2 cm	loc Fe loc Cu	loc Cu Fe, Mn	chlr (ser) (loc cly) sil	(chlr) ser loc cly	-	loc chrys	chrys	-	-	-	Chloritic patches. Pale blue-grey efflorescence on fract. Bethlehem dykelet 29.5-30.0 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
30.2-33.6	Guichon	-	stng/ckle loc dis bx/ shatt	(chlr), ser loc cly	qtz vn frag qtz at 80° C.A. ≤ 1cm	loc Fe loc Cu	Cu, Fe (Mn)	? cly	chlr, ser loc cly sil	(chlr) ser loc cly loc sil	-	(loc chrys)	chrys tr-cup	-	-	tr	Antaxial qtz vein. Efflorescence as seen above Possible Bethlehem dykelets; shattered fragments	
33.6-36.2	Guichon	loc at 36.2 m < 1 cm	ckle bx/shatt/ loc crushed	(chlr), ser loc cly	qtz at 5° C.A. ≤ 2 cm, qtz vn frag	loc Cu Fe	Cu, Mn Fe	-	sil (ser) chlr (cly)	(chlr) ser loc cly sil	-	loc chrys	chrys	-	-	tr	Qtz vns- antaxial and Fe oxide core carrying chrys. Qtz crystals on fract. Qtz fragments Mafics continue completely chloritized; feldspars white but hard; generally siliceous.	
36.2-38.1	Guichon	-	ckle/stng/bkn	ser, (chlr)(cly)	qtz vnlt chrys vnlt	loc Cu	Cu, Fe Mn	-	chlr patchy ser sil	ser (chlr) (cly) sil	-	loc chrys in bx	chrys	-	-	tr	Efflorescence on fract. Slip on fract surfaces.	
38.1-41.6	Guichon/ Hybrid	loc 39.5 & 38.6, Cu stained	stng ckle bx/ loc shatt	(chlr) ser loc cly	qtz vn frag chrys vnlt qtz at 70° ~ 0.5 cm	loc Cu Fe	Cu, Fe Mn, hem	-	chlr patchy ser sil loc alb	(chlr) ser loc cly	-	loc chrys	chrys	-	-	wk	Patchy chlr spots and chloritic banding. Loc strong chrys selvage. Chrys filling voids in bx. Guichon, creamy grey with patchy pink.	
41.6-44.5	Guichon/ Hybrid?	-	stng/ckle bx/shatt	ser, (chlr) (loc cly)	qtz <1cm chrys vnlt	loc Fe (loc Cu)	Cu, Fe, Mn	-	patchy ser chlr sil (cly)	ser (chlr) (loc cly) sil	-	-	chrys	-	-	wk	Voids in bx, chrys filling voids. Pale yellow-green bundles of radiating acicular crystals with pyramidal terminations.	
44.5-48.2	Guichon/ Hybrid?	-	wk/bkn/ loc ckle bx/shatt	ser, (chlr) v loc cly	qtz at 70° C.A. ~ 0.5 cm	loc Fe & Cu	Cu, Fe, Mn	-	patchy ser chlr sil (cly)	ser (chlr) v loc cly sil	-	loc chrys	chrys mal?	-	-	tr	Check for malachite. Qtz vn carries chrys in core. Supergene Hem in mafics, chrys in bx matrix. Diffuse Fe halos around fract. Efflorescence on fract.	
48.2-52.1	Guichon/ Hybrid	-	stng/ckle bx/loc dis bx/ shatt	(chlr) ser (loc cly)	chrys vnlt	loc Fe	Cu, Fe, Mn	-	loc alb chlr, patchy ser sil	(chlr) ser (loc cly) sil	-	(loc chrys)	chrys	-	-	tr/wk	Chloritic patches with clay? purple pink spots. Chloritic banding. Hem in mafics, check for cup.	
52.1-55.2	Guichon	-	loc crushed stng/ckle/dis bx	chlr, ser, v loc cly	qtz vnlt carb vnlt wk qtz stkwk	loc Fe	Cu, Fe, Mn	-	chlr patchy ser sil (cly)	chlr ser v loc cly, sil	-	-	chrys	-	-		Efflorescence on fract. Weak qtz stockwork.	
55.2-57.9	Guichon	-	bkn/shatt loc ckle bx	ser, (chlr) (carb) loc-cly	qtz vn frag qtz at 10° 1cm	-	Cu, Fe, Mn	-	chlr sil (ser) (cly)	ser (chlr) (carb) loc cly	-	v loc chrys	chrys	-	-	wk	Loc albitization. Hem in mafics. Fract set :80-90° spaced 8-15-20 cm. Mafics completely chloritized feldspars variably white to clouded, but hard; siliceous overall.	

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			
57.9-61.7	Guichon	?	mod/shatt loc ckle	ser, (chlr) v loc cly	chlr healed fract	-	Cu, Fe, Mn	-	chlr loc alb	ser (chlr)	-	-	chrys	-	-	wk		Guich, loc pink speckled. Loc albitization, local chloritic banding, chloritic patches and hem in mafics. Chlr after biotite.
									patchy ser (cly) sil	v loc cly, sil								
61.7-65.3	Guichon	-	stng/ckle loc bkn	ser, (carb) loc cly, (chlr)	qtz vnits at 20° C.A. < 0.5 cm chrys vnits	loc Fe	Fe, Mn Cu	-	chlr patchy ser (sil) (cly)	ser (carb) loc cly (chlr)	-	-	mal? chrys	-	-	wk		Check for malachite. Diffuse Fe halos around fractures. Diffuse chlr spots. Trace hem in mafics Chrys and Fe filling voids.
65.3-69.2	Guichon	-	mod/stng/ loc bkn	ser, (chlr) (cly)	qtz vnits, (tr py)	loc Fe	(Cu) Mn Fe	-	chlr patchy ser (sil) alb	ser (chlr) (cly)	-	cup	NCu cup (chrys)	NCu assoc w/maf	-	tr/ wk		Pale blue-grey efflorescence on fract. Local (K-sp?) alteration, hem in mafic. Diffuse Fe halos around chlr healed fracts (oxidized). Fract set: 50-60 and 90° C.A. Qtz veinlet carries py.
69.2-72.8	Guichon/ Hybrid?	v loc	wk/mod/loc ckle/shatt	ser, (chlr) loc cly	qtz vnits qtz at 10° C.A. 1 cm	loc Fe	Fe, Cu Mn	-	loc cly chlr (alb) patchy ser (sil)	ser (chlr) loc cly	-	-	chrys	-	-	tr		Hem in mafics. Check for NCu. Overall alteration intensity decreasing.
72.8-76.5	Guichon/ Hybrid loc pink mottled	-	mod/stng bkn loc shatt	ser (chlr) (loc cly)	qtz 1.0 cm at 20 & 60° C.A. with minor chrys	-	Fe(hem) grn Cu- stn ser (Mn)	-	chlr patchy ser loc alb (sil)	(chlr) ser (loc cly)	-	hem w/ mafics	chrys (py)	-	-			Hem and minor spec hem with mafics. Partially assimilated mafic xenolith. Local K-spar, salmon pink; probably alteration. Sample taken for PTS
76.5-79.1	Guichon	-	mod/stng bkn	(chlr), ser	qtz 5-10° C.A. 0.5 cm	-	Fe, grn Cu-stn ser	-	chlr (ser) alb sil	(chlr) ser	-	-	chrys	(cpy w/maf)	-	tr		Hem in mafics. Sing Fe-stn on formerly chlr healed? fracts.
79.1-83.0	Guichon grey w/pink speckling	-	stng/bkn	ser, (chlr) carb	qtz 5-10° C.A. 0.5 cm	loc Fe	Fe, grn Cu stn ser (Mn)	-	chlr (ser) sil alb	ser, (chlr) carb	-	-	chrys	chalc? w/maf	-	-		Pale blue-grey efflorescence on fracts. H ₂ SO ₄ +ve on core surface. Hem in maf and on fracts. Local weak K-spar alteration similar to above.
83.0-86.8	Guichon	-	stng/bkn loc shatt	ser, (chlr)	qtz vn frags chlr healed fracts	-	(Mn) Fe grn Cu- stn ser	-	loc ser chlr alb (sil)	ser (chlr)	-	-	(chrys)	-	-	-		Decrease in chrys over prev intervals. Mafics slightly less chloritized, though frequently ghost-like.
86.8-93.6	Guichon	89.3 m ~ 1 cm	shatt/int loc crushed	loc cly, ser (chlr)	qtz vn frags	-	(Mn) Fe grn Cu- stn ser	-	ser, chlr loc alb	loc cly ser (chlr)	-	-	chrys	-	-	tr		Lost 2.6 m of core between 89.3 m and 93.6 m. ** Hbde>bio; loc. Chlr after hbde/biotite.

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
93.6-97.1	Guichon	-	stng/loc shatt loc crushed	ser, (chlr) loc cly	-	-	Fe(hem) (Mn) grn Cu- stn ser	(loc kaolin)	(ser) chlr sil (alb)	ser (chlr) loc cly	-	-	chrys	-	-	tr	Chlr patches and banding (diffuse) at 10°C.A. Mafics frequently ghost-like, feldspars white to clouded and hard.	
97.1-100.9	Guichon fault zone	100.6 m 1-2 cm at 15° C.A.	ckle/dis bx, loc fault bx, sets at 0° & 50-60° C.A.	ser, (chlr) loc cly	qtz vn frags wk qtz stkwk	loc Fe loc Cu- stn ser	Fe,(Mn) grn Cu- stn ser	-	loc cly loc ser sil, chlr (alb)	ser (chlr) loc cly	-	loc chrys	chrys	-	-	tr	Increase in chrys. Chrys filling voids in dis bx. Pale blue-grey efflorescence on fract	
100.9-104.5	Guichon grey-pink	-	stng/shatt	ser, (cly) (chlr)	qtz vns to 1.0 cm // to C.A. wk qtz stkwk	-	grn Cu- stn ser Fe (Mn)	-	patchy ser chlr (sil) alb	ser (chlr) (cly)	-	cup	chrys	loc cpy (NCu)	(loc chalc)	tr	Finer mafic grain size than prev interval, generally more distinct. Diffuse chlr patches with cpy blebs encased in chrys!!! Patchy very fine diss NCU.	
104.5-108.2	Guichon	-	stng/bkn loc shatt/loc ckle bx	loc cly ser, chlr	qtz vn frags chlr healed fracts	-	grn +red Cu stn ser, Fe (Mn)	loc kaolin?	loc ser loc cly chlr alb (sil)	loc cly ser (chlr)	-	-	(NCu) cup chrys	-	-	tr	Cup and NCU increasing with depth. Mafic general chloritized and ghost-like; feldspars white/clouded and usually hard; locally siliceous.	
108.2-112.0	Guichon/ Hybrid?	111.7m 1.0 cm at 45° C.A.	mod/stng loc shatt	ser (chlr) loc cly, (carb)	qtz vns, antax w/ hem & Mn 80°C.A ~4cm	-	grn+red Cu-stn ser, Fe (loc hem)	loc kaolin?	(ser) chlr alb (sil)	loc cly ser (chlr) (carb)	-	cup	cup (NCu) (chrys)	-	-	-	Gouge H ₂ SO ₄ +ve. Stng fractured/shatt with loc stng kaolin. Stng cup on fractures. Distinct increase. Weakly foliated.	
112.0-116.2	Guichon/ Hybrid grey/dark grey	v loc	stng/loc crushed	ser (chlr) loc carb, loc cly	carb vnits	-	red Cu- stn ser	(loc kaolin?)	(chlr) (patchy ser)	ser (chlr) loc carb loc cly (alb)	chlr?	loc chrys in gge	cup NCu	(NCu)	-	tr	Diffuse chlr patches. Stng cup on fract with fine diss NCU!!! NCU pervasively disseminated with mafics. Weakly foliated. Overall alteration intensity decreasing.	
116.2-120.4	Guichon grey, pink speckled	-	wk/mod	ser, chlr loc sil, carb	qtz vnlt <0.5 cm at 80° C.A. w/ chlr selv, chlr healed fracts	-	(Fe)	-	loc ep loc K-sp (chlr) (ser)	ser (chlr) carb loc sil	chlr	-	NCu cup	(loc NCu)	-	wk	Fract sets at 0, 30 and 45° C.A. Abrupt change in rock competency. Moderately foliated.	
120.4-124.7	Guichon grey, pink speckled	-	wk/mod loc stng/bkn	(chlr) ser carb	carb vnits chlr healed fracts; wk qtz vnits to 1 cm	-	(Fe)	-	(chlr) (ser) (loc alb)	loc sil (chlr) ser carb	chlr	-	(NCu) (cup)	(NCu w/maf)	-	wk	Fract sets at 0 and 30°. NCU occurs mainly as dendrites on fract. Chlr after hbde/biotite. Weak to moderately foliated.	

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.				
124.7-129.2	Guichon grey, pink speckled	v loc 60° C.A.	wk/mod loc ckle, loc crushed and healed	(chlr) ser, loc cly, carb	carb vnits chlr healed fracts; composite qtz/alb vn 2.0 cm at 30° C.A.	-	loc Fe	-	(chlr) patchy ser (loc alb)	(chlr) ser carb loc cly	chlr (ser)	-	(NCu)	(NCu) w/maf	-	wk/ mod	Noticeable decrease in Fe staining. Weak NCu dissp and dissf. Few diffuse chlr clots. Distinctly foliated, though not as mafic-rich as typical foliated Hybrid or mafic Guichon Quartz Diorite.
129.2-133.3	Guichon grey/loc pink speckled	-	wk/mod loc ckle, sets at 10, 40, 50, 80 and ~0° C.A.	(chlr), ser carb, loc cly	carb micro vns, chlr healed fracts	-	(Fe)	-	(chlr) (ser)	(chlr) ser carb loc cly loc ep loc K-sp?	chlr (ser)	-	NCu	NCu w/maf	(cpy) (chalc)	wk/ mod	Diffuse chlr patches, chlr banding. Trace cpy in chlr healed fract at bottom of interval. Feldspars white/clouded and hard. Most mafics at least moderately chloritized.
133.3-138.4	Guichon grey/pink speckled	-	mod/stng loc bkn, sets at 20, 50, 60 and 80-90° C.A.	(chlr) ser, carb	carb micro- veins, chlr healed fracts; pink aplitic porph dykelets to 8 cm at 20° C.A.	-	Fe	-	(chlr) (ser)	(chlr) ser carb loc cly loc ep loc K-sp?	chlr	-	(NCu) (chalc)	loc cpy (NCu) (chalc)	loc cpy	mod	Patchy dissp cpy with mafics. Cpy in chlr healed fracts. Patchy dissp (NCu), generally with mafics. Scattered chalc in dykelets. Frags of Guichon in dykelets. 133.9 m and 135.8 m.
138.4-140.9	Guichon/ Hybrid mafic dyke contact at ~ 140.9 m	v loc 138.6 m	mod/stng bkn loc comp sections, loc crushed and healed	(chlr), ser carb, loc cly	carb micro vns, chlr healed fracts pink aplitic porphyry dykelets (numerous)	-	(Fe)	-	(chlr) (loc ser) (loc kaolin)	(chlr) ser carb	chlr	-	(NCu)	loc cpy (NCu) (chalc) (bo)	loc cpy (chalc) (bo)	mod	NCu restricted to Guichon/Hybrid, cpy and trace to minor chalc and bornite in qtz vnits and in aplitic porph dykelets.
140.9-142.3	mafic rich xenolith	-	wk	(chlr), ser carb	qtz vnits at ~ 0 & 40° C.A.	-	(Fe)	-	(chlr)	(chlr) ser carb	chlr (ser)	-	(NCu)	(cpy) (NCu) (chalc)	(cpy)	mod	Fine grained xenolith with dissp cpy and lesser dissp NCu. Cpy blebs in chlr healed fracts.
142.3-145.1	Guichon/ Hybrid grey/dark grey black, pink speckled	v loc healed with carb at 144.5 m 40° C.A.	wk/mod	(chlr), ser carb	qtz + carb vnits at 0-10° C.A. chlr healed fracts	-	tr Fe	-	(carb) (ser) loc K-sp? (sil) (chlr)	(chlr) ser carb loc ep	chlr (ser)	-	(cpy) (chalc) (NCu)	(cpy) (cpy)	mod	Aplitic porph dykelets < 5.0 cm with cpy and trace chalc. Weak qtz stockwork. Alteration intensity increasing, locally siliceous; feldspars grey and clouded.	
145.1-148.5	Guichon/ Hybrid dark grey/ grey green	-	wk/mod, loc stng bkn	chlr, ser carb	numerous carb vnits qtz vnlt 1cm at 40° C.A.	loc Fe- stn ser (hem)	(Fe)	-	carb loc ser chlr	chlr ser carb	chlr	-	(cpy) (chalc) (NCu)	(cpy)	wk/ mod	Loc stng ser all with stng red perv Fe-stn. Cpy with chalc (**often bo/peacock coatings on chalc)	

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			
148.5-152.4	Guichon/ Hybrid? fault zone, red Fe-stn/ dark green	several occ at 5-10° C.A.	mod/int loc crushed/ milled	chl _r , ser, loc cly carb	numerous carb vnlt loc cly	loc Fe stn ser (hem)	(Fe)	-	carb loc ser cly chl _r	carb chl _r ser	-	-	-	(cpy)	(cpy)	tr		Stng perv carb and as blebs and vnlt. Carb/chl _r healed crush zones (looks mylonitic). Voids with drusy calcite.
152.4-156.1	Guichon/ Hybrid? fault zone, loc Fe-stn/dark green	loc w/crush zones	wk/mod, loc crushed/milled loc fault bx	carb, chl _r , ser, loc cly	num carb vnlt w/cpy qtz vnlt < 1 cm wk qtz stkwk	loc Fe- stn ser (hem)	-	-	carb chl _r ser cly	carb chl _r ser loc cly	-	-	-	(cpy)	(cpy)	-		Strong perv hydroth alt (chl _r /ser/carb) with loc perv hem-stn ser. Grey/pink aplitic porph dyke frags at 153.6 m.
156.1-159.8	Guichon/ Hybrid w/grey & grey/pink Porphyry in contact	-	wk/mod loc crushed	ser, chl _r , carb	carb vnlt qtz <3 cm w/cpy blebs	-	-	-	(loc ser) (chl _r) sil loc carb	ser chl _r carb	chl _r	-	-	(cpy)	(cpy)	wk/ mod		Grey-pink crowded Bethlehem porphyry contact at 159.0 m at 0-5° C.A. Stng cpy blebs in qtz veins. Diffuse chl _r bands and patches. Occasional bo tarnish on cpy.
159.8-163.8	Guichon/ Hybrid grey/cream- grey, loc pink speckled	loc 159.9 m	wk/mod loc bkn	ser, chl _r , carb	carb vnlt qtz vns <1 cm at 20 & 70° C.A. qtz/ chl _r healed fracts.	-	-	-	loc alb (chl _r) (loc ser)	ser chl _r carb loc ep	chl _r	-	-	(cpy)	cpy	wk/ mod		Cpy with bo tarnish in chl _r healed fracts. Open fracts with drusy calcite. Pink aplitic porphyry dykelet 159.9 m. Alteration envelopes on qtz veinlets either weak albitic or absent. Weak qtz stockwork.
163.8-167.2	Guichon grading to Guichon/ Hybrid loc mafic rich	-	wk/mod loc bkn/shatt at bottom of interval	ser, chl _r , carb	carb vnlt qtz vns to 1 cm at 5-20° C.A. w/cpy	loc hem stn ser	-	-	loc cly loc chl _r ser	ser chl _r carb loc ep	chl _r	-	-	(cpy)	cpy bo cov	mod		Aplite dykelets cross cut by qtz vnlt with cpy and minor bo 165.5-167.0 m. Loc strong perv chl _r /ser alteration in bottom half of interval. Weak qtz stockwork
167.2-170.6	Guichon/Hyb grey-green loc red-pink mottled, fault zone	loc at 10° C.A. 167.4 m	mod/stng loc shatt	ser, chl _r , carb loc cly	carb vnlt to 2 cm w/ open spces	loc hem stn ser	-	-	loc cly loc chl _r ser loc carb	ser chl _r carb loc cly	-	-	-	(cpy)	cpy loc bo loc cov (Mo)	wk		Carb healed crush zone 167.2 m 20° C.A. 3 cm Pink-red aplite dykelet 0-5° C.A. 3 cm with very fine dissp cpy and cpy in fracts. Loc stng bo and cov perv and in fracts****. 167.8-168.2 m
170.6-173.5	Guichon/ Hybrid/ grey-pink porphyry	loc w/ cpy	stng/ckle/ shatt, loc crushed	chl _r , ser, carb loc cly	carb vnlt aplite stkwk	-	-	-	chl _r ser loc carb patchy ep	chl _r ser loc cly carb loc alb	-	-	-	(cpy)	cpy (bo) (cov) Mo	wk/ mod		Inc shatt with numerous porph frags toward bottom of interval. Aplite dykelets and aplite impregnation of Guichon/Hybrid 171.0-173.0 m
173.5-176.6	Crowded Porph, pale	-	bkn/shatt loc crushed	carb, ser, (chl _r)	qtz vnlt and frags	-	-	-	alb? (sil)	ser (chl _r)	-	-	-	(cpy)	cpy (Mo)	tr/wk		Blich (alb?) alt env on fracts and qtz vnlt. Loc stng perv alb alteration. Diff chl _r patches with cpy

ROCK TYPE		FAULT	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	GOUGE	INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary					
								perv.	fract.		perv.	fract.	perv.	fract.				
	grey-white to pale grn/grey				w/cpy, vuggy				carb									Pale grey-pink aplite dykelets with (cpy) Qtz-feldspar granophyric porphyry
176.6-180.3	Qtz-feldspar crowded porphyry med-coarse grn, pale grey-pink to pale grey at bottom of interval		wk/mod, loc bkn sets at 0-5, 60-70° spacing 10-15 cm	carb, ser, loc chr	qtz + carb vnlt, aplite dykelet 3 cm at 0-5° C.A. qtz micro-stkwk				alb? ser sil ser (cly?)				(cpy) (loc) cov chalc	cpy (mo) (loc) cov chalc	tr		Pink speckled (K-sp) grading to pale cream-grey Should be stained for K-sp. Qtz/chlr healed fracts with cpy and chalc with cov and bo usually as coatings. Feldspars distinctly sericitic, weakly zoned. Qtz-feldspar crowded porphyry, resembles Fp-1	
180.3-184.4	qtz feldspar crowded porphyry pale cream-grey to grey-green	loc 5-10° C.A. < 1 cm 180.5 m	wk/mod, loc bkn sets at 40, 50, 20, 70° C.A.	ser, carb loc chr, loc alb	qtz vnlt <0.5 cm at 5-10° C.A. frequently w/cpy + chr selv				patchy alb sil (ser) (cly?)				(cpy) (loc) cov patchy chalc	cpy (mo) (loc) cov chalc	tr/wk		Diffuse chr patches. Composite qtz vnlt often with chr/alb margins or occasionally chr/alb core. Several aplite dykelets ~ 3 cm.	
184.4-187.4	qtz feldspar crowded porphyry pale grey-grn loc pink mottled fault zone	loc 186.8 m at ~ 10° C.A.	stng/int, loc crushed. Stng set at 0-5° C.A.	ser, chr carb, loc cly	qtz/chlr healed fracts qtz vnlt w/ chr selv				loc cly loc carb (chr) (ser)				(mo) (cpy)	cpy	tr		Should XRD for kaolin. Loc stng chr/ser/kaolin alteration. Patchy mafic-rich sections and coarser grained textural variations suggest assimilated Guichon in porphyry.	
187.4-189.6	Guichon/Hybrid dark grey-pink speckled		wk	ser, chr, carb	carb vnlt 5-10° C.A. <0.5 cm				chr (ser) (sil)	chr			(cpy)	cpy	wk		Guichon/Hybrid, comp. Probably intermixed Guichon and porphyry	
189.6-192.0	Guichon/Hybrid/ grey Porph fault zone	1-2 cm at 5-10° C.A. 191.0 m	stng/bkn loc shatt/crushed	ser, chr carb, loc cly	aplite dykelets to 3 cm, 190.2 m, qtz vn frags 191.5 m				chr, loc kaolin loc carb	chr ser carb loc cly			patchy cpy	(cpy)	tr		Fault zone with loc complete ser alt (kaolin?) Should XRD for clays. Qtz vn frags where crushed. More competent at base of interval	
192.0-194.1	Guichon/Hybrid w/ porphyry		wk/mod dominant sets at 40 & 50° C.A.	ser, carb, chr (loc cly)	carb vnlt qtz vnlt <0.5 cm, w/ (cpy) aplite dykelet ~ 1 cm				loc alb sil	ser chr carb (loc cly)			cpy chalc (cov)	cpy (chalc)	tr/wk		Phenos slightly ghost-like. Patchy perv alb/sil? Thin section would be useful. Chalc usually with cov coating. Diff chr patches and banding. Albite margins on qtz veinlets. Local strongly porphyritic texture.	
194.1-195.9	Guichon/Hybrid porphyry? fault zone	loc ~ 30° C.A. 194.2 m	stng/shatt loc crushed	ser, chr carb, loc cly	aplite frags carb micro-veins.				loc alb loc cly sil	ser chr carb loc cly			(cpy) (chalc) (cov)	py cpy	tr/wk		Very fine diss cpy often with cov chalc rims. First appearance to py.	

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.				
195.9-199.5	Guichon/ Bethlehem? Hybrid; fault zone, gradational contact	loc at 5-10° C.A.	mod/stng bkn loc shatt sets at 0, 50 + 70° C.A.	ser, cly, chl carb	qtz ~ 0.5cm crosscutting qtz stkwk	-	-	-	loc ser loc alb chl chl carb kaolin?	ser chl cyl carb	-	-	(cpy) (cpy) (py)	wk		Phenos somewhat ghost-like. Sharp decrease in primary mineralization. Original texture difficult to discern. Probably intermixed Guichon and Bethlehem porphyry; locally strong porphyritic textures.	
199.5-203.4	Fp-1 fault zone contaminated porphyry	loc at 0-10° C.A.	stng/shatt loc int/crushed	ser, chl, carb loc cly	carb micro- veins	-	-	-	chl patchy ser carb in gge	chl ser carb loc cly	chl	-	cpy cpy	wk		Texture and appearance similar to prev interval. Gge ~ 0-10° C.A. for most of interval. Competent section at top of interval, 199.5-200.2 m. This strongly resembles a mafic variety of Fp-1, seen in contact (occasionally) with Guichon.	
203.4-207.3	Fp-1 fault zone grey-grn/grn, loc pink-red mottled	loc >3 cm 204.2 m at 10° C.A.	mod/stng, loc shatt; sets at 50-70° C.A. w/ 5-15 cm spacing	ser, chl carb, loc cly	carb vnits qtz vnits at ~ 10° C.A. < 0.5 cm	loc Fe (hem)	-	-	chl loc carb loc ser	ser chl carb loc cly	-	-	(cpy) (patchy chalc w/ bo and/or cov)	tr		Chalc usually with bo coating. Patchy primary occurs throughout interval.	
207.3-210.8	Fp-1 fault zone grey-grn/grn, pink red mottled	loc	stng/int loc shatt sets at 50 and 60° C.A.	ser, chl carb, loc cly	carb vns to 1cm 0 + 30° C.A.	Fe(hem)	-	-	ser chl loc carb cyl	ser chl carb loc cly	assoc w/carb vnits	(hem)	cpy (patchy chalc w/bo & or cov)	cpy chalc w/cov	-	Carb vnit at ~ 0° C.A. 1 cm with chl selv. Very fine diss cpy with chalc (cov coating) in selv and in dark streaks in carb vnit. Alt env on most fracts blch/pale green.	
210.8-215.3	Fp-1 dark grey/grey grn, loc pink speckled	v loc	wk/mod loc bkn/shatt	ser, chl, carb loc cly	carb micro vns. chl healed fracts w/ cpy & (bo)	hem	-	-	chl loc ser (carb) sil	ser chl carb loc cly	chl	-	(hem) cpy (chalc)	cpy (chalc)	wk/ mod	Ghost-like phenos. Patchy stng ser alt (possible loc kaolin). Increasingly pale (chl/ser alt) toward bottom of interval. Locally resembles Guichon more than Fp-1	
215.3-218.4	Guichon?/Fp-1 pale grn-grey/ dark grn. Fault zone	several sections at ~ 20° C.A.	int/crushed fault bx loc comp sections	ser, cly chl, carb	carb + qtz frags, aplite frags 216.0 - 216.2 m	-	-	-	carb chl ser cyl	carb chl ser cyl	-	-	(cpy) (py)	(cpy)	-	Stng perv chl/ser alt. Fault zone. Top strongly altered to distinguish whether Guichon or Fp-1	
218.4-222.1	Guichon/Fp-1	loc at 50° C.A.	mod/loc int/ crush'd sets at 50-60° C.A. 10-15 cm spacing	chl, ser carb, loc cly	carb vnits 50-60° C.A. < 1 cm often w/ open spaces	-	-	-	chl ser carb cyl	chl ser carb loc cly	-	-	(cpy) (py)	(cpy)	tr	Cpy>py. Stng perv hydroth alt with numerous carb vns and vnits parallel to fracts. Loc carb/ chl healed crush zones.	
222.1-226.1	Guichon?/Fp-1 grn/dark grn w/red mottling	v loc	mod/stng	chl, ser, carb loc cly	carb vnits 50-60° C.A. < 1 cm often w/ open spaces	loc hem	-	-	chl ser carb cyl	chl ser carb loc cly	-	-	(cpy)	-	-	Alt as above. Loc pink-red mottling. Very little primary mineralization evident. Probably Fp-1 crowded porphyry	

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.			
226.1-229.8	Guichon?/Fp-1 fault zone grn/dark grn loc red mottling	loc 227.5 + 228.0 m at 50° C.A.	wk/mod loc int sets at 20 & 50°C.A.	chl _r , ser, carb loc cly	carb vnits 20 + 50° C.A. qtz frags	-	-	-	chl _r ser carb	chl _r ser carb loc cly	-	-	(cpy)	(cpy)	-	V fine patchy diss _p cpy. Perv hydrothermal alteration as above.	
229.8-233.8	Fault zone	0-10°C.A. most of int	int/gge, loc crushed/milled	chl _r , ser, carb cly	carb and qtz frags	-	-	-	chl _r ser carb cly	chl _r ser carb cly	-	-	-	-	-	Fault zone, shear at 0-10° C.A. for most of interval. Generally crushed and carb healed. No primary min evident.	
233.8-237.8	Fault zone	loc	int/gge fault bx loc crush'd/milled	chl _r , ser, carb cly	carb & qtz frags	-	-	-	chl _r ser carb cly	chl _r ser carb cly	-	-	(cpy)	(cpy) mo?	-	Numerous 1-2 cm carb frags in bx. Loc dark green/black chl _r ? banding (may be mo?)	
237.8-241.5	Fault zone	loc	int/gge, fault bx, loc crushed/milled	chl _r , ser, carb cly	composite qtz/carb vn 3-4 cm 239.7 m w/ cpy	-	-	-	chl _r ser carb cly	chl _r ser carb cly	-	-	-	cpy loc mo	-	Stng mo with cpy in fract _s at 239.0 m; Shear surfaces at 0° C.A. with sense of slip at 40° C.A. Dark green/black staining in bx matrix (mo?) 241.1 m	
241.5-244.4	Crowded Porphyry/Fp-1 pale grey-grn loc red mottled	loc 242.3 m	mod/stng bkn loc shatt	chl _r , ser, carb loc cly	carb micro vns.	loc hem	-	-	chl _r ser loc carb (cly)	chl _r ser carb loc cly	-	-	-	cpy mo	wk/ mod	Becomes more recognizable as porphyry with depth, ie: weaker chl _r /ser alt. Dark green/black chl _r /mo in fract _s at 5-20° C.A. freq with cpy.	
244.4-248.1	Crowded Porphyry/Fp-1 grey/ grey-grn, pink speckled	-	stng/bkn loc shatt	chl _r , ser, carb loc cly	carb vnits chl _r healed fract _s w/ py + (cpy)	-	-	-	chl _r ser loc cly	chl _r ser carb loc cly	-	-	(py) (cpy)	(py) (cpy) mo	wk/ mod	Py>cpy. K-sp alt env < 1.0 cm on carb vnits. Py ~ 0.5%	
248.1-251.8	Crowded Porphyry Bethlehem/ Fp-1	-	mod/stng bkn	chl _r , ser, carb loc cly	carb vnits chl _r healed fract _s w/ py + (cpy) qtz vnlt <0.5 cm w/ py	-	-	-	chl _r ser loc cly (ep) (sil)	chl _r ser carb loc cly	-	(hem)	tr py	(py) mo	wk	Loc diff ep blebs in alb?/K-sp (should be stained) alt env around qtz vnlt. Greater patchy K-sp alt in this interval than prev. Loc stng cpy in qtz/ chl _r vnlt at 250.7 m. Py < 0.5%	
251.8-255.4	Crwd'd Porph Bethlehem Fp-1 grey/ grey-green	-	mod/stng bkn	chl _r , ser, carb	carb vnits chl _r healed fract _s w/ py/cpy/Mo at 10° C.A.	-	-	-	chl _r ser sil (cly)	chl _r ser carb	-	-	(py)	(py) cpy mo	wk	Most min (primary and Supergene S _x) occ in chl _r / qtz healed fract _s at 10-20° C.A.	

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)																			
255.4-259.0	Crowded Porphyry Bethlehem Fp-1; grey/grey-green	-	mod/stng bkn loc crushed set at 0, 20 + 40° C.A.	chl, ser carb, loc cly	chl healed frags	-	-	-	(cly) chl	chl ser	-	-	-	(py) patchy cpy	(py) cpy	wk/mod	Pink-red aplitic porph frags 258.4-258.8 m. Strongest chl/mo? occ on frags at 0 and 20° C.A. Phenos loc ghost-like.		
259.0-262.3	Crowded Porphyry Bethlehem Fp-1; grey/grey-green	-	stng/bkn loc shatt	chl, ser carb, loc cly	chl healed frags	-	-	-	chl ser (sil) (cly)	chl ser carb loc cly	-	-	-	(py) cpy	py (cpy) mo	wk/mod	Decrease in apparent mo on frags. Cpy still present but patchy. Phenos often ghost-like.		
262.3-265.9	Porphyry/Fp-1 dark grey-grn /dark grn	v loc	stng/bkn loc shatt	chl, ser carb, loc cly	qtz/chl healed frags	loc hem	-	-	chl ser (carb) cly (bio)	chl ser carb loc cly	-	-	-	(py) (cpy)	(py) (cpy)	wk	Strongly chl alt. Difficult to distinguish original fabric. Patchy black secondary biotite.		
265.9-269.1	Porphyry/Fp-1 fault zone dark grey-grn /dark grn	loc w/pyr	int/crushed loc comp, loc milled	chl, ser carb, loc cly	carb vnits w/hem	(hem)	-	-	chl ser carb cly	chl ser carb loc cly	-	-	(hem)	(py) (cpy)	(py) (cpy)	-	Fine speckled to "feathery" hem in carb vnits, occ with cpy. Py in gge and crushed/milled zones		
269.1-272.8	Porphyry/Fp-1 pale grey-grn/dark grn	loc 269.2 m	mod/stng, loc bkn, crushed/ milled at top	chl, ser carb, loc cly	carb vnits w/hem qtz vnits w/ py + cpy	(hem)	-	-	chl ser (carb) (bio)	chl ser carb loc cly	-	-	(hem)	cpy (py)	cpy (py)	wk	Generally weaker perv chl/ser alt than above. Blch ser alt env < 1 cm on frags. Loc K-sp? alt env on qtz vnits < 1.0 cm. Py < 0.5%		
272.8-275.9	Porphyry/Fp-1 dark grn/grn blk, loc pink speckled	loc 273.3 m	mod, loc bkn/ crushed at top sets at 0-5 & 60° C.A.	chl, ser carb, loc cly	qtz vnits <0.5 cm, chl healed frags	-	-	-	chl ser loc carb sil	chl ser carb loc cly	-	-	-	(cpy) (py)	cpy (py) mo	wk	Increase in cpy diss and dissf. Loc mod/stng cpy as small blebs in qtz vnits and chl healed frags. Cpy>py on frags. Py < 0.5%		
275.9-279.5	Porphyry/Fp-1 patchy grey-grn/dark grn	-	wk/mod loc bkn, sets at 10-20, 40, 50° C.A.	chl, ser, carb (loc cly)	carb vnits w/hem, qtz vnits w/cpy	-	-	-	chl ser carb cly	chl ser carb (loc cly)	-	-	(hem) (hem)	(cpy) (py)	cpy (py)	tr/wk	Composite qtz/carb vn 3-4 cm with cpy and mo 20° C.A. 277.5 m		
279.5-282.5	Porphyry Fp-1 grey-grn grades to grey, loc pink speckled w/depth	-	wk/mod sets at 20 + 60° C.A.	chl, ser, carb	carb vnits w/hem <1 cm at 20 + 60° C.A.	(hem)	-	-	chl ser loc carb (bio) sil cly	chl ser carb	-	-	(hem) (hem)	(cpy) (py)	cpy (py) (mo)	wk/mod	Porph increasingly comp, less perv chl/ser alt with depth. Loc blch patches assoc with frags as well as blch alt env on frags. Locally qtz flooded.		

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.			
282.5-288.0	Porphyry Fp-1 grey/ grn-grey loc pink spkled		wk sets at 20 30, 60, 70° C.A. at 15-20 cm spacing	ser, chlr, carb	carb vnlt w/hem <0.5 cm at 20 + 60° C.A.	(hem)		chl ser (cly) sil (bio)	chl ser carb		(hem)	(cpy) (py)	cpy (py) (mo)	wk/ mod		Qtz/chlr healed fract and qtz vnlt 1-2 mm with cpy>py. Biotite loc quite fresh.	
288.0-291.1	Porphyry Fp-1 grey- grn/pale grn loc blch		wk/mod sets at 20, 40, 60° C.A., 10-30 cm spacing	ser, chlr, carb	carb vns at 50-60° C.A. < 1 cm w/ hem selv			chl ser (sil) (cly)	chl ser carb			cpy (py)	cpy (py)	wk		Carb vnlt at 50-60° C.A. with v fine diss hem and occ cpy. Chlr healed fract and qtz vnlt <0.5 cm with cpy. Cpy>py. Py<< 0.5%	
EOH 291.1 m																	

DDH 95-15

Northing: 5604066.5			DDH 95-15				Azimuth: 225		
Easting: 641576.8			Elevation: 1741.2 m				Inclination: -60		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
17610	12.2	13.7	0.86	0.86	-	-	-	-	Guichon
17611	13.7	15.2	0.78	0.73	-	-	-	-	"
17612	15.2	16.7	0.80	0.77	-	-	-	-	"
17613	16.7	18.2	0.75	0.69	-	-	-	-	"
17614	18.2	19.7	1.64	1.56	-	-	-	-	"
17615	19.7	21.2	0.57	0.45	-	-	-	-	"
17616	21.2	22.7	0.51	0.45	-	-	-	-	Guich.:wk Fault Zone
17617	22.7	24.2	0.72	0.67	-	-	-	-	"
17618	24.2	25.7	0.81	0.73	-	-	-	-	Fault Zone
17619	25.7	27.2	0.76	0.69	-	-	-	-	Guichon
17620	27.2	28.7	0.77	0.70	-	-	-	-	Guich. :Fault Zone
17621	28.7	30.2	0.66	0.57	-	-	-	-	Bethlehem?
17622	30.2	31.7	0.66	0.57	-	-	-	-	Guich. ?/Bethlehem?
17623	31.7	33.2	0.61	0.50	-	-	-	-	"
17624	33.2	34.7	0.60	0.52	-	-	-	-	"
17625	34.7	36.2	0.67	0.62	-	-	-	-	"
17626	36.2	37.7	0.78	0.73	-	-	-	-	"
17627	37.7	39.2	0.74	0.69	-	-	-	-	Guichon/Hybrid
17628	39.2	40.7	0.70	0.64	-	-	-	-	"
17629	40.7	42.2	0.91	0.82	-	-	-	-	"
17630	42.2	43.7	0.64	0.58	-	-	-	-	"
17631	43.7	45.2	0.66	0.59	-	-	-	-	"
17632	45.2	46.7	0.77	0.76	-	-	-	-	"
17633	46.7	48.2	0.76	0.72	-	-	-	-	"
17634	48.2	49.7	0.70	0.61	-	-	-	-	"
17635	49.7	51.2	0.57	0.53	-	-	-	-	"
17636	51.2	52.7	0.51	0.47	-	-	-	-	"
17637	52.7	54.2	0.47	0.41	-	-	-	-	"
17638	54.2	55.7	0.47	0.43	-	-	-	-	Guichon
17639	55.7	57.2	0.46	0.42	-	-	-	-	"
17640	57.2	58.7	0.44	0.38	-	-	-	-	"
17641	58.7	60.2	0.49	0.42	-	-	-	-	"
17642	60.2	61.7	0.43	0.39	-	-	-	-	"
17643	61.7	63.2	0.63	0.60	-	-	-	-	"
17644	63.2	64.7	0.72	0.68	-	-	-	-	"
17645	64.7	66.2	0.49	0.41	-	-	-	-	"
17646	66.2	67.7	0.48	0.42	-	-	-	-	"
17647	67.7	69.2	0.55	0.51	-	-	-	-	"
17648	69.2	70.7	0.47	0.42	-	-	-	-	Guichon/Hybrid
17649	70.7	72.2	0.40	0.34	-	-	-	-	"
17650	72.2	73.7	0.31	0.24	-	-	-	-	"
17651	73.7	75.2	0.54	0.48	-	-	-	-	"
17652	75.2	76.7	0.43	0.39	-	-	-	-	"
17653	76.7	78.2	0.49	0.44	-	-	-	-	Guichon

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17654	78.2	79.7	0.61	0.55	-	-	-	-	Guichon
17655	79.7	81.2	0.63	0.57	-	-	-	-	"
17656	81.2	82.7	0.75	0.74	-	-	-	-	"
17657	82.7	84.2	0.61	0.59	-	-	-	-	"
17658	84.2	85.7	0.64	0.61	-	-	-	-	"
17659	85.7	87.2	0.44	0.40	-	-	-	-	"
17660	87.2	88.7	0.48	0.48	-	-	-	-	"
17661	88.7	90.2	0.55	0.55	-	-	-	-	"
17662	90.2	91.7	0.45	0.44	-	-	-	-	"
17663	91.7	93.2	0.66	0.60	-	-	-	-	"
17664	93.2	94.7	0.54	0.52	-	-	-	-	"
17665	94.7	96.2	0.59	0.55	-	-	-	-	"
17666	96.2	97.7	0.44	0.42	-	-	-	-	"
17667	97.7	99.2	0.62	0.62	-	-	-	-	Guichon/wk Fault Zone
17668	99.2	100.7	0.90	0.90	-	-	-	-	"
17669	100.7	102.2	0.61	0.58	-	-	-	-	Guichon
17670	102.2	103.7	0.42	0.37	-	-	-	-	"
17671	103.7	105.2	0.58	0.41	-	-	-	-	"
17672	105.2	106.7	0.34	0.28	-	-	-	-	"
17673	106.7	108.2	0.39	0.31	-	-	-	-	"
17674	108.2	109.7	0.40	0.28	-	-	-	-	Guichon/Hybrid?
17675	109.7	111.2	0.48	0.36	-	-	-	-	"
17676	111.2	112.7	0.85	0.54	-	-	-	-	"
17677	112.7	114.2	0.36	0.24	-	-	-	-	"
17678	114.2	115.7	0.31	0.12	-	-	-	-	"
17679	115.7	117.2	0.34	0.13	-	-	-	-	Guichon
17680	117.2	118.7	0.23	0.07	-	-	-	-	"
17681	118.7	120.2	0.20	0.06	-	-	-	-	"
17682	120.2	121.7	0.39	0.09	-	-	-	-	"
17683	121.7	123.2	0.20	-	0.2	0.01	5	<.001	"
17684	123.2	124.7	0.28	-	0.3	0.01	5	<.001	"
17685	124.7	126.2	0.23	-	0.3	0.01	5	<.001	"
17686	126.2	127.7	0.23	-	0.3	0.01	5	0.003	"
17687	127.7	129.2	0.25	-	0.4	0.01	5	<.001	"
17688	129.2	130.7	0.22	-	0.7	0.02	5	<.001	"
17689	130.7	132.2	0.42	-	0.7	0.02	5	0.001	"
17690	132.2	133.7	0.48	-	0.5	0.02	5	0.001	"
17691	133.7	135.2	0.69	-	0.8	0.02	5	0.001	"
17692	135.2	136.7	0.49	-	0.2	0.01	5	0.001	"
17693	136.7	138.2	0.46	-	0.4	0.01	5	0.001	"
17694	138.2	139.7	0.44	-	0.2	0.01	5	<.001	Guichon/Hybrid
17695	139.7	141.2	0.37	-	0.6	0.02	5	<.001	"
17696	141.2	142.7	0.43	-	0.3	0.01	5	0.001	Hybrid / dyke?
17697	142.7	144.2	0.40	-	0.5	0.02	10	0.001	Guichon/Hybrid
17698	144.2	145.7	0.39	-	0.9	0.03	5	<.001	"
17699	145.7	147.2	0.13	-	0.2	0.01	5	0.001	"
17700	147.2	148.7	0.37	-	0.8	0.02	5	0.002	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17701	148.7	150.2	0.26	-	0.4	0.01	5	0.001	Guichon/Hybrid :
17702	150.2	151.7	0.18	-	0.3	0.01	5	<.001	Fault Zone
17703	151.7	153.2	0.30	-	0.1	<.01	5	0.001	"
17704	153.2	154.7	0.21	-	0.1	<.01	5	0.002	"
17705	154.7	156.2	0.20	-	0.2	0.01	5	<.001	"
17706	156.2	157.7	0.55	-	0.6	0.02	5	0.002	Guichon/Hybrid
17707	157.7	159.2	0.49	-	0.4	0.01	5	<.001	"
17708	159.2	160.7	0.27	-	0.2	0.01	5	<.001	"
17709	160.7	162.2	0.26	-	0.4	0.01	5	<.001	"
17710	162.2	163.7	0.24	-	0.2	0.01	5	<.001	"
17711	163.7	165.2	0.43	-	0.5	0.02	5	0.001	"
17712	165.2	166.7	0.24	-	0.3	0.01	5	0.004	"
17713	166.7	168.2	0.72	-	3.0	0.09	5	0.001	Guichon/Hybrid:
17714	168.2	169.7	0.15	-	0.2	0.01	5	0.001	Fault Zone
17715	169.7	171.2	0.22	-	0.4	0.01	5	0.002	"
17716	171.2	172.7	0.27	-	0.4	0.01	5	0.005	Guichon/Hybrid
17717	172.7	174.2	0.26	-	0.1	<.01	5	0.001	"
17718	174.2	175.7	0.21	-	0.1	<.01	5	<.001	Crowded Porphyry
17719	175.7	177.2	0.25	-	0.2	0.01	5	0.001	"
17720	177.2	178.7	0.31	-	0.1	<.01	5	<.001	"
17721	178.7	180.2	0.42	-	0.7	0.02	5	0.004	"
17722	180.2	181.7	0.42	-	1.6	0.05	<5	<.001	"
17723	181.7	183.2	0.26	-	0.5	0.02	<5	<.001	"
17724	183.2	184.7	0.27	-	0.5	0.02	<5	0.003	"
17725	184.7	186.2	0.39	-	0.2	0.01	<5	0.002	Porph.: Fault Zone
17726	186.2	187.7	0.33	-	0.2	0.01	<5	<.001	"
17727	187.7	189.2	0.33	-	1.8	0.05	5	0.001	Guichon/Hybrid
17728	189.2	190.7	0.44	-	0.8	0.02	<5	0.001	(Porph.) Fault Zone
17729	190.7	192.2	0.40	-	1.2	0.04	5	0.002	Guichon/Hybrid
17730	192.2	193.7	0.18	-	0.4	0.01	<5	0.005	"
17731	193.7	195.2	0.19	-	0.5	0.02	<5	0.003	"
17732	195.2	196.7	0.21	-	0.5	0.02	<5	0.007	"
17733	196.7	198.2	0.17	-	0.4	0.01	<5	0.001	Guich./Beth. ?/Hybrid
17734	198.2	199.7	0.28	-	0.3	0.01	<5	0.004	Fault Zone
17735	199.7	201.2	0.36	-	0.9	0.03	<5	0.005	Guichon/Hybrid:
17736	201.2	202.7	0.27	-	1.0	0.03	5	0.008	Fault Zone
17737	202.7	204.2	0.35	-	0.7	0.02	<5	0.002	"
17738	204.2	205.7	0.35	-	1.0	0.03	<5	<.001	"
17739	205.7	207.2	0.40	-	1.8	0.05	<5	0.001	"
17740	207.2	208.7	0.30	-	0.3	0.01	<5	<.001	"
17741	208.7	210.2	0.23	-	0.8	0.02	<5	<.001	"
17742	210.2	211.7	0.27	-	0.6	0.02	5	<.001	"
17743	211.7	213.2	0.14	-	0.3	0.01	<5	<.001	"
17744	213.2	214.7	0.21	-	0.6	0.02	<5	<.001	"
17745	214.7	216.2	0.16	-	0.4	0.01	<5	<.001	"
17746	216.2	217.7	0.53	-	1.7	0.05	<5	0.003	"
17747	217.7	219.2	0.57	-	1.4	0.04	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17748	219.2	220.7	0.31	-	1.3	0.04	<5	<.001	Guichon/Hybrid?
17749	220.7	222.2	0.43	-	1.0	0.03	<5	<.001	"
17750	222.2	223.7	0.31	-	0.8	0.02	<5	<.001	Guichon
17751	223.7	225.2	0.29	-	0.5	0.02	<5	<.001	"
17752	225.2	226.7	0.28	-	0.9	0.03	5	<.001	"
17753	226.7	228.2	0.23	-	0.2	0.01	<5	<.001	Guichon:Fault Zone
17754	228.2	229.7	0.26	-	0.3	0.01	<5	<.001	"
17755	229.7	231.2	0.34	-	1.0	0.03	5	0.001	"
17756	231.2	232.7	0.70	-	1.6	0.05	<5	0.002	"
17757	232.7	234.2	1.28	-	1.6	0.05	<5	0.004	"
17758	234.2	235.7	0.61	-	0.5	0.02	<5	0.003	"
17759	235.7	237.2	0.37	-	0.9	0.03	<5	0.006	"
17760	237.2	238.7	0.41	-	0.6	0.02	<5	0.025	Porphyry? : Fault
17761	238.7	240.2	1.86	-	3.9	0.11	10	0.185	Zone
17762	240.2	241.7	0.89	-	2.5	0.07	<5	0.040	"
17763	241.7	243.2	0.36	-	1.4	0.04	<5	0.012	Crowded Porphyry:
17764	243.2	244.7	0.27	-	1.5	0.04	<5	<.001	(Bethlehem?)
17765	244.7	246.2	0.31	-	4.6	0.13	<5	0.001	"
17766	246.2	247.7	0.26	-	0.5	0.02	<5	<.001	"
17767	247.7	249.2	0.33	-	0.3	0.01	<5	0.003	"
17768	249.2	250.7	0.27	-	0.2	0.01	<5	0.010	"
17769	250.7	252.2	0.38	-	0.3	0.01	<5	0.010	"
17770	252.2	253.7	0.25	-	0.4	0.01	<5	0.012	"
17771	253.7	255.2	0.35	-	0.6	0.02	<5	<.001	"
17772	255.2	256.7	0.49	-	0.6	0.02	<5	0.002	"
17773	256.7	258.2	0.42	-	0.6	0.02	<5	0.002	"
17774	258.2	259.7	0.19	-	0.9	0.03	<5	<.001	"
17775	259.7	261.2	0.27	-	0.6	0.02	<5	<.001	"
17776	261.2	262.7	0.30	-	0.3	0.01	<5	<.001	"
17777	262.7	264.2	0.54	-	0.8	0.02	5	<.001	Porphyry?
17778	264.2	265.7	0.38	-	0.4	0.01	<5	0.002	"
17779	265.7	267.2	0.35	-	0.3	0.01	<5	0.002	Porphyry?:Fault
17780	267.2	268.7	0.43	-	0.4	0.01	<5	0.003	Zone
17781	268.7	270.2	0.27	-	0.5	0.02	<5	0.004	Porphyry
17782	270.2	271.7	0.51	-	0.7	0.02	<5	0.011	"
17783	271.7	273.2	0.41	-	0.6	0.02	5	0.009	"
17784	273.2	274.7	0.58	-	0.6	0.02	5	0.010	"
17785	274.7	276.2	0.34	-	0.3	0.01	<5	0.006	"
17786	276.2	277.7	0.15	-	0.3	0.01	<5	<.001	"
17787	277.7	279.2	0.67	-	1.3	0.04	5	0.034	"
17788	279.2	280.7	0.24	-	0.2	0.01	<5	0.002	"
17789	280.7	282.2	0.15	-	0.3	0.01	10	<.001	"
17790	282.2	283.7	0.13	-	0.3	0.01	<5	<.001	"
17791	283.7	285.2	0.38	-	0.8	0.02	<5	<.001	"
17792	285.2	286.7	0.25	-	0.6	0.02	<5	0.001	"
17793	286.7	288.2	0.38	-	0.7	0.02	60	0.002	"
17794	288.2	289.7	0.44	-	0.7	0.02	<5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17795	289.7	291.1	0.39	-	0.9	0.03	<5	0.002	Porphyry
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	DH95-16	Date	16-Sep	Relogged:	Mar 31/96 for alteration and lithology	Logged by	VN	Elevation	1735.9 m	Azimuth	225	Northing:	5604000.1	Inclination	-60	Length	157.0 m	Eastng:	641563.6
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					
0-16.5	overburden Guichon & Tertiary Volcanics																		
16.5-19.3	Guichon, pink speckled		stng/bkn loc shatt			Fe, Mn (grn Cu-stn ser)	Fe	(chlr) (ser)	(chlr) ser (carb)			tr chrys			wk/ mod		Generally wk perv chl/ser alt. Mod/stng Fe on fracts. Weakly foliated. Mafics weakly chloritized; feldspars white, clouded.		
19.3-21.0	Guichon, pink speckled		wk/mod			Fe, (Mn) (grn Cu-stn ser)	Fe (cly)	(chlr) (ser) (loc ep)	(chlr) ser (ep)	(chlr)	(hem)	tr chrys			wk/ mod		Guichon, comp, stng Fe-stn in fracts		
21.0-22.8	Guichon		stng/shatt, loc crushed			Fe (Mn) (grn Cu-stn ser)	Fe (cly)	(chlr) (ser)	(chlr) ser		(hem)				tr/ wk		Stng jar/goethite? on fracts.		
22.8-25.9	Guichon		stng/shatt		loc Fe	Fe, Mn	Fe (cly)	(chlr) (ser)	(chlr) (ser)						tr		V stng Fe staining on fracts. Fe-stn alt envelopes < 1 cm on fracts.		
25.9-29.3	Guichon		stng/bkn		loc Fe	Fe, Mn	Fe cly	(chlr) (ser)	(chlr) ser		hem w/ maf				tr		Loc stng Mn on fracts. Wk perv hem. Very strong Fe staining on fractures. Fe stained alteration envelopes < 1 cm.		
29.3-33.1	Guichon		mod/stng, loc bkn, sets at 20 & 70° C. A.		loc Fe	Fe, Mn	Fe (cly)	(chlr) (ser)	(chlr) ser (carb)		hem w/ maf	(sooty chalc)			tr/wk		Several partially assimilated xenoliths. Fe stn alteration envelopes on fracts. Local sooty chalcocite on fractures.		
33.1-36.8	Guichon		wk		loc Fe	Fe, Mn	Fe	(chlr)	(ser)	chlr	(NCu)	(NCu)			wk		Tr NCu with mafics at bottom of interval. Fe stn and perv alt decrease with depth.		

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
36.8-40.8	Guichon, loc pink speckled	-	wk	ser (chlr) (carb)	carb vnits < 0.5 cm w/ stng Fe selv	-	Fe, Mn (red Cu- stn ser)	Fe	(chlr) (loc ser) loc ep alb	(chlr) (chlr) ser loc ep	chlr	(NCu)	(cup) (NCu)	-	-	wk/ mod	Pos H ₂ SO ₄ tests on fract. 40.5 m. Diffuse Fe-stn around fract, diff ep blebs and patches around fract.	
40.8-44.6	Guichon	-	wk/mod, loc bkn	ser. (chlr) carb	carb vnits < 0.5 cm w/ ep	-	Fe, Mn	-	(chlr) (loc ser) loc ep alb	chlr ser carb loc ep	chlr	(hem w/maf)	(cup) (NCu)	(NCu)	-	wk/ mod	Diff. patchy ep assoc with fract throughout. Diff chlr patches and chlr banding. Strong Fe on most fract. Weak py with Fe-Oxides on fract.	
44.6-48.6	Guichon pink speckled	-	wk/mod, sets at 30 & 70° C.A. 15-25 cm spacing	ser. (chlr) carb	-	-	Fe, Mn	-	(chlr) (ser)	chlr ser carb	chlr	hem w/ maf	(NCu)	(NCu)	(cpy)	wk	Patchy perv NCu. Continued stng Fe on fract, often with diff Fe stn env.	
48.6-52.0	Guichon, loc pink speckled	-	stng/bkn	ser, carb	-	loc Fe	Fe, jar	Fe cly	(chlr) ser (cly)	(chlr) ser carb	-	hem w/maf	(NCu)	-	-	tr/wk	Stng Fe in fract. Loc diff Fe stn env on fract.	
52.0-55.6	Guichon	-	mod/loc stng/bkn, sets at 0, 30 & 60° C.A.	ser, carb (chlr)	qtz vnlt at 0o <0.5cm w/NCu, stng Fe stn	loc Fe	Fe, jar	Fe cly	chlr loc ser	chlr ser carb	-	hem w/maf	(NCu) tr cup	-	-	tr/wk	Wk NCu throughout. Stng Fe stn qtz vnlt: with carb and NCu at 0° bottom of interval.	
55.6-59.3	Guichon	-	mod/loc, stng/ bkn, sets at 0- 10 & 60-70° C.A.	ser, (chlr) carb, (cly)	qtz vnlt at 0° ca ~0.5 cm	loc Fe	Fe, jar	Fe cly	chlr loc ser loc K-sp	(chlr) ser carb K-sp	chlr	hem w/maf	(NCu)	(pyr)	-	wk	Stng Fe stn qtz vnlt at 0° with carb and tr NCu. Diff chlr patches occ with diss pyr. Loc K-sp alt patches and alt env on fract. Dominant fract show stng Fe-stn env.	
59.3-62.9	Guichon/ Hybrid?	-	stng/bkn loc shatt	ser. (chlr) loc carb	-	loc Fe	Fe, jar hem	kaolin?	(chlr) (sil) ser, loc ep	(chlr) ser loc- carb	-	hem w/maf	-	-	-	tr/wk	Diff chlr patches usually with ep increasing with depth. Loc stng ser on fract. Subtle textural variations; locally weak porphyritic	
62.9-66.1	Guichon	-	stng/shatt loc bkn	ser. (chlr) loc carb	-	loc Fe	Fe jar (hem) (Mn)	kaolin?	(chlr) (ser) loc ep loc alb	(chlr) ser loc- carb loc ep	-	hem w/maf	-	-	-	tr	Possible kaolin on fract. Should be XRD tested. Diff chlr patches and banding with loc stng ep 65.0-66.0 m.	
66.1-69.6	Guichon, grey/loc pink speckled	-	mod/stng loc shatt/ crushed	ser. (chlr) carb	-	-	Mn, Fe jar, hem, red Cu- stn ser	loc kaolin	patchy (ser) & chlr loc alb? loc ep	(chlr) ser carb	-	hem w/maf	(cup)	-	tr py	tr	Generally wk perv ser. Loc stng ser/kaolin where shattered. Mn on fract increases with depth, usually as dendrites, loc stng at bottom.	

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
69.6-73.1	Guichon		mod/stng bkn	ser. (chlr) carb			Mn, Fe jar, hem, grn Cu- stn ser	kaolin	(chlr) ser loc ep K-sp?	ser (chlr) carb		hem w/maf	(chrys)	-	-	tr	Loc diff chlr/ep patches, often with increased conc of diss hem. Diff ep env on fract. Still mod/stng Fe, Mn (dendrites and spots) and ser on fract. Should be XRD tested for kaolin on fract.	
73.1-74.7	Guichon		stng/bkn	ser. (chlr) cly			Fe, Mn (grn Cu- stn ser)		(chlr) patchy ser loc ep	(chlr) ser cly			loc chrys	-	-	tr	Decrease in Fe-stn on fract. Generally wk perv hydrothermal alteration. Diff ep patches.	
74.7-76.2	Grey/pink Porphyry		shatt/int loc crushed	(ser)			Fe, (Mn)		(ser)	(ser)		hem	hem	-	-	-	Grey/pink porphyry, loc aplitic with Guichon xenoliths. Dissp hem.	
76.2-80.1	Porphyry grey/ dark grey fault zone	loc 77.8m	shatt/int, loc crushed, loc fault bx	(ser) carb			Fe, (Mn)		(ser)	(ser) carb		hem	hem			-	Generally ghost like phenos in aphanitic grdmss, with Guichon xenoliths. Dissp hem.	
80.1-83.5	Guichon/ Hybrid grey/loc pink mottled		mod/stng bkn sets at 20 & 70° C.A. 5-10 cm spacing	ser. (cly) loc carb	carb vnlt < 0.5 cm at 70° C.A.		Fe		(chlr) loc ep alb	(cly) ser loc carb		(hem)				tr/wk	Pink aplitic porphyry dykelet 1.0 cm 30° C.A. Diffuse chlr patches and banding with diff ep.	
83.5-87.1	Guichon/ Hybrid grey/loc pink mottled		stng/bkn/shatt loc crushed	ser. carb			Fe, Mn		(chlr) loc ep alb	ser (cly) loc carb		(hem)		(py)	pyr	tr	First appearance of pyr. (Increases with depth) Chlr/ep patches as seen above. 0.5-1% py	
87.1-90.4	Guichon		bkn/shatt loc dis bx loc crushed	ser. (cly)		Fe in bx matrix	Fe, (Mn)		(chlr) loc ep (ser)	(cly) ser loc ep	chl?r?	(hem)		(py)	pyr	tr	Stng Fe-stn (coating) on all fract and in dis bx mat. 90.0-90.4 m. Chlr/ep patches continue as above. Phenos occ ghost like.	
90.4-93.9	Guichon fault zone		bkn/shatt loc dis bx loc crushed	ser. (chlr) (cly)	carb vnlt < 0.5 cm at 0 + 70° C.A. py vnlt 1-2 mm	Fe in bx matrix	Fe		(chlr) ser (carb)	ser (chlr) (cly)				(py)	pyr	tr/wk	Stng pyr diss and diss with occasional pyr vnlt 1-2 mm.	
93.9-97.1	Guichon loc pink mottled	loc 95.3 and 95.7 m	shatt/int loc crushed loc dis bx	ser. (chlr) loc cly, carb	qtz/carb 2-3 cm at 50° C.A.	Fe in bx matrix	Fe		(chlr) ser (carb) (cly)	ser (chlr) carb loc cly				(py)	pyr	tr	Grey-brown porphyry dyke frags with pyr diss and on fract. Blich alt env <0.5 cm on pyr vnlt 1-2 mm. Composite qtz/carb vn at 50° C.A. with black streaks. Sharp decrease in Fe on fract.	
97.1-100.6	Guichon loc pink-red mottled		bkn/shatt loc crushed	ser. chlr, carb	chlr healed fract w/pyr	(hem)	(Fe)		chlr ser loc ep	chlr ser carb		(hem)		(py)	pyr	tr/wk	Stng diss and diss pyr. Out of oxide zone. Loc stng ser alt env on fract. Diff chlr/ep patches around fract. 1 % py	

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
100.6-103.4	Guichon pale grey-grn/ green		stng/bkn/shatt loc crushed	chlr, ser, carb (loc cly)	chlr healed fracts w/ py & (mo)	-	-	-	chlr ser (cly)	chlr ser (loc cly)	-	(loc hem)	(py)	pyr (mo)	tr	Some open spaces in frcts and vnits. Pyr vnits with tr mo and blch alt env <0.5 cm.		
103.4-107.1	Guichon pale grey-grn/ green		stng/bkn sets at 10-20, 60-70° C.A.	(chlr), ser carb	chlr healed fracts w/ pyr, carb vnits <1cm w/hem at 10-20° C.A.	-	loc hem	-	chlr ser loc ep (loc carb) (cly)	(chlr) ser carb loc ep (loc carb) (cly)	-	-	(py)	pyr mo	tr/wk	Carb vnits with hem speckles and chlr selv. Patchy stng ser altn. Blch, ser alt env on pyr-bearing fracts < 0.5 cm. Open spaces in fracts and carb vnits. Occasional brass coating on core surface form drill. Py ~ 1%		
107.1-110.7	Guichon/ Hybrid dark grey-grn/ grey-grn/pale grey.		wk/mod, loc bkn, sets at 20 & 70° C.A. some slip	ser, chlr carb	chlr healed fracts w/ pyr and loc mo	-	-	-	(chlr) (patchy ser) alb	ser chlr carb	-	-	(py)	(py) mo	wk	Aplite dykes 1.0-6.0 cm at 20° C.A. Diff chlr/ep patches above and below aplite. Darker hyb at top grades to lighter Guich, pink speckled, at bottom. Pyr 0.5-1%		
110.7-114.9	Guichon, grey/ pink speckled		wk/mod loc bkn, sets at 20, 30, 60 & 70° C.A.	(ser), chlr carb	chlr healed fracts w/ pyr, carb vnits <0.5cm at 30° C.A.	-	-	-	loc ser (loc chlr) loc ep alb	(ser) chlr carb loc K-sp	chlr	-	(py)	pyr	mod	Voids with drusy calcite. Pink aplite dykelet, 2.0 cm at 20° C.A. predates mineralized fracts 114.8 m. Loc aplite impregnation? of Guichon at 111.0 m. Most of interval appears quite fresh. 1% py		
114.9-118.2	Guichon/ Hybrid grey/dark grey loc pink speckled		mod/stng, loc bkn, loc ckle	(ser), chlr carb	carb vnits ~ 0.5 cm, vuggy, chlr healed fracts w/loc stng py	-	-	-	loc ser loc ep loc Ksp (chlr) (alb)	(ser) chlr carb loc ep	chlr	-	(py)	pyr	mod	Aplite dyke 7.0 cm at 50° C.A., predates mineralized fracts. Carb vnits and carb filling voids with patchy stng ser altn above aplite. Loc K-sp? and ep in ckle zones. Weak chlr after biotite.		
118.2-121.8	Guichon/ Hybrid dark grey/ green-grey loc blch	v loc 119.8 m	stng/ckle, loc dis bx, loc crushed/milled	ser, chlr, carb loc cly	py vnits 1-2 mm 20-30° C.A. chlr healed fracts w/ py	-	-	-	loc carb loc ep chlr ser loc K-sp?	ser chlr carb	-	-	(py)	pyr	wk/ mod	Stng (nearly complete) ser altn 121.0-121.7 m. Much greater perv hydroth altn than prev interval. Patchy K-sp altn with diffuse ep. Pyr ~ 1%		
121.8-125.2	Guichon/ Hybrid grey/green- grey loc blch	122.5- 122.8 m at 10° C.A. ~ 1 cm w/py	bkn/shatt loc crushed sets at 0, 30, 40, 50, 60° C.A.	ser, chlr, carb	irregular carb vnits py & qtz vnits 1-2 mm	-	-	-	chlr ser loc ep	ser chlr carb loc ep	-	-	(py)	pyr	wk/ mod	Stng pyr on 30 and 60° C.A. fracts. Stronger ep as diffuse blebs and on fracts, weaker perv ser than prev interval, though loc stng. Blch, wk ser alt env <0.5 cm on chlr healed fracts. Py 1-1.5%		

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			
125.2-128.3	Guichon/ Hybrid dark grey-grn loc blch	-	mod/loc bkn sets at 5-10° 30, 60° C.A. w/py	ser, (chlr) carb	carb vnits irregular & at 5-10° C.A. < 0.5 cm	-	-	-	chlr ser loc carb (sil)	(chlr) ser carb	-	-	-	(py)	pyr (cpy)	wk/ mod		Pink aplitic porphyry dykelet 5.0 cm at 60° C.A. 126.5 m with diff lower contact. Irregular carb vnits 0.5-2.0 cm at 5-10° C.A. 126.8-127.7 m, vuggy with blch, ser. K-sp? alt env 1-2 cm. Cpy in chlr healed fract at bottom of interval.
128.3-130.2	Guichon/ Hybrid green-grey/ green	-	mod/stng bkn sets at 10, 30 60° C.A. loc ckle bx	ser, (chlr) carb	abd chlr healed fract w/pyr, pyr & qtz vnits 1-2 mm	-	(loc hem)	-	(loc ep) (carb) chlr ser	loc ep (chlr) ser carb	-	-	-	(py)	pyr (cpy)	wk		Increasingly chlr/ser alt with depth, texture be- coming less distinct. Blch, ser alt env < 0.5 cm on pyr vnits and chlr healed fract. Occ voids in fracts and vnits. 1-1.5% py
130.2-132.7	Guichon/ Hybrid green/dark green, loc blch	-	wk/mod loc ckle	chlr, ser, carb	chlr healed fracts w/ pyr, carb vnits w/ (hem)+(cpy) <0.5 cm vuggy	-	-	-	chlr ser carb	chlr ser carb	-	-	-	(py)	pyr (cpy)	-		Stng perv hydroth altn (chlr/ser) with perv carb, original texture obscured, phenos usually ghost- like, becoming unrecognizable at bottom of interval.
132.7-136.2	Fault zone	135.7- 136.2 m at 10-20° C.A. w/py	int/loc comp carb/chlr/sil? healed, fault bx/shear zone	ser, chlr, carb loc cly	irregular carb vnits & carb in voids	-	unidentified black streaks and bands	-	chlr loc carb ser loc cly loc sil?	ser chlr carb loc cly	-	-	-	(py) (mo)	(py) mo	-		Voids with drusy to coarsely crystalline calcite. Chlr/carb/sil? healed fault bx/shear zone contacts stng alt Guichon/Hybrid at ~5° C.A. Clast types difficult to determine, some appear granophyric, others black and aphanitic, all rounded to sub- angular. Chlr/carb/cly increase with depth becoming locally massive at bottom.
136.2-141.1	Fault zone	loc	int/loc comp fault bx/shear zone carb/chlr/ sil? healed	ser, chlr, carb loc cly	irregular carb vnits & carb in voids	-	unidentified black streaks and bands	-	chlr carb ser loc cly loc sil?	ser (chlr) carb loc cly	-	-	-	(py) (mo)	(py) mo	-		Voids with coarsely crystalline calcite. Healed fault bx/ shear zone as seen above with loc massive carb. Stng perv alt has removed and/or obscured original clast textures.
141.1-144.6	Guichon? Hybrid? grey-green healed crush zone?	142.6 m > 4.0 cm at 10° C.A.	mod/stng loc comp chlr/carb healed?	(chlr), ser carb, loc cly	abd qtz/chlr vnits <0.5cm w/py cores	-	-	-	chlr carb ser loc cly loc sil?	ser (chlr) carb loc cly	-	-	-	pyr	pyr	-		Stng chlr/ser altn with loc stng perv carb. Pyr 1-2 mm in vnits usually with blch alt env <1.0 cm 1-1.5% py.
144.6-148.5	Guichon? Hybrid? Porphyry? grey-green/ pale green Fault zone	148.4 m ~2.0 cm	int/crushed loc comp loc dis bx, chlr/carb healed	(chlr), ser carb, loc cly	abundant crosscutting qtz/chlr vnits w/pyr irregular carb vnits w/hem speckles	-	-	-	chlr carb ser loc cly	ser (chlr) carb loc cly	-	-	-	(py)	pyr	-		Continued stng chlr/ser/carb altn with original rock fabric largely obscured or eliminated. Well developed (0.5-1.5 cm) bleached, siliceous alteration envelopes on qtz and py veinlets. 1.5-2% py.

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)																	
148.5-153.1	Guichon?/ Hybrid? Porphyry? pale green/ pale grey-grn loc blch	-	wk/mod loc crushed	(chlr), ser carb	abd qtz/chlr vnlt w/pyr & cpy 1-2 mm	-	-	-	chlr sil ser carb (cly)	(chlr) loc cly ser carb	-	-	-	(py) (cpy)	pyr cpy	-	Loc pale green/blch sections (ser and carb) with generally stng chlr throughout as in prev interval, decrease in carb. Stng blch alt env <2.0 cm on fracts and pyr/cpy vnlt.
153.1-157.0	Guichon?/ Hybrid? Porphyry? pale green/ cream green at top, dark green w/ depth.	155.1 m at 30° C.A.	stng/bkn loc shatt/ crushed	(chlr), ser, carb, loc cly	abd qtz/chlr vnlt w/pyr & cpy 1-2 mm	-	loc hem	-	chlr carb ser loc cly	(chlr) loc cly ser carb	-	-	-	(py)	pyr (cpy)	-	Pale cream-green at top with stng ser/carb. Qtz vnlt <0.5cm with pyr/(cpy) cores 1-2 mm. Stng blch/ser alt env <2.0 cm. Rock becoming weaker perv chlr/ser altered with depth, ep near bottom with hem on fracts. 1-1.5% py. This was probably a qtz-feldspar porphyry but alteration intensity is too great to be certain.
EOH 157.0 m																	

Northing: 5604000.1		DDH 95-16				Azimuth: 225			
Easting: 641563.6		Elevation: 1735.9 m				Inclination: -60			
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17796	16.5	18.0	0.07	0.05	-	-	-	-	Guichon:
17797	18.0	19.5	0.07	0.05	-	-	-	-	pink speckled
17798	19.5	21.0	0.06	0.04	-	-	-	-	"
17799	21.0	22.5	0.08	0.06	-	-	-	-	"
17800	22.5	24.0	0.08	0.03	-	-	-	-	"
17801	24.0	25.5	0.08	0.03	-	-	-	-	"
17802	25.5	27.0	0.08	0.04	-	-	-	-	"
17803	27.0	28.5	0.07	0.03	-	-	-	-	"
17804	28.5	30.0	0.07	0.02	-	-	-	-	"
17805	30.0	31.5	0.06	0.04	-	-	-	-	"
17806	31.5	33.0	0.08	0.04	-	-	-	-	"
17807	33.0	34.5	0.06	0.04	-	-	-	-	"
17808	34.5	36.0	0.06	0.04	-	-	-	-	"
17809	36.0	37.5	0.06	0.03	-	-	-	-	Guichon:
17810	37.5	39.0	0.05	0.03	-	-	-	-	loc pink speckled
17811	39.0	40.5	0.07	0.03	-	-	-	-	"
17812	40.5	42.0	0.07	0.03	-	-	-	-	Guichon/Bethlehem?
17813	42.0	43.5	0.08	0.03	-	-	-	-	"
17814	43.5	45.0	0.07	0.02	-	-	-	-	"
17815	45.0	46.5	0.07	0.02	-	-	-	-	Guichon/Hybrid?:
17816	46.5	48.0	0.06	0.02	-	-	-	-	pink speckled
17817	48.0	49.5	0.08	0.02	-	-	-	-	Guichon
17818	49.5	51.0	0.10	0.03	-	-	-	-	"
17819	51.0	52.5	0.06	0.02	-	-	-	-	"
17820	52.5	54.0	0.09	0.03	-	-	-	-	"
17821	54.0	55.5	0.10	0.03	-	-	-	-	"
17822	55.5	57.0	0.12	0.05	-	-	-	-	"
17823	57.0	58.5	0.07	0.02	-	-	-	-	"
17824	58.5	60.0	0.06	0.02	-	-	-	-	"
17825	60.0	61.5	0.06	0.02	-	-	-	-	Guichon/Hybrid?
17826	61.5	63.0	0.04	0.01	-	-	-	-	"
17827	63.0	64.5	0.04	0.02	-	-	-	-	"
17828	64.5	66.0	0.04	0.01	-	-	-	-	"
17829	66.0	67.5	0.04	0.02	-	-	-	-	Guichon:
17830	67.5	69.0	0.06	0.04	-	-	-	-	grey/loc pink
17831	69.0	70.5	0.06	0.03	-	-	-	-	speckled
17832	70.5	72.0	0.05	0.04	-	-	-	-	Guichon/Hybrid?
17833	72.0	73.5	0.04	0.03	-	-	-	-	"
17834	73.5	75.0	0.05	0.04	-	-	-	-	"
17835	75.0	76.5	0.04	0.02	-	-	-	-	grey/pink Porphyry
17836	76.5	78.0	0.03	0.01	-	-	-	-	"
17837	78.0	79.5	0.05	0.02	-	-	-	-	"
17838	79.5	81.0	0.06	0.02	-	-	-	-	Porphyry?
17839	81.0	82.5	0.04	0.02	-	-	-	-	fault zone (77.8 m)

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17840	82.5	84.0	0.09	0.03	-	-	-	-	Guichon/Hybrid
17841	84.0	85.5	0.11	0.03	-	-	-	-	"
17842	85.5	87.0	0.12	0.04	-	-	-	-	"
17843	87.0	88.5	0.08	0.06	-	-	-	-	"
17844	88.5	90.0	0.09	0.04	-	-	-	-	"
17845	90.0	91.5	0.09	0.03	-	-	-	-	fault zone
17846	91.5	93.0	0.08	0.02	-	-	-	-	"
17847	93.0	94.5	0.16	0.04	-	-	-	-	"
17848	94.5	96.0	0.08	0.01	-	-	-	-	"
17849	96.0	97.5	0.07	-	0.1	<.01	5	0.001	"
17850	97.5	99.0	0.13	-	0.1	<.01	5	0.003	"
17851	99.0	100.5	0.10	-	0.1	<.01	5	<.001	"
17852	100.5	102.0	0.13	-	0.1	<.01	5	0.005	"
17853	102.0	103.5	0.15	-	0.1	<.01	5	0.003	"
17854	103.5	105.0	0.07	-	0.1	<.01	5	0.001	"
17855	105.0	106.5	0.10	-	0.1	<.01	5	0.036	"
17856	106.5	108.0	0.16	-	0.2	0.01	5	0.004	"
17857	108.0	109.5	0.13	-	0.2	0.01	5	0.001	"
17858	109.5	111.0	0.15	-	0.1	<.01	5	0.001	Guichon
17859	111.0	112.5	0.11	-	0.1	<.01	5	<.001	"
17860	112.5	114.0	0.08	-	0.1	<.01	5	0.001	"
17861	114.0	115.5	0.04	-	0.1	<.01	5	0.001	Guichon/Hybrid
17862	115.5	117.0	0.06	-	0.1	<.01	5	<.001	"
17863	117.0	118.5	0.16	-	0.1	<.01	5	<.001	"
17864	118.5	120.0	0.11	-	0.1	<.01	5	0.002	"
17865	120.0	121.5	0.17	-	0.2	0.01	5	0.011	"
17866	121.5	123.0	0.25	-	0.1	<.01	5	0.003	"
17867	123.0	124.5	0.17	-	0.1	<.01	5	0.001	"
17868	124.5	126.0	0.07	-	0.1	<.01	5	0.001	"
17869	126.0	127.5	0.04	-	0.1	<.01	5	<.001	"
17870	127.5	129.0	0.08	-	0.1	<.01	5	<.001	"
17871	129.0	130.5	0.06	-	0.1	<.01	5	0.002	"
17872	130.5	132.0	0.16	-	0.1	<.01	5	0.002	"
17873	132.0	133.5	0.30	-	3.8	0.11	5	0.198	fault zone
17874	133.5	135.0	0.15	-	6.0	0.18	5	0.264	"
17875	135.0	136.5	0.12	-	4.7	0.14	5	0.243	fault zone
17876	136.5	138.0	0.12	-	0.5	0.02	5	0.011	"
17877	138.0	139.5	0.11	-	0.8	0.02	5	0.035	"
17878	139.5	141.0	0.17	-	2.6	0.08	5	0.080	"
17879	141.0	142.5	0.14	-	0.5	0.02	5	0.025	Guichon?/Hybrid?
17880	142.5	144.0	0.04	-	0.1	<.01	5	0.003	"
17881	144.0	145.5	0.09	-	0.1	<.01	5	<.001	"
17882	145.5	147.0	0.07	-	0.1	<.01	5	0.001	"
17883	147.0	148.5	0.06	-	0.2	0.01	5	0.002	"
17884	148.5	150.0	0.13	-	0.2	0.01	5	0.007	"
17885	150.0	151.5	0.05	-	0.2	0.01	5	0.001	"
17886	151.5	153.0	0.05	-	0.2	0.01	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
17887	153.0	154.5	0.03	-	0.1	<.01	5	0.003	Guichon?/Hybrid?
17888	154.5	156.0	0.03	-	0.1	<.01	5	0.001	"
17889	156.0	157.5	0.03	-	0.2	0.01	5	0.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.											
DDH #	DH95-17	Date	19-Sep	Logged by	VN	Elevation	1710.3 m	Azimuth	045	Northing:	5604032.2	Inclination	-65	Length	260.0 m	Easting:	641619.7				
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							
0-14.3	overburden Guichon and Tert volcanics																				
14.3-14.9	Guichon		bkn/shatt	chl, ser	chrys vnits 1-2 mm	loc grn Cu-stn ser, (Fe)	grn Cu- stn ser Fe, Mn	(Fe)	chl	chl ser	loc chrys	chrys			tr/wk	mod/stng chrys in fracts with loc perv grn Cu-stn ser					
14.9-18.5	Guichon		bkn/shatt loc ckle	chl, ser	chrys vnits 1-2 mm chl healed fracts w/ wk Fe + grn Cu	loc grn Cu-stn ser, (Fe)	grn Cu- stn ser Fe, Mn w/ loc stng Mn	(Fe)	chl	(chl)	loc chrys	chrys			tr/wk	Similar to prev interval with stronger Mn in fracts and slightly stronger perv grn Cu-stn ser and chrys vnits. Ckle at bottom with voids and qtz vn frags.					
18.5-21.6	Guichon, loc pink speckled ckle zone.		bkn/shatt loc crushed loc ckle	chl, ser loc cly		loc grn Cu-stn ser	grn Cu- stn ser Fe, Mn	Fe, loc kaolin?	chl loc ser	chl ser loc cly	(loc chrys)	chrys				Increasing Fe stn on fracts. Loc stng perv ser (kaolin?). Pale grey efflorescence on fracts.					
21.6-25.6	Guichon	loc 25.5 m	bkn/shatt loc crushed loc ckle	chl, ser, loc cly	qtz vn frags chl healed fracts w/ wk Fe + grn Cu	loc grn Cu-stn ser	grn Cu- stn ser Fe, Mn (hem)	Fe, loc kaolin?	chl loc ser loc sil	chl ser loc cly	loc chrys	chrys				Similar to prev interval with loc perv sil and more extensive crush zones.					
25.6-29.1	Guichon/ Hybrid grey/dark grey loc pink speckled loc mafic rich		mod/stng loc ckle/shatt loc comp	chl, ser, (loc cly)	qtz vnits <1.0 cm	loc grn Cu-stn ser	grn Cu- stng ser Fe, Mn		chl loc ser	chl ser (loc cly) sil	loc chrys	chrys			tr	Increasing ser on fracts. Ckle zones with chrys in voids. V fgr crystalline qtz and pale grey efflorescence on some fracts. Mafic rich Guichon					
29.1-32.3	Guichon/ Hybrid? loc mafic rich		stng/ckle loc shatt/ crushed	chl, ser	qtz vns to 1.5 cm, ckle	loc grn Cu-stn ser v loc Fe	Fe grn Cu- stn ser (Mn)		chl loc ser loc kaolin?	chl ser loc sil	(loc chrys)	chrys				Diff dark chl patches usually constrained by intersecting fracts sets. Stng ser/kaolin? where crushed. Mafic rich patches					
32.3-35.7	Guichon/ Hybrid?		ckle/bkn/shatt loc comp	chl, ser	chl healed fracts, qtz vns <4.0 cm ckle w/ voids	grn Cu- stn in bx matrix	Fe, Mn grn Cu- stn ser		chl ser	chl ser	hem w/ maf	chrys			tr/wk	Chl patches and banding with red-purple hem blebs and stn. Early? chl/sil healed 2.0 cm shear/crush zone 33.5m. Margins slightly irregular and streaked, phenos in wall rock slightly deformed. Hem specks in chl.					

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			
35.7-40.0	Guichon/ Hybrid?	-	bkn/shatt loc ckle	chl, ser	chl healed fracts, qtz vns + abd qtz frags <1.0 cm	loc grn Cu-stn ser	Fe, Mn grn Cu stn ser	-	chl ser	chl ser	-	hem w/ maf	chrys	-	-	tr	Diff, dark chl patches, appear to predate qtz vns. Chrys in qtz vns. Loc abd qtz frags where shatt : Stockwork?
40.0-43.0	Guichon/ Hybrid? fault zone	loc 42.1 m	ckle/bkn/shatt loc crushed	chl, ser, loc cly, (carb)	chl healed fracts, qtz vnits + frags <1.0 cm	loc grn Cu stn ser	Fe, Mn grn Cu stn ser	-	chl patchy ser	chl ser loc cly (carb)	-	-	chrys	-	-	-	Mod blich/ser altn below gge with pale, ghost-like phenos. Abd qtz veins and frags 41.5-42.0 m
43.0-47.7	Guichon	-	ckle/bkn/shatt loc comp	chl, ser loc carb	abd chl healed fracts qtz vnits + frags	-	Fe (Mn) (grn Cu- stn ser)	-	chl loc alb?	chl ser loc carb	-	-	(chrys)	-	-	-	45.2-47.5 m texture suggests Bethlehem? Contacts gradational and indistinct. Bethlehem? is intensely fractured and healed (alb?/chl) with abd qtz vnits and chl bands.
47.7-52.0	Guichon fault zone loc mafic rich	loc 50.2 m	bkn/shatt loc crushed	ser, chl, loc cly, loc carb	abd qtz vns & frags 49.4-51.4 m	Fe in gge	(Fe) (grn Cu- stn ser)	-	chl loc stng ser cly in gge	chl ser loc cly loc carb	-	-	(chrys)	-	-	-	Weak grn Cu-stn ser at top and bottom of interval, with trace chrys at bottom. Loc nearly complete, ser altn.
52.0-55.7	Guichon fault zone	loc 54.2 m	stng/ckle loc bkn/shatt	chl, ser, loc cly	irregular qtz vnits & frags <2 cm	Fe in gge	Fe, (Mn) (hem) (grn Cu- stn ser)	loc kaolin	chl ser loc kaolin? loc alb?	chl ser loc cly kaolin? loc alb?	-	-	(chrys)	-	-	-	Diff chl bands <1.0 cm, with weak Fe stn (probably chl healed fracts). Mod/stng perv hydroth alt with loc blich (alb?/ser) zones. Thin section required.*** V stng ser (kaolin?) at top of interval, 52.0-52.3m
55.7-59.6	Guichon	-	ckle/bkn/shatt loc mod set at 30° to C.A.	chl, ser, carb	stkw, qtz vnits <2 cm freq vuggy qtz vn frags	-	red+ grn Cu-stn ser (Fe)(Mn)	loc kaolin	chl ser loc kaolin?	chl ser loc kaolin? loc carb	-	-	(chrys) cup	-	-	tr	First appearance of cup 58.2 m. Shatt with stng ser altn where cup is strongest
59.6-63.5	Guichon	-	stng/ckle loc bkn/shatt	chl, ser, carb	stkw, qtz vnits <2cm freq vuggy/ ckle	-	Fe, (Mn) red+ grn Cu-stn ser, (hem)	-	chl loc ser (loc alb?)	chl ser loc carb	-	-	(chrys) (cup)	-	-	tr/wk	Red stain on fracts suggests cup with hem, increasing with depth. Loc stng blich/ser alt/alb? patches.
63.5-67.8	Guichon grey-green	-	stng/ckle loc dis bx loc bkn	chl, ser, carb	qtz vnits to 1.5 cm, carb vnits < 0.5 cm	-	red Cu- stn ser (Fe)	-	chl ser	chl ser carb	chl	(cup)	cup (chrys)	-	-	-	Tr cup in qtz vns. Patchy cup assoc with mafics Moderate/strong on fracts

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.			
67.8-71.8	Guichon wk fault		bkn/shatt loc crushed loc comp	chlr, ser, kaolin carb	qtz vns and frags		(Fe), loc- red Cu- stn ser	kaolin?	loc kaolin chlr	chlr ser kaolin carb	chlr		(cup) (NCu)	(cpy)		tr	First appearance NCu 68.3 m. Wk cup at top of interval. Cpy with peacock bloom 69.0 m
71.8-73.9	Guichon		bkn/shatt sets at ~ 30° C.A.	chlr, ser kaolin, carb	qtz vnlt < 1 cm		(Fe)(Mn)	loc kaolin?	loc kaolin ser (loc carb) chlr	chlr ser kaolin carb	chlr		(cpy)			tr	Contact at 73.9 m with bkn qtz vn. Cpy with peacock bloom.
73.9-79.1	Bethlehem		wk/mod sets at 0, 25-30, & 90° C.A.	(chlr) ser, loc cly, carb	qtz vns < 4 cm w/alb ckle/vuggy				(ser)	(chlr) ser loc cly carb	chlr		cpy	cpy		tr	Bethlehem, light/medium grey, patchy mafic distribution, quite uniform lithology, generally finer grained than Guichon above. Qtz vns freq with alb? in core and as selv or alt env. Cpy in chlr healed fracts and qtz vnlt. Aplite dykelets < 1 cm. Weak chlr after hbde.
79.1-83.5	Bethlehem		wk/mod, loc bkn, sets at 45, 90° C.A.	ser, chlr, carb	qtz vns 30° C.A., 1.5 cm w/ cpy vuggy				(ser) (chlr) (sil)	ser chlr carb	chlr		cpy			wk	Qtz vnlt with drusy qtz in vugs. Pink patches in qtz vn core suggest Fe-stn plag? Abd cpy with peacock bloom. Weak qtz stockwork.
83.5-86.8	Bethlehem	v loc 84.5 m 0.5 cm at 45° C.A.	mod/stng bkn	ser, (chlr) carb	qtz vnlt <1.0 cm qtz micro stkwk				(carb) (chlr) loc ser	carb (chlr) ser	chlr		cpy	cpy		tr	Cpy vnlt with band of cpy with peacock bloom. (quite purple) 1-2cm, at times diffuse. Mod/slng perv cpy with peacock bloom. Beth shows light to darker colour variations. Inclusion of dark grey porphyry at 83.8 m
86.8-91.0	Bethlehem		mod/bkn	ser, carb, (chlr) kaolin?	qtz vn ckle 2-3 cm qtz stkwk				(chlr) loc ser (carb) loc kaolin? loc Ksp sil	(chlr) ser carb kaolin?	chlr		cpy			wk	Possible K-spar alt on qtz vns. Cpy usually with peacock bloom perv.
91.0-94.9	Bethlehem		wk/mod loc bkn, sets at 20, 60, 90° C.A.	ser, carb, loc kaolin?	carb vnlt 1 cm at 60° C.A. wk qtz stkwk				(chlr) ser (carb) sil	loc kaolin ser carb (chlr)			cpy			tr	Cpy with peacock bloom, slight decrease from prev interval.

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			
94.9-98.5	Bethlehem		shatt, loc comp	ser, carb	qtz vn 2 cm ckle/vuggy wk qtz stkwk				loc cly sil ser loc Ksp (chlr)	ser carb	chlr			cpy mo?	tr	Cpy similar to prev interval. Loc stng ser, alt to wk, kaolin? Should be XRD tested. Some slip on strong sericitized fracts.	
98.5-102.1	Bethlehem, grey/light grey		wk/mod	ser, (chlr) carb, (kaolin?)	qtz vns to 1.5 cm w/ cpy + lr bo wk qtz stkwk				ser (chlr) cly sil	ser (chlr) carb (kaolin?)	chlr?			cpy (cpy) mo		Cpy with mo on fracts. Check for bo perv and in qtz vnits.	
102.1-105.8	Bethlehem, pale grey-grn/ grn, fine grained		mod/stng bkn loc crushed	ser, (chlr) carb, loc kaolin?	qtz vnits + frags, abd carb vnits frags: wk qtz stkwk				(chlr) ser alb? sil	(chlr) ser carb loc				cpy cpy (pyr) mo	wk	Cpy with peacock bloom in fracts. Parallel to subparallel fracts 1-2 cm spacing carrying cpy with peacock bloom. Alb? altered sections require TS. Trace py in qtz vnits.	
105.8-109.0	Bethlehem, pale creamy grey-grn/grey grn; loc Fp-1?		mod/stng bkn sets at 45, 90° C.A., 5-10cm spacing	ser, (chlr) carb, (loc cly)	qtz vns to 2.0 cm w/ cpy + (mo) 50-55° C.A. wk qtz stkwk				(chlr) ser (carb) loc alb? (cly) sil	ser (chlr) carb (loc cly)	chlr			cpy loc cpy mo	tr/wk	Should be XRD tested for cly. Perv cpy with peacock bloom, occasionally patchy. Loc cpy with peacock bloom in fracts. Perv hydrothermal altn increasing blch/ser (alb?) alt sections. TS required for feldspar identification. Phenos becoming ghost-like.	
109.0-112.7	Bethlehem, pale grey creamy grey- green		mod/stng bkn sets at 25° C.A.	ser, (chlr) carb	qtz/chlr vnlt w/ pyr, vuggy				(chlr) ser (carb) sil	carb (chlr) ser		hem w/ mafs		cpy (bo)	cpy mo	Loc blch (some alb, some stng ser alt) zones. Loc K-sp alt env on vnlt. Phenos usually ghost-like. Qtz flooded.	
112.7-116.5	Bethlehem, grey-grn/dark grey-green		mod, loc bkn	ser, (chlr) carb	qtz + carb vnits w/cpy				chlr, ser (carb) loc Ksp sil	ser chlr carb		hem w/ mafs		cpy mo (bo)	wk	mod/stng perv chlr altn, loc stng ser. Pck blm decreasing, patchy. K-sp alt'd zone 114.7m with carb filling voids, blebs of bo assoc with carb. Phenos loc ghost-like. Qtz flooded.	
116.5-119.9	Bethlehem		stng/bkn	ser, (chlr) carb	qtz vnits 1cm, vuggy 1 cm, vuggy w/ cpy wk qtz stockwork				ser (chlr) (chlr) loc Ksp sil (cly)	ser ch (chlr) carb		(hem w/maf w/maf)		cpy	tr	Alternating zones of perv ser and perv chlr. Quite strongly bleached throughout. Locally qtz flooded.	
119.9-123.3	Bethlehem pale grey-grn/loc pink mottled		stng/bkn loc shatt	ser, carb (chlr)	carb/qtz vnits w/cpy and mo vuggy qtz micro stockwork				loc Ksp ser (chlr) sil (cly)	ser carb (chlr)				cpy (chalc) loc mo	wk	Patchy K-sp alt. Should be stained for K-sp. Perv cpy w/ pck blm. Loc blch ser alt sections.	

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			
123.3-127.8	Bethlehem fault zone Fp-1	loc 126.0 m at 25° C.A. > 4cm w/	stng/bkn loc int, loc ckle /dis bx	ser, carb (chlr) chlr healed fracts; wk	carb vnlt chlr healed fracts; wk	-	-	-	loc Ksp (chlr) loc ser (cly)	ser carb (chlr)	-	hem w/maf	-	cpy (cpy)	-	Perv cpy decreasing. Healed? shear zone above gge, banded/streaked, milled clasts. Loc blch (ser/alb?) sections, phenos loc ghost-like. grained than previous interval.	
127.8-131.9	Bethlehem grey/gm-gry Fp-1	-	stng/bkn loc shatt	ser, (chlr) carb	chlr healed fracts w/mo	-	-	-	(chlr) sil loc ser loc Ksp	(chlr) ser carb	-	-	-	cpy (cpy) Loc mo	wk	Increasingly comp with depth. Phenos ghost-like numerous chlr clots.	
131.9-137.1	Bethlehem Porphyry Fp-1	poss loc narrow	loc comp loc bkn/shatt	carb, ser, (cly?)(chlr)	chlr &/or qtz healed to 1 cm	-	-	-	(chlr) loc ser loc Ksp (carb) sil	(chlr) ser (cly) carb	-	-	-	cpy (cpy) loc mo	wk	Fract fillings chlr and or qtz, carb bleached envs K-sp and chlr altn loc. Pervasive carb in loc crowded zone. Qtz veins vuggy.	
137.1-139.5	Bethlehem/ Bethlehem Porphyry Fp-1	loc	mod/stng/shatt loc crushed	loc cly, carb chlr, ser	qtz to 0.5cm variable angles w/ mo & cpy	-	-	-	(chlr) ser inc w/depth (wk carb w/dpth) (cly)	carb (cly) ser (chlr)	-	(diss hem)	-	cpy cpy loc mo	wk	Shows variations in chlorite and ser altn intensity.	
139.5-143.5	Bethlehem/ Bethlehem Porphyry Fp-1 (crushed zone) approaching Guichon	loc	crushed zone loc comp zones	loc cly, ser carb, chlr	qtz as frags to 1 cm	-	-	-	(carb) ser (chlr) (sil) cly	carb ser (chlr) (cly) loc Ksp	-	(diss hem)	-	cpy (loc mo)	cpy loc mo	wk	Crushed zone with pseudo textures of Guichon 143.2-143.5 m, resulting from perv ser speckled chlr all/or coming into Guichon contact.
143.5-147.5	Bethlehem Porphyry Fp-1	loc thin	bkn/shatt loc crushed/ sheared	loc cly, ser, carb, (chlr)	qtz short stkwk int 145.4- 146.2 m	-	-	-	chlr ser sil (cly)	(chlr) ser loc cly carb	-	-	-	(diss mo) cpy	(mo) cpy	tr/wk	Chlr healed slip surfaces, with mo and cpy. Qtz margins with K-sp altn envelopes. Local Guichon pseudo-textures?
147.5-151.6	Bethlehem Porphyry Fp-1	loc thin	mod/bkn/loc shatt/crushed	(chlr), ser carb, loc cly	qtz 2.5 cm at 40° C.A. several w/ mo & cpy qtz stkwk	-	-	-	chlr ser (carb) loc patchy K-spar sil (cly)	(chlr) ser loc cly carb	-	(hem)	-	cpy mo cpy	mo cpy	tr/wk	Probable altered Bethlehem porphyry. 147.5- 149.5 m. With strong altered Guichon? or Fp-1 to bottom of interval, with increasing 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			
151.6-155.7	Qtz-felds porphyry Fp-1 variation?	loc very thin on slip surfaces	wk/mod, loc shear/ crushed	ser, (chl) carb, loc cly	qtz to 1 cm some w/ MoS ₂ ; at 40° C.A. carb fract	-	-	-	ser chl (carb) v loc Ksp/alb	ser chl carb loc cly	-	-	-	cpy	(cpy) mo	tr/wk		Altered qtz-fsp porphyry strong perv patches ser & chl altn. Loc K-sp or Fe stained alb. Abd qtz vnlt & frags. 155.5-155.7 m. Dis loc bx, milled, healed by ? [Sample taken for polished thin section] Possible Fp-1 variant?
155.7-159.3	Qtz-felds porphyry Fp-1 variation? (wk fault zone)	loc v thin abd slip surfaces cpy	bkn/shatt loc comp	chl, ser, carb loc cly	few qtz v bkn, slightly vuggy w/ MoS ₂	-	-	-	chl, ser (carb) loc Ksp /alb	chl ser cly carb	-	-	-	cpy	cpy mo	tr/wk		155.7-156.1m Dis loc bx, milled healed by very fine medium/dark grey matrix possibly porphyritic unit??
159.3-162.5	Qtz-felds porphyry Fp-1 variation? or Guichon? (wk fault zone)	160.5 m thin at 90° C.A.	bkn/shatt loc comp	(chl), ser loc cly, carb	few qtz to 1cm, 50/60° C.A. w/MoS ₂ (cpy)	-	-	-	chl ser (carb) loc Ksp	chl ser cly carb	-	hem	-	cpy	cpy mo	tr		Noted interval with fresh blk bio in otherwise strong altered qtz-feldspar crowded porphyry or Guichon Q.D. - not sure which.
162.5-166.4	Guichon (wk fault zone)	162.8 m ~ 10 cm w/ qtz vn frags at 40° C.A.	mod loc bkn/shatt loc comp	(chl), ser carb, loc cly	qtz to 1cm at 60° C.A. commonly w/mo (cpy)	-	-	-	chl ser (carb) loc Ksp	chl ser loc cly carb	-	(hem)	-	cpy	(cpy) mo	tr/wk		Noted hem stained chl clot. Local strong chloritic segregations.
166.4-170.3	Guichon Fault zone w/ Fp-1/qtz-feldspar porphyry dyke	loc 20 cm 170.0 m	mod/stng loc shatt/ crushed	ser, chl loc cly, carb	qtz vnlt <0.5 cm 40-50° C.A. w/mo, cpy vuggy	-	-	-	chl ser loc - carb loc Ksp	ser carb loc cly chl	-	(diss hem)	-	cpy	cpy (mo)	tr/wk		Perv K-sp or hem stained alb/ser? alt 168.0-169.5 m. Qtz/chl healed fracts 60-70° C.A. 5-10 cm spacing. Otherwise patchy strong ser/ chl alteration masks original texture. Sample for PTS taken at 168.5 m
170.3-174.8	Guichon	-	wk/mod	ser, (chl) carb, (loc cly)	carb 3.0 cm at 30° C.A.	-	-	-	chl ser	ser chl carb (loc cly)	-	-	-	cpy (pyr)	cpy (mo?)	tr/wk		Loc fresh (secondary) biotite?? PTS 171.4 m. Aplite with cpy cut by altn in fracts with coarser texture, 5.0 cm at 20° C.A. Variation in chl/ser intensity. Original rock textures are generally visible.
174.8-177.3	Qtz-feldspar porphyry fault zone	loc variable 1-10 cm	mod/stng bkn loc crushed/ sheared	ser, (chl) loc cly, carb	qtz vnlt w/ carb cores <0.5 cm 5-10° C.A. wk qtz stkwk	-	-	-	chl ser patchy K-sp (carb)	ser chl loc cly carb	-	-	-	cpy	cpy (mo)	wk		Cpy and mo on qtz vnlt margins. Very fine grained cpy dissf. Loc jar on qtz vn margins. Variable chl/ser alteration intensity. Original rock textures masked by alteration. Closely spaced fracts (1-2 cm) with altn env produce loc blch zones.
177.3-181.6	Qtz-feldspar porphyry	loc thin	mod/stng bkn, loc crushed/shear surface	ser, chl, carb loc cly	qtz vnlt/ frags, varia- variable w/ py, qtz microstkwk	(loc hem)	-	-	ser (chl) sil (cly)	ser carb loc cly	-	-	-	cpy	(mo)	-		Slip surfaces in crushed zones. Chl, f gr sulphides Loc speckled hem stn ser. Increasing perv hydroth altn, loc complete ser altn. Cpy decreasing Loc diss mo at bottom of interval. Qtz flooded

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
181.6-185.5	Qtz-feldspar Porphyry wk fault zone	loc, thin on slip surf- aces	stng/bkn/shatt loc crushed	chlrl, ser carb, loc cly	carb vnlt w/cpy + (mo), qtz stkwk	loc hem	loc hem	-	(chlrl) ser sil (cly)	ser carb loc cly	-	-	cpy (pyr)	pyr (cpy)	-	Original fabric masked by variable stng perv chlrl/ser altn. Loc has v fine comp ser/chlrl altered suggesting altered porphyries? Loc hem stng and ground sulphides on slip surfaces. Qtz flooded		
185.5-189.7	Qtz-feldspar Porphyry cut loc by int alt Porphyry fault zone	loc 2-5 cm at 50° C.A. w/crushed qtz frags.	stng/bkn, loc shatt/crushed	chlrl, ser, carb loc cly	qtz vnlt w/cpy; qtz micro- stkwk	-	-	-	(chlrl) ser ser loc carb cly sil	ser carb loc cly	-	-	cpy (pyr)	mo cpy	-	Chlrl/ser alt'd aplite dyke 185.5-186.0 m 5-10° C.A., > 5.0 cm, with patchy green/pale creamy-green colour, probably bx and healed. Specimen taken for PTS 185.6 m. Patchy stng ser altn gives loc blich appearance. Intense altered porph?		
189.7-193.6	Qtz-feldspar Porphyry fault zone original texture obscured	loc thin w/ crushed zones	ckle/dis bx loc crushed	chlrl, ser, (carb), cly	qtz frags in crush zones qtz healed fracts w/ cpy/(pyr)	-	-	-	ser cly sil	ser (carb) cly	-	-	cpy cpy mo pyr	-	Pyrr in crush zones and fracts. Generally strong perv ser (loc complete) with patchy stng chlrl gives loc mottled appearance. Largely obliterated, original textures strong cpy on some fracts. Qtz flooded			
193.6-197.5	Qtz-feldspar Porphyry Bethlehem wk fault zone original texture obscured	-	stng/bkn/shatt loc crushed	ser, chlrl, loc cly	qtz frags in crush zones & healed bx	-	-	-	sil (chlrl) ser loc cly	ser (chlrl) cly	-	-	(py) (cpy)	pyr cpy	-	Specimen taken for PTS 195.8 m. Local healed (sil?) dis bx separated by stng chlrl altered Porphyry. Sudden strong appearance of pyr dissp and disff. Stng cpy on some fracts. 1% py		
197.5-201.7	Bethlehem	v loc in crush zones	wk/mod loc crushed/milled	ser, chlrl, carb loc cly	abd qtz & pyr vnlt 1-2 mm	-	-	-	(chlrl) ser sil cly	(chlrl) ser	-	-	(py) (cpy)	pyr	-	Short section at bottom may be Beth 201.5-201.7 m. Possible porph dykelet 199.4 m ~ 7.0 cm hem stn. Note textural similarity to 75 m		
201.7-206.4	Bethlehem patchy grey- green/green Suggestion of Guichon remnants	-	wk/mod, loc bkn/crushed sets at 0-10 30, 60° C.A.	ser, chlrl, carb	abd qtz/pyr vnlt 1-2 mm wk qtz microstkwk	-	-	-	(chlrl) ser sil (cly)	ser (chlrl) carb	-	-	(cpy) (py)	pyr	tr	Slight decrease in pyr. Loc dark grn-black coating on fracts-chlrl? and fgr sulphides (crushed?). Abd veinlets w/ blich (wk ser) alt env <1 cm, usually with pyr. Stng perv chlrl alt w/ variable mod/loc stng ser. Suggestion of Guichon remnants. 0.5% py.		
206.4-210.9	Bethlehem mottled pale grn-yellow/ grn-grey/grn	loc 209.3- 209.8 m at 5-10° C.A. 3-4 cm	wk/mod loc bkn/crushed sets at 50, 60° C.A.	ser, carb	qtz/pyr vnlt ~ 1 mm 0-10° C.A.	loc hem	-	-	(chlrl) ser sil (cly)	ser carb sil	-	-	(cpy) (py)	pyr	tr	Aplite dykelet 4 cm at 40° C.A. 207.1 m with chlrl alt with loc mod/stng ser in gge zone. Numerous vnlt healed fracts, especially at 0-10° C.A., with bleached (qtz/alb?/wk ser) alt env 1-2 cm and pyr. 1-1.5% py.		
210.9-215.1	Bethlehem mottled pale yellow-grn/ pale grey-grn	v loc, thin 212.7m at 20° C.A.	wk/mod, loc bkn/crushed suggestion of brecciation w/ Guichon remnants	ser, carb (loc chlrl)	micro stkwk abd qtz vnlt w/py	-	-	-	(chlrl) ser (carb) loc Ksp (cly) sil	ser carb (loc chlrl) sil	-	-	(py)	pyr	tr/wk	Loc dark green black coating on slip surfaces - chlrl and fgr sulphides (crushed?). Abd healed fracts with blich (qtz/alb?/wk ser) at env <2.0 cm give loc perv blich appearance. Possible wk perv K-sp altn at bottom of interval. Py ~ 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.				
215.1-219.1	Bethlehem appearance similar to previous int	loc 216.9 m	mod/stng loc crushed/ milled	ser, carb (loc chlr) loc cly	wk qtz stkww qtz/pyr vnlt	-	-	-	(chlr) ser sil (carb) loc cly	ser carb (loc chlr) loc cly	-	-	(py) pyr mo?	tr		Crushed/milled zone 215.9-217.4 m with diss pyr, shear angle ~ 40° C.A. Possible wk, fgr mo on fract. Py ~ 0.5%	
219.1-223.7	Bethlehem fault zone	variable 0-10° C.A. 2-4 cm for most of int	shatt/crushed loc mod	ser, carb (loc chlr) loc cly	wk qtz stkww qtz/pyr vnlt	-	-	-	(chlr) ser carb cly (carb) sil loc cly	ser carb (loc chlr) loc cly	-	-	(py) cpy? pyr mo?	tr		Dark green-black coating on most slip surfaces--- chlr and fgr (crushed?) sulphides. Loc stng pyr in fract. Intensely altered and bleached. Py 0.5-1%.	
223.7-229.6	Bethlehem wk fault zone	loc thin	mod/stng, loc shatt/crushed	ser, carb (loc chlr)	qtz vnlt w/py 0.5-1 mm	hem stn phenos	-	-	(chlr) ser carb (loc chlr) sil	ser carb (loc chlr)	-	-	(cpy) pyr (py)	tr		Unusual hem stn phenocrysts (mafics) through most of interval, (red-stn phenos in pale grndmass) Strongly siliceous, qtz flooded.	
229.6-233.1	Bethlehem	-	wk/mod, loc bkn/crushed	ser, carb (chlr)	qtz vnlt w/py 0.5-1 mm at 30° C.A.	loc hem stn phenos	-	-	(chlr) ser carb ser sil	ser carb (chlr)	-	-	(py) cpy) pyr (cpy) pyr	tr		Top 70 cm crushed/bkn. Increasing altn on fract. Qtz flooded, qtz and py veinlets; weak qtz micro stockwork.	
233.1-237.0	Bethlehem w/ grey crowded Porph incursions	loc thin	wk/mod	ser, carb (chlr)	carb vnlt 30° C.A. <2.0 cm abd qtz/py vnlt 0.5-2 mm	loc hem stn phenos	-	-	(carb) ser carb (loc chlr) sil (cly)	ser carb (chlr)	-	-	(pyr) cpy) pyr (mo?)	tr		Fine-grn pale-grey? 234.8-236.4 m with slip surfaces above and below. Interval may be slightly albitized. Specimen taken 235.7m for PTS. Wk perv mo? in fgr section. Py 1.5% Qtz flooded.	
237.0-240.9	Bethlehem	loc thin on slip surfaces	stng/bkn loc crushed	ser, (chlr) carb, loc cly	qtz ± pyr vnlt qtz microstkww	(loc hem)	-	-	(carb) ser loc chlr ser sil (cly)	ser carb (chlr) loc cly	-	-	(cpy) pyr (py)	tr		Increasing chlr altn with depth. Shear/crush zone 3 cm at 60° C.A. 240.3 m with black stain: chlr and crushed sulphides? Py 1-1.5%	
240.9-244.2	Guichon or Fp-1 remnants w/minor Beth. Pink speckled fault zone	loc 241.4 m 2-3 cm	mod/stng bkn loc fault bx	ser, chlr, carb loc cly	qtz ± pyr vnlt qtz microstkww	(loc hem)	-	-	carb in gge, chlr patchy ser	ser carb loc cly chlr	-	-	(py) cpy) pyr	loc mod		Loc hem stn phenos. Loc dark green/black-green stng chlr altn. Similar mafic distribution as Guichon/ Hybrid but coarserfeldspars, interstitial K-spar.	
244.2-247.8	Fp-1 pink speckled wk fault zone	loc thin 245.6m	wk/mod loc bkn/crushed	ser, (chlr) (loc cly), carb	healed fract w/pyr &(mo) sets at 20- 30, 90° C.A.	(loc hem)	-	-	ser (chlr) carb	ser chlr carb (loc cly)	-	-	(py) cpy) pyr mo pyr	wk		Healed fract with bich (qtz/wk ser/alb?) alt env <2.0 cm. Loc sing mo on fract with pyr. Intermixed Guichon and Fp-1 (crowded feldspar porphyry)	

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
247.8-251.1	Fp-1 pink speckled	loc thin 248.3 m at 10° C.A. w/(cpy)	stng/bkn loc crushed	ser, (chlr) (loc cly), carb	num healed fracts w/ pyr	(loc hem)	-	-	(carb) patchy ser (chlr)	ser (chlr) carb loc cly	-	-	(pyr)	(cpy) (mo) pyr	wk	Healed fracts as above. Patchy/mottled hem stn (in env) around fracts. Becoming increasingly porphyritic. Gradational contact.		
251.1-255.0	Fp-1 pink speckled poss incur- sions of Beth	-	mod/stng bkn stng sets at 30-40° C.A.	ser, (chlr) carb	num healed fracts w/ pyr carb vnlit w/ cpy at 30° C.A.	wk loc hem	-	-	(carb) ser (patchy chlr)	ser chlr carb loc ep	-	-	tr cpy (pyr)	pyr (cpy) mo?	wk/ mod	Significant decrease in perv pyr. Qtz content increasing		
255.0-258.0	Fp-1 pink speckled	-	mod/stng bkn, loc ckle	ser, (chlr) carb	wk healed fracts w/ pyr	-	-	(ser) (chlr)	carb ser chlr	chlr?	-	-	(pyr) (cpy)	pyr (cpy)	mod	Perv hydroth alt decreasing. Pyr 0.5-1%		
258.0-260.0	Beth/Guichon crowded pink speckled	-	wk/mod bkn	(chlr), ser carb	wk healed fracts w/ cpy	-	(loc hem)	(ser) (chlr)	carb loc ep ser chlr	-	-	-	(pyr)	pyr (cpy)	mod	Increasingly porphyritic; still in gradational contact zone; probably feldspar porphyry contaminated by Guichon.		
EOH 260.0 m																		

Northing: 5604032.2			DDH 95-17				Azimuth: 045		
Easting: 641619.7			Elevation: 1710.3 m				Inclination: -65		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
17890	14.3	15.8	0.76	0.74	-	-	-	-	Guichon
17891	15.8	17.3	0.79	0.74	-	-	-	-	"
17892	17.3	18.8	1.00	0.98	-	-	-	-	"
17893	18.8	20.3	0.40	0.32	-	-	-	-	"
17894	20.3	21.8	0.60	0.58	-	-	-	-	"
17895	21.8	23.3	0.45	0.39	-	-	-	-	"
17896	23.3	24.8	0.22	0.15	-	-	-	-	"
17897	24.8	26.3	0.46	0.37	-	-	-	-	Guichon/Hybrid
17898	26.3	27.8	0.41	0.37	-	-	-	-	"
17899	27.8	29.3	0.50	0.45	-	-	-	-	Guichon/Hybrid?
17900	29.3	30.8	0.34	0.24	-	-	-	-	"
17901	30.8	32.3	0.45	0.37	-	-	-	-	"
17902	32.3	33.8	0.30	0.21	-	-	-	-	"
17903	33.8	35.3	0.43	0.36	-	-	-	-	"
17904	35.3	36.8	0.40	0.32	-	-	-	-	"
17905	36.8	38.3	0.32	0.19	-	-	-	-	"
17906	38.3	39.8	0.41	0.15	-	-	-	-	"
17907	39.8	41.3	0.45	0.21	-	-	-	-	"
17908	41.3	42.8	0.53	0.38	-	-	-	-	"
17909	42.8	44.3	0.30	0.11	-	-	-	-	Guichon
17910	44.3	45.8	0.42	0.15	-	-	-	-	"
17911	45.8	47.3	0.30	0.20	-	-	-	-	"
17912	47.3	48.8	0.32	0.23	-	-	-	-	"
17913	48.8	50.3	0.24	0.19	-	-	-	-	fault zone (50.2 m)
17914	50.3	51.8	0.23	0.11	-	-	-	-	"
17915	51.8	53.3	0.25	0.15	-	-	-	-	"
17916	53.3	54.8	0.32	0.25	-	-	-	-	"
17917	54.8	56.3	0.39	0.35	-	-	-	-	"
17918	56.3	57.8	0.29	0.22	-	-	-	-	"
17919	57.8	59.3	0.31	0.14	-	-	-	-	"
17920	59.3	60.8	0.32	0.23	-	-	-	-	"
17921	60.8	62.3	0.33	0.19	-	-	-	-	"
17922	62.3	63.8	0.52	0.24	-	-	-	-	"
17923	63.8	65.3	0.36	0.17	-	-	-	-	"
17924	65.3	66.8	0.21	0.11	-	-	-	-	"
17925	66.8	68.3	0.38	0.11	-	-	-	-	wk fault
17926	68.3	69.8	0.59	0.03	-	-	-	-	"
17927	69.8	71.3	0.58	-	1.6	0.05	5	<.001	"
17928	71.3	72.8	0.57	-	1.9	0.06	15	0.001	"
17929	72.8	74.3	0.71	-	2.4	0.07	15	<.001	Guichon/Bethlehem:
17930	74.3	75.8	0.46	-	1.3	0.04	5	0.001	contact at 73.9 m
17931	75.8	77.3	0.30	-	1.1	0.03	10	0.001	Bethlehem
17932	77.3	78.8	0.32	-	1.0	0.03	5	0.020	"
17933	78.8	80.3	0.47	-	1.6	0.05	5	0.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
17934	80.3	81.8	0.57	-	2.4	0.07	5	0.001	"
17935	81.8	83.3	0.44	-	1.4	0.04	10	0.003	"
17936	83.3	84.8	0.91	-	2.3	0.07	5	0.005	"
17937	84.8	86.3	0.53	-	1.2	0.04	5	<.001	"
17938	86.3	87.8	0.52	-	1.6	0.05	10	0.004	"
17939	87.8	89.3	0.40	-	0.9	0.03	5	0.001	"
17940	89.3	90.8	0.40	-	0.9	0.03	5	<.001	"
17941	90.8	92.3	0.46	-	1.3	0.04	5	<.001	"
17942	92.3	93.8	0.35	-	0.4	0.01	5	0.004	"
17943	93.8	95.3	0.43	-	1.2	0.04	15	0.001	"
17944	95.3	96.8	0.48	-	1.1	0.03	15	0.001	"
17945	96.8	98.3	0.46	-	1.5	0.04	20	0.002	"
17946	98.3	99.8	0.51	-	1.2	0.04	5	<.001	"
17947	99.8	101.3	0.48	-	0.7	0.02	5	0.009	"
17948	101.3	102.8	0.52	-	1.6	0.05	10	<.001	"
17949	102.8	104.3	0.31	-	0.6	0.02	5	0.001	"
17950	104.3	105.8	0.35	-	0.8	0.02	5	0.002	"
19001	105.8	107.3	0.49	-	1.2	0.04	10	0.001	"
19002	107.3	108.8	0.71	-	1.5	0.04	25	0.001	"
19003	108.8	110.3	0.31	-	0.6	0.02	10	0.003	"
19004	110.3	111.8	0.21	-	0.1	<.01	5	0.010	"
19005	111.8	113.3	0.21	-	0.4	0.01	5	0.005	"
19006	113.3	114.8	0.26	-	0.8	0.02	10	0.004	"
19007	114.8	116.3	0.24	-	0.7	0.02	5	0.006	"
19008	116.3	117.8	0.27	-	0.8	0.02	5	0.012	"
19009	117.8	119.3	0.22	-	0.6	0.02	5	0.001	"
19010	119.3	120.8	0.52	-	1.3	0.04	5	0.017	"
19011	120.8	122.3	0.27	-	0.2	0.01	5	0.003	"
19012	122.3	123.8	0.25	-	0.1	<.01	5	0.003	fault zone
19013	123.8	125.3	0.48	-	2.0	0.06	5	0.007	126.0 m
19014	125.3	126.8	0.25	-	0.6	0.02	5	0.011	"
19015	126.8	128.3	0.25	-	0.5	0.02	5	0.003	"
19016	128.3	129.8	0.12	-	0.1	<.01	5	0.002	"
19017	129.8	131.3	0.19	-	0.2	0.01	5	0.006	"
19018	131.3	132.8	0.14	-	0.1	<.01	5	0.002	Bethlehem/Porphyry
19019	132.8	134.3	0.13	-	0.1	<.01	5	0.004	"
19020	134.3	135.8	0.14	-	0.1	<.01	5	0.002	"
19021	135.8	137.3	0.18	-	0.2	0.01	5	0.003	"
19022	137.3	138.8	0.17	-	0.1	<.01	5	0.013	Bethlehem/
19023	138.8	140.3	0.24	-	0.2	0.01	5	0.007	Bethlehem/Porphyry
19024	140.3	141.8	0.14	-	0.2	0.01	5	0.002	(crushed zone)
19025	141.8	143.3	0.11	-	0.2	0.01	5	0.002	"
19026	143.3	144.8	0.24	-	0.1	<.01	5	0.030	Guichon: cut loc
19027	144.8	146.3	0.25	-	0.2	0.01	5	0.005	by Bethlehem/
19028	146.3	147.8	0.35	-	0.1	<.01	5	0.006	Porphyry
19029	147.8	149.3	0.20	-	0.1	<.01	5	0.003	Guichon/Hybrid:
19030	149.3	150.8	0.28	-	0.1	<.01	5	0.011	cut loc by Beth/Porph?

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
19031	150.8	152.3	0.45	-	0.1	<.01	5	0.055	Guichon/Hybrid:
19032	152.3	153.8	0.44	-	0.1	<.01	5	0.030	cut loc by Beth/Porph?
19033	153.8	155.3	0.74	-	0.2	0.01	5	0.006	masked by alteration
19034	155.3	156.8	1.19	-	0.5	0.02	5	0.022	Guichon Hybrid:
19035	156.8	158.3	0.99	-	0.5	0.02	5	0.017	"
19036	158.3	159.8	1.01	-	0.7	0.02	5	0.042	weak fault zone
19037	159.8	161.3	0.53	-	0.1	<.01	5	0.010	"
19038	161.3	162.8	0.72	-	0.3	0.01	5	0.011	"
19039	162.8	164.3	0.48	-	0.1	<.01	5	0.003	weak fault zone
19040	164.3	165.8	0.47	-	0.1	<.01	5	0.021	"
19041	165.8	167.3	0.60	-	0.2	0.01	5	0.025	fault zone (170.0 m)
19042	167.3	168.8	0.48	-	0.1	<.01	5	0.004	"
19043	168.8	170.3	0.36	-	0.2	0.01	5	0.005	"
19044	170.3	171.8	0.55	-	0.2	0.01	5	0.010	"
19045	171.8	173.3	0.63	-	0.2	0.01	5	0.004	"
19046	173.3	174.8	0.49	-	0.1	<.01	5	0.004	fault zone
19047	174.8	176.3	0.43	-	0.1	<.01	5	0.008	"
19048	176.3	177.8	0.75	-	0.2	0.01	5	0.017	"
19049	177.8	179.3	0.38	-	0.1	<.01	5	0.007	"
19050	179.3	180.8	0.36	-	0.1	<.01	5	0.024	"
19051	180.8	182.3	0.55	-	0.3	0.01	5	0.011	Guichon?/Hyb?/
19052	182.3	183.8	0.58	-	0.1	<.01	5	0.010	Porphyry?:
19053	183.8	185.3	0.50	-	0.1	<.01	5	0.005	wk fault zone
19054	185.3	186.8	0.40	-	0.1	<.01	5	0.006	Guichon?/Hyb?:
19055	186.8	188.3	0.46	-	0.1	<.01	5	0.007	cut by int alt Porph?
19056	188.3	189.8	0.40	-	0.1	<.01	5	0.007	fault zone
19057	189.8	191.3	0.48	-	0.1	<.01	5	0.004	"
19058	191.3	192.8	0.36	-	0.1	<.01	5	0.004	"
19059	192.8	194.3	0.40	-	0.1	<.01	5	0.004	"
19060	194.3	195.8	0.35	-	0.1	<.01	5	0.002	"
19061	195.8	197.3	0.16	-	0.1	<.01	5	0.002	"
19062	197.3	198.8	0.24	-	0.1	<.01	5	0.005	Bethlehem:
19063	198.8	200.3	0.13	-	0.1	<.01	5	<.001	"
19064	200.3	201.8	0.11	-	0.1	<.01	5	0.005	"
19065	201.8	203.3	0.12	-	0.1	<.01	5	<.001	(suggestion of
19066	203.3	204.8	0.09	-	0.1	<.01	5	<.001	Guichon remnants)
19067	204.8	206.3	0.12	-	0.1	<.01	5	<.001	Bethlehem:
19068	206.3	207.8	0.03	-	0.1	<.01	5	<.001	"
19069	207.8	209.3	0.04	-	0.1	<.01	5	<.001	"
19070	209.3	210.8	0.05	-	0.2	0.01	5	0.012	"
19071	210.8	212.3	0.05	-	0.2	0.01	5	0.001	"
19072	212.3	213.8	0.07	-	0.1	<.01	5	0.001	"
19073	213.8	215.3	0.10	-	0.1	<.01	5	0.001	"
19074	215.3	216.8	0.05	-	0.2	0.01	5	0.001	"
19075	216.8	218.3	0.11	-	0.1	<.01	5	0.001	"
19076	218.3	219.8	0.09	-	0.2	0.01	5	<.001	"
19077	219.8	221.3	0.07	-	0.6	0.02	5	0.032	fault zone

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
19078	221.3	222.8	0.05	-	0.1	<.01	5	<.001	Bethlehem:
19079	222.8	224.3	0.05	-	0.2	0.01	5	0.002	wk fault zone
19080	224.3	225.8	0.05	-	0.2	0.01	5	0.003	"
19081	225.8	227.3	0.05	-	0.1	<.01	5	<.001	"
19082	227.3	228.8	0.05	-	0.1	<.01	5	<.001	"
19083	228.8	230.3	0.04	-	0.1	<.01	5	<.001	"
19084	230.3	231.8	0.04	-	0.1	<.01	5	0.001	"
19085	231.8	233.3	0.06	-	0.1	<.01	5	0.001	"
19086	233.3	234.8	0.08	-	0.1	<.01	5	<.001	Bethlehem: w/
19087	234.8	236.3	0.07	-	0.1	<.01	5	0.003	crowded Porphyry
19088	236.3	237.8	0.11	-	0.1	<.01	5	0.001	incursions
19089	237.8	239.3	0.06	-	0.1	<.01	5	0.002	"
19090	239.3	240.8	0.08	-	0.2	0.01	5	0.013	"
19091	240.8	242.3	0.18	-	0.1	<.01	5	0.002	Guichon remnants
19092	242.3	243.8	0.04	-	0.1	<.01	5	<.001	w/minor Bethlehem
19093	243.8	245.3	0.04	-	0.1	<.01	5	0.007	fault zone (241.4 m)
19094	245.3	246.8	0.06	-	0.1	<.01	5	<.001	Guichon:
19095	246.8	248.3	0.09	-	0.1	<.01	5	0.008	wk fault zone
19096	248.3	249.8	0.07	-	0.1	<.01	5	0.003	"
19097	249.8	251.3	0.04	-	0.1	<.01	5	<.001	"
19098	251.3	252.8	0.04	-	0.1	<.01	5	<.001	Guichon/Hybrid:
19099	252.8	254.3	0.10	-	0.1	<.01	5	0.001	w/possible incursions
19100	254.3	255.8	0.03	-	0.1	<.01	5	<.001	of Bethlehem
19101	255.8	257.3	0.06	-	0.1	<.01	5	0.001	Bethlehem/Guichon
19102	257.3	260.0	0.05	-	0.1	<.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT													Gower Thompson & Associates Ltd.				
DDH #	DH95-18	Date:	22-Sep									Logged by:	VN				
Elevation:	1712.1 m	Azimuth:	045									Northing:	5603977.2				
Inclination:	-65	Length:	331.6 m									Easting:	641592.2				
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.			
0-6.7	overburden																
6.7-11.8	Guichon	-	stng/bkn	ser, chl	-	loc Fe	Fe:hem, jar, goe?	Fe_ser loc kaolin	-	-	(hem w/maf)	-	cpy? pyr?	-	tr	Fe-stn env <2.0 cm on fracts.	
11.8-14.8	Guichon/Hyb	-	stng/bkn, loc shatt/crushed	ser, chl	-	loc Fe	Fe:hem, jar, goe?	Fe_ser loc kaolin	-	-	as abv	-	loc pyr	pyr	tr	Partially assimilated mafic xenolith with (NCu).	
14.8-19.3	Guichon	-	mod/stng, loc ckle, sets at 30, 40, 50, 60° C.A.	ser, chl	carb at 30° <0.5 cm, abd fracts w/pyr & v stng Fe	loc Fe	Fe(stng):hem, jar goe?	Fe_ser loc kaolin	chl (ser)	chl ser	as abv	-	pyr	pyr	tr/wk	Pyr in fracts and as vnlt 1-2 mm with v stng Fe stain/coating, Fe-stn alt env 1-2 cm. Mag increasing with depth.	
19.3-23.3	Guichon	-	mod/stng bkn, loc shatt	ser, chl, kaolin, loc carb	abd fracts w/(pyr) & v stng Fe	loc Fe	Fe(stng):hem, jar goe?	Fe_ser loc kaolin	loc ser chl	ser chl kaolin loc - carb	as abv	-	pyr	-	-	Increase in perv ser/kaolin over prev interval.	
23.3-27.4	Guichon	-	stgn/ckle, loc shatt	ser, chl, carb, kaolin?	as abv	loc Fe	Fe(stng):hem, jar goe?	Fe_ser loc kaolin	loc ser chl	ser chl carb kaolin?	-	(NCu)	-	(pyr)	tr	V fgr NCu (***1 specimen NCu tetrahedron isometric crystal!!!! taken 25.5m) in ser on fracts!!!!	
27.4-31.8	Guichon	loc thin 29.2m	mod/stng loc bkn sets at 20, 30, 60, 70° C.A.	ser, chl, carb, loc kaolin	abd fracts w/ (loc pyr) & stng Fe	loc Fe	v Fe: jar hem	Fe, loc kaolin	chl ser (loc cly?)	ser chl loc kaolin	-	(NCu)	-	(pyr)	-	V fgr crystalline NCu in ser on fracts****. Seems to occur <u>only</u> in ser coatings on fracts, rarely dendritic, usually crystalline. Loc stng/complete ser/kaolin altn	
31.8-35.6	Guichon	loc 32.7m ~10 cm at 30° C.A.	mod/stng bkn, loc shatt/ckle sets at 20, 90° C.A.	ser, chl, carb	num healed fracts w/ pyr & Fe stn	loc Fe in gge	Fe:hem, jar	-	chl loc ser	ser chl carb	-	-	-	pyr	loc wk	Increasingly comp. with less Fe stng perv and in fracts with depth.	
35.6-39.5	Guichon	-	wk/mod sets at 20,30,60 and 90° C.A.	ser, chl, carb	as abv, carb vnlt at 35° <0.5 cm	-	Fe:hem	-	loc ep (ser) chl	ser carb loc ep chl	-	-	(pyr)	pyr	mod	Chlr patches and banding, often with ep. Fe on fracts decreasing. Increasingly comp.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	Guichon (Hybrid)		FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
39.5-43.9	Guichon (Hybrid)		wk, sets at 30, 60° C.A.	ser, chlr, carb	num chlr head'd fracts w/pyr & Fe- stn		Fe: jar hem		loc ep (ser) chl chl	ser chl carb	chl	(hem w/maf)		(pyr)	pyr	wk	Partially assimilated mafic xenolith with hem in maf.	
43.9-47.4	Guichon	loc thin 46.6 m, 30° C.A.	wk/mod, loc bkn, sets at 30, 60, 70° C.A.	ser, chl, loc carb	as abv at 20-30° C.A.	loc Fe: hem spots	Fe: jar		loc ep ser chl	ser chl loc - carb	chl	as abv	loc NCu	pyr	pyr	wk	Loc diff chl patches and bands freq with ep and hem spots. NCu occurs above and below thin ggs where conc of hem spots is greatest!!!!***** NCu appears blocky with peacock bloom. Pseudomorphous after ____??? Specimen taken 47.0 m.	
47.4-51.2	Guichon		wk/mod loc bkn/ crushed	ser, chl (loc carb)	chl healed fracts w/pyr at var angles		loc Fe: jar		chl ser	chl ser (loc carb)		(hem w/ maf)	(loc NCu)	pyr	pyr	wk	Chl on fracts becomes dark green with little or no Fe stn by bottom of interval. Wk/mod perv ser decreasing with depth [v fgr loc NCu on fracts at bottom of interval]	
51.2-54.5	Guichon		ckle/bkn/shatt loc crushed	ser, chl (loc carb)	as abv w/(cpy)		(loc Fe: jar)		chl ser	chl ser (loc carb)			(loc NCu)	pyr	pyr (cpy)	wk	[V fgr loc NCu on fract at top of interval, and loc with wk Fe-stn on fracts] Loc stng perv ser with blch.	
54.5-58.2	Guichon loc pink speckled		wk/mod loc bkn/shatt sets at 30, 50 60, 70° C.A.	ser, chl (loc carb)	chl healed fracts w/ pyr & (cpy) carb vnlt <0.5 cm at 60° C.A.		loc hem stn ser		chl ser (loc ep) loc alb?	ser chl (loc carb)				pyr (cpy)	pyr (cpy)	wk	Loc alb altn with (ep). Blch altn env on fracts (ser/(alb)) <0.5 cm	
58.2-61.5	Guichon		wk/mod loc bkn/shatt	as abv	chl healed fracts w/ pyr + (cpy)				chl (ser) loc alb (loc ep)	ser chl (loc carb)	chl?			pyr loc cpy	pyr (cpy)	wk	Diff chl bands and patches with loc (ep), alb altn, loc (cpy) as blebs.	
61.5-65.6	Guichon		wk/mod loc bkn sets at 45, 90° C.A.	as abv	chl healed fracts w/ pyr + cpy cpy vnlt 1-2 mm				chl (ser)	ser chl (Loc carb)	chl?			pyr cpy?	cpy pyr	wk	Stng increase in cpy in fracts and perv? cpy>pyr Chl bands with v fine grained cpy and pyr.	
65.6-69.1	Guichon		ckle/bkn loc shatt	chl, ser tr carb	qtz vnlt 1cm at 50° C.A. w/ cpy + mo				(loc ep) chl ser	chl ser tr carb				(pyr) cpy	cpy pyr (loc mo)	tr/wk	Further increase in cpy in fracts. Hydroth altn increasing: mod perv ser with patchy pale, blch sections (where conc of fracts with blch alt env is greatest.)	

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		
69.1-73.0	Guichon loc pink mottl'd	loc thin 72.2 m	ckle/bkn, loc shatt/crushed	chl, ser, loc cly, loc carb	carb vnlts 0.5cm w/mo 70.3m, qtz vnlts 0.5 cm with cpy	-	(loc hem)	-	(loc K-sp) loc carb chl ser	chl ser loc cly loc - carb	-	-	-	cpy cpy (mo)	tr		Tr/wk mo on fract and in carb vnlts (black streaks). Well mineralized and fract'd
73.0-76.7	Guichon loc pink-red mottled	loc thin on slip surfaces	mod/stng bkn loc crushed	chl, ser, carb	carb vnlts 0.5 cm	loc Fe	(loc Fe)	-	loc Ksp loc kao- lin, chl loc_ser	chl ser carb	-	tr bo	cpy	cpy	wk		Tr bo chl healed fract with K-sp alt env. Loc cpy with peacock bloom. Chl? healed crush zone 74.7 m with K-sp? and Fe stn ser, thin gge. Stng perv and fract cpy.
76.7-80.3	Guichon	-	mod/stng bkn loc shatt	chl, ser, (carb) cly	qtz vns ~1 cm w/mo, chl healed fracts w/ cpy	-	-	cly?	(carb) chl ser loc cly	chl ser carb, cly	-	tr bo	cpy	cpy (mo)	mod		Cpy dissf with pck blm. Qtz vns with chl selv and mo margins. Tr bo in qtz vnlts and chl healed fract. Stng perv hydrotherm altn throughout. Loc secondary biotite!!!!
80.3-84.6	Guichon	-	int/shatt	chl, ser, carb cly	chl healed fracts.	-	loc jar	cly?	(carb) chl ser loc cly	chl ser carb cly	-	-	cpy	cpy loc mo	mod		Ser/cly altn as above with increasing perv chl. Diff chl patches with pale brown spots.
84.6-88.2	Guichon (Hybrid?) loc mafic rich	-	wk, loc bkn	chl, ser, (carb)	carb micro vns, qtz vnlts 1-2cm at 20 + 70° C.A.	-	-	-	chl loc ser loc alb	chl ser (carb)	-	(hem w/maf)	cpy	cpy mo	wk/ mod		Sudden decrease in perv and fract hydroth altn (ser/chl/kaolin). Qtz vnlts with chl sev and mo on margins. Loc stng mo (1-2mm) in vnlts. Phenos loc ghost-like.
88.2-91.6	Guichon	-	wk/mod loc shatt	ser, chl, carb	qtz vnlts 0.5-1cm 50-70° C.A. vuggy	-	loc Fe: jar	-	chl ser	ser chl carb	-	-	cpy	cpy	loc wk		K-sp altn env (thin) on qtz vnlts. Loc secondary biotite!! Loc diff chl patches.
91.6-95.5	Guichon loc pink speckled	-	mod/stng bkn loc crushed sets at 50° C.A.	ser, chl, carb	qtz vnlts <2cm at 30 & 40° C.A. w/(cpy)	-	-	-	chl ser	ser chl carb	-	tr hem w/maf	cpy	cpy	tr		Increasingly competent.
95.5-99.6	Guichon	-	mod/stng bkn	ser, (chl) (carb)	qtz vnlts ~ 1cm at 10- 20° vuggy, w/ cpy	-	loc Fe: jar	-	as abv	ser (chl) (carb)	chl	as abv	cpy	cpy	wk		Mafic distribution changing: mafic size increasing.
99.6-103.2	Guichon/Hyb	loc 102.5 m 4 cm, at 60° C.A. w/pyr	mod/bkn	ser, chl, loc cly	qtz vns 1-4 cm vuggy w/pyr core 30,60° C.A.	-	-	-	chl (ser)	ser chl loc cly	-	-	cpy	cpy pyr	wk		Several partially assimilated xenoliths. Patchy chl altn, numerous qtz vns with 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				
103.2-107.4	Guichon/Hyb	-	ckle/bkn, loc comp	ser, chlr, carb	carb vnlt + microvns at var angles qtz vns at 0, 60° C.A.	(loc hem)	-	-	chlr	ser	-	(loc chalc)	-	cpy	cpy (mo)	mod			Perv cpy with peacock tarnish. Loc healed (alb?/chl?) crush zones. Phenos occ ghost-like. Loc fresh (secondary??) biotite in otherwise perv alt'd rock. Stain for K-spar.
107.4-111.8	Guichon (Hybrid?) Porph	-	wk/mod loc stng/bkn	ser, (chl) carb	qtz + carb vnlt + micro vns at 30, 60° C.A.	-	-	-	loc Ksp (carb)	ser (chl)	-	-	-	cpy	-	wk			Alternating apophyses?? of Guich/Hyb/grey porph/(Beth porph??) Cpy decreasing to trace at 108.0m.
111.8-115.3	Grey Porph (Beth??)	loc 114.8-115.3m at 40° C.A.	mod/stng bkn	(ser), chl carb, loc cly	carb micro vns + vnlt at var angles	-	-	-	carb	(ser) chl	-	-	-	(cpy)	(mo)	tr			Wk perv cpy with peacock bloom. Aphanitic grey groundmass; sparse loc ghost-like phenos.
115.3-118.7	Grey Porph (Beth??)	loc 115.3-115.7m	stng/bkn loc shatt	(ser), chl carb, loc cly	qtz vn frags	-	-	-	as abv	as abv	-	-	-	(cpy)	(cpy)	tr			Becomes shatt toward bottom of interval. Loc mottled appearance: variable ser/chlr altn. Appears similar to porphyry at 218.6 m, in 95-6. Thin sections required.
118.7-122.2	Grey Porph (Beth??)	-	stng/bkn loc shatt	(ser)(chl) carb	qtz vnlt & frags at var angles	-	-	-	chl (carb)	(ser) (chl) carb	-	-	-	(cpy)	(cpy)	loc mod			(Cpy) with peacock bloom. Cpy appears to increase with depth.
122.2-126.3	Grey Porph (Bethlehem??)	-	stng/bkn	(ser)(chl) carb	qtz + carb vnlt + micro vns at var angles	-	-	-	chl (carb)	(ser) (chl) carb	-	-	-	(cpy)	(cpy)	mod			Very similar to prev interval.
126.3-129.9	Grey Porph (Bethlehem??)	-	mod/stng bkn	(ser) (chl) carb	qtz vnlt <0.5 cm at 40, 70° carb vnlt <0.5 cm at 20, 70° C.A.	-	(loc jar)	-	chl (carb)	(ser) (chl) carb	-	(loc hem)	-	(cpy)	(pyr) (cpy)	wk			Qtz and carb vnlt with K-sp alt env <0.5 cm. Bich env (ser) on carb vnlt. Pervasive chl alteration increasing with depth.
129.9-133.8	Porph, mottled pale grey-grn/green	loc at 30° C.A. >10 cm	wk loc bkn	ser, chl, carb	qtz vnlt to 2 cm at 30 + 60° C.A., num irreg carb vnlt <1cm	-	-	-	chl carb ser	ser chl carb loc cly loc Ksp	-	-	-	(cpy)	(cpy) tr mo	tr			Loc wk cpy and mo on slip surfaces (as v thin films or plates). Qtz vns offset and/or trunc.A. led by irregular carb vnlt. Phenos usually ghost-like. Wk K-sp alt env usually assoc with carb vnlt.

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				
133.8-136.5	Porph, mottled pale grey-grn/green	-	mod/stng loc shatt/ crushed	ser, chlr, carb	qtz vns + vnlts to >5 cm at 10, 40, 60° C.A. num irreg carb vnlts <0.5 cm	-	-	-	ser chl carb	ser chl carb	-	(hem)	-	(mo?) cpy	(cpy) (mo?)	-	-	-	Qtz vns and vnlts cross cut of offset by irreg carb vnlts. Altn similar to above with slight increase in blch ser patches. Loc cpy with peacock bloom. Possible very fine grained loc diss mo?
136.5-139.9	Porph, mottled pale grey-grn/grn	-	wk/mod loc bkn	ser, chlr, carb	qtz vnlts to 1 cm at 30, 60, 70° C.A. w/cpy, irreg carb vnlts to 0.5 cm	-	-	-	chl ser carb	ser chl carb	-	(hem)	-	(cpy)	(cpy)	-	-	-	Wk K-sp alt env on largest qtz vnlts. Wk perv cpy loc with peacock bloom. Loc strong pervasive ser at top.
139.9-143.8	Porph, mottled pale grey-grn/grn	-	wk/mod, loc dis bx/crushed	ser, chlr, carb	qtz vnlts to 1 cm at 60, 70° C.A., num irreg carb vnlts to 0.5 cm	-	(loc hem)	-	chl ser carb loc Ksp loc alb?	ser, chl carb loc Ksp	-	(loc hem)	cpy	cpy	-	-	-	-	Loc healed dis bx/crush zones 140.1 and 143.0 m shear at 50-60° C.A. Slight increase in K-sp alt, becomes quite blch, with increase in fract int, 143.0-143.8m, and perv ser/alb?. Cpy with peacock bloom diss and dissf (very fine grained).
143.8-147.6	Porph, pale creamy grn/grey-grn/grn	-	wk/mod, sets at 20, 40, 50, 70° C.A.	ser, carb, loc chl	wk qtz/carb stkwk vnlts< 1.0 cm, vuggy	loc hem	-	-	loc Ksp loc alb? chl patchy ser	loc Ksp ser chl carb	-	(hem) (cov?)	-	cpy	cpy (mo?)	-	-	-	Wk qtz/carb stkwk with cpy as blebs and fract filling in vnlts. Patchy diss cpy with peacock bloom. Check for very fine grained diss cov. Increase in blch (ser/alb?) as patches and altn env around fract and vnlts.
147.6-150.9	Porph	-	wk/mod, loc bkn	ser, carb loc chl, (loc cly)	as abv	-	-	-	loc Ksp loc alb? chl patchy ser	as abv	-	(hem)	-	cpy	loc cpy	wk	-	-	Wk qtz/carb stkwk as abv. Cpy diss with peacock bloom. Perv K-sp alt increasing with depth (due to increasing fract int).
150.9-155.1	Porph, pale grn-grey, loc pink mottled	loc 152.0 m 2-3 cm at 55° C.A.	wk/mod	loc cly, ser (chl), carb	qtz vnlts < 0.5cm at 70° C.A., irreg carb vnlts <0.5 cm w/cpy	loc hem w/cpy	-	-	ser, patchy chl (carb) loc Ksp	ser (chl) carb loc cly loc Ksp	-	loc hem	-	(cpy)	-	-	-	-	Carb/alb healed crush zone 10 cm 150.9 m with cpy blebs with peacock bloom. Cpy blebs with diff hem-str halos.
155.1-158.6	Porph, pale grn-grey, loc pink mottled	-	wk/mod, loc dis bx/shatt/ crushed	ser, (chl) (loc cly) carb	carb vnlts <0.5 cm	loc hem w/cpy	loc hem w/cpy	-	carb, loc Ksp (ser) alb?	carb ser (chl) (loc cly) loc Ksp	-	loc hem	loc hem	(cpy)	(cpy) (pyr)	-	-	-	Cpy blebs and cpy in fract with diff hem-str halos and env <0.5 cm. Abrupt increase in perv carb. Cpy usually in carb vnlts. Patchy perv K-sp with stng K-sp alt env on vnlts.

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
interval (m)																		
158.6-162.6	Porph, pale grn-grey, loc pink mottled	loc thin	mod/stng bkn loc crushed	ser, chlr, carb (loc cly)	qtz + carb vnits to 1cm at 60-70° C.A., vuggy w/ cpy	loc hem stn ser	-	-	ser carb	ser (chl)	-	hem	-	cpy	(cpy) (mo?)	wk	K-sp continues as above. Loc drusy qtz on open fracts. Stng perv blch (ser/alb?) appearance. Cpy with peacock bloom perv, in fracts and vnits.	
162.6-166.1	Porph, pale creamy grn fault zone	loc thin ~ // C.A.	ckle/dis bx	loc cly, carb ser	qtz + carb vnits to 1cm at var angles	-	(loc hem)	-	carb ser	carb ser	-	-	-	(cpy)	(mo?) (cpy) (chalc)	-	Black streaks and ribbons in stng fract'd/milled zones. Sing carb perv and in fracts and vnits.	
166.1-170.1	Porph, wk fault zone	loc thin, ~0- 10° C.A. ~ 1 cm	mod	ser, (carb) (loc cly)	carb vnits at ~ 40° C.A. qtz + carb stkwk.	-	(loc hem in gge)	-	ser chl	ser (carb)	-	-	hem on chalc	cpy	(cpy) chalc	tr	most of interval is healed dis bx with porph clasts in dark green matrix, with patchy pale pink altn. Perv cpy with peacock bloom.	
170.1-174.5	Porph	-	mod/stng bkn	ser, carb, chl, (loc cly?)	qtz vnlt frags, loc chalcedonic qtz vn (banded)	-	-	-	patchy- chl + ser, alb?	ser carb chl (loc cly?)	-	loc hem	loc hem	cpy	(cpy)	-	Loc fine grained diss hem. Cpy with pck blm on fracts. Very unusual alteration and mineralization.	
174.5-178.5	Porph, grey/ green-grey	-	wk/mod, loc bkn	ser, carb, chl	qtz vnits < 2 cm at 50° C.A. w/ cpy	-	-	-	loc Ksp chl	ser carb chl	-	loc hem	loc hem	cpy chalc	cpy (mo?)	-	Stng perv chl altn. Loc fine grained diss hem. Check for perv bo. Specimen taken for PTS 176.0 m. Cpy with peacock bloom diss. Loc perv K-sp section may contain (mo?). Chalc w/peacock tarn-	
178.5-183.4	Porph fault zone	loc 182.2- 183.4m	wk/mod, loc shatt/crushed	chl, ser, loc cly, loc carb	qtz vnlt 1 cm at 70° C.A., irreg carb vnits	-	-	-	chl ser	chl ser	-	loc hem	-	(cpy)	chalc?	tr	ish. Bottom half of interval int fract'd/crushed. Pervasive dark speckling (chl?mo?/chalc)	
183.4-186.5	Porph Beth	loc 183.7- 184.1m, ~5° C.A., ~ 1 cm	stng/bkn	carb, ser (chl)	carb vnits at ~ 5° <0.5cm qtz vnlt at ~ 40° C.A. <0.5 cm	(loc hem)	-	-	chl ser	loc Ksp carb	-	-	-	cpy	(cpy)	tr	Perv hydroth altn decreasing, rock fabric much more distinguishable. Cpy diss and wk dissf with peacock bloom, chalc.	
186.5-190.0	Porph Beth	-	stng/bkn, loc shatt, sets at 15° C.A.	ser, carb (chl)	qtz vnits + frags <0.5 cm at 60 + 90° C.A., w/cpy	loc Fe: hem	-	-	chl, loc ser	ser carb (chl)	-	-	-	cpy	cpy	tr	Dissp cpy with peacock bloom, chalc.	

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			
190.0-194.0	Porph Beth fault zone	loc 193.4-194.0 m at 5-10° C.A.	ckle/dis bx loc crushed	(carb), chl ser, loc cly	frags, qtz/ carb	loc Fe: hem in bx clasts	-	-	loc - carb chl ser ser loc alb?	(carb) chl ser loc cly	-	(loc hem)	-	cpy (pyr)	cpy	-	-	Cpy diss and as blebs in bx matrix, loc stng 192.7m. Loc milling with banded/streaky black staining in carb along shear surface.
194.0-197.9	Porph Beth wk fault zone	-	stng/bkn, loc shatt, sets at ~ 0° C.A.	chl, ser, carb	irreg carb vnlt, qtz vn frags	(loc hem)	-	-	chl (ser)	chl ser carb	-	-	-	cpy	cpy	-	-	Sudden increase in perv chl (quite dark green) Healed ckle/wk dis Bx with cpy as fracture filling and as blebs.
197.9-200.4	Porph, Beth	-	stng/bkn, loc shatt/crushed sets at 20° C.A.	(carb) ser, chl, (loc cly)	-	patchy hem	-	-	(carb) ser chl	(carb) ser chl (loc cly)	-	(loc hem)	-	cpy (chalc?) (pyr)	cpy	-	-	Stronger chl altn than previously. Possible blocks of Guichon. Cross cut by porphyry dyke(s).
200.4-203.2	Guichon w/ Fp-1 incursions wk fault zone	-	bkn/shatt	(carb) ser, chl	-	patchy hem	-	-	(carb) ser, chl loc Ksp	(carb) ser chl	-	-	-	cpy chalc	cpy	tr	-	Loc perv hem-stn ser. Check for K-sp. Perv hydroth altn increasing (especially chl altn). Blocks of Guichon.
203.2-206.3	Fp-1	loc 203.5 m 2.4 cm at 45° C.A.	mod/stng bkn	chl, ser, (carb)	qtz vn frags	loc hem	-	-	carb in gge, loc Ksp	chl ser (carb)	-	-	-	cpy chalc (bo)	(cpy)	tr	-	Chl altn decreasing with depth. Patchy/clustered chloritized mafics; chl after bio
206.3-209.4	Fp-1	loc thin 206.6 m	stng/bkn, loc shatt, sets at 10° C.A.	ser, chl, carb	-	v loc hem	-	-	ser, cly chl patchy alb?	ser chl carb	ser?	-	-	cpy chalc (bo)	cpy	tr	-	Similar to prev interval.
209.4-212.3	Fp-1	-	stng/bkn, loc shatt	ser, carb	wk qtz vnlt at 30-40° C.A., vuggy w/cpy & bo	-	-	-	chl (ser)	ser carb	-	(hem) tr bo	-	cpy (bo)	(cpy) (bo)	loc wk	-	Unknown silver-grey metallic crystalline min 211.0m. Specimen taken for ICP
212.3-215.2	Fp-1	loc thin 214.6m at // C.A.	shatt/loc crushed	carb, ser, loc chl, loc cly	qtz vnlt frags	loc hem	-	-	chl ser	ser carb loc - chl loc cly	-	-	-	cpy pyr (loc mo)	cpy pyr	-	-	Strong diss fine cpy in frags. Loc strong diss cpy.
215.2-218.5	Fp-1	loc	ckle/dis bx	loc cly, carb ser, (chl) kaolin	irreg carb vnlt frags	(loc hem)	-	-	patchy- kaolin + chl ser	loc kaolin carb ser (chl), loc cly	-	-	-	cpy (pyr)	(cpy) 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			
218.5-221.5	Fp-1	-	mod/ckle, loc bkn/crushed	carb, ser, chlr loc cly	irreg carb vnits <0.5cm	loc hem	loc hem	-	ser	carb	-	-	-	cpy	(mo)	tr/wk	Patchy ser/chlr altn with loc pink-red hem stn mottling. carb/chlr healed crush zone at 219.2m Fine grained diss ppy, loc stng, seems to be increasing. Loc strong cpy dissf.
221.5-225.1	Fp-1 loc pink speckled	loc thin 222.7m 70° C.A.	wk/mod loc bkn	chlr, ser, carb (loc cly)	qtz/chlr heal'd fract w/cpy	-	-	-	chlr (ser) (loc Ksp)	chlr ser. carb (loc cly)	-	-	-	cpy (pyr)	cpy (mo) (pyr)	tr/wk	Significantly decreased perv hydroth altn. Cont fine grained diss ppy, mod/stng. Mafic content (chlr after biotite) increasing. More mafic-rich than "typical" Fp-1, but texture suggests this is not Guichon.
225.1-229.2	Fp-1 loc pink speckled (Hybrid?)	loc thin in bx/crush zone 228.0- 228.5m, 10- 20° C.A.	mod/stng bkn loc bx/crush'd sets at 20, 30, 60, 70° C.A.	chlr, ser, carb loc cly	qtz vnits < 1 cm, at 10- 20° C.A. w/ (cpy)	(loc hem)	-	-	chlr patchy- ser (loc Ksp)	chlr ser carb loc cly	-	-	-	cpy (pyr)	cpy (mo?) (pyr)	tr/wk	Texture appears loc granophyric: Fp-1 Loc stng ser altn with qtz vnits above crush zone. Crowded, 2-3 mm feldspar phenocrysts suggest mafic-rich Fp-1
229.2-232.6	Fp-1	-	mod/stng bkn	chlr, ser carb (loc cly)	qtz/chlr heal'd fract w/cpy	-	-	-	(ser) loc chlr (loc Ksp)	chlr ser carb (loc cly)	-	-	-	cpy	pyr cpy	tr/wk	Texture more strongly granopyric than above. Possible mixing? or impregnation? of Guichon by Beth Porph?? Probably partial melting and recrystallization.
232.6-236.6	Fp-1	-	mod/stng bkn	chlr, ser, carb	wk qtz vnits at 0 + 20° C.A. <0.5 cm	-	-	-	chlr ser	chlr ser carb	-	-	-	cpy	cpy (pyr)	tr	Loc mo in qtz vnits. Texture similar to previous interval.
236.6-240.4	Fp-1	-	mod/bkn	chlr, ser, carb	qtz vnits < 1cm w/cpy & mo, chlr heal'd fract w/cpy + pyr	-	-	-	chlr patchy- ser	chlr ser carb	-	-	-	cpy (pyr)	cpy (mo) pyr	tr	Grey, aplitic porphyry dyke 238.6-239.4 m, phenos ghost-like, with perv and fract cpy and (pyr) Bich altn env (ser/alb?) on healed fract.
240.4-244.0	Fp-1 wk fault zone	loc ~ 1 cm at 60° C.A. 240.7 m	stng/bkn, loc shatt/crushed	chlr, ser, carb kaolin?	qtz vnlt frags, chlr heal'd fract w/cpy	-	-	-	chlr ser	chlr ser carb cly?	-	-	-	cpy pyr	cpy pyr	tr	Distinct increase in pyr diss and dissf. Stng hydroth altn on fract with stng ser/cly? Should be XRD tested for clays.
244.0-248.4	Fp-1 wk fault zone	-	ckle/dis bx loc shatt/ crushed	chlr, ser, carb kaolin?	-	-	-	-	chlr ser (loc ep)	chlr ser carb cly	-	-	-	cpy pyr	cpy pyr	tr/wk	Loc stng fine grained diss ppy/pyr. Hydroth altn on fract as as above. Chlr patches and bands, pyr>cpy

ROCK TYPE		STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES	VENING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv	fract			
248.4-251.4	Fp-1 fault zone	loc ~ 2 cm 251.0 m 60° C.A.	stng/bkn, loc int/shatt	cly, chlr, ser carb	-	-	-	-	ser (chlr)	cly chlr	-	(hem)	-	pyr cpy	pyr (cpy)	wk		Increasing fract and perv hydroth altn intensity. Loc strong dissp cpy, very fine grained
251.4-255.3	Fp-1 wk fault zone	-	ckle/loc dis bx loc crushed	loc cly, chlr ser, carb	chlrl/qtz heal'd frags w/(cpy) + pyr	-	-	-	ser, chlrl	loc cly chlrl	-	-	-	cpy	cpy	wk		Further increase in pyr. Loc strong alb, phenos usually ghost-like.
255.3-259.1	Fp-1 Fault zone	loc 258.9m & 256.9m 1-2 cm ~ 40° C.A.	ckle/loc dis bx loc crushed	cly, chlr, ser carb	irreg carb vnltls, wk chlrl healed frags w/ cpy + (pyr)	-	-	-	(loc Ksp)	cly chlrl	-	-	-	cpy pyr	cpy pyr	wk		Grey apite dykelet ~ 3.0 cm 257.5 m. Strong ser alteration has obscured or altered most pre- existing propylitic alteration, some remanent alb and ep sections.
259.1-262.4	Fp-1 wk fault zone	loc thin 260.9m ~ 30° C.A.	mod/stng sets at 10, 35, 45° C.A.	chlrl, ser, carb loc cly	irreg carb/ qtz vnltls	-	-	-	ser chlrl (carb)	chlrl ser carb	-	-	-	as abv	as abv	tr		Loc carb healed crush bands, ~ 1cm, with black streaks and staining (crushed S _v ?) Pervasive ser alteration increasing.
262.4-266.8	Fp-1 fault zone	loc	mod/stng loc ckle/wk dis bx	chlrl, ser, carb loc cly	frags heal'd w/pyrlcpy	-	-	-	ser chlrl (carb)	chlrl ser carb loc cly	-	-	-	pyr (cpy)	pyr (cpy)	wk		Patchy chlrl/ser altn associated with frags and ser altn env (produces unusual pattern) Perv chlrl increasing
266.8-270.0	Fp-1 fault zone	loc 269.1m 269.9m, thin	stng/shatt loc crushed	ser, carb, (chlrl) loc cly	chlrl healed frags w/ pyr + (cpy)	(patchy hem)	-	-	ser, chlrl, (carb)	ser (chlrl) carb loc cly	-	-	-	pyr (cpy)	pyr (cpy)	wk		Grey apite dykelet frag 268.8 m.
270.0-272.8	Fp-1 fault zone	loc 270.7m ~ 3 cm	shatt dis bx	ser, chlrl, carb loc cly	aplite dykelet frags 272.2 m	(patchy hem)	-	-	chlrl patchy- ser	ser chlrl carb loc cly	-	-	-	pyr cpy	pyr (cpy)	tr		Intensity of mineralization decreasing. Pyr > cpy
272.8-275.8	Fp-1 wk fault zone	-	bkn/shatt	ser, (chlrl) cly?	aplite dykelts 274.0m <2 cm, 70- 90° C.A.	-	-	-	chlrl loc ser loc Ksp	ser (chlrl) cly?	-	-	-	(pyr) (cpy)	pyr (cpy)	tr		Blich, ser, altn env on chlrl healed frags with pyr Aplite dykelets with diffuse contacts. Several sections exhibit distinct pink speckled, porphyritic texture---Beth??

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			
275.8-278.6	Fp-1 fault zone	loc thin 278.2m + 276.9m	stng/bkn loc crushed	ser, chlr, carb, loc cly	chl'r healed fracts w/ pyr+ cpy	(loc hem)	-	-	ser chl'r	ser chl'r carb loc cly	-	-	-	-	cpy pyr	-	-	Increase in perv chl'r. Aplite dykelet frags 276.3m >4.0 cm. Primary mineralization conc in fracts and microfracts.
278.6-282.0	Fp-1	loc 280.0- 280.3m	stng/shatt/ crushed loc mod	ser, chl'r, carb loc cly	chl'r healed fracts w/ pyr, irreg carb vnlt	(loc hem)	-	-	chl'r patchy- ser	ser chl'r carb loc cly carb	-	-	-	-	pyr (cpy)	tr	-	Loc wk K-sp altn on fracts. Stng perv chl'r altn.
282.0-284.8	Fp-1	loc 283.3m ~ 4 cm	stng/bkn, loc ckle bx	carb, ser, chl'r (loc cly)	carb vnlt 2 cm 60°C.A.	loc hem	-	-	chl'r patchy- ser (carb) alb	carb ser chl'r (loc cly)	-	-	-	(pyr)	pyr (cpy)	-	-	Possible incursions of Bethlehem. Texture in some sections suggests partial melting and recrystallization of Guichon. Loc quite brittle.
284.8-287.9	Fp-1	loc 286.7m 2-3 cm	stng/bkn	loc cly, chl'r, ser, carb	qtz vnlt <0.5 cm, 60° C.A., chl'r heal'd fracts w/pyr	(loc hem)	-	-	chl'r ser (carb)	chl'r ser carb loc cly	-	-	-	(pyr)	(cpy) pyr	tr	-	Slight decrease in perv chl'r. Possible incursions of Bethlehem or Bethlehem porphyry. Overall mafic content (chl'r after biotite) decreasing. Crowded, Fp-1 characteristics more evident.
287.9-290.5	Fp-1	loc thin	stng/bkn loc crushed	chl'r, ser, carb loc cly	irreg carb vnlt <0.5cm	-	-	-	loc Ksp chl'r loc ser	chl'r ser carb loc cly loc Ksp	-	-	-	-	pyr	tr	-	
290.5-294.6	Fp-1 fault zone	292.8- 293.5m at 20° C.A.	crushed/gge loc comp	loc cly, carb ser, chl'r	healed fracts w/pyr, irreg carb vnlt w/hem	-	-	-	chl'r ser loc carb loc Ksp alb?	carb ser chl'r loc cly	-	-	-	pyr	pyr	-	-	Blch ser alt env on fracts <0.5 cm.
294.6-297.4	Fp-1	?, 259.9 ~ 20 cm ~ 5-10° C.A.	stng/bkn	chl'r, ser, loc cly (carb)	chl'r healed fracts w/ pyr	(patchy hem)	(hem)	-	chl'r ser carb in gge alb?	chl'r ser (carb) loc cly	-	(hem w/maf)	-	-	pyr	wk	-	Intense hydroth altn at bottom, texture appears to change-----may be a feature of altn???
297.4-301.4	Fp-1 loc pink speckled	loc thin 298.3m ~ 20° C.A.	stng/bkn, sets at 0, 20° C.A. loc comp	chl'r, ser, carb loc cly	healed fracts w/(pyr) carb vnlt at 10° C.A. <2 cm w/hem	patchy hem	-	-	chl'r loc ser sil?	chl'r ser carb loc cly	chl'r	-	-	-	(pyr)	wk	-	Intense hydroth alteration at top of interval 297.4-298.3m; texture appears to change but may be a result of alteration. Alteration envelope on fracts are bleached with K-sp on margins. Thin section required. Becoming more siliceous - qtz-biotite-feldspar porphyry.

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				
301.4-305.0	Fp-1 pink speckled	-	mod/stng, sets at 20° C.A.	chl _r , ser, carb	chl _r healed fracts w/ (pyr)	-	(hem)	-	loc Ksp (chl _r) loc alb loc sil	loc Ksp chl _r ser carb	chl _r (ser)	-	(loc hem)	-	(pyr)	wk		Increasingly competent. Sudden decrease in perv hydroth. alteration and primary min. Possible gradational Bethlehem contact zone.	
305.0-309.5	Fp-1	-	wk/mod	chl _r , ser, (carb)	carb microvns	-	-	-	loc ep loc alb	loc ep chl _r ser (carb)	chl _r (ser)	-	-	-	(pyr)	wk		Appears to be grading to less mafic Fp-1. Mafic xenolith 307.4m ~ 3-4 cm. Loc diff ep associated with fracts. Quite competent with little hydroth altn	
309.5-313.4	Fp-1	-	wk/mod loc bkn, v loc mill'd at 313.0m ~ 1cm 90° C.A.	chl _r , loc ser (carb)	chl _r healed fracts w/ pyr	-	-	-	loc ep loc Ksp loc alb	chl _r (carb) loc ser	chl _r (ser)	-	-	-	pyr	mod		Similar to above with more extensive ep associated with fracts.	
313.4-317.4	Fp-1	-	mod/stng	chl _r , ser, carb	irreg carb vnits	-	-	-	chl _r loc ser loc ep	chl _r ser carb loc ep	-	-	-	-	(pyr)	wk		Loc ep banding 315.4 m.	
317.4-321.0	Fp-1	-	mod, loc crushed	chl _r , ser, (carb)	carb vnits <0.5 cm 40° C.A.	loc hem	loc hem	-	loc ep loc Ksp chl _r ser	loc Ksp chl _r ser (carb)	-	-	loc hem	(pyr)	(pyr)	wk/ mod		Stng perv ep above and below 20° C.A. fract with stng hem/ser coating 318.4 m. Stng increase in perv hydroth alteration (especially chl _r).	
321.0-325.0	Fp-1	loc 321.4 m <1 cm ~ 20° C.A.	wk/mod	ser, chl _r , carb	irreg carb vnits	-	-	-	chl _r loc ser	ser chl _r carb	-	(hem)	-	-	pyr	mod		Stng perv chl _r alteration.	
325.0-329.1	Fp-1	loc thin 327.9 m 70° C.A. < 1.0 cm	wk/mod sets at 20, 50, 90° C.A.	ser, chl _r , (carb)	aplite dykelet <0.5 cm 50° C.A.	-	-	-	loc ep loc Ksp chl _r (loc ser)	(loc ep) ser chl _r (carb)	-	-	-	(pyr)	(pyr)	wk		Possible incursions of Bethlehem or Bethlehem porphyry.	
329.1-331.6	Fp-1	-	wk	(ser) chl _r , (carb)	carb vnlt <0.5 cm 20° C.A.	(loc hem)	(loc hem)	-	loc ep loc Ksp (ser) chl _r	(ser) chl _r (carb) loc Ksp	-	(hem)	-	-	(pyr)	tr/wk		Diffuse ep/K-sp banding 331.5m. Hem in carb vnits.	
EOH 331.6 m																			

DDH95-18

Northing: 5603977.2			DDH 95-18					Azimuth: 045	
Easting: 641619.7			Elevation: 1712.1 m					Inclination: -65	
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
19103	8.2	9.7	0.07	0.03	-	-	-	-	Guichon/Hybrid:
19104	9.7	11.2	0.05	0.01	-	-	-	-	mod./stng., loc. ckle./
19105	11.2	12.7	0.05	0.02	-	-	-	-	bkn./shatt.
19106	12.7	14.2	0.06	0.03	-	-	-	-	"
19107	14.2	15.7	0.08	0.03	-	-	-	-	"
19108	15.7	17.2	0.08	0.02	-	-	-	-	"
19109	17.2	18.7	0.08	0.02	-	-	-	-	"
19110	18.7	20.2	0.09	0.02	-	-	-	-	"
19111	20.2	21.7	0.06	0.03	-	-	-	-	"
19112	21.7	23.2	0.08	0.01	-	-	-	-	"
19113	23.2	24.7	0.08	0.01	-	-	-	-	"
19114	24.7	26.2	0.08	0.01	-	-	-	-	"
19115	26.2	27.7	0.08	0.02	-	-	-	-	"
19116	27.7	29.2	0.08	0.01	-	-	-	-	"
19117	29.2	30.7	0.08	0.02	-	-	-	-	"
19118	30.7	32.2	0.14	0.03	-	-	-	-	"
19119	32.2	33.7	0.10	0.02	-	-	-	-	"
19120	33.7	35.2	0.15	0.03	-	-	-	-	"
19121	35.2	36.7	0.15	0.03	-	-	-	-	wk./mod., loc. bkn.
19122	36.7	38.2	0.11	0.02	-	-	-	-	"
19123	38.2	39.7	0.12	0.02	-	-	-	-	"
19124	39.7	41.2	0.11	0.02	-	-	-	-	"
19125	41.2	42.7	0.11	0.02	-	-	-	-	"
19126	42.7	44.2	0.13	0.03	-	-	-	-	"
19127	44.2	45.7	0.16	0.03	-	-	-	-	"
19128	45.7	47.2	0.34	0.05	-	-	-	-	"
19129	47.2	48.7	0.28	0.05	-	-	-	-	"
19130	48.7	50.2	0.15	0.03	-	-	-	-	"
19131	50.2	51.7	0.34	-	0.1	<.01	5	<.001	"
19132	51.7	53.2	0.33	-	0.2	0.01	5	<.001	"
19133	53.2	54.7	0.26	-	0.1	<.01	5	0.002	"
19134	54.7	56.2	0.15	-	0.1	<.01	5	<.001	"
19135	56.2	57.7	0.32	-	0.3	0.01	5	0.002	"
19136	57.7	59.2	0.21	-	0.1	<.01	5	0.003	"
19137	59.2	60.7	0.26	-	0.1	<.01	5	0.004	"
19138	60.7	62.2	0.22	-	0.1	<.01	5	0.002	"
19139	62.2	63.7	0.29	-	0.1	<.01	5	0.008	"
19140	63.7	65.2	0.79	-	0.4	0.01	5	<.001	"
19141	65.2	66.7	0.98	-	0.8	0.02	5	<.001	mod./stng., loc. ckle./
19142	66.7	68.2	0.75	-	0.7	0.02	5	0.008	bkn.
19143	68.2	69.7	1.08	-	1.2	0.04	5	0.038	"
19144	69.7	71.2	0.80	-	0.3	0.01	5	0.01	"
19145	71.2	72.7	1.06	-	1.1	0.03	5	<.001	"
19146	72.7	74.2	0.87	-	0.7	0.02	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
19147	74.2	75.7	0.64	-	0.6	0.02	10	<.001	Guichon/Hybrid:
19148	75.7	77.2	0.58	-	0.6	0.02	5	<.001	mod./stng., loc. ckle./
19149	77.2	78.7	0.64	-	0.8	0.02	5	0.004	bkn./shatt.
19150	78.7	80.2	0.78	-	1.2	0.04	5	0.011	"
19151	80.2	81.7	1.18	-	1.9	0.06	5	0.028	"
19152	81.7	83.2	0.73	-	0.9	0.03	5	0.036	"
19153	83.2	84.7	0.46	-	0.8	0.02	5	0.02	"
19154	84.7	86.2	0.62	-	0.8	0.02	5	0.003	wk./mod., loc. stng./
19155	86.2	87.7	0.84	-	1.1	0.03	5	0.004	bkn.
19156	87.7	89.2	0.57	-	0.8	0.02	5	0.022	"
19157	89.2	90.7	0.75	-	1.0	0.03	5	0.004	"
19158	90.7	92.2	0.66	-	1.0	0.03	10	0.001	"
19159	92.2	93.7	0.54	-	1.2	0.04	5	0.001	"
19160	93.7	95.2	0.48	-	0.9	0.03	5	0.006	"
19161	95.2	96.7	0.50	-	0.9	0.03	5	0.001	"
19162	96.7	98.2	0.46	-	0.8	0.02	5	0.003	"
19163	98.2	99.7	0.65	-	1.3	0.04	5	0.020	"
19164	99.7	101.2	0.66	-	1.2	0.04	5	0.001	"
19165	101.2	102.7	0.73	-	1.5	0.04	5	0.003	"
19166	102.7	104.2	0.55	-	1.3	0.04	5	0.011	wk./mod., loc. stng./
19167	104.2	105.7	0.45	-	1.3	0.04	5	0.007	ckle.
19168	105.7	107.2	0.30	-	0.3	0.01	5	0.006	"
19169	107.2	108.7	0.56	-	1.6	0.05	5	<.001	Guichon/Hybrid/
19170	108.7	110.2	0.32	-	1.0	0.03	5	0.001	Porphyry
19171	110.2	111.7	0.25	-	0.5	0.02	5	0.001	"
19172	111.7	113.2	0.16	-	0.5	0.02	5	0.001	Grey Porph., Beth.?:
19173	113.2	114.7	0.20	-	0.2	0.01	5	0.002	fault zone
19174	114.7	116.2	0.54	-	0.1	<.01	5	0.001	"
19175	116.2	117.7	0.20	-	0.5	0.02	5	0.002	"
19176	117.7	119.2	0.34	-	0.3	0.01	5	0.002	"
19177	119.2	120.7	0.33	-	0.4	0.01	5	0.005	mod./stng., loc. bkn./
19178	120.7	122.2	0.28	-	0.7	0.02	5	0.001	shatt.
19179	122.2	123.7	0.20	-	0.9	0.03	5	0.001	"
19180	123.7	125.2	0.24	-	1.0	0.03	5	<.001	wk./mod., loc. stng./
19181	125.2	126.7	0.11	-	0.1	<.01	5	<.001	bkn.
19182	126.7	128.2	0.34	-	0.3	0.01	5	<.001	"
19183	128.2	129.7	0.65	-	0.6	0.02	5	<.001	"
19184	129.7	131.2	0.23	-	0.4	0.01	5	<.001	"
19185	131.2	132.7	0.21	-	0.8	0.02	5	<.001	"
19186	132.7	134.2	0.26	-	0.6	0.02	5	<.001	"
19187	134.2	135.7	0.39	-	1.2	0.04	5	0.002	"
19188	135.7	137.2	0.30	-	0.6	0.02	5	<.001	"
19189	137.2	138.7	0.24	-	0.5	0.02	5	<.001	"
19190	138.7	140.2	0.25	-	0.6	0.02	5	<.001	"
19191	140.2	141.7	0.26	-	0.6	0.02	5	0.001	wk./mod., loc. dis. Bx./
19192	141.7	143.2	0.24	-	0.7	0.02	5	<.001	crushed
19193	143.2	144.7	0.25	-	0.3	0.01	5	<.001	wk./mod.

DDH95-18

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
19194	144.7	146.2	0.19	-	0.3	0.01	5	<.001	Grey Porphyry :
19195	146.2	147.7	0.18	-	0.6	0.02	5	<.001	wk./mod., loc. bkn.
19196	147.7	149.2	0.18	-	0.6	0.02	5	<.001	"
19197	149.2	150.7	0.17	-	0.5	0.02	5	<.001	"
19198	150.7	152.2	0.24	-	0.1	<.01	5	<.001	"
19199	152.2	153.7	0.26	-	0.4	0.01	5	<.001	"
19200	153.7	155.2	0.18	-	0.2	0.01	5	<.001	"
19201	155.2	156.7	0.22	-	0.5	0.02	5	<.001	mod./stng., loc. ckle./
19202	156.7	158.2	0.19	-	0.3	0.01	5	<.001	bkn.
19203	158.2	159.7	0.23	-	0.3	0.01	5	<.001	"
19204	159.7	161.2	0.20	-	0.4	0.01	5	<.001	"
19205	161.2	162.7	0.39	-	0.7	0.02	5	0.001	"
19206	162.7	164.2	0.36	-	0.8	0.02	5	0.001	"
19207	164.2	165.7	0.31	-	0.4	0.01	5	<.001	"
19208	165.7	167.2	0.29	-	0.8	0.02	5	<.001	"
19209	167.2	168.7	0.32	-	0.6	0.02	5	<.001	"
19210	168.7	170.2	0.49	-	0.5	0.02	5	<.001	"
19211	170.2	171.7	0.36	-	0.9	0.03	5	<.001	"
19212	171.7	173.2	0.43	-	1.6	0.05	5	0.001	"
19213	173.2	174.7	0.61	-	1.4	0.04	5	<.001	"
19214	174.7	176.2	0.42	-	1.3	0.04	5	<.001	"
19215	176.2	177.7	0.50	-	1.2	0.04	5	<.001	"
19216	177.7	179.2	0.51	-	2.2	0.06	5	<.001	"
19217	179.2	180.7	0.77	-	2.1	0.06	5	0.001	"
19218	180.7	182.2	0.52	-	1.9	0.06	5	<.001	"
19219	182.2	183.7	0.69	-	2.0	0.06	5	0.001	"
19220	183.7	185.2	0.58	-	2.1	0.06	5	0.001	Porphyry: Beth.?
19221	185.2	186.7	0.50	-	1.9	0.06	5	0.001	mod./stng., loc. ckle./
19222	186.7	188.2	0.61	-	0.8	0.02	5	0.001	bkn.
19223	188.2	189.7	0.37	-	0.7	0.02	5	0.001	"
19224	189.7	191.2	0.65	-	1.1	0.03	5	0.003	fault zone w/ gge.
19225	191.2	192.7	0.53	-	0.9	0.03	5	0.002	"
19226	192.7	194.2	0.63	-	1.1	0.03	5	0.004	"
19227	194.2	195.7	1.27	-	1.5	0.04	5	0.009	wk. fault zone
19228	195.7	197.2	0.63	-	1.1	0.03	5	0.004	"
19229	197.2	198.7	0.74	-	0.7	0.02	5	0.002	stng./bkn., loc. shatt.
19230	198.7	200.2	0.70	-	1.3	0.04	5	0.006	"
19231	200.2	201.7	0.89	-	2.4	0.07	5	0.005	mod./stng., loc. bkn./
19232	201.7	203.2	0.93	-	1.6	0.05	5	0.004	shatt.
19233	203.2	204.7	0.86	-	1.2	0.04	5	0.003	"
19234	204.7	206.2	0.64	-	1.1	0.03	5	0.002	"
19235	206.2	207.7	0.86	-	1.3	0.04	5	0.003	"
19236	207.7	209.2	0.90	-	1.5	0.04	5	0.002	"
19237	209.2	210.7	0.74	-	1.5	0.04	5	0.002	"
19238	210.7	212.2	0.76	-	1.1	0.03	5	0.004	"
19239	212.2	213.7	1.24	-	2.1	0.06	5	0.001	"
19240	213.7	215.2	1.33	-	1.8	0.05	5	0.009	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
19241	215.2	216.7	0.95	-	1.0	0.03	5	0.002	Porphyry: Beth.? wk. fault zone
19242	216.7	218.2	0.81	-	1.7	0.05	5	0.003	
19243	218.2	219.7	0.77	-	0.6	0.02	5	0.004	
19244	219.7	221.2	1.06	-	0.9	0.03	5	0.007	
19245	221.2	222.7	0.87	-	0.9	0.03	5	0.004	
19246	222.7	224.2	0.81	-	1.1	0.03	5	0.001	
19247	224.2	225.7	0.89	-	1.1	0.03	5	0.003	
19248	225.7	227.2	0.90	-	1.2	0.04	5	0.007	
19249	227.2	228.7	0.15	-	1.2	0.04	5	0.014	
19250	228.7	230.2	0.89	-	1.0	0.03	5	0.022	
19251	230.2	231.7	1.02	-	1.4	0.04	5	0.017	
19252	231.7	233.2	0.55	-	0.9	0.03	5	0.003	
19253	233.2	234.7	0.88	-	1.3	0.04	5	0.009	
19254	234.7	236.2	0.87	-	1.1	0.03	5	0.007	
19255	236.2	237.7	0.85	-	1.0	0.03	5	0.016	
19256	237.7	239.2	0.54	-	0.6	0.02	5	0.005	
19257	239.2	240.7	0.98	-	1.3	0.04	5	0.021	
19258	240.7	242.2	0.34	-	0.5	0.02	5	0.002	
19259	242.2	243.7	0.60	-	0.9	0.03	5	0.025	
19260	243.7	245.2	1.09	-	1.2	0.04	5	0.007	
19261	245.2	246.7	1.08	-	1.3	0.04	5	0.009	
19262	246.7	248.2	0.80	-	1.1	0.03	5	0.004	
19263	248.2	249.7	0.32	-	0.6	0.02	5	0.010	
19264	249.7	251.2	1.14	-	1.1	0.03	5	0.004	
19265	251.2	252.7	0.52	-	0.9	0.03	5	0.002	
19266	252.7	254.2	0.71	-	0.9	0.03	5	0.002	
19267	254.2	255.7	0.95	-	1.0	0.03	5	0.007	
19268	255.7	257.2	0.79	-	0.8	0.02	5	0.002	
19269	257.2	258.7	0.53	-	0.9	0.03	5	0.006	
19270	258.7	260.2	0.76	-	1.1	0.03	5	0.004	
19271	260.2	261.7	0.63	-	1.0	0.03	5	0.011	
19272	261.7	263.2	0.52	-	1.4	0.04	5	0.013	
19273	263.2	264.7	0.51	-	0.9	0.03	5	0.012	
19274	264.7	266.2	0.69	-	1.0	0.03	5	0.014	
19275	266.2	267.7	0.57	-	0.8	0.02	5	0.004	
19276	267.7	269.2	0.56	-	1.0	0.03	5	0.003	
19277	269.2	270.7	0.30	-	0.4	0.01	5	0.002	
19278	270.7	272.2	0.24	-	0.4	0.01	5	0.002	
19279	272.2	273.7	0.17	-	0.3	0.01	5	0.001	
19280	273.7	275.2	0.11	-	0.4	0.01	5	0.001	
19281	275.2	276.7	0.11	-	0.3	0.01	5	0.003	
19282	276.7	278.2	0.18	-	0.3	0.01	5	0.004	
19283	278.2	279.7	0.07	-	0.1	<.01	5	0.001	
19284	279.7	281.2	0.31	-	0.2	0.01	5	0.001	
19285	281.2	282.7	0.15	-	0.2	0.01	5	0.002	
19286	282.7	284.2	0.06	-	0.3	0.01	5	<.001	
19287	284.2	285.7	0.06	-	0.2	0.01	5	0.003	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	%Mo	Lithology
	From	To							
19288	285.7	287.2	0.12	-	0.1	<.01	5	0.002	
19289	287.2	288.7	0.07	-	0.1	<.01	5	0.002	
19290	288.7	290.2	0.04	-	0.2	0.01	5	0.001	
19291	290.2	291.7	0.05	-	0.2	0.01	5	0.002	
19292	291.7	293.2	0.04	-	0.1	<.01	5	0.001	
19293	293.2	294.7	0.03	-	0.1	<.01	5	0.001	
19294	294.7	296.2	0.03	-	0.1	<.01	5	0.002	
19295	296.2	297.7	0.01	-	0.1	<.01	5	<.001	
19296	297.7	299.2	0.01	-	0.1	<.01	5	0.001	
19297	299.2	300.7	0.01	-	0.1	<.01	5	<.001	
19298	300.7	302.2	0.01	-	0.1	<.01	5	0.001	
19299	302.2	303.7	0.02	-	0.1	<.01	5	0.001	
19300	303.7	305.2	0.02	-	0.1	<.01	5	<.001	
19301	305.2	306.7	0.02	-	0.1	<.01	5	<.001	
19302	306.7	308.2	0.02	-	0.1	<.01	5	0.001	
19303	308.2	309.7	0.01	-	0.1	<.01	5	<.001	
19304	309.7	311.2	0.01	-	0.1	<.01	5	<.001	
19305	311.2	312.7	0.02	-	0.1	<.01	5	<.001	
19306	312.7	314.2	0.02	-	0.1	<.01	5	<.001	
19307	314.2	315.7	0.01	-	0.2	0.01	5	<.001	
19308	315.7	317.2	0.01	-	0.1	<.01	5	<.001	
19309	317.2	318.7	0.01	-	0.1	<.01	5	<.001	
19310	318.7	320.2	<.01	-	0.1	<.01	5	<.001	
19311	320.2	321.7	0.08	-	0.1	<.01	5	0.002	
19312	321.7	323.2	0.03	-	0.1	<.01	5	<.001	
19313	323.2	324.7	0.01	-	0.1	<.01	5	<.001	
19314	324.7	326.2	0.01	-	0.1	<.01	5	0.001	
19315	326.2	327.7	0.02	-	0.1	<.01	5	<.001	
19316	327.7	329.2	0.09	-	0.1	<.01	5	0.001	
19317	329.2	330.7	0.01	-	0.1	<.01	5	<.001	
19318	330.7	331.6	0.01	-	0.1	<.01	5	<.001	
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #:	DH95-19	Date:	27-Sep	Relogged?:	W.Verne Niessen	Logged by:	PM, VN												
Elevation:	1718.5 m	Azimuth:	045		Mar 1/96	Northing:	5603957.4												
Inclination:	-75	Length:	313.9 m			Eastings:	641642.6												
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.				
9.1-14.6	Guichon Hyb/ Porphyry D3 contact	-	wk/mod	chl, (ser)	-	-	Fe	-	patchy ep chl (ser)	-	-	-	-	pyr	wk/ mod	Guichon Hybrid/Porphyry contact at ~ 11.3 m. Actual contact not observed---broken. D3 Porphyry			
14.6-18.3	Beth (grey) Porphyry D3	-	stng/bkn/shatt	(chl)(ser)	heal'd fracts w/pyr	-	-	-	patchy ep sil chl (ser)	-	-	-	pyr	pyr	-	Bleached weak ser alteration envelopes on healed fractures. Aphanitic grey groundmass supporting mafic clots to 0.75 cm and phenos usually <1mm Feldspars ~ 1.0 mm. Pyr ~ 1%			
18.3-22.0	Beth (grey) Porphyry D3	loc 20.3 m	ckle bx/shatt	(chl) ser (loc carb), loc cly	-	-	-	-	ep sil chl (ser)	-	-	-	pyr	pyr	-	Weak bleached alteration envelopes on fractures to 1-2 mm. Phenocrysts generally ghost-like. Pyr ~ 1%			
22.0-25.6	Beth (grey) Porphyry D3	-	ckle bx/shatt	(chl), ser	heal'd fracts w/pyr	-	-	-	ep, sil chl	-	-	-	pyr	pyr	-	Healed fracts with pyr, alteration envelopes < 1 cm (bleached, ser). Phenocrysts generally ghost-like. Pyr ~ 1%			
25.6-28.4	Beth (grey) Porphyry D3	-	ckle bx/bkn shatt	(chl) ser carb	healed fracts w/ pyr, wk qtz microstkwk	-	-	-	ep, sil chl	-	-	-	pyr	pyr	-	Very similar to above with continued propylitic alteration. Pyr ~ 1-1.5%.			
28.4-31.7	Beth (grey) Porphyry D3	-	ckle bx/bkn, loc shatt	(chl) ser, carb	healed fracts w/ pyr, wk qtz microstkwk	-	-	-	patchy ep sil chl	-	-	-	pyr	pyr	-	Very similar to above with continued propylitic alteration.			
31.7-34.5	Beth? (grey) Porph	-	ckle/bkn loc shatt	(chl), ser carb	num healed fracts w/pyr	-	-	-	patchy ep sil, chl	-	-	-	(pyr)	pyr	-	Alteration envelopes to ~ 1.0 cm on healed fracts often merging to give pervasive bleached appearance.			
34.5-37.9	Beth? (grey) Porph	loc thin 36.3 m	ckle/bkn loc shatt	(chl), ser carb	num healed fracts w/pyr	-	-	-	patchy ep sil, chl	-	-	-	(pyr)	pyr	tr	Increasing pervasive ser alteration, stronger alteration in alteration envelopes on fractures.			
37.9-40.6	Beth? (grey) Porph	-	ckle/bkn loc shatt	chl, ser, carb	num healed fracts w/pyr (pyr vnlt 1-2 mm)	-	-	-	patchy ep sil chl	-	-	-	pyr	pyr	tr/wk	Bleached alteration envelopes on fracts frequently with dark (chl?) margins. Scattered chl altered mafic clots. Phenos generally ghost-like. Pyr 1-2%			

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.
40.6-43.7	Beth? (grey) Porph	-	as abv	as abv	num healed fracts w/pyr (pyr vnits 1-2 mm)	-	-	-	patchy ep sil, chlr	chl ser carb	-	-	-	pyr pyr (cpy)	tr	Slightly less broken than previous interval. Alteration continues as above.			
43.7-46.7	Beth? (grey) Porph	loc thin 45.9m	ckle/bkn, loc shatt/crushed	chl, ser carb	num healed fracts w/pyr (pyr vnits 3-4 mm)	-	-	-	patchy ep sil, chl	chl ser carb	-	-	(pyr) pyr	-	At 45.5 m pyr vnits 3-4 cm - parallel to core axis. Intervals of Guichon - xenoliths? or interfingering of D3 in Guichon?				
46.7-49.9	Beth (grey) D3, Porphyry/ Guichon contact	loc 49.6 m	ckle/stng bkn/shatt	(chl) ser, carb	pyr f.f. & vnits 1-2 mm	-	-	-	patchy ep sil chl	chl ser carb	-	-	(pyr) pyr (mo?)	-	Black bands/streaks on margins of pyr fracture filling- suggests mo? Too fine grained to be certain. Porphyry/Guichon fault contact 49.6 m. Pyr 2-3%				
49.9-52.8	Guichon/D3 grey Porph	-	wk ckle/bkn/ loc shatt	(chl), ser (carb)	chl healed fracts w/ pyr, pyr vnits 3-4 mm	-	-	-	wk patchy- ep; chl loc sil	(chl) ser (carb)	-	-	(pyr) pyr	loc tr	Short interval (apophysis?) of grey porph. Guichon /D3 is non-magnetic, porph is weakly magnetic. Pyr 3-4%				
52.8-56.4	Guichon grey-green	-	wk/mod loc bkn	ser, carb, chl	heal'd fracts w/pyr qtz/pyr vnits	-	-	-	tr ep chl ser	carb ser chl	-	-	(pyr) pyr	tr	Distinct increase in chl, pervasively and on fracts and pervasive ser alteration. Sharp decrease in pervasively disseminated ep. Locally pyr veinlets 2-3 mm. Weak qtz/pyr microstockwork. Pyr ~ 2%.				
56.4-59.5	Guichon/D3? grey Porph Guichon to 58.0 m	? v loc thin 57.6 m	bkn/shatt loc crushed	chl, ser loc carb	chl/qtz heal'd fracts w/pyr, pyr vnits 1-2mm	-	-	-	chl ser (carb)	chl ser (loc cly) loc carb	-	-	pyr pyr (cpy?)	wk	Guichon broken contact with grey Porph ~ 58.0 m Guichon is intruded and (impregnated?) by Porph Pyr vnits at ~ 0° cross contact. Porph is patchy green/grey-green away from contact. Loc complete ser alteration in Guichon with moderate to strong pervasive chl. Pyr 2-3%				
59.5-63.1	Grey Porph grey/green- grey, D3	-	ckle/shatt loc crushed	ser, chl, carb	heal'd fracts w/pyr qtz/pyr microstk	-	-	-	(chl) ser (carb) loc sil	ser chl carb	-	-	pyr pyr (cpy)	-	Patchy grey/green-grey pattern from fracture alteration effects (well developed bleached alter- ation envelopes and patchy ser alteration.) Pyr 2-3%				
63.1-66.4	Grey Porph D3 wk fault zone	several slip surfaces	ckle/bkn, loc shatt/crushed	chl, ser, carb (loc cly)	pyr vnits ~ 1mm, irreg carb vnits and f.f., wk qtz/pyr microstk	-	-	-	loc sil (chl) ser loc carb	chl ser (loc cly)	-	-	loc cpy (loc pyr) pyr (loc mo)	tr	Carb/chl healed bx/crush zone 64.6m for ~ 20 cm Strong cpy blebs and (mo) on fractures. Well developed (to 2 cm) bleached alteration envelopes (qtz/ser) in strongly altered D3 Porphyry				

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
66.4-70.2	D3 Grey Porphyry strongly altered wk fault zone	loc thin several occurrences num slip surfaces	wk dis bx/bkn	chl _r , ser, carb loc cly	pyr vnlt 1-2 mm	-	-	-	chl _r ser (carb) (cly?)	chl _r ser carb loc cly	-	-	-	(pyr) pyr (cpy) (loc mo?)	tr	Very strong chl _r alteration, increasing perv ser alteration. Pyr 1-2%		
70.2-74.2	D3 Grey Porphyry stngly altered	loc thin	ckle/wk dis bx /bkn	chl _r , ser, (carb) (loc cly)	pyr vnlt 1-2 mm	-	-	-	chl _r ser (cly?)	chl _r ser (carb) (loc cly)	-	-	-	(pyr) (loc mo) pyr	tr	Very strong pervasive chl _r /ser, loc nearly complete ser alteration. Pyr 1-2%		
74.2-77.9	D3 Grey Porphyry stngly altered	loc thin	mod/stng bkn loc shatt/ crushed	chl _r , ser loc cly, carb	irreg carb vnlt <0.5 cm	-	-	-	chl _r ser (loc carb)	chl _r ser carb loc cly	-	-	-	(pyr?) pyr (cpy) (loc mo)	tr	Very strong pervasive chl _r /ser, locally complete ser alteration. Pyr 1-2%		
77.9-81.7	D3 Grey Porphyry Guichon contact stngly altered	loc 81.0 m ~ 5 cm at 10° C.A.	mod/stng loc bkn/shatt	chl _r , ser, carb loc cly	heal'd fract w/pyr	-	-	-	chl _r ser (carb) (bio)	chl _r ser carb loc cly	-	-	-	(mo?) cpy pyr	tr	Porphyry/Guichon contact broken 78.6 m. Slight decrease in intensity of chl _r alteration. Strong cpy on fractures below contact. Cpy>pyr.		
81.7-85.6	Guichon mottled green- grey	-	wk ckle/bkn	carb, chl _r , ser	chl _r healed fracts w/ pyr + cpy	-	-	-	patchy ep chl _r ser	carb chl _r ser	-	-	-	cpy pyr (mo)	wk	Loc fresh, black (secondary) biotite. Continued decrease in pervasive hydrothermal alteration: increasingly competent.		
85.6-89.9	Guichon mottled green- grey, loc pink speckled	?	wk/mod loc bkn	carb, chl _r , ser (loc cly?)	chl _r healed fracts w/ pyr + cpy carb vnlt 1-5 mm ~ 35° C.A.	-	-	-	(carb) chl _r (loc ser)	carb chl _r ser (loc cly?)	-	-	-	cpy pyr (mo)	wk/ mod	Guichon locally fresh and little or unaltered with black biotite. Chl _r healed fracts much less decomposed than previous intervals.		
89.9-93.1	Guichon mottled green grey	loc thin	mod/stng loc bkn/shatt	(loc cly) chl _r , ser, carb	wk healed fracts w/ pyr + cpy	-	-	-	chl _r ser (carb)	chl _r ser carb (loc cly)	-	-	-	(pyr) cpy pyr	tr	Loc fresh (secondary) biotite. Patchy strong pervasive ser alteration. Chl _r alteration intensity increasing.		
93.1-97.6	Guichon grey/grn-grey loc pink mottled	-	mod/stng bkn	chl _r , ser	chl _r healed fracts w/ (pyr) + cpy	-	-	-	chl _r loc ser	chl _r ser	-	-	-	(cpy) (pyr) pyr cpy	tr/wk	Bleached, ser alteration envelopes on healed fractures. Cpy~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				
97.6-100.9	Guichon grey/dark grey-black loc pink mottled	-	mod/stng bkn	ser, chlr (carb)	chlr healed fracts w/ (pyr) + cpy	-	-	-	patchy- chl	ser chl	-	-	-	(cpy) (pyr)	(mo?) pyr	wk			Phenos loc ghost-like, texture suggests pervasive alteration with subsequent albination/sil?? Cpy>pyr. Local chlr clots and patches.
100.9-104.2	Guichon grey-black pink speckled	-	mod/stng loc ckle/bkn	carb, chl, ser	chl healed fracts w/ (pyr)+(cpy) qtz vnits w/ (mo) + cpy <0.5 cm ~ 40° C.A.	-	-	-	patchy- chl	carb chl	-	-	-	(pyr) cpy	cpy (mo) pyr	wk			Stain for K-spar. Irregular carb vnits <0.5 cm with cpy. Weak bleached ser alteration envelopes on healed fracts <0.5 cm
104.2-107.3	Guichon	loc w/ fault bx	bkn/shatt loc crushed	ser, chl, carb loc cly	qtz vnits <1 cm w/ mo, carb vnits <0.5cm at 30° C.A.	loc hem?	-	-	patchy chl	ser chl	-	-	-	cpy (pyr)	cpy (pyr)	tr			Patchy, mottled pervasive hem stain at bottom of interval. Cpy>>pyr. Cu grade increasing. Textural change with increased Fe-stn (or K-sp?) at 107.0 m---Porph?
107.3-110.5	Crowded Porphyry mottled red Fp-1	109.2- 110.1 m gge w/dis bx	bkn/shatt loc crushed	ser, chl loc cly, carb	qtz vnits 1 cm 40° C.A.	patchy hem?	hem	-	chl (loc ser)	ser chl carb	-	patchy hem?	hem	cpy cpy	(mo) cpy	wk			Chir selvage on qtz vns. Qtz vein at 20° with cpy and diffuse Mo cross cuts 40° C.A. qtz veins. Increasing occurrences of Mo on fracts. Textural change suggests crowded Porphyry-Crowded Feldspar Porphyry.
110.5-113.8	Crowded Porphyry mottled red Fp-1	very local	ckle/bkn, loc shatt	kao? (loc cly) ser chl, carb	chl healed fracts w/ cpy at 60° C.A. 2-5 cm spacing	patchy hem?	-	-	chl loc sil alb? (ser)	kaolin? ser chl carb	-	patchy hem	-	cpy cpy	(mo) cpy	wk			Similar texture as previous interval. Weak cpy with peacock bloom. Very thin "coatings" of cpy on fractures. Phenos loc ghost-like.
113.8-118.0	Crowded Porph, mottled red	-	ckle/dis bx bkn/shatt	ser, chl, carb (loc cly)	qtz vns <1 cm at 80° C.A. w/mo, chl healed fracts w/ cpy + (mo)	patchy hem?	-	-	ser (loc sil) patchy chl	ser chl carb (loc cly)	-	-	-	(cpy)	cpy (mo)	wk			Patchy cpy with peacock bloom. Texture and alteration generally as previous interval with weaker pervasive sil. Bears strong resemblance to Bethlehem Quartz Diorite at bottom of interval.
118.0-121.8	Crowded Porph/Guichon Fp-1 Fault Fault contact, wk fault zone	loc 119.0 m	wk dis bx/bkn loc crushed	loc cly, chl ser, carb, kao?	chl healed fracts w/ cpy, qtz vnits 50° C.A. 1 cm	patchy hem?	-	-	ser chl loc cly	ser cl carb loc cly kaolin?	-	-	-	(cpy)	cpy (pyr) (loc mo)	wk			Porph with short interval of Guich/Hyb 118.0-118.9 m. Loc hem diffusion halos around cpy. Cpy locally with peacock bloom. Aplite dykelet 0.5 cm at 90° C.A.

ROCK TYPE		FAULT	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)	GOUGE	INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
								perv.	fract.		perv	fract	perv	fract			
121.8-126.0	Guichon, grey-black, pink speckled	-	wk/mod, loc bkn/shatt	carb, ser, chlr kao?	chlr healed fracts w/ (cpy), qtz vnits to 1cm at 40 + 70° C.A.	-	(hem)	-	(chlr) patchy ser (bio)	carb ser clr kaolin?	-	(hem)	(cpy)	(cpy)	wk/ mod		Aplite dyke, 125.8 m, fracts in dyke not mineralized. Dark grey-black Guichon, pink speckled, bio ~ hbde. Chlr after biotite. Weak secondary biotite (black). Feldspars becoming dark.
126.0-130.0	Guichon, wk fault zone grey/black, pink speckled	loc	stng/bkn, loc shatt/crushed	ser, chlr, carb loc cly	chlr healed fracts, qtz vns to 1cm at 30 + 80° C.A.	-	(hem)	-	chlr (ser) (bio)	ser chlr carb loc cly	-	(hem)	(cpy)	(cpy)	wk		Dark grey-black, with lighter section 129.6-130.0 m Guichon. Patchy strong pervasive ser alteration throughout with local competent sections
130.0-133.5	Guichon pink speckled	loc 132.8 m ~ 2 cm ~ 20° C.A.	wk/mod loc ckle/bkn	ser, chlr, carb (loc cly)	chlr healed fracts // to C.A. w/pyr and cpy	-	loc hem	-	carb in gge (loc ser) (chlr)	ser chlr carb (loc cly)	-	-	-	(cpy) (pyr)	wk		Chlr/carb healed crush zone with cpy and (mo) 130.6 m ~ 2cm
133.5-137.2	Guichon pink speckled	-	mod/stng loc bkn/shatt	ser, chlr, carb (loc cly)	carb vnits at 80° C.A. chlr healed fracts at 60° C.A.	-	loc hem	-	patchy chlr (ser)	ser chlr carb (Loc cly)	-	-	(cpy)	(cpy)	wk		Possible tetrahedrite/freibercite 137.0 m on fracts. Local complete ser alteration.
137.2-140.8	Guichon/Hybrid?	-	wk/mod, loc bkn	ser, (chlr) carb	chlr healed fracts w/ cpy	-	(loc hem)	-	patchy chlr (ser)	ser (chlr) carb	-	-	(cpy)	loc cpy	wk/ mod		Diffuse dark chlr patches and banding. Increasingly comp with significant decrease in perv hydroth alteration. Aplite dykelet 140.7 m ~5.0 cm with pyr on margins.
140.8-144.6	Guichon/Hybrid?	loc thin 141.7 m w/(mo)	wk/mod loc bkn	ser, chlr, carb	qtz, carb vnits, qtz at 60° <0.5 cm	(hem) patchy & loc	(hem) patchy & loc	-	patchy chlr (ser)	ser chlr carb	-	-	(cpy)	(cpy)	mod		Light green chlr associated with qtz veins, dark chlr patches with chlr cly? patches.
144.6-148.4	Guichon/Hybrid?	loc thin	wk/mod	chlr, ser, (carb)	carb vnits ~ 0°, qtz at 30°, <1 cm	loc (hem)	-	patchy (chlr) (ser)	ser chlr (carb)	-	-	-	cpy	cpy Mo	mod		Molybdenite filling fract paralleling qtz vn at 147.7 m mo--good showing. Fract set 30, 60, 45° C.A.
148.4-152.2	Guichon	150.1 at 70° C.A. < 1 cm 151.6 at 30° C.A. < 1cm	wk/mod	ser chlr, (carb)	qtz at 20° C.A. <1 cm	-	loc patchy (hem)	-	(chlr?) (ser)	ser chlr (carb)	-	-	(pyr)	cpy (pyr) (mo)	wk/ mod		Milling area 150.1-150.5 m. Chlr healed fract, some carrying cpy. Strong chlr at ~ 148.6 m Chlr banding, core is increasingly competent. Chlr after biotite.
152.2-156.1	Guichon	-	wk	chlr, (ser) (carb)	qtz at 70° <2.5 cm carb at 30° <1 cm w/ cpy + pyr	-	-	-	(chlr) loc ep	(ser) chlr (carb)	(chlr?)	-	(pyr) assoc w/maf	(pyr) cpy (mo)	wk		Loc patchy chlr may be associated with fract. Mafics may be slightly actinolite? altered. Sulphides occurring in mafics. Chlr after biotite. Pyr ~ 0.5%

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			
156.1-159.9	Guichon	-	wk/mod	carb, ser, chl	aplite dyke at 30° <2cm at 157.1 m	-	-	-	(chl)	carb ser chl	(chl?)	-	-	(pyr) (cpy)	(mo) (cpy) pyr	wk/ mod		Chlr and pyr healed fracts with bleached envelopes. Strongest concentration of cpy associated with healed fracts. Chlr after biotite. Pyr ~ 0.5%
159.9-163.9	Guichon	3 cm at 45° C.A. at 164.4 m	wk	(carb) chl, (ser) loc cly	qtz at 30° C.A. <0.5 cm aplite at 70° C.A. <3 cm	-	-	-	(chl)	(carb) chl (ser)	(chl?)	-	-	(pyr) (cpy)	pyr cpy	mod		Pyr and cpy generally in healed fracts, very little pervasive. Chlr after biotite. Pyr ~ 0.5%.
163.9-167.6	Guichon/Hyb Grey Porph Fault? contact at 164.7 m	loc at 30° C.A. 10 cm 164.7 m	mod/stng loc bkn/shatt	ser, chl, carb loc cly	qtz vnits 0.5-2 cm at 20 + 70° C.A.	(loc hem)	-	-	chl (ser)	ser chl carb loc cly	-	(loc hem)	-	(cpy) (pyr)	pyr cpy (mo)	loc wk/ mod		Pyr and cpy occur mainly in healed fracts. Loc pervasive hem stain in chl patches. Pale to creamy grey porph with sparse mafics to 2 mm and peppering of mafics <1 mm. Feldspars anhedral to subhedral, appear poorly zoned??
167.6-172.6	Bethlehem grey Porphyry hornblende- feldspar	loc 169.7 m ~ 5 cm w/ (mo)	mod/stng, loc bkn/shatt, sets at 20° C.A.	carb, ser chl loc cly	qtz vn at 45° C.A. 2 cm, w/ (Mo) + chl core	-	-	-	chl (ser)	carb ser chl loc cly	-	-	-	(cpy) (pyr)	pyr cpy (mo)	wk		Guichon xenolith? 169.4-169.6 m. Primary occurs mainly in fracts. Hornblende-feldspar porphyry with fine grey groundmass.
172.6-176.0	Bethlehem grey Porphyry hornblende- feldspar	loc ~ 2 cm at 50° C.A. 175.6 m	wk/mod loc bkn	(loc cly), carb ser, chl	qtz vnits at 20 + 40° C.A. w/(mo) <1.0 cm	-	-	-	chl (ser)	carb ser chl (loc cly)	-	-	-	(cpy) (pyr)	pyr cpy (mo)	wk		Very loc chl healed crush zone 2-3 cm with (mo) Primary min occurs loc fine grained diss around fracts. Slight increase in mo on fracts.
176.0-180.0	Beth grey Porph/Guichon/ sharp contact 177.2 m at 60° C.A.	v loc thin 179.9 m	wk/mod sets at 50 + 70° C.A.	ser, chl, (carb)	carb vnits 45° C.A. <0.5 cm, qtz vn 1 cm 40° C.A. w/ cpy + (mo)	-	-	-	(loc chl) (ser)	ser chl (carb)	chl?	-	-	(cpy) (pyr)	pyr cpy (mo)	wk/ mod		Chlr selvage on qtz vns. Aplitic porphyry dykelets at 70° C.A. < 10 cm. Cpy>pyr. Guichon becomes pink speckled away from contact. Pyr <0.5%
180.0-184.0	Guichon loc pink speckled	-	stng/bkn loc shatt	ser, chl, (carb)(loc cly)	irreg carb vnits <1 cm	-	-	-	(chl) (ser)	ser chl (carb) (loc cly)	chl?	-	-	(cpy) (pyr)	(pyr) cpy (mo)	wk		Locally strong/nearly complete ser alteration. Aplitic porphyry dyke, 180.1 m 10-20 cm, broken, with pink apite dykelets <5 cm, at 60° C.A. above and below porph. Porph? and apite appear to be pre-mineral. Increasing perv chl/ser with depth. Local fresh (secondary) biotite at bottom of interval. Feldspars darkening. Pyr <0.5%
184.0-187.7	Guichon/Hyb/ C.A. 186.3 m	loc 184.8 m ~ 30 cm at 30° C.A.	mod/stng	loc cly, chl	irreg carb vnits <1 cm 40° C.A.	-	(loc)	-	(chl) (ser)	carb chl carb	-	-	-	(cpy) (pyr)	(pyr) cpy (mo)	wk		porphyry. Cpy and (mo) in grey qtz veinlets ~ 0.5 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.		
187.7-191.8	Porph w/ Guichon	loc 191.4 m ~ 3 cm at 20° C.A. w/ pyr + (cpy) blebs	mod/stng bkn loc shatt sets at 10-20° C.A.	loc cly, (carb) chl, ser	irreg carb vnlt	(loc hem)	-	-	chl ser (carb)	chl ser (carb) loc cly	-	-	-	pyr cpy	cpy pyr	wk/ mod	Grey porph with partially assimilated Guichon? xenoliths 15-20 cm. Increasing pervasive chl alteration with depth. Very fine grained cpy and pyr diss and dissf. Cpy>pyr. Xenoliths may be feldspar porphyry
191.8-195.8	Guichon or Fp-1? loc pink mottled	loc 192.0 m ~ 1 cm 5-10° C.A.	mod/loc stng/ bkn/shatt	loc cly, carb, ser, chl	chl healed fracts w/ (pyr)+(cpy)	-	-	-	chl loc ser (carb) loc K-sp?	carb ser chl loc cly	-	(loc hem)	-	pyr cpy (mo?)	cpy pyr	wk	More competent than previous interval. Distinct decrease in Mo on fracts. May be altered Guichon Some of this resembles feldspar porphyry (contaminated?)
195.8-197.5	Fp-1 contact at 197.5 m w/ Grey Porphyry at 60° C.A.	-	wk/mod loc bkn	chl, ser, carb	irreg carb vnlt, wk qtz micro-stkww	-	loc hem	-	chl ser (carb) loc Ksp (loc ep)	chl ser carb	-	(loc hem)	loc hem	(cpy) (pyr)	cpy (pyr) (mo?)	wk/ mod	Feldspar porphyry (Fp-1) 195.8-197.5 m. Qtz veinlets (2-3 mm) increase near contact. Local cpy with peacock tarnish on fractures.
197.5-200.2	Grey Porphyry	-	wk/mod	ser, (chl) carb	abd qtz heal'd fracts & vnlt at var angles loc w/cpy	-	-	-	(ser) (chl)	ser (chl) carb	-	tr hem	loc hem	(cpy) (pyr)	cpy pyr	tr/wk	Grey Porph/Hbde feldspar contact 197.5 m. Fp-1 appears to be impregnated by porph. Fracts in grey porph contains cpy with hem. This is probably the same porphyry as seen above at 164.7-177.2 m.
200.2-206.7	Fp-1? qtz-feldspar porphyry	v loc 203.8	mod/stng bkn loc shatt, sets at 0° C.A.	ser, chl (loc cly)	abd healed fracts at var angles w/cpy & (mo), qtz vnlt to 1cm w/ mo	(patchy hem)	-	-	K-sp ser (chl) sil	ser chl (loc cly)	-	-	-	(pyr) (cpy)	pyr cpy (Mo)	tr	Aplite dykelts and frags to 2 cm with wk min fracts Qtz vnlt with open spaces and mo in core. Loc cpy with peacock bloom? in fracts. K-sp alteration decreasing. Weak qtz stockwork.
206.7-210.5	Fp-1? qtz-feldspar porphyry	-	mod/stng bkn sets at 70° C.A.	(carb), ser, chl	abd healed fracts at var angles w/cpy + mo	(patchy hem)	-	-	(Ksp) ser (chl) sil	ser chl (carb)	-	-	-	(pyr) (cpy)	pyr cpy (mo)	wk	K-sp alteration continues to decrease. Chl/ser alteration increasing. Pyr 1%
210.5-214.1	Fp-1 mottled pink and green	-	mod/loc bkn sets at 30, 40 & 60° C.A.	ser, (chl)	heal'd fracts at var angles w/cpy, (pyr) and (mo)	-	-	-	K-sp ser (chl) sil	ser (chl)	-	-	-	(pyr) (cpy)	cpy	-	Distinct increase in pervasive K-sp? alteration. Bleached alteration envelopes on fracts to 1 cm, frequently with potassic altered margins. Pyr 1-1.5%
214.1-217.7	Fp-1 grey/green-grey, green speckled	loc thin 215.9 m	stng/bkn/shatt	(ser) (chl) (carb)	wk chl/qtz heal'd fracts w/cpy + pyr	-	-	-	ser (chl) K-sp sil	(ser) (chl) (carb)	-	-	-	(cpy) (pyr)	cpy pyr (mo)	-	Grey porph dykelet frags <5 cm 217.2 m. Cpy usually with peacock bloom. Patchy, coarse distribution of mafics suggests Beth?! Potassic alteration envelopes on most fracts. Pyr ~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			
217.7-222.3	Fp-1 fault zone grey-green	218.6- 219.2 m	stng/bkn loc shatt	as abv, loc cly	carb vnit 40° C.A. <0.5 cm vuggy	(loc hem)	-	-	patchy Ksp (chlr) ser sil	(ser) loc cly (chlr) (carb)	-	-	-	cpy pyr	(mo) pyr cpy	tr		Green-pink apite dykelet 221.7 m ~ 15 cm, bkn Intense chlr above and below gge, patchy strong chlr elsewhere. Weak qtz microstockwork.
222.3-226.1	Fp-1? or qtz-felds porphyry grey-pink/ grey-green	loc thin 223.8 m	mod/stng, loc bkn, dom. set at 70° C.A.	(ser), loc chlr	mod chlr/qtz heal'd fracts w/pyr and cpy, wk qtz micro- stkwk.	-	-	-	(chlr) ser (Ksp) sil	(ser) loc chlr	(loc hem)	-	(cpy) (pyr)	pyr cpy (loc mo)	tr		Loc strong pervasive ser. Chlr altered apite dykelets 5 to ~ 20 cm, broken. Pyr 0.5-1%.	
226.1-230.8	Fp-1 grey-pink/ grey/green	-	stng/bkn, loc shatt/ crushed	(ser) (loc chlr)	wk healed fracts w/ (cpy) + pyr	-	-	-	chlr ser patchy Ksp	(ser) (loc chlr)	-	-	(cpy) (pyr)	(cpy) pyr (loc mo)	-		Pyr>cpy on fracts, pyr increasing. Bleached sil alteration envelopes on most fracts with pyr and cpy. Fracts without S _x usually have weak alteration envelopes.	
230.8-233.8	Fp-1 grey-pink/ pink-green	-	mod/loc bkn dom set at 45° C.A.	(ser) carb	mod healed fracts w/ pyr + (cpy) wk qtz microstkwk	-	-	-	K-sp (loc chlr) ser (sil)	(ser) carb	-	-	cpy	(cpy) pyr (loc mo)	tr		Pervasive chlr decreasing. Potassic alteration increasing with depth. Pyr>cpy on fracts. Bleached alteration envelopes as above to 2 cm.	
233.8-237.7	Fp-1 fault zone	236.7- 237.7 m w/ milled clasts, ~10° C.A.	wk/mod loc bkn	ser, (chlr) (carb), cly	mod healed fracts w/ (cpy) + pyr	-	-	-	K-sp (ser) (chlr) sil?	ser (chlr) (carb) cly	(loc hem)	-	(cpy) (tr pyr)	pyr (cpy)	tr/wk		Alteration envelope to 2.0 cm usually on fracts with S _x . Cpy mainly on healed fracts. Loc biotite (secondary??). Qtz-feldspar Porphyry variation of Fp-1?	
237.7-241.1	Fp-1 fault zone	237.7- 238.6 m w/milled clasts ~10° C.A.	bkn/shatt	ser, (chlr) carb, cly	mod healed fracts w/ (cpy) & pyr	-	-	-	chlr ser	ser (chlr) carb cly	tr hem	-	(cpy) (pyr)	pyr (cpy)	-		Rock mod prepared. Pyr>cpy. Potassic alteration not evident.	
241.1-246.0	Fp-1 fault zone	242.2- 242.8 m 245.0- 246.0 m w/milled clasts ~10°	wk/mod	ser, chlr, (carb), cly	wk irreg carb vnits wk pyr vnits 1-2 mm wk qtz microstkwk	(loc hem)	-	-	chlr ser	ser chlr (carb) cly	tr hem	-	(cpy)	(mo?) pyr cpy	-		Several strong chlr altered apite dykelets <3 cm ~ 60-70° C.A. Bleached alteration envelope on S _x bearing fracts, to 2 cm. Pyr 1-2%	
246.0-249.8	Fp-1 fault zone	246.0- 246.5 m loc gge/ crush zones	mod/stng bkn loc shatt/ crushed	ser, (chlr) (carb) loc cly	abd healed fracts w/ pyr + cpy	tr hem	-	-	(chlr) ser	ser (chlr) (carb) loc cly	tr hem	-	(cpy)	cpy pyr	-		Occasional mafics with pyr. Alteration envelope on fracts as above. Pyr 1-1.5 %	

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			
249.8-253.2	Fp-1 wk fault zone	v loc thin	mod/stng bkn, loc crushed/ milled. sets at 5, 60° C.A.	ser, (chlr) (carb) (loc cly)	abd healed fracts w/ pyr + cpy wk Qtz microstkwk	tr hem	-	-	(chlr) ser sil	ser (chlr) (carb)	-	tr hem	-	cpy	cpy pyr	-	-	Slight decrease in perv chlr alteration. Pyr 0.5-1%
253.2-256.9	Fp-1 wk fault zone	loc 255.4 m ~ 2 cm	bkn/shatt, loc milled/crushed	ser, chlr, carb loc cly	abd healed fracts w/ pyr + cpy wk Qtz microstkwk	tr hem	-	-	(chlr) ser sil	ser chlr carb loc cly	-	-	-	cpy	cpy pyr	tr	-	Bleached alteration env intensity shows distinct increase over previous interval; quite siliceous Pyr 0.5-1%
256.9-260.1	Fp-1	-	stng/bkn loc shatt loc dis bx	ser, chlr, carb	heal'd fracts w/cpy+ pyr	tr hem	-	-	chlr ser (Ksp)	ser chlr carb	-	-	-	cpy	(mo?) cpy pyr	-	-	Dislocated breccia 259.4-260.1 m. Drusy calcite on fractures in dislocated breccia.
260.1-263.9	Fp-1 wk fault zone	-	dis bx/bkn loc shatt	ser, chlr, carb (loc cly)	?	tr hem	-	-	(loc Ksp chlr patchy ser	ser (chlr) carb (loc cly)	-	-	-	cpy pyr	(mo?) cpy pyr	-	-	Drusy calcite on fracts in dis bx. Primary min occurs in older healed fracts with alteration env Fracts in bx not mineralized. Pyr and cpy in bx matrix.
263.9-267.5	Fp-1	-	stng/bkn, loc shatt loc comp	ser, (chlr) loc carb	heal'd fracts w/pyr + cpy wk Qtz microstkwk	tr hem	-	-	patchy ser (chlr) loc sil	ser (chlr) loc- carb	-	tr hem	-	pyr	pyr (cpy)	-	-	Loc strong ser alteration and loc strong blch (ser/sil) sections. Mafics appear to have been chloritized and subsequently sericitized (they remain quite green, but are sericitic). Wk/mod healed fracts with pyr and (cpy) and mod/stng alteration env to 2 cm, blch with Qtz/ser.
267.5-271.1	Fp-1 pale creamy grey/mottled pink-green	-	mod/stng bkn/loc shatt	ser, (chlr) (carb)	Qtz healed fracts w/ pyr + cpy Qtz veinlets 2-4 mm	tr hem	-	-	sil ser (chlr) loc Ksp	ser (chlr) (carb) (loc Ksp)	-	tr hem	-	pyr	pyr (cpy) tr mo	-	-	Chlr/ser alteration similar to previous interval with stronger perv sil. Aplite dykelets 2 cm, 5 cm and > 5 cm with primary min in fracts. Aplites appear to have been "bent" following emplacement--- simple shear?? Qtz veinlets cross cut aplite cont- act. 1-2% pyr.
271.1-275.3	Fp-1 pale green- grey/mottled salmon pink+ green	-	wk/mod	(ser) loc chlr (carb)	wk Qtz/pyr microstkwk pyr veinlets 1-3 mm	tr hem	-	-	sil ser patchy chlr loc Ksp	(ser) loc chlr (carb) loc Ksp	-	tr hem	-	(pyr)	pyr (cpy?)	-	-	Strong increase in potassic alteration, both perv and as alteration env on fracts. Appearance suggests pot alteration may have been over- printed by chlr/ser/sil alteration episode. Wk aplite dykelets < 4 cm, seem "bent" as above. Well developed (1-1.5 cm) bleached, siliceous alteration envelopes on veinlets. 2-3% pyr.
275.3-279.2	Fp-1 green- grey/green, loc pink mottl'd	v loc thin 279.1 m	wk/mod loc bkn/shatt some slip. sets at 50 & 60° C.A.	ser, chlr, carb (loc cly)	mod Qtz veinlets 1-2 mm w/pyr	-	-	-	sil_ser patchy chlr loc Ksp	ser chlr (carb) loc Ksp	-	tr hem	-	(pyr)	pyr (cpy?)	-	-	Sudden decrease in pot alteration---generally restricted to alteration env on fracts---otherwise similar to above. Chlr strongest on slip surfaces 1-2%

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			
279.2-282.8	Fp-1 fault zone	loc ~ 4cm 10° C.A. 281.5 m + loc thin 280.1 m	wk/mod, loc bkn/crushed sets at 30, 40, 50, 60° C.A.	ser, chlr (carb) loc cly	mod qtz vnlt 1-2 mm w/pyr subparallel	-	-	-	loc sil ser patchy chlr (carb)	ser chl (carb) loc cly	-	-	-	(pyr)	pyr (mo) (cpy?)	-	-	Loc strong/complete ser alteration below 281.5 m Healed fracts at 0° C.A. with pyr and ~ 2 cm bleached alteration envelopes. 2-3% pyr.
282.8-286.8	Fp-1 fault zone	286.3- 286.7 m 10-20° C.A.	wk/mod, bkn/ crushed below 285.6, sets at 40 + 50° C.A.	ser, loc chlr carb	num qtz healed fracts w/ (pyr)	-	-	-	(carb) loc sil ser chl Ksp	carb ser loc chl (loc Ksp)	(loc hem)	-	(pyr)	tr cpy (loc cpy)	-	-	Healed crush zone 284.6m, ~ 30° C.A., with qtz/carb vnlt and fracs, cpy, pyr and hem blebs. Pot alteration env, ~0.5 cm on healed fracs. Aplite dykelets 2-3 cm; quite green. Pyr 1-1.5 %	
286.8-290.9	Fp-1 fault zone	287.9- 288.5 m & loc below 288.5 m	int/gge, loc fault bx	ser, loc chl (carb) loc cly	wk healed fracts w/ (pyr)	-	-	-	carb in gge (loc sil) ser chl cly	ser loc chl (carb) loc cly	-	-	(pyr)	cpy? (loc cpy)	-	-	Dominant fract at or about 0° C.A., with sense of slip at 90° C.A. Loc sting/complete ser alteration where crushed.	
290.9-294.6	Fp-1 wk fault zone	loc 2 cm 291m, ~ 40° C.A. 291.4 m 1 cm at ~ 20° C.A.	mod/stng, loc bkn	ser, loc chl carb (loc cly)	wk/mod heal'd fracs w/pyr (cpy?)	-	-	-	patchy Ksp sil ser patchy chl	loc Ksp ser loc chl carb loc cly	tr hem	-	(pyr)	pyr (cpy?) (mo)	loc wk	-	Patchy K-sp increasing with depth. Perv sil increasing with depth. Cross cutting and parallel & subparallel to core axis qtz veinlets and qtz/pyr veinlets 1-2 mm with 0.5-1.5 cm, bleached, sili- ceous alteration envelopes. Pyr 0.5-1%	
294.6-298.7	Fp-1 salmon pink green speckl'd	-	mod/stng bkn/shatt	ser, (loc chl)	wk healed fracts with pyr	(loc hem)	tr hem	-	Ksp sil ser chl loc ep	Ksp ser (loc chl) (carb)	(loc hem)	-	(pyr)	tr cpy (cpy?)	wk	-	Locally diffuse ep blebs in stng bleached (alb?/sil) section 297.3 m. Several small aplite dykelets to 2 cm, ~ 60-70° C.A.	
298.7-302.0	Fp-1 crush zone	-	bkn/shatt loc crushed	ser, (loc chl) carb, (loc cly?)	wk qtz healed fracs w/pyr.	-	(loc hem)	-	patchy Ksp chl loc sil ser	ser (loc chl) carb (loc cly?)	-	-	(pyr)	pyr (cpy?)	wk	-	Perv K-sp at top of interval grading to perv chl/ ser/loc sil and fracs with K-sp alteration env with depth. Rock appears, at times, more convincingly porphyritic (crowded). Pyr ~ 0.5%	
302.0-306.0	Fp-1	loc 302.3- 302.8 m, ~ 1 cm, 5-10° C.A.	wk/mod	ser, (loc chl) (carb) (cly in gge)	wk qtz/pyr vnlt 1-2mm	-	-	-	Ksp bio? (chl) ser sil	ser (loc chl) (carb) (cly in gge)	-	-	tr pyr	(pyr)	wk	-	Gge at 5-10° C.A. with sense of slip perpendicular to C.A. Strong locally bleached (qtz/ser) env on fracts near gge and bounding slip surface, with qtz/Ksp/ser margins. Irregular aplitic porph dykelets 1-2 cm, 303.5-303.8m, "bent" and dis- continuous in competent core. Stain for K-spar.	

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				
306.0-309.0	Fp-1	some slip	bkn/shatt	ser, (loc chlr)	-	-	-	-	Ksp	ser	-	-	-	tr pyr	(pyr)	wk			Biotite becomes strongly chloritized with depth. Chlr on fracta occurs mainly on slip surfaces. Biotite-qtz-feldspar porphyry. Stain for K-spar appears quite monzonitic.
309.0-313.9	Fp-1		wk	ser, loc carb	wk qtz vnls	-	-	-	Ksp	ser	-	-	-	tr pyr	pyr	wk/ mod			Patchy "fresh"/wk chlr altered biotite with intervals of strong chlr altered biotite. Aplite dykes 2 cm at 40° C.A. 5 + 18 cm at 90° C.A. Aplitic porph dyke 5 cm at 80° C.A. Qtz/K-sp/(ser) env on vnls and fracta at 0-10° C.A. 1-2 cm vertical offset on large aplite dyke.
EOH 313.9 m									bio?	(loc chlr)									
									ser										
									sil										

DDH95-19

Northing: 5603957.4			DDH 95-19					Azimuth: 045	
Easting: 641642.6			Elevation: 1718.5 m					Inclination: -75	
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
19319	9.1	10.6	0.18	0.04	-	-	5	-	Guich./Hyb./Porph.:
19320	10.6	12.1	0.17	-	0.3	0.01	5	<.001	contact 11.0 m
19321	12.1	13.6	0.09	-	0.1	<.01	5	<.001	Beth.?, grey
19322	13.6	15.1	0.07	-	0.2	0.01	5	<.001	Porphyry:
19323	15.1	16.6	0.09	-	0.1	<.01	5	<.001	ckle. Bx/bkn./shatt.
19324	16.6	18.1	0.09	-	0.1	<.01	5	<.001	"
19325	18.1	19.6	0.07	-	0.1	<.01	5	<.001	"
19326	19.6	21.1	0.08	-	0.1	<.01	5	<.001	"
19327	21.1	22.6	0.11	-	0.1	<.01	5	<.001	"
19328	22.6	24.1	0.13	-	0.1	<.01	5	0.001	"
19329	24.1	25.6	0.13	-	0.1	<.01	5	0.001	"
19330	25.6	27.1	0.10	-	0.1	<.01	5	0.001	"
19331	27.1	28.6	0.12	-	0.2	0.01	5	0.002	"
19332	28.6	30.1	0.08	-	0.1	<.01	5	0.002	"
19333	30.1	31.6	0.09	-	0.1	<.01	5	0.002	"
19334	31.6	33.1	0.09	-	0.1	<.01	5	0.002	"
19335	33.1	34.6	0.08	-	0.1	<.01	5	0.003	"
19336	34.6	36.1	0.09	-	0.1	<.01	5	0.003	"
19337	36.1	37.6	0.07	-	0.1	<.01	5	0.002	"
19338	37.6	39.1	0.06	-	0.1	<.01	5	0.001	"
19339	39.1	40.6	0.06	-	0.1	<.01	5	0.002	"
19340	40.6	42.1	0.07	-	0.1	<.01	5	0.003	"
19341	42.1	43.6	0.08	-	0.1	<.01	5	0.001	"
19342	43.6	45.1	0.10	-	0.1	<.01	5	0.002	"
19343	45.1	46.6	0.08	-	0.1	<.01	5	0.002	"
19344	46.6	48.1	0.07	-	0.1	<.01	5	0.001	Beth.?, grey Porph./
19345	48.1	49.6	0.07	-	0.1	<.01	5	0.002	Guich./Hyb.:contact
19346	49.6	51.1	0.08	-	0.1	<.01	5	0.008	Guich./Hyb./Porph.
19347	51.1	52.6	0.11	-	0.1	<.01	5	0.006	"
19348	52.6	54.1	0.10	-	0.1	<.01	5	0.001	Guichon/Hybrid:
19349	54.1	55.6	0.11	-	0.1	<.01	5	0.002	wk./mod./bkn.
19350	55.6	57.1	0.10	-	0.2	0.01	5	0.002	"
19351	57.1	58.6	0.11	-	0.1	<.01	5	0.005	Guich./Hyb./grey
19352	58.6	60.1	0.10	-	0.1	<.01	5	0.003	Porphyry
19353	60.1	61.6	0.16	-	0.1	<.01	5	0.008	Grey Porphyry:
19354	61.6	63.1	0.09	-	0.1	<.01	5	0.007	stng./ckle./bkn.
19355	63.1	64.6	0.11	-	0.1	<.01	5	<.001	"
19356	64.6	66.1	0.59	-	2.6	0.08	5	0.178	"
19357	66.1	67.6	0.22	-	1.1	0.03	5	0.001	"
19358	67.6	69.1	0.24	-	0.2	0.01	5	0.055	"
19359	69.1	70.6	0.17	-	0.5	0.02	5	0.079	"
19360	70.6	72.1	0.14	-	0.5	0.02	5	0.026	"
19361	72.1	73.6	0.16	-	1.0	0.03	5	0.102	"
19362	73.6	75.1	0.60	-	0.9	0.03	5	0.034	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
19363	75.1	76.6	0.42	-	0.2	0.01	5	0.004	Grey Porphyry:
19364	76.6	78.1	0.47	-	0.4	0.01	5	0.017	stng./ckle./bkn.
19365	78.1	79.6	0.77	-	0.9	0.03	5	0.007	Grey Porph./Guich./
19366	79.6	81.1	0.94	-	1.1	0.03	5	0.007	Hyb. contact 78.6 m
19367	81.1	82.6	0.74	-	0.8	0.02	5	0.006	Guichon/Hybrid:
19368	82.6	84.1	0.57	-	0.5	0.02	5	0.004	mod./stng., loc. bkn./
19369	84.1	85.6	0.76	-	0.7	0.02	5	0.007	shatt.
19370	85.6	87.1	0.39	-	0.6	0.02	5	0.008	"
19371	87.1	88.6	0.59	-	0.7	0.02	5	0.002	"
19372	88.6	90.1	0.67	-	0.8	0.02	5	0.007	"
19373	90.1	91.6	0.77	-	0.9	0.03	5	0.015	"
19374	91.6	93.1	0.60	-	0.5	0.02	5	0.006	"
19375	93.1	94.6	0.48	-	0.3	0.01	5	0.003	"
19376	94.6	96.1	0.76	-	0.7	0.02	5	0.005	"
19377	96.1	97.6	0.49	-	0.6	0.02	5	0.009	"
19378	97.6	99.1	0.60	-	0.6	0.02	5	0.005	"
19379	99.1	100.6	0.69	-	0.7	0.02	5	0.007	"
19380	100.6	102.1	0.52	-	0.5	0.02	5	0.007	"
19381	102.1	103.6	0.69	-	0.7	0.02	5	0.006	"
19382	103.6	105.1	0.75	-	0.4	0.01	5	0.006	"
19383	105.1	106.6	0.73	-	0.2	0.01	5	0.004	"
19384	106.6	108.1	0.52	-	0.2	0.01	5	0.013	Guich./Hyb./crowded
19385	108.1	109.6	0.31	-	0.1	<.01	5	0.010	Porph. contact 107.0 m
19386	109.6	111.1	0.43	-	0.1	<.01	5	0.020	Crowded Porphyry:
19387	111.1	112.6	0.39	-	0.1	<.01	5	0.001	bkn./shatt.
19388	112.6	114.1	0.42	-	0.1	<.01	5	0.006	"
19389	114.1	115.6	0.76	-	0.2	0.01	5	0.010	"
19390	115.6	117.1	0.42	-	0.1	<.01	5	0.049	Crowded Porph./
19391	117.1	118.6	0.43	-	0.1	<.01	5	0.036	Guich./Hyb. fault
19392	118.6	120.1	0.35	-	0.1	<.01	5	0.025	contact 119.0 m
19393	120.1	121.6	0.42	-	0.2	0.01	5	0.007	Hybrid
19394	121.6	123.1	0.31	-	0.1	<.01	5	0.033	"
19395	123.1	124.6	0.30	-	0.2	0.01	5	0.008	"
19396	124.6	126.1	0.32	-	0.1	<.01	5	0.005	"
19397	126.1	127.6	0.36	-	0.1	<.01	5	0.023	Hybrid: wk fault zone
19398	127.6	129.1	0.40	-	0.1	<.01	5	0.010	"
19399	129.1	130.6	0.54	-	0.2	0.01	5	0.004	Guichon/Hybrid
19400	130.6	132.1	0.21	-	0.2	0.01	5	0.009	"
19401	132.1	133.6	0.45	-	0.3	0.01	5	0.004	"
19402	133.6	135.1	0.33	-	0.1	<.01	5	0.007	"
19403	135.1	136.6	0.39	-	0.3	0.01	5	0.005	"
19404	136.6	138.1	0.48	-	0.3	0.01	5	0.001	"
19405	138.1	139.6	0.38	-	0.2	0.01	5	0.001	"
19406	139.6	141.1	0.43	-	0.4	0.01	5	0.045	"
19407	141.1	142.6	0.29	-	0.2	0.01	5	0.033	"
19408	142.6	144.1	0.33	-	0.1	<.01	5	0.004	"
19409	144.1	145.6	0.36	-	0.2	0.01	5	0.011	"

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
19410	145.6	147.1	0.58	-	0.4	0.01	5	0.018	"
19411	147.1	148.6	0.62	-	0.5	0.02	5	0.016	"
19412	148.6	150.1	0.35	-	0.3	0.01	5	0.009	"
19413	150.1	151.6	0.51	-	0.2	0.01	5	0.002	"
19414	151.6	153.1	0.39	-	0.1	<.01	5	0.002	"
19415	153.1	154.6	0.35	-	0.1	<.01	5	0.013	"
19416	154.6	156.1	0.44	-	0.2	0.01	5	0.004	"
19417	156.1	157.6	0.62	-	0.2	0.01	5	0.003	"
19418	157.6	159.1	0.50	-	0.3	0.01	5	0.016	"
19419	159.1	160.6	0.42	-	0.2	0.01	5	0.008	"
19420	160.6	162.1	0.52	-	0.3	0.01	5	0.001	"
19421	162.1	163.6	0.50	-	0.3	0.01	5	0.004	Guich/Hyb/gry.porph.
19422	163.6	165.1	0.41	-	0.1	<.01	5	0.007	Fault contact 164.7 m
19423	165.1	166.6	0.41	-	0.1	<.01	5	0.039	Beth. grey Porph.
19424	166.6	168.1	0.36	-	0.1	<.01	5	0.003	"
19425	168.1	169.6	0.35	-	0.1	<.01	5	0.006	"
19426	169.6	171.1	0.40	-	0.1	<.01	5	0.007	"
19427	171.1	172.6	0.41	-	0.1	<.01	5	0.003	"
19428	172.6	174.1	0.32	-	0.1	<.01	5	0.003	"
19429	174.1	175.6	0.40	-	0.1	<.01	5	0.011	Porphyry/Guich/Hyb.
19430	175.6	177.1	0.38	-	0.1	<.01	5	0.003	sharp contact 177.2 m
19431	177.1	178.6	0.68	-	0.2	0.01	5	0.007	Guichon/Hybrid
19432	178.6	180.1	0.72	-	0.2	0.01	5	0.001	"
19433	180.1	181.6	0.37	-	0.1	<.01	5	0.003	"
19434	181.6	183.1	0.40	-	0.1	0.00	5	0.003	"
19435	183.1	184.6	0.72	-	0.2	0.01	5	0.005	"
19436	184.6	186.1	0.57	-	0.2	0.01	5	0.005	Guich/Hyb/Porphyry
19437	186.1	187.6	0.51	-	0.1	<.01	5	0.004	sharp contact 186.3 m
19438	187.6	189.1	0.33	-	0.1	<.01	5	0.003	Porphyry w/ Guich.
19439	189.1	190.6	0.24	-	0.1	<.01	5	0.003	xenoliths
19440	190.6	192.1	0.79	-	0.3	0.01	5	0.004	"
19441	192.1	193.6	0.76	-	0.3	0.01	5	0.007	Guichon/Hybrid
19442	193.6	195.1	0.60	-	0.1	<.01	5	0.003	"
19443	195.1	196.6	0.44	-	0.2	0.01	5	0.005	"
19444	196.6	198.1	0.33	-	0.1	<.01	5	0.003	Guich/Hyb/grey
19445	198.1	199.6	0.20	-	0.2	0.01	5	0.001	porphyry
19446	199.6	201.1	0.24	-	0.2	0.01	5	0.001	
19447	201.1	202.6	0.17	-	0.1	<.01	5	0.002	
19448	202.6	204.1	0.46	-	0.2	0.01	5	0.005	
19449	204.1	205.6	0.56	-	0.1	<.01	5	0.019	
19450	205.6	207.1	0.24	-	0.1	<.01	5	0.010	
19451	207.1	208.6	0.22	-	0.1	<.01	5	0.001	
19452	208.6	210.1	0.14	-	0.1	<.01	5	<.001	
19453	210.1	211.6	0.23	-	0.1	<.01	5	0.006	
19454	211.6	213.1	0.28	-	0.1	<.01	5	0.001	
19455	213.1	214.6	0.30	-	0.1	<.01	5	0.005	
19456	214.6	216.1	0.23	-	0.1	<.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							
19457	216.1	217.6	0.24	-	0.1	<.01	5	<.001	
19458	217.6	219.1	0.21	-	0.1	<.01	5	0.006	
19459	219.1	220.6	0.27	-	0.1	<.01	5	0.001	
19460	220.6	222.1	0.23	-	0.1	<.01	5	0.004	
19461	222.1	223.6	0.17	-	0.1	<.01	5	0.009	
19462	223.6	225.1	0.17	-	0.1	<.01	5	0.007	
19463	225.1	226.6	0.15	-	0.1	<.01	5	<.001	
19464	226.6	228.1	0.16	-	0.1	<.01	5	<.001	
19465	228.1	229.6	0.14	-	0.1	<.01	5	0.014	
19466	229.6	231.1	0.16	-	0.1	<.01	5	0.005	
19467	231.1	232.6	0.21	-	0.1	<.01	5	<.001	
19468	232.6	234.1	0.08	-	0.1	<.01	5	0.005	
19469	234.1	235.6	0.02	-	0.1	<.01	5	<.001	
19470	235.6	237.1	0.08	-	0.1	<.01	5	<.001	
19471	237.1	238.6	0.09	-	0.1	<.01	5	0.003	
19472	238.6	240.1	0.06	-	0.1	<.01	5	<.001	
19473	240.1	241.6	0.07	-	0.1	<.01	5	<.001	
19474	241.6	243.1	0.09	-	0.2	0.01	5	0.004	
19475	243.1	244.6	0.08	-	0.1	<.01	5	<.001	
19476	244.6	246.1	0.18	-	0.1	<.01	5	0.004	
19477	246.1	247.6	0.05	-	0.2	0.01	5	0.003	
19478	247.6	249.1	0.04	-	0.1	<.01	5	0.001	
19479	249.1	250.6	0.05	-	0.1	<.01	5	<.001	
19480	250.6	252.1	0.04	-	0.1	<.01	5	<.001	
19481	252.1	253.6	0.08	-	0.1	<.01	5	<.001	
19482	253.6	255.1	0.15	-	0.1	<.01	5	0.001	
19483	255.1	256.6	0.05	-	0.1	<.01	5	<.001	
19484	256.6	258.1	0.13	-	0.1	<.01	5	<.001	
19485	258.1	259.6	0.04	-	0.1	<.01	5	<.001	
19486	259.6	261.1	0.07	-	0.1	<.01	5	<.001	
19487	261.1	262.6	0.05	-	0.1	<.01	5	<.001	
19488	262.6	264.1	0.05	-	0.1	<.01	5	<.001	
19489	264.1	265.6	0.07	-	0.1	<.01	5	0.001	
19490	265.6	267.1	0.07	-	0.1	<.01	5	<.001	
19491	267.1	268.6	0.07	-	0.1	<.01	5	<.001	
19492	268.6	270.1	0.11	-	0.1	<.01	5	<.001	
19493	270.1	271.6	0.02	-	0.1	<.01	5	<.001	
19494	271.6	273.1	0.04	-	0.1	<.01	5	<.001	
19495	273.1	274.6	0.01	-	0.1	<.01	5	<.001	
19496	274.6	276.1	0.03	-	0.1	<.01	5	<.001	
19497	276.1	277.6	0.03	-	0.1	<.01	5	<.001	
19498	277.6	279.1	0.03	-	0.1	<.01	5	0.001	
19499	279.1	280.6	0.05	-	0.2	0.01	5	0.001	
19500	280.6	282.1	0.19	-	0.1	<.01	5	0.003	
22001	282.1	283.6	0.26	-	0.1	<.01	5	0.002	
22002	283.6	285.1	0.03	-	0.1	<.01	5	<.001	
22003	285.1	286.6	0.02	-	0.1	<.01	5	<.001	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22004	286.6	288.1	0.03	-	0.1	<.01	5	<.001	
22005	288.1	289.6	0.03	-	0.1	<.01	5	<.001	
22006	289.6	291.1	0.04	-	0.1	<.01	5	<.001	
22007	291.1	292.6	0.09	-	0.1	<.01	5	<.001	
22008	292.6	294.1	0.02	-	0.2	0.01	5	<.001	
22009	294.1	295.6	0.02	-	0.1	<.01	5	<.001	
22010	295.6	297.1	0.02	-	0.1	<.01	5	<.001	
22011	297.1	298.6	0.07	-	0.1	<.01	5	<.001	
22012	298.6	300.1	0.02	-	0.1	<.01	5	<.001	
22013	300.1	301.6	0.03	-	0.1	<.01	5	<.001	
22014	301.6	303.1	0.02	-	0.1	<.01	5	<.001	
22015	303.1	304.6	0.02	-	0.2	0.01	5	<.001	
22016	304.6	306.1	0.01	-	0.1	<.01	5	<.001	
22017	306.1	307.6	0.01	-	0.1	<.01	5	<.001	
22018	307.6	309.1	0.01	-	0.2	0.01	5	<.001	
22019	309.1	310.6	0.02	-	0.1	<.01	5	<.001	
22020	310.6	312.1	0.06	-	0.1	<.01	5	<.001	
22021	312.1	313.9	0.02	-	0.1	<.01	5	<.001	
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.										
DDH #	DH95-20	Date	03-Oct	Relogged?:	W.Verne Niessen	Logged by	VN	Elevation	1718.5 m	Azimuth	045	Feb 28/96	Northing:	5603957.4	Inclination	-50	Length	197.4 m	Easting:	641642.6
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						
15.9-19.1	Guichon/Hyb?		wk/mod, loc bkn/crushed	ser, carb, (loc chlr), loc cly, (kao?)	wk, irreg carb vnlt	loc Fe: jar	Fe: jar, goe?	Fe, ser	ser	ser			Fe-Mn oxides	tr	pyr	tr	H ₂ SO ₄ wk (+ve) on Mn spots on fracts. Local chlr banding and patches with diffuse ep bands. Loc stng/complete ser alteration. Patchy fresh (secondary??) biotite, where more competent. Bleached (qtz/ser) alteration envelopes on fracts <0.5 cm.			
19.1-22.4	Guichon/Hyb? fault zone	21.9-22.2m	bkn/shatt, loc crushed	ser, carb, loc cly, (chlr?)	wk chlr/qtz heal'd fracts w/pyr	loc Fe: jar	Fe: jar, goe?	Fe, ser	loc ep carb	ser carb			Fe-Mn oxides	tr	pyr	pyr	Very strong/complete hydrothermal alteration and weathering, possible local kaolin. Pyr increasing with depth. Sharp decrease in Fe-Mn oxides below 21.3 m.			
22.4-25.8	Guichon/Hyb? Porph? fault zone	intermittent thru most of interval	fault bx/gge	ser, carb, cly chlr	carb frags heal'd fracts w/pyr + (cpy); pyr vnlt 1-2 mm (weak)	-	-	?	carb	ser carb					loc pyr	pyr (cpy)	Out of oxide zone. Strongly altered Guichon/Hyb? with possible strongly altered breccia clasts of porphyry??			
25.8-29.6	Porph? Fault zone	28.8-29.2m and loc	stng, loc ckle/ dis bx	ser, carb, loc cly, chlr	irreg carb vnlt usu w/cpy blebs [heal'd fracts+qtz vnlt w/pyr + (cpy)]	-	-	-	(carb)	ser carb				patchy pyr, (cpy)	pyr loc cpy	-	Possible strongly altered porphyry? Sharp increase in healed fracts with pyr and chlr and/or qtz/ser alteration env. Later carb vnlt, usually vuggy with cpy blebs.			
29.6-33.3	Porphyry D3 (Bethlehem)	v loc 30.5 m	bkn/shatt loc crushed	ser, carb (cly)	wk irreg carb vnlt <0.5 cm	-	-	-	chlr	ser carb				cpy pyr	cpy pyr (Mo)	tr	Mafic and plag pheno distribution suggest Beth? grey porph as protolith (where least altered) Strong ser altn.			
33.3-36.6	Porphyry D3 (Bethlehem)		bkn/shatt loc crushed	ser, (cly) carb	qtz/pyr blch env qtz & ser	-	-	-	ser, qtz (chlr)	ser carb				cpy pyr	cpy pyr (Mo)	-	Very finely disseminated cpy and in fractures. Cpy>pyr, check assays.			

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			
36.6-40.0	Porphyry D3 (Bethlehem)		stng fract bkn/shatt	ser, qtz, (carb)	micro stkwk qtz + pyr bich env qtz + ser	-	-	-	ser qtz (carb) (ep)	ser qtz carb	-	-	-	pyr cpy	pyr cpy (mo)	-	-	Uniformly porphyritic [veinlet qtz/ser with pyr PTS cpy? and poss mo]. Microstockwork.
40.0-43.0	Porphyry D3 (Bethlehem)	loc gge	ckle/bkn loc shatt/ crushed	ser, cly, qtz (chlr)	irreg carb vnits, wk micro stkwk	-	-	-	ser qtz (carb) chlr- diss	ser qtz carb (loc cly)	-	-	-	pyr cpy	pyr (cpy) (mo)	tr	-	Carb in less siliceous zones, chlr altered mafics. Overall alteration intensity greater than previous interval.
43.0-46.3	Porphyry D3 (Bethlehem)		ckle/bkn, loc shatt/crushed	ser, (loc cly) carb, qtz	irreg carb micro stkwk qtz + ser w/ pyr+ (cpy)	tr hem spks	-	-	ser qtz (carb) ep & chlr spots	ser qtz (loc cly) carb	-	-	-	pyr (cpy?)	pyr (cpy)	tr/wk	-	Epidote and chlr spots, altered mafics. Phenocrysts more conspicuous.
46.3-49.4	Porphyry D3 (Bethlehem)	loc gge 49.0m	bkn/shatt	ser, qtz, carb (loc cly)	qtz, irreg carb, micro to 0.5cm carb to 1 cm	-	-	-	ser qtz chlr- spots	ser qtz carb (loc cly)	-	-	-	pyr (cpy?)	pyr (mo) (cpy?)	tr	-	Microstockwork qtz/pyr.
49.4-52.5	Porphyry D3 (Bethlehem)		stng bkn/ckle	ser, (loc chlr) qtz, carb	qtz w/pyr	-	-	-	ser qtz ep diss chlr	ser qtz carb (loc chlr)	-	-	-	pyr	pyr cpy (mo)	tr	-	Molybdenite with pyr (cpy) in fractures with qtz.
52.5-56.3	Porphyry D3 (Bethlehem)	loc thin 54.8m	stng ckle/loc bkn, loc crushed	ser, loc cly carb, qtz, chlr	qtz w/pyr + loc w/(Mo)	(patchy Fe)	-	-	ser qtz patchy ep, diss chlr	ser qtz chlr loc cly carb	-	-	-	pyr (cpy?)	(mo) pyr (cpy)	tr	-	Porphyry finer, conspicuous porphyritic.
56.3-60.0	Porphyry D3 (Bethlehem)	loc thin at 56.8 + 60m	stn bkn loc crushed	ser, carb, qtz (cly)	pyr w/qtz	loc Fe: (hem)	-	-	sil, ser patchy dis chlr ep diss	ser carb (cly) qtz	-	-	-	pyr (cpy)	pyr (mo) (cpy)	tr	-	Bleached siliceous/sericitic alteration envelope to - 1 cm on qtz/pyr veinlets.
60.0-64.4	Porphyry D3 (Bethlehem)	loc stng 60.6-70.0 m loc thin gge surfaces	stng bkn ckle/ loc crushed	ser, chlr, carb loc cly, v fgr sulph	qtz w/pyr & (cpy) & MoS ₂ , irreg carb vnits w/cpy	-	-	-	ser chlr (sil) carb in gge	ser carb chlr (chlr)	-	-	-	(cpy) (pyr)	cpy pyr (mo)	tr	-	Phenos more ghost-like, becoming more chloritic/patchy sericitic. Becoming greener, more chloritic with depth.

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
64.4-67.6	Porphyry D3 (Bethlehem)	loc thin & 64.6-64.8 m	stng bkn, loc crushed, loc fault bx	ser, cly, carb (chlrl)	carb, qtz	-	-	-	ser chlrl carb (sil) ep diss	ser carb (cly)	-	-	(cpy) pyr	cpy pyr (mo)	tr	Pyr>cpy, but cpy shows increase in carb impregnated crushed zone/irregular carb veinlets Increase chlrl. Strongly altered, phenocrysts only occasionally visible and ghost-like.		
67.6-72.2	Porphyry D3 (Bethlehem)	loc thin gge	stng bkn/shatt /ckle	ser, loc cly, carb, (chlrl)	qtz w/cpy pyr, loc MoS ₂ , micro vnits of carb &few irreg	loc hem	-	-	ser chlrl (sil) (carb)	ser loc cly carb qtz (chlrl)	-	-	pyr (cpy?)	cpy pyr (mo)	tr			
72.2-73.7	Porphyry D3 (Bethlehem)	loc gge at 73.3 m:10cm ~ 80° C.A.	stng/ckled	ser, (loc cly) (chlrl) carb, wk loc qtz	irreg carb qtz w/pyr & cpy	-	-	-	carb in gge, ser (loc sil) patchy (chlrl)	ser (chlrl) (loc cly) carb (qtz)	-	-	pyr	cpy pyr (mo?)	tr	Contact with Guichon at 73.7 m.		
73.7-76.0	Guichon	loc gge at 74.9 & 76.0 m	mod/stng loc ckle	ser, loc cly carb chlrl	carb irreg to 1 cm, qtz pyr & cpy microstkwk	-	-	-	chlrl ser (loc sil)	ser chlrl carb (loc cly)	-	-	pyr (tr cpy)	cpy pyr	tr/wk	Cpy increasing but pyr>cpy.		
76.0-79.9	Guichon fault	loc gge in 76.0-77.5 m	top intense lower mod/ bkn	ser, chlrl, carb cly in gge	carb fract & bx inf, qtz vnits w/ser & cpy & pyr to 1 cm	-	-	-	carb in gge ser patchy chlrl	ser chlrl carb loc cly	-	-	pyr cpy	pyr cpy	tr/wk	Crush/gouge - 76.0-77.5 m. Pyr>cpy D3 Porphyry dykelet 78.0 m ~ 30 cm.		
79.9-83.5	Guichon	loc thin gge 81.3 at 4 cm	mod/stng loc crushed	ser, chlrl, carb (loc cly)	carb micro vnits. (wk qtz vnits) loc broad void in filling	-	-	-	(loc ep patchy) chlrl ser	ser carb (loc cly) chlrl	(tr hem)	-	pyr tr mag cpy	pyr cpy (mo)	mod	Ser loc strong to near complete ser altn, possible cly. Magnetite increasing, black biotite appearing		
83.5-87.1	Guichon/Hyb loc xenoliths	loc thin gge 1-2 cm at 40° C.A.	mod/loc bkn scatt crushed	(loc cly) chlrl, ser, carb	wk carb vnits, chlrl fracts w/ pyr + cpy	-	-	-	patchy- ser (ep) (loc K-sp?)	ser chlrl carb (loc cly)	-	-	pyr cpy	pyr cpy	mod	Very fine grained cpy.		
87.1-90.7	Guichon/Hyb Fault zone fault bx with porph frags & xenoliths	89.9-90.3 m gge	fault bx stng bkn/shatt/loc int/gge	carb, ser, loc cly (chlrl)	carb bx in- filling & fract infilling, qtz vnits	-	-	-	chlrl carb ser	ser (chlrl) carb loc cly	-	-	cpy pyr	cpy pyr	mod/ stng	Noted thin mafic porphyry (lamprophyric?) dyke. Strong magnetite. Check Au assay!!!		

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
90.7-94.7	Hybrid zone, fault zone polymictic mafic rich, mottled perv altn	91.5-91.9 loc gge	mod loc bkn/ crushed/loc gge	chl, ser, loc cly gge, carb gge and fracts.	irreg carb qtz vnits carb to 1cm tr mo & cpy	-	-	-	chl loc ser wk Ksp bio	chl ser qtz carb	-	hem	cpy pyr (mo)	cpy pyr	wk/ mod	Patchy magnetite. Check Au assay. Black secondary biotite.		
94.7-98.0	Hybrid zone wk fault zone	loc gge	mod/stng, loc bkn/crushed loc gge	chl, ser, loc cly gge, carb gge, & fracts	irreg carb vnits. qtz to 1cm	-	-	-	chl ser carb (bio)	chl ser carb qtz	-	-	cpy pyr	pyr cpy	wk	Noted hematitic fragments - pyr and cpy very fine grained diss and in fracts. Cpy-pyr. Intervals of strngly altered D3? porphyry. Alteration makes identification difficult.		
98.0-102.0	Guichon w/ Fp-1?	loc thin	mod, loc bkn/ crushed	ser, chl, carb cly in gge	irreg carb vnits; wk qtz to 1cm w/(cpy)	-	-	-	chl ser carb (K-sp) bio	ser chl carb cly in gge	-	-	pyr cpy	pyr cpy	wk/ mod	Patchy fresh/weakly altered biotite. Pyr and cpy occur similar to above. Local carb void filling. Check for Au assay. Possible feldspar porphyry strongly altered - does not quite resemble Guichon Quartz Diorite.		
102.0-106.0	Guichon/Hyb mafic rich, mottled perv altn, loc pink speckled	-	wk/mod	ser, chl, carb	wk carb to 1cm at 60° wk qtz to 1 cm at 60° w/pyr + cpy	-	-	-	patchy chl loc ser bio	ser chl carb	-	(hem)	pyr (cpy)	pyr cpy	wk/ mod	Carb vnits post date qtz vnits. Perv altn intensity decreasing. Loc carb impregnation (near carb vnits) with stng ser altn. Wk chl/(qtz) healed fracts with pyr and (cpy). Perv pyr and cpy very fine grained----check assays. Patchy black secondary biotite.		
106.0-109.8	Guichon/hyb wk fault zone mottled perv alteration	loc	mod, loc int/ bkn/crushed	ser, chl, carb loc cly	irreg carb vnits, wk qtz vnits w/ pyr + (cpy)	-	-	-	patchy chl ser bio	ser chl carb loc cly	-	(hem)	(pyr) (cpy)	pyr (cpy)	tr/wk	Sharp increase in perv alteration intensity. Loc carb void filling. Wk/patchy black biotite.		
109.8-113.7	Crowded Porphyry? Fp-1?	v loc thin	bkn/shatt loc crushed, some slip	ser, chl, carb	wk qtz w/ (mo) + cpy irreg carb vnits	-	-	-	ser chl (loc carb)	ser chl carb	-	-	cpy pyr	pyr cpy (Mo)	mod	Hybrid/Crowded Porph? contact at 110.7m Texture of porph suggests Beth phase---perv brown-orange/green colour suggest possible hornfels!!!! Loc black bio (secondary???) in Hyb at top of interval. Wk altn env on fracts. Specimen taken for PTS 112.3m Check Au assay.		
113.7-117.9	Crowded Porphyry? Hornfels?? brown-orange /green mottled Fp-1?	loc ~ 10 cm ~ 30° C.A. 117.2 m	mod/loc stng/bkn	ser, carb, chl	wk qtz vnits w/cpy +pyr chl healed fracts w/ cpy +pyr; irreg carb vnits	-	-	-	ser patchy chl Ksp?	ser carb chl	?	-	cpy pyr	cpy pyr (Mo)	wk	Cpy and (mo) in weak qtz vnits with blch alteration env. Loc carb healing/impregnation in crush zone 117.2 m ~ 10 cm. Stain for K-sp. Very fine grained disseminated magnetite. **Possibly Fp-1 (Feldspar Porphyry) similar to that in 95-28, 96-8.		
117.9-120.9	Beth Crowded Porphyry? Fp-1?	-	mod/stng, loc bkn/shatt	ser, qtz, chl carb	qtz to 1 cm w/ (Mo) & cpy core, chl healed fracts--	-	v loc red hem coating	-	(ser) loc chl (loc Ksp)	ser qtz chl carb	chl?	loc hem w/cpy	pyr (cpy)	pyr cpy	wk/ mod	Magnetite as above. Beginning to resemble Beth phase in previous DDH (95-19). Stain for K-sp. Sharp increase in cpy in qtz vnits. Phenos locally ghost-like. Plainly identifiable as Fp-1. Alteration considerably decreased.		

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.
120.9-125.1	Bethlehem Crowded Porph? Fp-1 contact 124.6	loc at bottom of interval	mod, loc stng/ bkn	ser, chlr (qtz) carb, (loc cly)	wk micro stkwk loc micro stkwk, qtz w/(mo) + cpy	-	v loc red hem in carb	-	loc Ksp patchy- ser	ser, chl (qtz) carb (loc cly)	?	-	loc hem w/cpy	cpy pyr (Mo)	cpy pyr (Mo)	mod		Stng hem stn carb in fract at top of interval. Qtz/ carb healed crush/bx aone with cpy and pyr, vuggy. Grey-green porph? dyke, pre-mineral 122.6-123.2 m with disseminated mag and (cpy) Wallrock is bleached and phenocrysts ghost-like above and especially below dyke. Speciment taken for TS 124.4 m.	
125.1-128.6	Hybrid zone, loc pink speckled mafic rich	loc 127.6 m	mod, loc bkn/ shatt, loc crushed	ser, chlr, carb	1 cm qtz w/ alb altn env loc micro stkwk	-	-	-	loc alb ser (chl)	ser chl carb	chl	-	-	pyr cpy	pyr cpy	wk/ mod		Grey-brown porphyry dyke, shattered 127.5 m. Local alb alteration association with qtz veins.	
128.6-132.8	Guichon/Hyb? patchy perv atln, loc pink speckled	loc thin 131.4 m, num slip surfaces	mod, loc bkn/ crushed	ser, chlr, carb cly in gge	chl healed fracts, qtz vnits, wk irreg carb vnits	-	-	-	loc chl patchy ser (cly?)	ser chl carb cly in gge	-	-	-	pyr cpy	pyr cpy (mo?)	wk		Very fine grained dissp cpy and pyr. Cpy>pyr---- check assays. Diss magnetite.	
132.8-136.6	Guichon/Hyb? patchy perv altn		mod/stng, bkn/shatt	ser, loc chl carb	loc micro- stkwk; qtz to 2 cm w/ (mo) + cpy cores	-	loc hem stn ser	-	loc ser loc chl (bio)	ser loc chl carb	-	loc hem	-	cpy pyr	cpy pyr (mo)	tr/wk	3112	Loc black biotite. Phenos loc ghost-like. Chl patches and banding (loc) with hem-stn. Increase in cpy and mo in qtz veins.	
136.6-140.7	Guichon/Hyb stng perv chl altn: green	loc 140.3- 140.6 m at 40° C.A.	mod/stng loc bkn/crushed	chl, ser, carb cly in gge	qtz to 1cm w/cpy + (mo)	-	-	-	chl ser	chl ser carb cly in gge	-	-	-	pyr cpy	pyr cpy (mo)	tr/wk		Very loc strong pyr and cpy as blebs in qtz veins Very fine grained dissp cpy and pyr.	
140.7-144.9	Guichon/Hyb loc pink spkld	some slip	wk/mod	ser, chl, carb cly in gge	wk qtz and carb to 1cm at 20 + 70° C.A. num chl healed fracts	-	loc hem	-	(loc cly) loc chl (ser)	ser chl carb	-	-	-	(cpy) (pyr)	pyr cpy	mod		Disseminated magnetite.	
144.9-148.5	Hybrid Zone	loc 1 cm, 147.0 m 20° C.A.; + slip surfcs	wk/mod, loc bkn/crushed	ser, chl, carb cly in gge	irreg carb wk qtz vnits chl healed fracts, w/ pyr + cpy	-	hem in carb vnits	-	chl ser loc carb loc cly (bio)	chl ser loc cly carb	-	-	hem in carb vnits	(cpy) (pyr)	pyr cpy	mod		Patchy black biotite. Irregular carb vnits and carb impregnation with strong hem stain at bottom of interval. Qtz/ser altn env on healed fracts. Inc- crease in perv hydrothermal altn intensity---strong chl/ser at bottom.	

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			
148.5-151.8	Hybrid? fault zone	148.5- 148.8 m	mod/stng, loc int/bx/crush'd	ser, chlr, carb cly in gge	irreg carb vnlt + void filling, chlr heal'd fract w/pyr + cpy		hem in carb vnlt		chlr ser cly in gge carb	chlr ser		hem in carb vnlt	(cpy) (pyr)	pyr cpy			Carb void filling, irregular vnlt and impregnation in Bx/crushed zones, frequently with stng hem sln. Strong perv chlr/ser altn.
151.8-155.4	Guichon	loc thin, some slip	wk/mod loc bkn	ser, chlr, carb loc cly?	chlr healed fracts w/ pyr+cpy, wk qtz vnlt w/ tr mo+pyr		loc hem w/cpy		(chlr) (ser) (bio)	ser chlr carb loc cly		loc hem in healed fract	(cpy) (pyr)	pyr cpy tr mo			Patchy black biotite. Qtz/ser alteration envelopes on healed fract. Tr mo in qtz vnlt with pyr. Tr mo in alteration env on qtz veinlets. Generally discrete chloritization of mafics. Feldspars becoming becoming quite dark.
155.4-159.1	Hybrid/grey Porphyry wk fault zone	loc 156.0 m & slip surfaces	mod, loc crushed set at 0° C.A.	(cly in gge) ser, chlr, carb	chlr healed fracts w/ (cpy) +(pyr)				chlr ser loc Ksp (cly in gge)	chlr ser		tr hem	cpy (cpy) (pyr) (mo)	(cpy)	tr		Grey porphyry dyke contact 158.5 m. Strong perv chlr/ser alteration. Local complete ser alteration—check for clays. No apparent primary min in porphyry.
159.1-162.7	Grey Porph/ Guichon wk fault zone	loc thin	mod/stng loc bkn/ crushed	loc carb, chlr ser, loc cly	qtz/chlr heal'd fract w/pyr + (cpy)				loc chlr patchy ser	chlr ser loc carb loc cly			(pyr) (cpy)	pyr (cpy)	mod		Grey porphyry/Guichon fault contact 160.3 m. (Cpy) loc with peacock bloom in qtz veinlet.
162.7-166.2	Guichon patchy perv altn, loc pink speckled	some slip	mod, loc bkn/ crushed	carb, chlr, ser loc cly	qtz/chlr heal'd fract w/pyr		(loc hem)		loc ep (ser) (chlr)	carb chlr loc cly ser		(loc hem)	(cpy)	pyr cpy	wk		Loc strong/complete ser alteration—check for clays. Loc chlr banding with diff ep margins. Generally selective chloritization of mafics. Feldspars dark, ghost-like.
166.2-169.6	Guichon/ Porphyry dyke		stng/bkn, loc shatt/crushed	ser, chlr, carb	num chlr heal'd fract w/pyr				loc ser (chlr) tr carb	ser chlr carb			(cpy)	pyr (mo) (cpy)	wk		Broken contact 169.3 m between Guichon and Porphyry (grey/pink aplitic) dyke. Qtz/ser in alteration envelopes on fractures.
169.6-173.4	Guichon/Hyb mafic rich patchy perv altn, loc pink speckled		mod/stng	ser, chlr, carb	num chlr healed fracts w/ (cpy)				(patchy ser) loc chlr	loc ep ser chlr carb			(cpy)	pyr cpy	mod		Porphyry dyke/Hybrid contact 169.7m. Qtz/ser in alteration env on fract. Patchy black biotite (secondary??)
173.4-176.8	Guichon/Hyb loc pink speckled wk fault zone	loc thin	stng/int loc ckle bx	ser, chlr, carb loc cly	wk qtz vnlt w/pyr + cpy	(loc hem)			ser loc chlr	ser chlr carb loc cly			(cpy)	pyr cpy (mo)	wk		Loc strong/complete ser alteration—check for clays.
176.8-181.4	Guichon/Hyb? grey/pink speckled	loc 177.0 m	wk/mod	ser, chlr, carb cly in gge	wk chlr heal'd fract w/pyr + (cpy)		loc hem		patchy ser (loc chlr)		chlr?	loc hem	(cpy)	pyr (cpy)	wk/ mod		Pyr increasing in fract

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
181.4-185.1	Guichon	-	wk/mod	carb chlr (ser)	wk chlr heal'd fracts w/pyr + (cpy)	-	hem	-	patchy ser	carb chl	chl	tr hem	hem	?	pyr (cpy)	wk	Wk alteration env (ser) on chlr healed fracts.	
185.1-189.3	Guichon	-	wk/mod loc bkn	carb chlr (ser)	wk chlr heal'd fracts w/pyr + (cpy)	-	loc hem	-	bio (chl)	carb chl	chl	-	loc hem	?	as abv	wk/ mod	Pyr>cpy. Patchy black biotite.	
189.3-193.8	Guichon grey/pink speckled	-	wk/loc bkn	carb, loc chlr ser	wk chlr heal'd fracts w/pyr and (cpy)	-	(loc hem)	-	patchy ser	carb loc chl ser	chl	-	(Loc hem)	?	(cpy) pyr	wk/ mod	Wk qtz/ser alteration envelopes on fracts. Weak aplite dykelets to 4.0 cm. Quite fresh Guichon Quartz Diorite.	
193.8-197.2	Guichon grey/pink speckled	some slip at 0° C.A.	wk/mod loc bkn, sets at 0 + 20-30° C.A.	chl, ser, carb	wk chlr heal'd fracts w/ pyr	-	-	-	patchy ser	chl ser carb	chl?	-	-	-	pyr	wk	Alteration intensity increasing.	
EOH 197.2 m																		

DDH95-20

Northing: 5603957.4			DDH 95-20				Azimuth: 045		
Easting: 641642.6			Elevation: 1718.5 m				Inclination: -50		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
22077	15.2	17.4	0.08	0.01	-	-	-	-	Guichon/Hybrid?:
22078	17.4	18.9	0.10	0.01	-	-	-	-	"
22079	18.9	20.4	0.14	0.01	-	-	-	-	fault zone
22080	20.4	21.9	0.14	<.01	-	-	-	-	"
22081	21.9	23.4	0.14	-	0.10	<.01	5	0.003	Guichon/Hyb?/
22082	23.4	24.9	0.14	-	0.10	<.01	5	0.001	Porphy?:
22083	24.9	26.4	0.37	-	0.10	<.01	5	0.002	Porphyry?:
22084	26.4	27.9	0.25	-	0.10	<.01	5	0.002	fault zone
22085	27.9	29.4	0.24	-	0.10	<.01	5	0.001	Porphyry:
22086	29.4	30.9	0.06	-	0.10	<.01	5	<.001	"
22087	30.9	32.4	0.09	-	0.10	<.01	5	0.002	"
22088	32.4	33.9	0.09	-	0.10	<.01	5	0.001	"
22089	33.9	35.4	0.09	-	0.10	<.01	5	0.001	"
22090	35.4	36.9	0.07	-	0.10	<.01	5	0.001	"
22091	36.9	38.4	0.05	-	0.10	<.01	5	0.001	"
22092	38.4	39.9	0.05	-	0.10	<.01	5	0.002	"
22093	39.9	41.4	0.11	-	0.10	<.01	5	0.002	"
22094	41.4	42.9	0.14	-	0.10	<.01	5	0.002	"
22095	42.9	44.4	0.05	-	0.10	<.01	5	0.001	"
22096	44.4	45.9	0.05	-	0.10	<.01	5	0.003	"
22097	45.9	47.4	0.08	-	0.10	<.01	5	0.011	"
22098	47.4	48.9	0.10	-	0.20	0.01	5	0.003	"
22099	48.9	50.4	0.07	-	0.10	<.01	5	0.001	"
22100	50.4	51.9	0.11	-	0.10	<.01	5	0.001	"
22101	51.9	53.4	0.11	-	0.10	<.01	5	0.003	"
22102	53.4	54.9	0.09	-	0.20	0.01	5	0.002	"
22103	54.9	56.4	0.08	-	0.10	<.01	5	0.002	"
22104	56.4	57.9	0.11	-	0.20	0.01	5	0.002	"
22105	57.9	59.4	0.09	-	0.30	0.01	5	0.001	"
22106	59.4	60.9	0.15	-	0.10	<.01	5	0.002	"
22107	60.9	62.4	0.17	-	0.10	<.01	5	0.006	"
22108	62.4	63.9	0.11	-	0.10	<.01	5	0.002	"
22109	63.9	65.4	0.10	-	0.10	<.01	5	0.002	"
22110	65.4	66.9	0.15	-	0.20	0.01	5	0.005	"
22111	66.9	68.4	0.23	-	0.10	<.01	5	0.003	"
22112	68.4	69.9	0.35	-	0.10	<.01	5	0.004	"
22113	69.9	71.4	0.19	-	0.10	<.01	5	0.003	"
22114	71.4	72.9	0.20	-	0.10	<.01	5	0.005	"
22115	72.9	74.4	0.46	-	0.10	<.01	5	0.003	Guichon/Hybrid :
22116	74.4	75.9	0.52	-	0.10	<.01	5	0.003	"
22117	75.9	77.4	0.66	-	0.10	<.01	5	0.007	Guichon/Hybrid:
22118	77.4	78.9	0.67	-	0.20	0.01	5	0.006	fault (76.0-77.5 m)
22119	78.9	80.4	0.43	-	0.10	<.01	5	0.006	"
22120	80.4	81.9	0.89	-	1.0	0.03	5	0.006	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22121	81.9	83.4	0.46	-	0.10	<.01	5	0.004	Guichon/Hybrid:
22122	83.4	84.9	0.70	-	0.10	<.01	5	0.006	loc xenoliths
22123	84.9	86.4	0.49	-	0.10	<.01	5	0.004	"
22124	86.4	87.9	0.51	-	0.10	<.01	5	0.001	"
22125	87.9	89.4	0.48	-	0.10	<.01	5	0.004	fault bx w/ Porph
22126	89.4	90.9	0.62	-	0.10	<.01	5	0.003	frags & xenoliths
22127	90.9	92.4	0.53	-	0.10	<.01	5	0.003	Hybrid zone:
22128	92.4	93.9	0.47	-	0.10	<.01	5	0.007	polymictic mafic rich
22129	93.9	95.4	0.50	-	0.10	<.01	5	0.002	mottled perv altn
22130	95.4	96.9	0.69	-	0.10	<.01	5	0.002	"
22131	96.9	98.4	0.39	-	0.20	0.01	5	<.001	"
22132	98.4	99.9	0.42	-	0.10	<.01	5	0.002	"
22133	99.9	101.4	0.53	-	0.10	<.01	5	0.002	"
22134	101.4	102.9	0.52	-	0.10	<.01	5	0.002	"
22135	102.9	104.4	0.29	-	0.10	<.01	5	<.001	"
22136	104.4	105.9	0.36	-	0.10	<.01	5	0.001	"
22137	105.9	107.4	0.33	-	0.10	<.01	5	0.003	Guichon/Hybrid:
22138	107.4	108.9	0.27	-	0.10	<.01	5	0.002	wk fault zone
22139	108.9	110.4	0.24	-	0.10	<.01	5	0.001	Hyb/Crowded
22140	110.4	111.9	0.24	-	0.10	<.01	5	0.001	Porphyry?
22141	111.9	113.4	0.30	-	0.40	0.01	5	0.003	"
22142	113.4	114.9	0.29	-	0.20	0.01	5	0.001	Crowded Porph?
22143	114.9	116.4	0.16	-	0.20	0.01	10	0.001	Hornfels?:
22144	116.4	117.9	0.2	-	0.10	<.01	5	<.001	"
22145	117.9	119.4	0.3	-	0.20	0.01	15	0.004	Beth Crowded
22146	119.4	120.9	0.19	-	0.10	<.01	5	0.001	Porph?:
22147	120.9	122.4	0.18	-	0.10	<.01	5	<.001	Hybrid contact
22148	122.4	123.9	0.24	-	0.10	<.01	5	0.001	124.6 m
22149	123.9	125.4	0.36	-	0.10	<.01	5	0.004	"
22150	125.4	126.9	0.35	-	0.10	<.01	5	0.005	Hybrid zone:
22151	126.9	128.4	0.31	-	0.10	<.01	5	0.002	"
22152	128.4	129.9	0.38	-	0.10	<.01	5	0.001	Guichon/Hybrid:
22153	129.9	131.4	0.33	-	0.10	<.01	5	<.001	"
22154	131.4	132.9	0.34	-	0.10	<.01	5	0.002	"
22155	132.9	134.4	0.48	-	0.20	0.01	5	0.007	"
22156	134.4	135.9	0.5	-	0.10	<.01	5	0.009	"
22157	135.9	137.4	0.27	-	0.10	<.01	5	<.001	"
22158	137.4	138.9	0.36	-	0.10	<.01	5	0.001	"
22159	138.9	140.4	0.24	-	0.10	<.01	5	0.001	"
22160	140.4	141.9	0.24	-	0.10	<.01	5	<.001	"
22161	141.9	143.4	0.25	-	0.10	<.01	5	0.003	"
22162	143.4	144.9	0.28	-	0.20	0.01	5	0.003	"
22163	144.9	146.4	0.37	-	0.20	0.01	5	0.003	Hybrid zone:
22164	146.4	147.9	0.32	-	0.10	<.01	5	0.001	"
22165	147.9	149.4	0.17	-	0.10	<.01	5	0.001	fault zone
22166	149.4	150.9	0.36	-	0.10	<.01	5	0.004	"
22167	150.9	152.4	0.24	-	0.10	<.01	5	0.003	"

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22168	152.4	153.9	0.35	-	0.10	<.01	5	0.002	Hybrid zone:
22169	153.9	155.4	0.31	-	0.10	<.01	5	0.005	"
22170	155.4	156.9	0.36	-	0.20	0.01	5	0.019	"
22171	156.9	158.4	0.29	-	0.20	0.01	5	0.009	"
22172	158.4	159.9	0.18	-	0.10	<.01	5	0.003	"
22173	159.9	161.4	0.21	-	0.10	<.01	5	0.013	Grey Porph/Hybrid:
22174	161.4	162.9	0.31	-	0.10	<.01	5	0.031	wk fault zone
22175	162.9	164.4	0.28	-	0.10	<.01	5	0.003	"
22176	164.4	165.9	0.34	-	0.40	0.01	5	0.004	"
22177	165.9	167.4	0.25	-	0.20	0.01	5	0.009	Hybrid/Porph:
22178	167.4	168.9	0.31	-	0.20	0.01	5	0.016	dyke
22179	168.9	170.4	0.33	-	0.20	0.01	5	0.002	Hybrid:
22180	170.4	171.9	0.28	-	0.10	<.01	5	0.001	"
22181	171.9	173.4	0.29	-	0.20	0.01	5	0.003	"
22182	173.4	174.9	0.16	-	0.10	<.01	5	0.015	"
22183	174.9	176.4	0.42	-	0.60	0.02	5	0.014	"
22184	176.4	177.9	0.3	-	0.30	0.01	5	0.007	Guichon/Hybrid:
22185	177.9	179.4	0.14	-	0.20	0.01	5	<.001	"
22186	179.4	180.9	0.11	-	0.10	<.01	5	0.001	"
22187	180.9	182.4	0.11	-	0.10	<.01	5	0.001	"
22188	182.4	183.9	0.18	-	0.10	<.01	5	0.015	"
22189	183.9	185.4	0.16	-	0.10	<.01	5	0.001	"
22190	185.4	186.9	0.11	-	0.10	<.01	5	0.001	"
22191	186.9	188.4	0.14	-	0.10	<.01	5	0.001	"
22192	188.4	189.9	0.28	-	0.20	0.01	5	0.010	"
22193	189.9	191.4	0.07	-	0.10	<.01	5	0.007	"
22194	191.4	192.9	0.11	-	0.10	<.01	5	0.001	"
22195	192.9	194.4	0.36	-	0.20	0.01	5	0.002	"
22196	194.4	195.9	0.3	-	0.10	<.01	5	0.001	"
22197	195.9	197.4	0.34	-	0.10	<.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.										
DDH #	95-21	Date	08-Oct							Logged by	PM	VN								
Elevation	1706.8 m	Azimuth	045							Northing:	5603903.5									
Inclination	-65	Length	230.8 m							Easting:	641691.3									
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.					
9.1-12.8	Guichon/ Hybrid	loc 12.1 m	stng/int loc crushed	cly, (chlr) ser, carb	-	loc Fe	loc Mn Fe: jar	Fe, cly	carb chlr ser cly?	cly (chlr) ser carb	-	-	-	-	-	wk	Strongly weathered and Fe stained. Mn stain H ₂ SO ₄ positive. Fe stain masks presence of chlr and ser on fracts.			
12.8-17.3	Guichon/Hyb loc pink speckled	loc 13.3- 13.9 m	int/fault bx	carb, ser, (chlr) cly	wk chlr healed fracts w/ py	loc Fe	Mn, Fe	Fe, cly	carb chlr ser cly	carb	-	(chrys) (mal)	(py)	(py)	tr/wk	Fe coating masks chlr and ser on fracts. Loc (mal)----first definite occurrence in core: radiating, fibrous. Possible loc pot alteration--- masked by Fe stn.				
17.3-20.8	Hybrid Zone fault zone	loc	stng/int loc dis bx	ser, (chlr) carb, loc cly	irreg carb vnlt	loc Fe	Mn, Fe	Fe, cly	(carb) chlr ser loc cly	ser (chlr) carb loc cly	-	(NCu)	(mal) (chrys)	-	-	wk	Fe masks chlr and ser on fracts. Tr NCu 18.7 m Base of oxide			
20.8-23.6	Hybrid Zone patchy perv alteration	loc thin	mod/stng, loc bkn/wk dis bx	carb, (ser) (chlr)	wk chlr healed fracts, irreg carb vnlt	(loc Fe)	Fe	Fe, cly	chlr ser (carb)	carb (ser) (chlr)	-	(hem)	-	(cpy) py	(py)	mod	Py and (cpy) with mafics. Loc stng perv ser/cly? Sharp decrease in Fe on fracts.			
23.6-26.9	Hybrid Zone pink speckled	loc 24.7 m	mod/stng loc bkn	chlr, ser (carb) loc cly	-	loc Fe	Fe	-	loc ep loc chlr (carb) loc cly	chlr ser (carb) loc cly	chlr?	-	-	-	py	mod	Pale blue-grey efflorescence on fracts. Loc diss epidote associated with fracts. Tr black biotite Loc healed crush zones with py			
26.9-30.7	Hybrid Zone	-	mod/stng loc bkn/shatt	ser, chlr carb	-	-	(Fe)	-	loc ep (loc chlr)	ser chlr carb	chlr	(hem)	-	(py)	(py)	mod	Hybrid, dark grey/grey black, pink speckled. Loc diss ep associated with fracts; dissp magnetite.			
30.7-34.0	Guichon/Hyb pink speckled dark grey/ grey-black	-	stng/bkn	chlr, (ser) (carb)	wk irreg carb vnlt	(loc hem)	Fe: jar hem	-	loc ep loc Ksp loc chlr (carb)	chlr (ser) (carb)	chlr?	(hem)	(hem)	(py)	py	wk/ mod	Very strong chlr alteration envelope (~ 2 cm) on carb vnlt, otherwise quite fresh. Diss fract con- trolled ep. Poss loc perv K-sp? alteration associ- ated with healed crush zone, contains diss ep, may be masked by Fe-stain.			

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				
34.0-38.0	Guichon/Hyb pink speckled dark grey/ grey-black	-	mod/loc bkn	(ser) chlr, (carb)	wk chlr heal'd fracts w/ py and (cpy)	-	loc hem, jar	-	loc ep loc chlr (loc Ksp) tr carb	(ser) chlr (carb)	chlr?	(hem)	(hem)	(py)	py (cpy)	wk		Slightly less mafic overall than previous interval. Partially assimilated mafic xenolith. Stain for K-sp
38.0-41.7	Guichon/ Hybrid pink speckled patchy perv altn, grey- black	-	wk/mod loc bkn	carb, ser chl, (loc cly)	carb vnlt 30° C.A. ~ 2 cm	(loc hem)	(hem)	-	(ep) loc chlr (carb) loc ser	carb ser chl (loc cly) ep	chl?	-	tr hem	(cpy) (py)	py (cpy)	mod		Phenos becoming loc ghost-like, mafic concen- tration increasing. Chlr/ep perv alteration increasing. Stain for K-sp
41.7-45.9	Guichon/ Hybrid patchy perv altn	-	mod/stng	carb, ser chl	carb micro vns	-	-	-	ep loc chl (loc ser) loc alb	ep chl ser carb	?	-	-	py	py (cpy)	tr		Strongest perv ep seen to date--strong perv propylitic alteration. Increasingly mafic, chl altered, with patchy albn. Stain for K-sp
45.9-49.7	Guichon/ Hybrid patchy perv altn	loc thin 149.0 m at 70° C.A.	stng/shatt	carb, ser (chl), cly in gge	num chl & carb healed fracts	(loc hem)	-	-	patchy ep chl	carb ser (chl) cly in gge	?	-	-	(py)	py	wk/ mod		Intensity of chl alteration increasing. Ep alteration more distinctly fract controlled.
49.7-53.3	Guichon/ Hybrid patchy perv altn mafic rich	-	stng/bkn loc crushed	chl, ser, carb, loc kaolin?	carb micro vns, brown porph dyke at 52.9 m 10.0 cm	-	-	-	(carb) loc kaolin? patchy ep chl patchy ser loc alb	chl ser carb loc kaolin?	?	-	-	(py)	py tr cpy	mod		Patchy brown-black biotite. Perv ep with loc albn.
53.3-57.2	Guichon/ Hybrid patchy perv altn, loc comp	loc thin 57.2 & 55.5 m	mod/stng loc bkn	chl, ser, carb (loc cly)	mod carb vnlt to 2 cm at 50-60° C.A.	-	-	-	carb chl patchy ep, ser loc alb loc Ksp	chl ser carb (loc cly)	-	hem	-	py tr cpy	py	wk/ mod		Alteration intensity increasing, potassic alteration envelopes on fracts and carb vnlt. Patchy black biotite. Perv chl alteration is patchy and usually fract or vein controlled.
57.2-61.6	Guichon/ Hybrid patchy stng perv altn wk fault zone	loc 59.2 m at 50° C.A. & some slip surfaces	mod/stng loc comp	chl, ser, (carb) cly in gge	mod/stng irreg carb vnlt	-	-	-	carb in gge, chl ser ep?	(carb) chl ser cly in gge	-	(hem)	-	loc cpy (py)	cpy py	tr/wk		Guich Hyb, strong perv hydroth alteration, esp chl, ep poss masked by chl.

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
61.6-65.7	Guichon/ Hybrid? stng perv altn wk fault zone	loc 64.0 & 64.9 m	mod/stng, loc bkn/milled	chl _r , ser, carb cly in gge	stng carb vnlt & microvns	-	-	-	chl _r (carb) ser patchy alb	chl _r ser carb cly in gge	-	-	-	cpy (py)	py (cpy)	tr	Loc carb void filling and carb vein fragments in gge Very strong perv chl _r alteration obscures original texture.	
65.7-69.7	Guichon/ Hybrid? stng perv altn wk fault zone	loc thin, 67.6 m	stng/bkn loc wk ckle	ser, chl _r , carb loc cly	mod carb vnlt + micro vns, wk qtz vnlt w/py	-	-	-	chl _r (carb) ser	ser chl _r carb loc cly	-	-	-	(py)	py tr cpy	tr/wk	Loc strong/complete ser alteration (kaolin?) Weak qtz vnlt with bleached (qtz/ser) alteration envelope and strong py	
69.7-73.7	Guichon/ Hybrid? stng perv altn	some slip	mod/stng/ckle loc comp loc crushed	ser, chl _r , carb	mod/stng irreg carb vnlt + void filling; qtz vn frags	-	-	-	chl _r ser carb	chl _r ser carb	-	-	-	(py)	py (cpy) (mo?)	tr	Weak qtz vnlt with weak alteration envelopes (qtz/ser) loc strong py and (cpy) in cores.	
73.7-77.1	Guichon/ Hybrid? stng perv altn	loc thin	wk/mod loc stng	ser, chl _r , carb	num irreg carb vnlt loc micro stkwk	-	-	-	chl _r ser carb	chl _r ser carb cly in gge	-	-	-	(py) (cpy)	py cpy (mo)	tr	Py microveins occur with (cpy) and (mo), with bleached, qtz/ser, alteration envelopes to 1 cm Strong carb as vnlt and void filling.	
77.1-81.1	Guichon/ Hybrid? stng perv altn crush zone	loc thin 79.3 m & some slip	mod/stng loc ckle/ crushed	chl _r , ser, carb cly?	abd irreg carb vnlt loc micro stkwk	-	-	-	chl _r ser carb	chl _r ser carb cly	-	-	-	py (cpy) (mo)	py	tr	Loc chl _r /carb healed crush zones. Strong loc carb vn frags and void filling, occ with black streaks and ribbons—crushed sulphides, mo?; Py microvns occ with (cpy) and (mo), with wk/ mod alteration envelopes.	
81.1-85.0	Guichon/ Hybrid? stng perv altn crush zone	some slip	mod/stng loc ckle/crushed some healing chl _r & carb	chl _r , ser, carb cly?	abd irreg carb vnlt fragmented loc few w/ abd py to 2 mm	-	-	-	chl _r carb ser	chl _r carb ser cly?	-	-	-	(cpy) py	cpy py	tr	Py>cpy.	
85.0-89.0	Guichon/ Hybrid? fault/crushed zone 85.0- 86.3 m wk/ mod fract	gge loc at 50° C.A.	fault/crush zone 85.0- 86.3 m wk/ mod fract	ser, chl _r , carb	qtz to 2 cm cpy & mo	-	-	-	carb (ser) chl _r	carb ser chl _r	-	-	-	cpy py py	cpy (Mo) py	wk/ mod	Guichon cleaning up to look more like Guichon be- low fault/crushed. Less pervasive ser at bottom. Cpy increases.	
89.0-92.6	Guichon/ Hybrid? mafic rich	loc thin at 92.6 m	wk/mod	qtz/carb carb, ser, chl _r	qtz & qtz & carb; carb gash veins to 2 cm w/ Guich frags	-	-	-	chl _r ser	wk/ mod chl _r & ser carb	chl _r ?	-	-	(cpy) py (hem) in maf	cpy py	wk/ mod	Chl _r dropping weak/mod. Ser in envelopes. Fracture related ep and weakly disseminated.	

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		
92.6-96.6	Guichon/ Hybrid? mafic rich	-	wk/mod; loc stng bkn	carb, qtz, ser, chlr	carb qtz py	(hem)	-	-	loc chlr ser fract cont (alb?)	carb qtz ser chlr	chlr	hem	-	(cpy) (py)	(cpy) py	wk/ mod	Ser loc strong in fract
96.6-100.2	Guichon/ Hybrid?	loc	wk/mod, some bkn/crushed	qtz & carb w/ pyr, chlr, ser	qtz w/ mo along margins, chlr	-	-	-	chlr ser w/ mod dec w/ depth	chlr ser carb	chlr	-	-	py (cpy)	py mo cpy	wk/tr	Loc blk bio. Conspicuous MoS ₂ in fract with qtz. Becoming more mafic-rich becoming finer locally.
100.2-102.2	Guichon/ Hybrid?	-	wk to loc mod some slip	chl, ser, carb	carb vnits/ microvnits qtz w/py & mo	-	-	-	loc carb imp in crush'd zone	chl carb ser	chl	-	-	(cpy) py (hem)	py (mo)	tr/wk	
102.2-104.4	Hybrid? Grey Porphyry	-	wk to loc mod some slip	chl, ser, carb	carb	-	-	-	chl carb ser	chl carb ser	chl	-	-	py (tr cpy)	(cpy) py	tr	Dark grey colour.
104.4-106.6	Hybrid/ grey Porph. FAULT	loc at 105.2- 106.6 m num slip surfaces hem stng	stng/loc int loc bkn/ crushed	chl, ser, carb	carb frags irreg vnits void fillings w/cpy blebs	-	-	-	chl carb ser	chl ser carb	chl	-	-	(py)	(cpy) py	wk/ mod	Loc cpy blebs with carb frags, vnits, void fillings.
106.6-108.8	Hybrid/ Guichon?	-	stng bkn/shatt /crushed	chl, ser, carb	chl w/py	-	-	-	chl carb ser Ksp on vnits	chl ser carb	chl	-	-	(py)	(cpy) py (mo)	wk	Patches of biotite.
108.8-111.3	altered Porphyry Fp-1	gge in fault at contact gge/crushed 109.2 m	stng bkn loc crushed	carb, ser, cly in gge	qtz/carb chl, assoc py (cpy/ py)	(Hem)	-	-	(carb) ser	carb ser	chl	-	-	(py)	(cpy) py (mo)	wk	Orangy brown mottled porph. Verne has seen this several places previously. <u>Stain for K-sp.</u>
111.3-115.0	Porphyry, weak altn Fp-1	-	mod/stng ckle loc bkn	chl, carb, ser	qtz/carb/ chl w/py and (cpy)	(hem)	-	-	(ep) (ser)	chl carb ser	chl	-	-	(py)	(cpy) (mo) py	wk	Less alteration than previous interval, same porphyry. Perv weak hem stn. Loc healed crush zone/dis bx. (healed by chl/carb.)
115.0-119.0	Porphyry, Bethlehem? Fp-1	-	mod/stng/bkn	carb, chl, ser (qtz)	mod/stng qtz/chl/carb heat'd fract w/ py + (cpy)	(hem)	-	-	loc ser (kaolin?) (Ksp?) (ep) (alb)	carb chl ser (qtz)	chl	-	-	(py) (cpy)	py (cpy)	wk/ mod	Patchy fract/veinlet controlled alteration, with weak/mod bleached qtz/ser alteration env. Mottled orange-brown, crowded.

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)																	
119.0-123.4	Porphyry, Bethlehem? Fp-1		stng/bkn/ shatt	carb, chl, ser	mod chl healed fracts w/py+ cpy	(hem)	-	-	(ep) alb?	carb chl ser	chl	-	-	-	py cpy	wk/ mod	Similar in appearance and alteration intensity to above. Py>cpy. Possible argillic alteration, in env on fracts. Increasingly bkn/shatt with depth. Contact (bkn) with Guich/Hybrid? at 123.4 m
123.4-126.4	Guichon/ Hybrid?		dis bx, bkn/ shatt	carb, ser, chl	wk carb vnits w/ (cpy), qtz/ chl healed fracts w/ py	(hem)	-	-	loc chl patchy ser (ep) (loc alb)	carb ser chl	chl?	-	-	-	cpy py	wk	Patchy black biotite. Weak cpy on fracts with peacock bloom. Py>cpy. Mod well prepared for mineralizaion.
126.4-130.8	Guichon/ Hybrid patchy perv altn, mafic rich, loc pink speckled	loc thin 128.5 m	bkn/shatt	chl (ser) carb, cly in gge	wk chl healed fracts	-	loc hem	-	patchy alb (chl)	(loc ep) chl (ser) carb cly in gge	chl?	-	-	-	py (cpy)	wk	Pink specking from K-sp (should be stained), not perv hem as in porphyry above. Py intensity slightly less than prev interval.
130.8-134.9	Guichon/ Hybrid patchy perv altn, loc pink speckled	loc 133.5 m	bkn/shatt	cly in gge, (ser) (carb) chl	qtz vn frags wk py vnits	-	-	-	(ep) loc chl loc alb?	(ser) (carb) chl cly in gge	chl?	-	-	-	py cpy	wk/ mod	Aplitic/porphyritic dykelet, bkn, 132.3-133.1 m appears very similar to orange-brown porph above.
134.9-139.0	Guichon/ Hybrid patchy perv altn, loc pink speckled		mod/stng loc bkn	(chl), ser carb, loc cly	wk/mod chl healed fracts w/ py + (cpy) & (mo)	(hem)	-	-	loc Ksp	loc ep loc Ksp (chl) ser carb loc cly	chl	-	-	-	py cpy (mo)	wk/ mod	Fract controlled ep and K-sp alteration. Loc black biotite, rock is generally quite fresh. Aplitic dykelet 3 cm
139.0-142.1	Guichon/ Hybrid	some slip	mod, loc bkn wk ckle bx	chl, carb (ser) (cly?)	wk irreg carb vnits	(hem)	-	-	chl ep alb?	chl carb ser (cly?) ep	?	(loc hem)	-	(cpy) (py)	py cpy	wk	Loc strong, patchy ep assoc with fracts and vnits Py>cpy.
142.1-144.2	Guichon/ Hybrid patchy stng perv altn		stng/bkn wk dis bx	chl, carb ser	carb vns w/ ep. cpy blebs + py loc wk microstkwk	-	-	-	ep chl ser patchy alb	chl carb ser	?	-	-	(cpy) (py)	cpy py	tr	Py~cpy. Loc hem stn in carb vnits and carb void filling. Cpy often in carb vnits.
144.2-148.9	Grey Porphyry	loc 146.0 m ~ 3 cm	ckle/dis bx, bkn/shatt	carb, ser, (chl) ep	carb vnits w/cpy + ep	(loc hem)	-	-	(chl) ep (ser)	carb ser (chl) ep loc cly	-	-	-	(cpy) (py)	py (cpy)	-	Strong py and ep fracts in gge/crush zone. Py>cpy. Phenos usually ghost-like. Possible argillic alteration envelopes on fracts. This may be altered/chilled? crowded feldspar porphyry: Fp-1. Check sections.

interval (m)	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.
148.9-151.0	Guichon/ Hybrid?	-	bkn/shatt	carb, chl, ser	qtz w/cpy	loc hem	(loc hem)	-	ser chl loc ep	carb chl ser	chl?	-	-	-	cpy py	-	Chl alteration intensity decreasing. Patchy perv hem? stn. Should stain for K-sp—May be masked by hem.	
151.0-154.5	Guichon/ Hybrid patchy stng perv altn; poss polymictic	loc 152.1- 152.9 m	mod loc bkn	chl, carb, ser, cly in gge	irreg carb vnits	patchy hem	loc stng hem	-	chl ser carb	chl carb ser cly in gge	-	-	-	cpy py? (mo)	cpy py (mo)	tr	Pervasive cpy, loc with peacock bloom. Patchy strong perv hem stain and loc strong hem on frags. Loc healed Fault Bx/crush zone with qtz frags and patchy strong hem stn. Diss cpy and (mo) in Bx matrix—may be intrusion Bx??	
154.5-158.2	Guichon?/ Hybrid? stng perv altn poss polymic- tic bx	some slip	stng/ckle loc bkn	carb, ser, chl	mod irreg carb vnits	patchy hem	loc hem	-	chl ser (loc ep) (carb)	carb ser chl	-	-	(cpy) (py)	cpy py (mo)	tr	Aplite dyke, 155.6 m, bkn. Strong loc hem and ep with carb vnits. May be healed crush zone. Probable remobilized py and cpy (blebby) in vuggy healed shear.		
158.2-161.2	Guichon/ Hybrid patchy stng perv altn	loc thin + some slip surfaces	stng/bkn loc shatt	chl, carb, ser	mod chl healed fracts w/py + cpy	patchy hem	loc hem	-	(carb) chl ser loc ep	chl carb ser cly in gge	-	-	-	cpy py	wk	Pink aplitic porph dykelet 158.2 m, ~ 20 cm. Weak aplite dykelets to 3.0 cm at bottom of interval.		
161.2-164.9	Guichon/ Hybrid/Porph? patchy stng perv altn wk fault zone	? may have been lost	stng/bkn loc shatt/ crushed. ckle bx?	chl, ser, carb loc cly?	abd irreg carb vnits, w/hem + (cpy)	patchy hem	hem	-	carb chl ser loc ep alb	carb chl ser loc Ksp	-	-	patchy cpy py diss hem	cpy py (mo?)	mod	Guich/Hyb with porphyry contamination?? Structural ckle bx. Aplitic? porph dykelets (3) bkn/ shatt, grey/grey-brown with cpy in fracts.		
164.9-168.6	Grey Porph/ Guichon/ Hybrid fault zone	loc 166.4 m + loc thin	ckle/dis bx shatt/crushed	ser, chl, qtz carb	num chl heal'd fracts w/cpy + (mo)	-	loc hem	-	loc ep chl ser carb	ser chl qtz carb (loc ep)	-	-	py cpy	(mo) cpy py	tr	Grey porph 164.9-165.8 m with cpy and (mo) in chl healed fracts. Porphyry: aplitic porphyry and qtz frags in bx at 167.0 m. Loc strong/complete ser alteration. Check for kao; (mo) and cpy in chl selvage on qtz vnits.		
168.6-172.9	Guichon/ Hybrid Porphyry wk fault zone	loc thin & several slip surfaces	mod/stng, loc ckle Bx/bkn/ shatt	loc ep, chl, ser, carb	wk/mod qtz/ chl healed fracts w/ cpy + (py)	loc hem	loc hem	-	chl patchy ep loc ser carb	loc ep chl ser carb	-	-	(py) (cpy)	py cpy	wk/ mod	Guichon/Hybrid, strong perv alteration with loc very strong fracts controlled alteration—chl/ser/ep. Cpy>py on fracts. Locally resembles altered Fp-1 crowded porphyry but contacts are not conspicuous.		
172.9-176.5	Guichon/ Hybrid (Porphyry?)	loc thin & several slip surfaces	mod w/lock stng bkn, loc crush 147.7- 148.0 m	ser, chl, carb	wk/mod qtz/chl healed fracts w/cpy & (py). Carb to >0.5 cm w/ hem	loc diss hem	loc hem	-	chl loc ser wk/ mod carb	chl ser carb	-	-	(py) (cpy)	py cpy (mo?)	wk	Guichon/Hybrid, mod to strong pervasive alteration, loc ser. Pyite> cpy diss and in fracts. Locally resembles Fp-1 as seen above.		

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
176.5-181.0	Guichon/ Hybrid	few slip surfaces in crushed interval	wk, w/few short crushed intervals	chl, ser, carb (loc cly)	wk qtz/chlr w/blch env minute carb wk/mod	loc diss hem w/ K-sp	-	-	chl (cly) in crushed zones w/carb (ser)	chl ser (loc cly)	chl	-	-	py (cpy)	py (cpy)	tr/wk	Fairly uniform speckled Guich/Hyb. Conspicuous biotite and chlorite altered biotite. Diss K-sp with iron stain. Py>cpy diss and in fract.	
181.0-184.9	Guichon/ Hybrid	Few slip surfaces	wk/loc mod w/short crush int.	chl, ser, carb (loc cly)	carb, micro fracts to > 0.5 cm assoc hem	loc diss hem w/ K-sp	-	-	chl (cly) in crush'd zones w/carb	chl ser	chl	-	-	py (cpy?)	py (cpy)		Uniform diss conspic mafics. Diss K-sp with Fe stain. Py>cpy diss and in fract.	
184.9-190.6	Guichon/ Hybrid loc contami- nation in short crush interval		wk, loc mod/ crushed w/ carb	ser, chl, carb (loc cly)	chl/rtz py w/blch env. Carb vnits to < 2 cm at 55° C.A.	-	-	chl (ser)	chl (qtz) carb ser loc cly	chl	-	-	py (cpy?)	py cpy	wk/ mod	Uniformly diss mafic, speckled by slight hem stained K-sp. Py>cpy in fract.		
190.6-193.6	Hybrid/ contaminated Guichon/Hyb Porphyry 15 cm at 193.2- 193.4 m 3 cm at 193.1 m	191.0- 191.4 m gge	mod/stng stng fract/crush int, loc gge	chl, cly, carb, chl in gge	loc carb irreg vnits to 0.5 cm pred in crush int. loc qtz to > 2 cm	-	(hem)	-	carb chl ser	chl	-	(hem)	py	py (cpy)	wk	Contaminated chl-rich interval. Crushed, loc gge becoming less chloritic at bottom of interval. Py>cpy in fract.		
193.6-197.1	Guichon	loc gge 195.3 m	wk, very loc gge	chl, ser (carb)	chl/rtz py microvnits chl (qtz) w/py, hem blch env	-	(hem)	-	carb chl ser	chl	-	(hem)	py	py (cpy)	wk	Guichon, conspicuous speckled mafics, speckled K-sp with slight hem stain. Py>>cpy in fract		
197.1-201.3	Guichon		wk	chl, ser, carb, qtz	wk stkwk carb, chl, ser, qtz, py (hem), chalc hem stn qtz	-	(hem)	-	carb chl ser qtz	chl	-	(hem)	py	py (cpy) (Mo?)	wk/ mod	As above: Py>>cpy in fract.		
201.3-205.3	Guichon Aplite dkits to 4 cm		wk	chl, ser, carb qtz	as abv, hem stnd qtz or K-sp? Qtz & qtz aplite vns/dkits to 4 cm	-	(hem)	-	carb, chl ser qtz	chl	-	(hem)	py	py (cpy)	wk/ mod	Py>>cpy in fract, cpy present. As above. Aplites at ~ 20° C.A.		

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.				
205.3-209.2	Guichon w/ few aplite vnlt qtz & K-sp <0.5 cm	-	wk	carb, ser, chlr	wk, heal'd ser env, qtz w/py & (cpy) to 2 mm	wk hem on Ksp	-	-	patchy chl	ser carb qtz chl	chl	-	hem in carb vnlt	py (cpy)	py (cpy)	wk/ mod	Guichon, uncontaminated 208.8-209.2 m. K-spar alteration possibly porphyry dyke.
209.2-213.2	Guichon	loc gge crushed zone	wk/mod slip surfaces	chl, ser, carb	wk healed fracts, carb chl py (cpy)(qtz) ser altn env	wk hem on Ksp	-	-	loc chl ser	ser chl	chl	-	-	py (cpy?)	py (cpy)	wk/ mod	Guichon as seen above, conspicuous mafic. Early and late fracts.
213.2-217.3	Guichon	loc gge w/(cly)	mod	carb, ser, chl	carb at 5° C.A. Fe stn at 216.1 < 0.5 cm	(hem) on K-sp at 216.1	hem	-	loc ser	carb ser chl	chl	-	-	(py)	py (cpy)	wk/ mod	As above.
217.3-224.1	Guichon	-	wk	chl, ser, carb	chl healed w/ser, carb sulphides microfracts	(hem) mott	-	-	chl Fe stn K-sp/ alb?	chl ser carb	chl	-	-	(py)	py (cpy)	wk	Sulphides in fracts weaker K-sp with Fe stain dykelets, some with diffuse margins. Py>cpy, but increasing.
224.1-224.6	Hybrid	-	wk/mod	chl, slip surfs cont Mo	chl healed stkwk. carb loc to 0.5 cm	-	-	-	chl ep loc diff	chl	chl?	-	-	(py)	py (cpy) (Mo)	wk	
224.6-229.0	Guichon	-	wk, loc shatt	ser, carb, (chl)	aplite dyke at 228.1 m	(hem) on K-sp	-	-	(chl) (ep)	ser (chl) carb	chl?	-	-	(py)	py (cpy)	wk	Sudden increase in K-sp-hem stain and aplite, starting at 227.5 m.
229.0-230.7	Guichon	-	wk	(ser) (carb)	-	-	-	-	-	(ser) (carb)	chl	-	-	(py)	py (cpy)	mod/ wk	Aplite dyke 230.2-230.5 m with microfract healed with py and (cpy). Alteration/bleaching envs <0.5 cm of ser and qtz?
EOH 230.7 m																	

DDH 21

Northing: 5603903.5			DDH 95-21				Azimuth: 045		
Easting: 641691.3			Elevation: 1706.8 m				Inclination: -65		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
22198	9.1	10.6	0.05	0.04	-	-	-	-	Guichon/Hybrid:
22199	10.6	12.1	0.30	0.02	-	-	-	-	"
22200	12.1	13.6	0.09	0.07	-	-	-	-	"
22201	13.6	15.1	0.07	0.05	-	-	-	-	"
22202	15.1	16.6	0.06	0.01	-	-	-	-	"
22203	16.6	18.1	0.05	0.02	-	-	-	-	Hybrid zone:
22204	18.1	19.6	0.03	0.02	-	-	-	-	fault zone
22205	19.6	21.1	0.05	0.02	-	-	-	-	"
22206	21.1	22.6	0.19	0.02	-	-	-	-	"
22207	22.6	24.1	0.08	0.01	-	-	-	-	"
22208	24.1	25.6	0.11	0.02	-	-	-	-	"
22209	25.6	27.1	0.07	0.01	-	-	-	-	"
22210	27.1	28.6	0.09	-	0.10	<.01	5	<.001	"
22211	28.6	30.1	0.12	-	0.30	0.01	5	<.001	"
22212	30.1	31.6	0.11	-	0.20	0.01	5	<.001	Guichon/Hybrid:
22213	31.6	33.1	0.10	-	0.20	0.01	5	<.001	"
22214	33.1	34.6	0.06	-	0.20	0.01	5	0.001	"
22215	34.6	36.1	0.14	-	0.40	0.01	5	0.006	"
22216	36.1	37.6	0.05	-	0.10	<.01	5	<.001	"
22217	37.6	39.1	0.10	-	0.20	0.01	5	<.001	"
22218	39.1	40.6	0.12	-	0.20	0.01	5	<.001	"
22219	40.6	42.1	0.13	-	0.20	0.01	5	<.001	"
22220	42.1	43.6	0.09	-	0.30	0.01	5	0.001	"
22221	43.6	45.1	0.15	-	0.30	0.01	5	<.001	"
22222	45.1	46.6	0.08	-	0.20	0.01	5	<.001	"
22223	46.6	48.1	0.05	-	0.20	0.01	5	<.001	"
22224	48.1	49.6	0.06	-	0.20	0.01	5	<.001	"
22225	49.6	51.1	0.16	-	0.30	0.01	5	0.001	"
22226	51.1	52.6	0.11	-	0.20	0.01	5	<.001	"
22227	52.6	54.1	0.10	-	0.20	0.01	5	<.001	"
22228	54.1	55.6	0.08	-	0.20	0.01	5	<.001	"
22229	55.6	57.1	0.08	-	0.20	0.01	5	<.001	"
22230	57.1	58.6	0.26	-	0.10	<.01	5	<.001	wk fault zone
22231	58.6	60.1	0.50	-	0.10	<.01	5	0.002	"
22232	60.1	61.6	0.09	-	0.20	0.01	5	<.001	"
22233	61.6	63.1	0.12	-	0.20	0.01	5	0.001	wk fault zone
22234	63.1	64.6	0.38	-	0.10	0.01	5	0.012	"
22235	64.6	66.1	0.12	-	0.10	0.01	5	<.001	wk fault zone
22236	66.1	67.6	0.13	-	0.10	0.01	5	0.001	"
22237	67.6	69.1	0.15	-	0.10	0.01	5	0.001	"
22238	69.1	70.6	0.24	-	0.20	0.01	5	0.009	"
22239	70.6	72.1	0.22	-	0.10	0.01	5	0.004	"
22240	72.1	73.6	0.24	-	0.10	0.01	5	0.004	"
22241	73.6	75.1	0.21	-	0.10	0.01	5	0.002	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22242	75.1	76.6	0.18	-	0.20	0.01	5	0.002	Guichon/Hybrid:
22243	76.6	78.1	0.31	-	0.10	0.01	5	0.006	"
22244	78.1	79.6	0.21	-	0.10	0.01	5	0.019	"
22245	79.6	81.1	0.27	-	0.20	0.01	5	0.012	"
22246	81.1	82.6	0.22	-	2.70	0.08	5	0.06	crush zone
22247	82.6	84.1	0.44	-	0.10	0.01	5	0.009	"
22248	84.1	85.6	0.24	-	0.10	0.01	5	0.005	fault/crush zone
22249	85.6	87.1	0.29	-	0.20	0.01	5	0.01	(85.0-86.3 m)
22250	87.1	88.6	0.24	-	0.10	0.01	5	0.059	"
22251	88.6	90.1	0.17	-	0.10	0.01	5	0.012	Guichon/Hybrid:
22252	90.1	91.6	0.19	-	0.10	0.01	5	0.003	"
22253	91.6	93.1	0.18	-	0.10	0.01	5	0.002	"
22254	93.1	94.6	0.15	-	0.20	0.01	5	0.002	"
22255	94.6	96.1	0.29	-	0.10	0.01	5	0.002	"
22256	96.1	97.6	0.17	-	0.10	0.01	5	0.001	Guichon/Hybrid:
22257	97.6	99.1	0.25	-	0.10	0.01	5	0.008	"
22258	99.1	100.6	0.16	-	0.10	0.01	5	0.004	"
22259	100.6	102.1	0.09	-	0.10	0.01	5	0.001	"
22260	102.1	103.6	0.13	-	0.10	0.01	5	0.003	Hybrid?/Grey Porph
22261	103.6	105.1	0.34	-	0.10	0.01	5	0.003	FAULT ZONE
22262	105.1	106.6	0.13	-	0.10	0.01	5	0.003	"
22263	106.6	108.1	0.22	-	0.10	0.01	5	0.002	Hybrid/Guichon:
22264	108.1	109.6	0.18	-	0.10	0.01	5	0.002	Alt Porphyry:
22265	109.6	111.1	0.18	-	0.10	0.01	5	0.001	"
22266	111.1	112.6	0.22	-	0.10	0.01	5	0.013	Porphyry: wk altn
22267	112.6	114.1	0.22	-	0.10	0.01	5	0.006	"
22268	114.1	115.6	0.14	-	0.10	0.01	5	0.003	Porph, Bethlehem?
22269	115.6	117.1	0.09	-	0.10	0.01	5	0.002	"
22270	117.1	118.6	0.19	-	0.10	0.01	5	0.006	"
22271	118.6	120.1	0.37	-	0.20	0.01	5	0.007	"
22272	120.1	121.6	0.41	-	0.20	0.01	5	0.003	"
22273	121.6	123.1	0.16	-	0.20	0.01	5	0.003	"
22274	123.1	124.6	0.39	-	0.20	0.01	5	0.014	Guichon/Hybrid?:
22275	124.6	126.1	0.27	-	0.10	0.01	5	0.003	"
22276	126.1	127.6	0.25	-	0.30	0.01	5	0.005	"
22277	127.6	129.1	0.18	-	0.10	0.01	5	0.002	"
22278	129.1	130.6	0.15	-	0.10	0.01	5	0.001	"
22279	130.6	132.1	0.22	-	0.10	0.01	5	0.002	"
22280	132.1	133.6	0.18	-	0.10	0.01	5	0.004	"
22281	133.6	135.1	0.14	-	0.10	0.01	5	0.004	"
22282	135.1	136.6	0.22	-	0.10	0.01	5	0.005	"
22283	136.6	138.1	0.14	-	0.20	0.01	5	0.013	"
22284	138.1	139.6	0.24	-	0.30	0.01	5	0.029	"
22285	139.6	141.1	0.24	-	0.20	0.01	5	0.01	"
22286	141.1	142.6	0.55	-	0.10	0.01	5	0.022	"
22287	142.6	144.1	0.44	-	0.10	0.01	5	0.006	"
22288	144.1	145.6	0.22	-	0.10	0.01	5	0.017	Grey Porphyry:

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22289	145.6	147.1	0.21	-	0.10	0.01	5	0.005	Grey Porphyry:
22290	147.1	148.6	0.12	-	0.10	0.01	5	<.001	"
22291	148.6	150.1	0.17	-	0.10	0.01	5	0.004	Guichon/Hybrid?:
22292	150.1	151.6	0.20	-	0.10	0.01	5	0.003	"
22293	151.6	153.1	0.25	-	0.10	0.01	5	0.007	Guichon/Hybrid:
22294	153.1	154.6	0.34	-	0.10	0.01	5	0.004	"
22295	154.6	156.1	0.25	-	0.10	0.01	5	0.002	Guichon?/Hybrid?:
22296	156.1	157.6	0.43	-	0.10	0.01	5	0.005	"
22297	157.6	159.1	0.44	-	0.10	0.01	5	0.002	Guichon/Hybrid:
22298	159.1	160.6	0.40	-	0.10	0.01	5	0.003	"
22299	160.6	162.1	0.18	-	0.10	0.01	5	0.001	Guich/Hyb/Porph?:
22300	162.1	163.6	0.31	-	0.10	0.01	5	0.003	wk fault zone
22301	163.6	165.1	0.39	-	0.10	0.01	5	0.006	Guichon/Hybrid:
22302	165.1	166.6	0.46	-	0.10	0.01	5	0.005	(grey porph = 7 cm)
22303	166.6	168.1	0.61	-	0.10	0.01	5	0.008	Guich/Hyb/Porph:
22304	168.1	169.6	0.41	-	0.10	0.01	5	0.003	wk fault zone
22305	169.6	171.1	0.32	-	0.10	0.01	5	0.001	"
22306	171.1	172.6	0.18	-	0.10	0.01	5	0.001	Guichon/Hybrid:
22307	172.6	174.1	0.23	-	0.10	0.01	5	0.001	(porph?)
22308	174.1	175.6	0.30	-	0.10	0.01	5	0.001	"
22309	175.6	177.1	0.26	-	0.10	0.01	5	0.001	"
22310	177.1	178.6	0.45	-	0.10	0.01	5	0.001	"
22311	178.6	180.1	0.09	-	0.10	0.01	5	<.001	"
22312	180.1	181.6	0.08	-	0.10	0.01	5	<.001	"
22313	181.6	183.1	0.13	-	0.10	0.01	5	0.001	"
22314	183.1	184.6	0.16	-	0.10	0.01	5	<.001	"
22315	184.6	186.1	0.14	-	0.20	0.01	5	0.002	"
22316	186.1	187.6	0.16	-	0.10	0.01	5	0.001	"
22317	187.6	189.1	0.10	-	0.10	0.01	5	0.001	"
22318	189.1	190.6	0.14	-	0.10	0.01	5	0.001	"
22319	190.6	192.1	0.08	-	2.60	0.08	5	0.151	small sections of
22320	192.1	193.6	0.16	-	0.20	0.01	5	0.046	Hyb/Hyb Porph
22321	193.6	195.1	0.09	-	0.10	0.01	5	<.001	"
22322	195.1	196.6	0.10	-	0.10	0.01	5	0.001	"
22323	196.6	198.1	0.06	-	0.10	0.01	5	<.001	Guichon:
22324	198.1	199.6	0.10	-	0.10	0.01	5	<.001	"
22325	199.6	201.1	0.08	-	0.10	0.01	5	<.001	"
22326	201.1	202.6	0.09	-	0.20	0.01	5	<.001	"
22327	202.6	204.1	0.08	-	0.10	0.01	5	<.001	"
22328	204.1	205.6	0.09	-	0.10	0.01	5	0.001	"
22329	205.6	207.1	0.10	-	0.10	0.01	5	<.001	"
22330	207.1	208.6	0.12	-	0.10	0.01	5	0.001	"
22331	208.6	210.1	0.07	-	0.10	0.01	5	<.001	"
22332	210.1	211.6	0.08	-	0.20	0.01	5	0.001	"
22333	211.6	213.1	0.06	-	0.10	0.01	5	<.001	"
22334	213.1	214.6	0.08	-	0.20	0.01	5	<.001	"
22335	214.6	216.1	0.11	-	0.10	0.01	5	0.002	"

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22336	216.1	217.6	0.05	-	0.10	0.01	5	<.001	Guichon:
22337	217.6	219.1	0.10	-	0.10	0.01	5	0.001	"
22338	219.1	220.6	0.10	-	0.10	0.01	5	0.001	"
22339	220.6	222.1	0.06	-	0.10	0.01	5	0.001	"
22340	222.1	223.6	0.05	-	0.10	0.01	5	<.001	"
22341	223.6	225.1	0.10	-	0.10	0.01	5	0.011	hybrid (5 cm)
22342	225.1	226.6	0.15	-	0.10	0.01	5	0.001	Guichon:
22343	226.6	228.1	0.05	-	0.10	0.01	5	<.001	"
22344	228.1	229.6	0.04	-	0.10	0.01	5	<.001	"
22345	229.6	230.7	0.04	-	0.10	0.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	95-22	Date	12-Oct							Logged by	PM								
Elevation	1706.8 m	Azimuth	045							Northing:	5603903.5								
Inclination	-45	Length	217.0 m							Easting:	641691.3								
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				
6.1-11.3	Overburden																		
11.3-15.5	Guichon		stng bkn	chl, ser			hem, Mn	cl? -	chl	ser							(H ₂ SO ₄ positive)		
15.5-17.7	Guichon	loc gge 16.6	mod	chl, ser, (carb)	carb at 17.3 m at 30° C.A.	hem in gge		hem, Mn	chl ser	chl ser carb		(hem)			(cpy) (py)		Moderately well prepared rock.		
17.7-21.2	Guichon/ Hybrid		stng	ser, chl, (carb)	carb at 10° C.A. <0.5 cm at 18.1 m		hem, Mn		(ser) chl (bio)	ser (carb)	(chl?)			(py?) (py)	wk		Guich, creamy dark grey with mottled pink. 0.2% py		
21.2-25.5	Guichon/ Hybrid		mod/stng	(ser) (chl) carb	carb/hem at 10° C.A. <0.5 cm		hem Mn		chl (ser) (ep)	(ser) (chl) carb				(py) (cpy)	(py)	wk/ mod	Wk chl healed fract. 0.5% py		
25.5-28.6	Guichon/ Hybrid pink speckled		stng bkn/ (dis bx)	carb (ser), chl	carb vnlt wk		hem (Mn)		chl (bio) ser carb	carb (ser) chl				(py) (cpy)	cpy py	wk	loc carb and chl healed crushed area with cpy at 25.9 m. Py>cpy. 1% py		
28.6-33.0	Guichon/ Hybrid pink speckled	gge at 30.7m <15 cm at 20° C.A.	stng bkn/fault	carb, ser, chl	wk carb vnlt	(loc hem)	(hem)		(carb) (ser) chl (loc ep) (carb)	carb ser chl				(py) (cpy)	(py) (cpy)	wk	Alternating sections of altered and unaltered Guichon granodiorite. 0.5% py		
33.0-36.1	Guichon/ Hybrid pink speckled		mod stng loc crushed	carb, (ser) chl	carb at 20° C.A. <0.5 cm		hem		(chl) (ser) (carb)	carb (ser) chl		hem		(py) (cpy)	(py) (cpy)	wk/ mod	Moderately healed fract. Massive carb at 33.2 m ~ 5 cm.		
36.1-39.5	Guichon/ Hybrid pink speckled	loc	stng bkn	carb, chl, ser			(hem)		patchy ep (chl) (ser)	carb, chl ser		(hem)		(py) (cpy)	(py)	wk	Py>cpy. 0.5% py		
39.5-43.0	Guichon/ Hybrid	loc at 40.4m	stng bkn loc crushed	carb, ser, chl					ep (chl) (ser)	carb ser (carb)	chl (ep)			(py) (cpy)	(py) (cpy)	wk	Py> Cpy. 0.5% py		

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			
43.0-46.8	Guichon/ Hybrid	wk loc at 46.3 m	stng bkn loc crushed	(carb), ser, chl	(ser)	-	-	-	ep (chl) alb (ser) (cly in gge)	ser chl (ep)	chl (ep)	-	-	(py) (py) (cpy)	(py) (py)	wk	Partially assimilated xenolith. 0.5% py.
46.8-51.1	Guichon/ Hybrid pink speckled	loc 49.3 m 1 cm	stng bkn	chl, ser, carb	ep 1 cm at 45° C.A. ep & qtz healed carb vnits	(hem)	(hem)	-	cly in gge. Ksp w/ Fe stn ep, alb	ep	chl	(hem)	-	(cpy) (py)	(cpy) py	-	Cpy with epidote vnits. Assimilated xenoliths? Py>cpy. 1% py
51.1-56.9	Guichon/ Hybrid pink speckled	loc cly	mod/stng at ~ 90° C.A. loc crush w/cly slip surfaces	carb, ser, (chl)	microfracts chl & ser	-	(hem)	-	(cly) (loc ep) chl (ser)	carb (cly) ser (chl)	chl	(hem)	(hem)	(cpy) py	(cpy) py	wk	Guichon/Hybrid, shows increase in mafic, becoming more mottled/hybridized at base of interval. 2% py. Fract py>pervasive py.
56.9-58.2	Bethlehem? bio-hbde-fsp crowded Porphyry	-	mod/stng	carb	sulphide healed vnits ser env < 0.5 cm	-	-	-	(ep) (chl) (ser)	carb	chl	-	-	(cpy)	py	wk	Porphyry with Ksp rich (brown) very fine grained/ aphanitic groundmass. Weak diss ep, alteration of feldspars. Phenos <1 mm. Mafics to 5 mm.
58.2-61.5	Porphyry	-	mod/stng 58.6-59.0 m shattered	carb	sulphide healed vnits ser env < 0.5 cm	-	-	-	ep w/ phenos & maf (chl) (ser)	carb	chl ep?	-	-	(cpy)	py	wk	Becoming more mottled in appearance. Ep now with mafics. Patchy. Scattered patchy K-sp May be related to either Fp-1 ro D3 porphyries. Check cross sections. 2% py.
61.5-64.8	Guichon/ Hybrid	-	mod/loc shatt	carb, chl, ser	carb to 1cm at 40° C.A.	Fe in Ksp	-	-	Ksp w/ Fe stn wk patchy ep, (chl) (ser)	carb ser chl loc ep w/ fracts	chl ep	-	-	cpy	py cpy	mod/ wk	Chl-rich patches at 62.0 ~ 20 cm. Loc incursions mod/coarse grained Guich. Ksp enriched. Shows increase in cpy but py is still > cpy. Py 1.5%
64.8-68.5	Guichon/ Hybrid Fault zone	66.4 & 66.6 m ~ 10 cm w/ cly	stng/shatt	carb, ser, (chl) (cly)	sulph healed carb vnits wk loc carb gash vnit	-	-	-	(loc cly in gge) ser chl wk loc Ksp bio. cly carb	carb ser (chl) (cly)	-	-	-	(cpy)	py cpy	wk	Local beaching- Hybrid becoming mafic-rich Guichon. Py~cpy. Cpy increasing. Py 1.5%
68.5-72.3	Guichon/ Hybrid, stng mottled	68.6, 10-15 cm gge 63.6 10 cm	wk/mod abd healed fracts	carb, ser, chl cly	qtz w/cpy & mo at 72m at ~ 80°C.A.	-	-	-	chl ser cly	cly carb ser	-	-	-	(cpy)	(cpy) py	wk	Carb frags as well as veinlets. Cpy > py Py 1.5%

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)																	
	w/dark grey/black, Fault zone	gge. 70.2-20 cm gge			mod sulph healed microfracts w/blch envs				carb	chl							
72.3-75.7	Guichon/Hybrid		mod/stng bkn	chl, ser, carb	mod healed chl fracts w/sulph blch env	(hem) loc	(hem)		ser ep chl (carb)	chl ser carb			(cpy) py	(cpy) py	wk	Patchy ser, ep alteration. Weak secondary bio. Py veinlets > pervasive py. Py 2%	
75.7-79.6	Guichon/Hybrid		stng, wk dis bx (cly & ser crushed)	(chl), (carb) (ser)	sulph healed vns <0.5 cm w/ser env carb vn 20° C.A. ~0.5 cm at 72.2 m		(hem)		(ep) (chl) (ser)	(chl) (carb) (ser) (cly)			(cpy) (py)	(cpy) py	wk	"Cleaning up" more recognizable Guich. 2% py. Py veinlets > pervasive py.	
79.6-83.1	Guichon/Hybrid	5 cm at 79.5 m	mod/stng bkn	(chl) ser carb	mod sulph vnits ser alt env chl ser qtz microvnits		(hem)		ep (ser) chl (carb) (sil)	ser chl (carb)	chl		cpy	cpy py	wk	Numerous qtz + py ± cpy veinlets. 0.5-3 mm. 3% py.	
83.1-87.6	Guichon/Hybrid pink speckled		wk/stng bkn	chl, ser, carb	mod sulph vnits ser alt env chl ser qtz microvnits	hem w/ Ksp ?			(ep) (ser) (chl) (bio)	ser chl carb	chl		(cpy) (mo??)	cpy py	wk/mod	1.5 % py.	
87.6-89.9	Guichon/Hybrid	89.2 ~ 4 cm	stng bkn	carb, chl, ser	wk sulph vnits, ser alt env chl, ser, qtz microvnits	(hem)			ser (patchy ep) chl (bio) (cly)	carb chl ser			(cpy)	cpy py	wk	1.5% py.	
89.9-93.4	Guichon/Hybrid fault zone	93.1-93.4 m w/ dis bx	stng/int bkn, loc crushed dis bx loc	carb, chl, ser carb frags	wk sulph vnits, ser alt env chl, ser, qtz microvnits	loc hem			chl (bio) cly carb ser	chl ser carb			cpy	py cpy	wk	Finer grained/darker, more mafic rich. Cpy>py.	
93.4-97.9	Guichon/Hybrid Fault zone	stng gge slip surfac's	gge & dis bx fault zone loc comp sections	cly, chl, ser (carb)	qtz 0.5 cm at 90°C.A. healed sulph microfracts w/ blch env var angles				cly ser chl carb	cly ser chl (carb)			cpy (py)	cpy py	tr	Check Mo, has bluish tint. Should grade. 1% py	

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
97.9-101.4	Guichon/ Hybrid		shatt to mod/ stng bkn	chl, ser, (carb), (cly)	sulph filled microfracts ser alt env. qtz at 10° & 0° C.A. w/ MoS ₂ & cpy				ser chl	ser chl			(py) cpy	py cpy	tr	Should grade well. Cpy>py 25 py. Weak qtz + py stockwork. Qtz + py + cpy veinlets 0.5-2 mm.		
101.4-105.2	Guichon/ Hybrid Fault zone	loc	stng bkn loc shatt crushed	chl, ser, (carb), cly	qtz at 30° C.A. 1 cm w/ py & MoS ₂ . Several others < 0.5 cm				chl ser (bio) carb cly	chl ser (carb)			cpy (py)	mo py cpy	tr	As above. Weak crosscutting qtz + py veinlets 1-2 mm with bleached envelopes. 1% py.		
105.2-109.3	fault zone Guichon	108.1- 108.8 m crushed w/ cly	wk & loc crushed	chl, ser, (carb), cly	wk carb vnits				chl ser (bio) carb	chl ser (carb)			cpy (py)	mo py cpy	tr			
109.3-113.1	Guichon Fault zone	gge 110.6- 111.2 m & crushed dis bx	loc fault dis bx mod	chl, ser, (carb), cly	carb cluster at 20° C.A. 3 cm total qtz to 0.5cm at 10° C.A. w/MoS ₂				chl ser carb cly	chl ser (carb)			cpy (py)	mo py cpy	tr	1.5% py		
113.1-115.9	Hybrid/ Guichon Porphyry contact at 115.9 m		stng, loc shatt	wk carb, wk chl, ser	mod micro- fracts, chl carb				ser chl carb (cly)	(chl) ser			cpy (py)	(cpy) (py) (mo)	wk/ mod	Becoming less mottled but still locally strong pervasive chl. 2% py.		
115.9-120.6	Porph contact at 117.0 m Guichon/ Hybrid		stng bkn	ser, (carb) (chl)	wk micro- fracts w/ chl, ser		(hem)		(chl) (ser) loc ep assoc fracts	ser carb chl	chl		(cpy)	cpy py (mo)	wk/tr	Cleaning up to Guichon. 2% py. Fracture py> pervasive py.		
120.6-123.2	Porphyry: red brown K-sp rich, Fp1? Fault zone	122.9- 123.2 m	stng/int w/ fault zone. dis bx and gge	(ser) (chl) (loc carb)	wk micro- fracts w/ ser alt env qtz vn frag w/MoS ₂				(ser) (chl) (carb)	(ser) (chl) (carb)			(cpy) (py)	(mo) py (cpy)	tr	Similar to reddish brown K-sp rich Porph farther up hole. Weak pervasive cpy/py in mafics. Feldspar/Qtz-feldspar porphyry; probably Fp1 variation. 1% py.		
123.2-126.7	Porphyry Fp1?	loc at 126.1 & 123.4 m	stng loc in/ crush in gge	(ser) (chl) (loc carb)	mod micro- fracts w/ ser alt env qtz vn frag w/MoS ₂				chl (ser) Ep fract controlled	ser chl carb		(hem)	(py) cpy	(cpy) py	wk	Porphyry <u>mottled</u> by K-sp and chl.		

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
126.7-130.6	Porphyry Fp1?		stng bkn, loc crush	carb, (ser) (chlr)	mod/stng sulph healed microfracts w/ser altn env, some w/chlr				(chlr) loc ser	carb (ser) (chlr)			(cpy) (py)	(py)	wk	Shows some variation in matrix crystal size. Weak chlr + qtz ± py microstockwork. 1.5% py. Medium to coarse grained hbde-qtz-feldspar crowded porphyry.		
130.6-134.0	Porph, mottled pink and med grey. Var in crystal size		stng bkn/shatt very fine microfracts	carb, (ser) (chlr)	carb & mod/stng sulph healed microfracts w/ser altn env, some w/chlr, very fine microfracts				(carb) loc ser (patchy dark chlr) (loc ep)	carb (ser) (chlr)		(hem)	(cpy) (py)	py (cpy)	wk/ mod	Pink brown K-sp rich and dark grey chlr-rich intervals. Variation in matrix crystal size. Cpy<py. 1% py. Crosscutting chlr + qtz + py veinlets 0.5-2 mm.		
134.0-136.6	Guichon/ Hybrid		stng bkn/int, loc crushed	carb, ser (chlr)	carb vns & frags				ser, carb ep chlr	carb ser (chlr)		(hem)	(cpy) (py)	cpy py	wk/tr			
136.6-141.7	Hybrid, dark grey/black		stng bkn/int	carb, chlr, (ser)	ep/chlr healed fract		(hem)		ep patches chlr wk alb? (ser)	carb chlr (ser)	chlr	(hem)	py (cpy)	py cpy	tr	Hybrid, dark grey/black, intervals ep patches, fract controlled with incursions of Hybrid Guichon increasing to predominant at bottom of interval. Very fine diss sulphides in mafics. 2% py		
141.7-145.1	Hybrid/ Guichon Fault zone starts at 143.5 m.	ext 1 m // to C.A. ~ 2 cm thick	mod/loc crushed/gge	(carb)(chlr) (ser)	carb, mod healed fract sulph w/ ser env. qtz v frag, MoS ₂ and cpy	(hem)			wk alb/ Ksp sec bio ser (ep) (chlr)	(carb) (chlr) (ser)	chlr	(hem)	(py) (cpy)	py (cpy) (mo)	tr	Patchy chlr. MoS ₂ in qtz veins parallel to C.A. 1.5% py.		
145.1-149.5	Hybrid Fault zone	loc gge	fault, dis bx loc comp sec- tions 0.2-0.3m	chlr, (ser), (carb)	qtz/carb vnits/micvns 45° C.A. sulph in fracts, py & cpy	(hem)			chlr carb ser cly	chlr (carb) (ser)		(hem)	py cpy	py (cpy) (mo)	tr/wk	Should grade well! Py 1%		
149.5-153.1	Hybrid Fault zone	loc gge	stng bkn/ dis bx	chlr, carb, (ser)	carb in fract stng micro- fracts				chlr carb ser cly	chlr carb (ser)		(hem)	(py) (cpy)	py	tr	Well prepared rock---cross cutting microfract, strong chlr alteration. 2% py.		

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	Hybrid		FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary				
									perv.	fract.		perv	fract	perv				fract
153.1-156.7	Hybrid	-	stng-mod bkn	carb, chlr, ser	carb vn frag stng micro- vns, some w/ser envs	(hem)	-	-	chlr carb ser	carb chlr ser	-	(hem)	-	py cpy	py (cpy)	tr		
156.7-159.6	Hybrid/ Guichon	158.1m gge	mod, loc stng/ crushed	carb, (chlr) ser	wk carb vnlt 0.5 cm at 30° C.A.	-	-	-	(chlr) carb ser cly	carb (chlr) ser	-	-	-	(cpy) (py)	py (cpy)	tr	Healed microveinlets with chlr, sulph carb; ser bleached envelopes. Py>cpy.	
159.6-165.2	Hybrid/ Guichon	v loc gge 160.8 m	mod/loc stng/crushed	ser, (chlr) carb	carb vns/ vnlt. sulph in vuggy vnlt ser > qtz	-	-	-	chlr ser carb ep (bio) (cly)	carb ser (chlr)	-	-	-	(cpy) (py)	py (cpy)	tr	3 % py. numerous crosscutting qtz + chlr + py veinlets 1-3 mm with bleached envelopes.	
165.2-169.0	Porphyry	v loc thin	mod	chl, ser, carb	microvnlt sulph ser healed fract qtz ser env	hem	-	-	chl (ep) ser at contact	chl ser carb	chl	-	-	-	cpy mo	mod/ wk	Very patchy nature. Partial assimilation. Altered Probably chilled. 1.5% py.	
169.0-173.0	Guichon/ Hybrid Fault zone	loc gge 2cm at 171.3 at 20° C.A.	stng fract/ stng bkn	chl, ser, carb	wk micro- vnlt	-	-	-	chl ep carb (cly) ser	chl ser carb	-	-	-	py cpy	(cpy) (py)	tr/wk	Strong patchy chl, ep alteration. Hyb Guich incursions. Recrystallization of Nicola(?)	
173.0-176.9	Hyb/Guichon Fault zone	loc gge intervals	stng/int dis bx	chl, ser, (carb)	qtz vn to 1 cm. Chlr/ carb fract w/sulph	(hem)	-	-	(ep) ser chl carb	chl ser carb	-	-	-	py cpy	(cpy w irrid py)	tr/wk	1% py.	
176.9-180.6	Guichon/ Hybrid	-	mod/stng loc stng bkn	ser, chl, carb	chl/ser/ carb healed fract some w/sulph	-	-	-	ser ep w/ fract (bio) (chl) (cly)	ser chl carb	-	-	-	-	py cpy	wk	"Cleaner" Guichon Hyb--less assimilated material. Cpy>py. 2% py.	
180.6-184.1	Hyb/Guichon Hyb rext'd xenoliths	-	mod, loc bkn	(ser), (chl) (carb)	carb vnlt microfract healed as abv	-	(hem)	-	chl ep (ser) alb? (bio)	(ser) (chl) (carb)	-	(hem)	?	-	py (cpy)	wk	Intermixed Guich hyb with Hyb. recrystallized Nicola(?) Py>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		
184.1-188.3	Guichon/ Hybrid pink speckled	-	wk/mod	(ser), (chlr) (carb)	carb/chlr/ ser healed fracts some w/ sulph	(hem)	-	-	ep w/fr (chlr) (alb) (bio)	(ser) (chlr) (carb)	ep alb Ksp?	-	(hem)	(cpy)	py (cpy)	wk	"Cleaned up" again. Intervals of contaminated Guich and mafic-rich Guichon. 3% py.
188.3-191.8	Guichon/ Hybrid pink speckled	loc	mod/stng bkn loc crushed slip surfaces	ser, chlr, carb (cly)	as abv, carb, chlr, ser	(hem)	-	-	(carb) ep w/fr (chlr) (alb) (bio)	(ser) (chlr) (carb)	ep alb Ksp?	-	(hem)	(cpy)	py (cpy)	wk	
191.8-195.8	Guichon Hyb w/assim xenos at 10cm 194.3 and 195.4 m at 40 cm Wk fault zone	loc	mod/stng bkn loc crushed slip surfaces	ser, chlr, carb (cly)	ckle micro vnits, ser chlr, carb some sulph	(hem)	(hem)	-	(bio) (chlr) ser	ser chlr carb (cly)	chlr	-	(hem)	(cpy)	cpy py	wk	Guichon/Hybrid with assimilated xenos. 1% py
195.8-199.4	Guichon/ Hybrid Wk fault zone	loc	mod/stng bkn, loc crushed	ser, chlr, (carb)	ckle micro vnits, ser chlr, carb some sulph	(hem)	(hem)	-	(bio) (chlr) ser	ser, chlr (carb)	chlr	-	(hem)	(cpy) (py)	cpy py	wk	"Cleaned up" again.
199.4-203.0	Guichon/ Hybrid Wk fault zone starts at 201.0 m.	loc thin and some slip surfaces: subparallel	mod/stng loc bkn/crushed	ser, chlr, carb (cly)	carb micro vnits w/ py + (cpy)	(loc hem)	(hem)	-	(loc ep) patchy chlr & ser alb?	ser, chlr carb (cly)	chlr	-	(hem)	(py) (cpy)	(cpy) py (mo)		Most slip surfaces show movement perpendicular to C.A. Possible hem stain alb? Loc strong alteration env--bleached qtz/ser/(chlr)--to 2.0 cm. 1% py
203.0-206.2	Guichon/ Hybrid Wk fault zone ends at 205.0 m	loc thin at ~ 10° C.A.	mod/loc bkn loc crushed	carb, chlr, ser cly in gge	mod irreg carb vnits	patchy hem	(hem)	-	loc ser chlr (ep) alb? (bio)	carb chlr ser cly in gge ep	chlr	-	(hem)	(cpy) (py)	py	tr	Py>>cpy loc strong pervasive chlr alteration associated with concentration of carb vnits. 1.5% py.
206.2-209.9	Guichon/ Hybrid	loc thin 207.4 m	mod/stng loc crushed	carb, chlr (ser), (cly) in gge	wk irreg carb vnits w/hem stn	-	(hem)	-	chlr ser (carb) (bio)	carb chlr (ser) (cly in gge)	chlr	-	-	(cpy) (py)	py cpy	tr/wk	Ser/carb healed fracts with py and cpy. 2% py
209.9-213.4	Guichon/ Hybrid	-	mod/stng loc shatt	carb, chlr, ser	mod/stng irreg carb vnits w/ hem stn, cpy + (mo)	-	-	-	carb cly chlr (loc ep) ser	carb chlr ser	-	-	-	(py) (cpy)	py (cpy)	wk/ mod	Loc strong pervasive carb and irregular qtz/carb vnits and void filling, 212.0-213.0 m. with associated strong pervasive chlr alteration. 2% py.

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.				
213.4-317.0	Guichon/ Hybrid	-	wk/mod	chl, carb, ser	wk irreg carb vnlt wk chl/ser healed fracts w/cpy	-	-	-	chl carb ser (cly) (bio)	chl carb ser	chl	-	-	(py) (cpy)	(cpy) (py)	mod	Guich Hyb loc mafic rich with black (secondary?) biotite. Cleaning up with depth. 2% py
EOH 217.0 m																	

Northing: 5603903.5		DDH 95-22					Azimuth: 045		
Easting: 641691.3		Elevation: 1706.8 m					Inclination: -45		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
22346	9.1	10.6	0.03	0.02	-	-	-	-	Guichon:
22347	10.6	12.1	0.03	0.02	-	-	-	-	"
22348	12.1	13.6	0.03	0.02	-	-	-	-	"
22349	13.6	15.1	0.03	0.02	-	-	-	-	"
22350	15.1	16.6	0.03	0.03	-	-	-	-	"
22351	16.6	18.1	0.04	0.03	-	-	-	-	Guichon/Hybrid:
22352	18.1	19.6	0.06	0.03	-	-	-	-	"
22353	19.6	21.1	0.03	0.02	-	-	-	-	"
22354	21.1	22.6	0.07	0.02	-	-	-	-	"
22355	22.6	24.1	0.09	0.02	-	-	-	-	"
22356	24.1	25.6	0.13	0.02	-	-	-	-	"
22357	25.6	27.1	0.25	0.04	-	-	-	-	"
22358	27.1	28.6	0.20	0.01	-	-	-	-	"
22359	28.6	30.1	0.08	0.01	-	-	-	-	"
22360	30.1	31.6	0.08	0.01	-	-	-	-	"
22361	31.6	33.1	0.07	0.01	-	-	-	-	"
22362	33.1	34.6	0.06	0.01	-	-	-	-	"
22363	34.6	36.1	0.07	0.01	-	-	-	-	"
22364	36.1	37.6	0.08	-	0.10	0.01	5	<.001	Guichon:
22365	37.6	39.1	0.07	-	0.10	0.01	5	<.001	"
22366	39.1	40.6	0.07	-	0.10	0.01	5	<.001	"
22367	40.6	42.1	0.15	-	0.20	0.01	5	<.001	"
22368	42.1	43.6	0.05	-	0.10	0.01	5	<.001	"
22369	43.6	45.1	0.09	-	0.20	0.01	5	<.001	"
22370	45.1	46.6	0.06	-	0.10	0.01	5	<.001	"
22371	46.6	48.1	0.08	-	0.20	0.01	5	<.001	Guichon/Hybrid:
22372	48.1	49.6	0.10	-	0.20	0.01	5	<.001	"
22373	49.6	51.1	0.07	-	0.10	0.01	5	<.001	"
22374	51.1	52.6	0.10	-	0.20	0.01	5	<.001	"
22375	52.6	54.1	0.11	-	0.10	0.01	5	<.001	"
22376	54.1	55.6	0.09	-	0.10	0.01	5	<.001	"
22377	55.6	57.1	0.06	-	0.10	0.01	5	<.001	Hybridized
22378	57.1	58.6	0.03	-	0.10	0.01	5	<.001	Beth Porphyry:
22379	58.6	60.1	0.03	-	0.10	0.01	5	<.001	Porphyry:
22380	60.1	61.6	0.04	-	0.10	0.01	5	<.001	Hybrid:
22381	61.6	63.1	0.09	-	0.10	0.01	5	0.002	"
22382	63.1	64.6	0.09	-	0.20	0.01	5	<.001	Hyb grading to
22383	64.6	66.1	0.10	-	0.10	0.01	5	<.001	Guichon
22384	66.1	67.6	0.10	-	0.10	0.01	5	<.001	"
22385	67.6	69.1	0.07	-	0.10	0.01	5	<.001	Hybrid:
22386	69.1	70.6	0.14	-	0.10	0.01	5	0.001	"
22387	70.6	72.1	0.09	-	0.20	0.01	5	0.001	"
22388	72.1	73.6	0.09	-	0.10	0.01	5	0.002	Guichon/Hybrid:
22389	73.6	75.1	0.12	-	0.10	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							
22390	75.1	76.6	0.14	-	0.10	0.01	5	<.001	Guichon/Hybrid:
22391	76.6	78.1	0.19	-	0.20	0.01	5	0.002	"
22392	78.1	79.6	0.11	-	0.20	0.01	5	0.003	"
22393	79.6	81.1	0.22	-	0.10	0.01	5	0.005	"
22394	81.1	82.6	0.11	-	0.10	0.01	5	0.001	"
22395	82.6	84.1	0.18	-	0.20	0.01	5	0.001	"
22396	84.1	85.6	0.19	-	0.20	0.01	5	0.001	"
22397	85.6	87.1	0.13	-	0.20	0.01	5	<.001	"
22398	87.1	88.6	0.20	-	0.20	0.01	5	0.001	"
22399	88.6	90.1	0.18	-	0.10	0.01	5	0.001	"
22400	90.1	91.6	0.21	-	0.20	0.01	5	0.002	"
22401	91.6	93.1	0.36	-	0.10	0.01	5	0.002	"
22402	93.1	94.6	0.27	-	0.10	0.01	5	0.003	Hybrid:
22403	94.6	96.1	0.41	-	0.30	0.01	5	0.009	fault zone
22404	96.1	97.6	0.71	-	0.20	0.01	5	0.011	"
22405	97.6	99.1	0.36	-	0.20	0.01	5	0.003	"
22406	99.1	100.6	0.40	-	0.10	0.01	5	0.031	"
22407	100.6	102.1	0.49	-	0.10	0.01	10	0.007	"
22408	102.1	103.6	0.37	-	0.10	0.01	5	0.011	"
22409	103.6	105.1	0.29	-	0.20	0.01	5	0.003	"
22410	105.1	106.6	0.31	-	0.20	0.01	5	0.002	Hybrid/Guichon:
22411	106.6	108.1	0.26	-	0.10	0.01	5	0.006	(cleaner)
22412	108.1	109.6	0.34	-	0.20	0.01	5	0.006	"
22413	109.6	111.1	0.54	-	0.20	0.01	5	0.011	Hybrid:
22414	111.1	112.6	0.30	-	0.10	0.01	5	0.002	"
22415	112.6	114.1	0.41	-	0.20	0.01	5	0.053	Hybrid/Guichon/
22416	114.1	115.6	0.30	-	0.20	0.01	5	0.001	PORPHYRY :
22417	115.6	117.1	0.32	-	0.20	0.01	5	0.003	contact at 115.9 m
22418	117.1	118.6	0.22	-	0.10	0.01	5	0.006	& at 117.0 m
22419	118.6	120.1	0.22	-	0.20	0.01	5	0.003	"
22420	120.1	121.6	0.16	-	0.10	0.01	5	0.002	Porphyry:
22421	121.6	123.1	0.21	-	0.10	0.01	5	0.003	"
22422	123.1	124.6	0.24	-	0.10	0.01	5	0.002	"
22423	124.6	126.1	0.20	-	0.10	0.01	5	0.002	"
22424	126.1	127.6	0.20	-	0.10	0.01	5	<.003	"
22425	127.6	129.1	0.17	-	0.10	0.01	5	0.008	"
22426	129.1	130.6	0.20	-	0.10	0.01	5	0.009	"
22427	130.6	132.1	0.21	-	0.20	0.01	10	0.003	"
22428	132.1	133.6	0.15	-	0.10	0.01	5	0.001	"
22429	133.6	135.1	0.39	-	0.20	0.01	5	0.003	Guichon/Hybrid:
22430	135.1	136.6	0.25	-	0.20	0.01	5	<.001	"
22431	136.6	138.1	0.21	-	0.10	0.01	5	0.007	"
22432	138.1	139.6	0.19	-	0.10	0.01	5	0.003	Hybrid:
22433	139.6	141.1	0.14	-	0.10	0.01	5	0.001	"
22434	141.1	142.6	0.16	-	0.10	0.01	5	0.002	Hybrid/Guichon:
22435	142.6	144.1	0.19	-	0.10	0.01	5	0.034	"
22436	144.1	145.6	0.19	-	0.10	0.01	5	0.062	Hybrid: fault zone

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22437	145.6	147.1	0.19	-	0.10	0.01	5	0.001	Hybrid:
22438	147.1	148.6	0.07	-	0.10	0.01	5	0.001	"
22439	148.6	150.1	0.29	-	0.10	0.01	5	0.001	"
22440	150.1	151.6	0.07	-	0.10	0.01	5	0.001	"
22441	151.6	153.1	0.10	-	0.10	0.01	5	0.001	"
22442	153.1	154.6	0.09	-	0.10	0.01	5	0.002	"
22443	154.6	156.1	0.19	-	0.10	0.01	5	<.001	"
22444	156.1	157.6	0.14	-	0.10	0.01	5	0.002	Hybrid/Guichon:
22445	157.6	159.1	0.20	-	0.10	0.01	5	0.002	"
22446	159.1	160.6	0.10	-	0.10	0.01	5	0.001	"
22447	160.6	162.1	0.12	-	0.10	0.01	5	0.001	"
22448	162.1	163.6	0.13	-	0.10	0.01	5	0.002	"
22449	163.6	165.1	0.24	-	0.10	0.01	5	0.001	"
22450	165.1	166.6	0.05	-	0.10	0.01	5	0.001	Hybrid:
22451	166.6	168.1	0.12	-	0.10	0.01	5	0.006	assim Nicola?
22452	168.1	169.6	0.28	-	0.20	0.01	5	0.002	"
22453	169.6	171.1	0.12	-	0.20	0.01	5	0.001	"
22454	171.1	172.6	0.11	-	0.10	0.01	5	0.001	"
22455	172.6	174.1	0.04	-	0.10	0.01	5	<.001	Hybrid/Guichon:
22456	174.1	175.6	0.06	-	0.10	0.01	5	0.003	fault zone
22457	175.6	177.1	0.20	-	0.20	0.01	5	<.001	Guichon/Hybrid:
22458	177.1	178.6	0.20	-	0.20	0.01	5	<.001	"
22459	178.6	180.1	0.09	-	0.10	0.01	5	<.001	"
22460	180.1	181.6	0.08	-	0.10	0.01	5	0.001	recrystallized
22461	181.6	183.1	0.10	-	0.10	0.01	5	0.002	xenoliths
22462	183.1	184.6	0.07	-	0.10	0.01	5	<.001	"
22463	184.6	186.1	0.06	-	0.10	0.01	5	<.001	Guichon/Hybrid:
22464	186.1	187.6	0.06	-	0.10	0.01	5	0.001	"
22465	187.6	189.1	0.06	-	0.10	0.01	5	<.001	"
22466	189.1	190.6	0.06	-	0.10	0.01	5	<.001	"
22467	190.6	192.1	0.07	-	0.10	0.01	5	<.001	assimilated
22468	192.1	193.6	0.06	-	0.10	0.01	5	<.001	xenoliths at
22469	193.6	195.1	0.06	-	0.10	0.01	5	0.001	194.3 & 195.4 m
22470	195.1	196.6	0.06	-	0.10	0.01	5	0.002	"
22471	196.6	198.1	0.05	-	0.10	0.01	5	<.001	"
22472	198.1	199.6	0.06	-	0.10	0.01	5	<.001	"
22473	199.6	201.1	0.03	-	0.20	0.01	5	0.001	"
22474	201.1	202.6	0.09	-	0.10	0.01	5	0.001	"
22475	202.6	204.1	0.05	-	0.10	0.01	5	<.001	"
22476	204.1	205.6	0.07	-	0.10	0.01	5	<.001	"
22477	205.6	207.1	0.05	-	0.10	0.01	5	0.001	"
22478	207.1	208.6	0.05	-	0.10	0.01	5	0.002	"
22479	208.6	210.1	0.07	-	0.10	0.01	5	<.001	"
22480	210.1	211.6	0.07	-	0.10	0.01	5	0.001	"
22481	211.6	213.1	0.05	-	0.10	0.01	5	0.007	"
22482	213.1	214.6	0.07	-	0.20	0.01	5	<.001	"
22483	214.6	216.1	0.07	-	0.20	0.01	5	<.001	"

DDH 22

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22484	216.1	217.2	0.04	-	0.10	0.01	5	<.001	Guichon/Hybrid:
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.								
DDH # 95-23		Date	16-Oct		Logged by		PM VN											
Elevation 1689.9 m		Azimuth	045		Northing:		5603889.6											
Inclination -50		Length	178.5 m		Easting:		641756.7											
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			
9.1-13.0	Guichon/ Hybrid	loc thin	stng/bkn loc crushed	(chlr), ser	wk carb heal'd fracts	-	hem, jar Mn	Fe, cly?	chlr diss ep ser	(chlr) ser	-	-	hem py?	(cpy) (cpy)	py	(py) (cpy)	wk/ mod	Top of interval is rubbly and broken. Bottom of interval is weathered/overprinted propylitic? altered (could be deuteric effect??) with diss ep. Pos H ₂ SO ₄ in Fe-oxides on fracts.
13.0-16.8	Guichon/ Hybrid loc pink speckled	-	mod/stng, loc bkn, sets at 70-90° C.A. 5-10 cm spacing	ser, (chlr) (carb)	num chlr/qtz /carb heal'd fracts w/ py + (cpy)	-	hem (loc jar)	-	diss ep loc chlr (ser) alb?	ser (chlr) (carb) qtz	chlr ep?	-	hem (cpy)	py (cpy)	py (cpy)	mod	"Apple green" ser on fracts and in weak alteration envelopes.	
16.8-20.3	Guichon/ Hybrid loc pink speckled	-	stng/bkn	ser, (chlr) carb	chlr/qtz heal'd fracts w/(cpy) + py, wk carb vnits	-	hem w/ carb	-	loc ep patchy ser patchy chlr loc alb	ep ser (chlr) carb qtz gge	chlr	-	hem (cpy)	(cpy) loc py	py	tr	Apple green ser on fracts and loc pervasive. Ep associated with fracts, chlr patches and banding.	
20.3-24.3	Guichon	loc 21.7 m	wk/mod loc stng/bkn	cly in gge, ser, chlr, carb	chlr/qtz/ carb in heal'd fracts w/py + (cpy)	-	hem w/ carb	-	(ep) loc alb	(ep) ser chlr carb cly in gge	chlr	-	hem (cpy)	py (cpy)	py (cpy)	wk/ mod	Loc strong alteration envelope <2.0 cm on healed fracts with py and (cpy)	
24.3-28.6	Guichon pink speckled	? may have been lost at 26.0-26.2 m	wk/mod sets at 60-90° C.A.	ser, chlr, (carb) (qtz)	wk qtz vnits num chlr/qtz heal'd fracts w/sulphides	-	-	-	(ep) loc alb	ser chlr (carb) (qtz)	(chlr) (patchy ser) (ep?)	-	-	(py) (cpy)	py (cpy)	mod	Comp Guichon, "apple green" ser? on fracts and in wk, diffuse alteration envelopes, less frequently patchy perv. Loc fract controlled diff chlr and ep patches and bands. Becomes increasingly pale and creamy (alb?) with depth.	
28.6-32.2	Guichon pink speckled	loc thin 29.3 m	wk/mod, loc bkn	ser, chlr, (carb) (qtz)	wk qtz/carb num chlr/qtz heal'd fracts w/sulphides	-	-	-	(ep) loc alb	ser chlr (carb) (qtz)	(chlr) (patchy ser) (ep?)	-	-	(py) (cpy)	py (cpy)	mod/ stng	Very similar to above, with pale alb? alteration at top and bottom of interval. Slightly stronger alteration envelope on fracts with diffuse apple green ser?	
32.2-36.1	Guichon, pink speckled patchy altn	-	wk/mod loc bkn	ser, chlr, (carb) (qtz)	abd chlr/qtz heal'd fracts w/sulphides wk qtz/carb	-	(loc hem)	-	patchy ep loc alb	ser chlr carb (qtz)	(chlr) (patchy ser) (ep?)	-	-	(py) (cpy)	py (cpy)	mod/ stng	Patchy albn, fract controlled diffuse ep bands and patches with loc diss ep, slightly more intense than previous intervals. Ser alteration similar to above interval.	

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
36.1-39.8	Guichon pink speckled		wk, loc mod/ stng, loc bkn sets at 0-5° and 60-90° C.A.	(ser), chl carb. (qtz)	abd chl/rtz /carb heal'd fracts w/ wk sulphs	(loc hem)	-	-	patchy ep loc alb	ser chl carb (qtz)	(chl patchy ser) (ep?)	-	-	(py) (cpy) (cpy)	py (cpy)	mod/ stng	Mod/stng fractured at top, comp at bottom. Weak diffuse apple green ser alteration envelope on fracts. Weaker ep than previous interval. Sulphides decreasing perv and on fracts.	
39.8-43.4	Guichon pink speckled		wk/mod	(ser), chl carb. (qtz)	heal'd fracts w/wk sulphides	(loc hem)	(loc hem)	-	patchy ep (loc alb)	(ser) chl carb (qtz)	(chl patchy ser) (ep?)	-	-	(py) tr cpy	py (cpy)	mod/ stng	Alteration similar to above. Generally comp.	
43.4-47.5	Guichon pink speckled		wk/mod	(ser) (chl) carb (qtz)	(chl)/(qtz)/ carb healed fracts w/ wk sulph, wk qtz/carb vnits	-	(loc hem)	-	patchy ep (loc alb)	(ser) (chl) carb (qtz)	(chl patchy ser) (ep?)	-	-	(py) tr cpy	py (cpy)	mod/ stng	Increase in diffuse fract controlled ep bands and patches and in loc diss ep. Further decrease in perv and fract primary min. Slight increase in apple green/blue-green ser? alteration on fracts and weak diffuse alteration envelope.	
47.5-50.9	Guichon pink speckled		wk/loc mod sets at 60-90° C.A.	(ser) (chl) carb (qtz)	wk/mod (chl)/(qtz)/ carb healed fracts w/wk sulph	(loc hem)	(loc hem)	-	patchy ep (loc alb)	(ser) (chl) carb (qtz)	(chl patchy ser) (ep?)	-	-	(py) tr cpy	py tr cpy	mod/ stng	Very similar to previous interval. Most healed fractures are ~ perpendicular to C.A. Py ~ 0.5%	
50.9-55.2	Guichon pink speckled		wk/mod, loc stgn/bkn, sets at 70-90° C.A.	(ser) (qtz) (chl)(carb)	heal'd fracts w/wk sulphides	-	-	-	patchy ep loc alb	(ser) (chl) carb (qtz)	(chl patchy ser) (ep?)	-	-	(py)	py tr cpy	mod	Loc weak argillic alteration on fracts. Green/blue-green ser on fracts and in weak alteration envelopes. Increase in fract controlled diffuse ep bands and patches.	
55.2-58.1	Guichon pink speckled patchy perv alteration	loc thin 57.3 m at 20° C.A.	mod/stng loc bkn/ crushed	ser, chl, carb cly in gge	wk qtz to 1 cm w/py	(loc hem)	(loc hem)	-	loc alb loc ser loc chl patchy ep	ser chl carb cly in gge	(chl ep?)	-	-	(py) tr cpy	py tr cpy	wk/ mod	Significant increase in intensity of perv and fract controlled hydroth alteration. Possible weak/mod arg alteration on fracts. Check for clays!	
58.1-61.6	Guichon pink speckled loc mafic rich	loc 59.6 m at 90° C.A.	wk/mod loc int/crushed sets at 30, 60-90° C.A.	ser, chl, carb (qtz) cly?	wk qtz vnits num chl/rtz /carb heal'd fracts w/ py	-	(loc hem)	-	loc carb loc alb loc ser loc chl	ser chl carb (qtz) cly? (ep)	(chl)	-	-	(py) (cpy)	py (cpy)	mod/ stng	Weak apple green/blue-green ser? on fracts. Loc complete ser alteration above and below gge with weak arg alteration on fracts elsewhere. Increasingly comp with depth. Weak qtz/py vnits with bich-qtz/ser-alteration envelopes to 1.0 cm	
61.6-66.0	Guichon Hyb, pink speckled loc mafic rich		wk/loc mod sers at 20, 50 and 70-90° C.A.	ser, chl, carb qtz. (cly?)	qtz vnits + wk healed fracts w/py	-	-	-	loc alb (diss ep)	(ep) ser chl carb qtz (cly)	chl (ep?) (patchy- ser)	-	-	(py) tr cpy	py (cpy)	mod/ stng	Weak qtz vnits with py, (cpy) and (hem), generally with bich alteration envelope, occ with apple-green diffuse ser envelope. Loc weak arg alteration on fracts. Check for clays (XRD) Fracts and veinlets ~ perpendicular to 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
66.0-70.0	Guichon Hyb loc pink spkld		wk/mod sets at 70-90° C.A.	ser, chlr, carb	wk qtz/carb vnltts w/py heal'd fract w/py		loc hem		alb? (loc chl	ser chl	chl			(py) tr cpy	py tr cpy	mod	Py on fract is distinctly finer grained than previous intervals. Mafics become less distinct with depth.	
70.0-74.2	Guichon Hyb loc pink speckled patchy perv alteration	loc 71.0-71.5 m	mod, loc int/ crushed	ser, chlr, carb (cly?)	wk qtz/carb vnltts w/py qtz/chlr/ carb healed fracts		(loc hem w/carb)		loc alb loc chl (loc ep)	ser chl carb (cly?) loc ep	chl			(py) tr cpy	py tr cpy	ptchy wk	Minor textural changes from finer to coarser grained. Loc alb usually with diffuse fract controlled ep bands and patches. Phenos loc ghost-like. Possible weak arg alteration on fract—check for clays. Py ~ 1%	
74.2-78.0	Guichon Hyb loc pink spkld speckled patchy stng perv altn	loc 74.5 m at 80° C.A.	mod/stng loc comp	ser, chlr, carb cly in gge	wk qtz/ carb vnltts w/py	(loc hem stn alb)	(loc hem)		loc chl loc ser loc carb loc alb	ser chl carb cly in gge	chl			(py) cpy?	py cpy?	wk/ mod	Patchy diffuse fract controlled ep patches and bands. Stng perv chl/ser/carb alteration at bottom of interval. Weak qtz/carb vnltts with py and blch alteration envelopes to 0.5 cm. Py ~ 1%	
78.0-81.3	Guichon Hyb stng perv altn	1-2 cm approx // to C.A. 78.0-80.8 m	mod/stng loc bkn/crushed	ser, chlr, carb cly in gge	wk qtz vnltts wk irreg carb vnltts	(loc hem)	loc hem + jar		chl ser carb loc ep	ser chl carb cly in gge				(py) py	py		Strong perv altered Guichon Hyb. Broken contact at ~ 90° C.A. with porphyry 81.3 m. Loc diffuse ep patches near porphyry contact.	
81.3-84.9	Crowded, pink qtz-hbl-felds porphyry D6? (Beth)		stng/bkn	ser, (chl) carb	wk qtz vnltts				patchy ep	ser (chl) carb				(cpy) (py)	py		Grey porphyry 82.9-83.7 m. Porphyry from 81.3-82.9 m is more potassic (should be stained!!) with smaller phenos than porphyry from 83.7-84.9 m. Qtz-hbl-feldspar porphyry with fine grained pink groundmass. Qtz-hbl-feldspar porphyry is cross cut by grey hbl-feldspar crowded porphyry - probably chilled D3 variation.	
84.9-88.9	Crowded, pink qtz-hbl-felds porphyry D6? (Beth)		wk/mod loc wk ckle	ser, (chl) carb	wk qtz/carb vnltts w/py				patchy ep loc ser	ser (chl) carb	(chl)			(cpy)	py (cpy)	wk		
88.9-93.0	Qtz-hbl-fsp porphyry D6? crowded grey pink	loc thin	mod/stng bkn wk ckle	ser, (chl) carb, (cly in gge)	wk irreg carb vnltts	(loc hem)	(loc hem)		(ser)	ser (chl) carb (cly in gge)	(chl)			tr cpy	py (cpy)	mod	Similar to previous interval, becoming somewhat more crowded.	
93.0-96.2	Qtz-hbl-fsp porphyry D6? crowded grey pink		mod/stng bkn wk ckle	ser, (chl) carb	wk irreg carb vnltts	(loc hem)	(loc hem)		(ser)	ser (chl) carb	(chl)			tr cpy	py (cpy)	wk/ mod	Similar to previous interval. Phenos become sparse, groundmass more aphanitic as contact is approached - chilled.	

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			
96.2-100.6	Guichon contact pink speckled	-	wk/mod loc stng/bkn	ser, chlr, carb (cly?)	wk carb vnlt	-	(loc hem stn ser)	-	(patchy ser)	ser chl	(chl)	-	-	tr cpy (cpy) (py)		wk/ mod		Melt contact 96.2 m between porphyry & Guichon Weak apple green ser on fract and in weak alteration envelopes.
100.6-103.9	Guichon pink speckled	loc 103.8 m	mod/stng loc bkn	ser, chlr, carb (cly?)	wk carb vnlt	loc hem stn alb	loc hem stn carb	-	patchy ser (loc alb) (patchy ep) (loc chl)	ser chl carb (cly?)	(chl)	-	-	(py) cpy?	(cpy) py	wk/ mod		Weak chl altered hbde, relatively unaltered bio. Ser as above.
103.9-104.7	Porph Dyke pink-brown/grey, D3?	-	mod/stng	(ser) (chl) carb	-	-	loc hem stn carb	-	(ep) (chl)	(ep) (ser) (chl) carb	-	-	-)cpy) (py)	(py)	wk		Pink-brown/grey porphyry dyke, aphanitic grndmass, ghost-like plag phenos. Upper contact fault/crushed, lower contact at ~ 90° C.A. is melt. Probably D3 variant, similar to porphyry at 82.9- 83.7 above.
104.7-108.2	Guichon contact pink speckled	loc thin 106.8 m	mod/stng loc bkn	carb, (ser) chl	wk chl/ carb healed fracts w/ (cpy) + py	-	loc hem stn carb + ser	-	patchy ep loc alb	loc ep (ser) carb chl	chl	-	-	(py) tr cpy	(cpy) py	wk/ mod		
108.2-111.8	Guichon, loc stng, perv altn loc pink spkled	loc 110.0 m	mod/stng	chl, carb, ser, loc cly	carb at 20° C.A. <0.5 cm at 111.5 m carb vnlt	wk Fe assoc w/ fract loc	Fe wk	-	loc chl carb ser Ksp assoc w/fract	chl ser carb loc cly	chl (loc hem)	-	-	loc cpy py (cpy)	py	wk		Pervasive cpy is generally poor-wk. A bit stronger in loc pervasive chl altered sections.
111.8-115.6	Guichon/Porph fault contact bobcat fault?	114.0-114.9 at 30° C.A.	stng bkn	carb, chl, (ser)	carb vnlt	wk Fe	-	-	wk Ksp chl ser wk ep	carb chl ser	-	-	-	cpy py cpy	py cpy	-		Pervasive chl extends about 1 m from fault. Guichon in fault contact with Porph 114.0-114.9 m
115.6-121.0	Porphyry see 81.3 to 96.2 m	-	shatt-stng bkn loc dis bx	carb, chl, ser	carb vnlt	-	Fe	-	wk loc K-spar wk ep (chl)	carb chl ser	-	-	-	wk cpy py	py	wk		Porphyry-grey/light pink. Loc strong cpy diss in bx near "Bobcat fault." **Probably same porphyry as 81.3-96.2 m. Phenos become less distinct and finer grained toward contact--- ~ 4.5 cm "chill" margin.
121.0-122.6	Guichon	-	wk/mod	carb, chl (ser)	wk irreg carb vnlt w/(cpy)	-	-	-	patchy ep loc chl loc alb	carb chl (ser) loc ep	(chl)	-	-	(cpy) py (cpy)	py (cpy)	wk/ mod		Loc fracture controlled ep and loc strong chl. Phenos loc becoming ghost like.

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			
122.6-125.9	Guichon		wk/mod	carb, chlr (ser)	wk qtz/carb vnlt w/py	(loc hem stn alb)			patchy ep	loc ep carb chlr	(chlr)				py (cpy)	wk		Diffuse ep in alteration envelopes on fracts and vnlt, loc "feathery" ep microveins.
125.9-129.9	Guichon		wk/mod, loc wk ckle	ser, (chlr) carb (qtz)	wk ep/carb vnlt w/ (cpy), wk qtz/carb w/ep selv.				patchy ep (patchy chlr) loc alb	loc ep ser (chlr) carb (qtz)	chlr			tr cpy	py	tr/wk		Abrupt increase in patchy diss ep and diffuse ep bands and alteration envelopes. Py ~ 2%
129.9-134.0	Guichon		wk	ser (chlr), carb (qtz)	wk ep/qtz/ carb w/ cpy, wk irreg carb vnlt	(patchy hem)	(loc hem)		loc ep (patchy chlr) alb	loc ep ser (chlr) carb (qtz)	chlr			tr cpy	py (cpy)	wk		Further increase in pervasive and fract controlled ep, loc with qtz/carb in healed crush zones, 130.7-131.0m. Grey aplitic porphyry dykelet perpendicular to C.A. 5.0 cm 133.6 m. Py 1-1.5%. Cpy blebs in qtz/carb veinlet.
134.0-138.1	Guichon		wk, loc wk ckle	ser, (chlr) carb	wk irreg carb vnlt				(patchy ep) alb loc ser	ser (chlr) carb loc ep	chlr			(py) (cpy)	py cpy	mod		Grey aplitic porph dykelet 134.3 m, same type as above.
138.1-142.2	Guichon		wk, loc wk ckle	(ser) carb (chlr)	wk carb vnlt				loc alb patchy ep (loc chlr)	(ser) carb (chlr) (loc ep)	chlr			(py) tr cpy	(py) (cpy)	wk/ mod		Wk healed fracts with apple green/blue-green ser alteration envelope, and py.
142.2-146.7	Guichon	loc 143.5 m 5 cm	wk	cly in gge, chlr (ser) (carb)	wk irreg carb vnlt wk/mod	loc hem stn alb	loc hem		(patchy ep) loc alb	chlr (ser) (carb) (loc ep)	chlr			tr py tr cpy	py	wk/ mod		Blue-green ser on fracts and in wk alteration env as in previous interval.
146.7-150.9	Guichon		wk/mod wk ckle	carb, (chlr) (ser)	wk carb vnlt, wk qtz/ep vnlt	(loc hem)			patchy ep loc alb	carb (chlr) (ser) loc ep	(chlr)			(py) (cpy)	tr cpy (py)	wk		Blue-green ser alteration as in previous interval. Qtz/ep healed fracts (crush zones?) predate py mineralized healed fracts. Mafics loc becoming ghost-like.
150.9-154.7	Guichon	? loc some may have been lost	mod/stng loc bkn wk ckle	carb, (ser) chlr, (loc cly)	wk carb vnlt		loc hem		(patchy ep) loc alb loc chlr	carb (ser) (chlr) (loc cly) (loc ep)	(chlr)			tr py tr cpy	(py) tr cpy	wk/ mod		Loc carb void filling. Ep is usually fract controlled increasing in intensity with depth, especially where ckle/bkn. Phenos, especially mafics, loc ghost like.

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			
154.7-158.7	Guichon	loc thin/ milled	wk/mod sets at 80-90° C.A.	chlr, ser, carb (qtz)	wk qtz/ep/ carb vnits w/(sulph)	-	(loc hem stn carb)	-	(patchy ep)	loc ep chlr	(chlr)	-	-	tr py tr cpy	(py) tr cpy	wk/ mod		Loc fract controlled pervasive chlr alteration.
158.7-162.9	Guichon	loc 159.7 m w/ bx	wk/mod loc stng/bkn, loc fault bx	carb, chlr (ser) cly in gge	wk qtz/carb vnits	-	(loc hem hem)	-	loc alb loc ser	loc ep carb chlr (ser) (loc cly)	(chlr)	-	-	(py) tr cpy	(py) tr cpy	wk/ mod		Blue-green ser and chlr selvage on bich qtz/ser alteration envelope. Clasts in bx show little pervasive alteration. Loc stng/complete ser alteration (clay???)
162.9-166.9	Guichon	loc thin 166.7 m	wk/mod	carb, chlr (ser) (qtz)	wk qtz/carb heal'd fract w/py	(loc hem)	(loc hem stn carb)	-	loc alb (patchy ep)	carb chlr (ser) (qtz) ep	(chlr)	-	-	tr py tr cpy	(py) tr cpy	wk/ mod		Diffuse ep in alteration envelope on fract. Blue-green ser with qtz in weak alteration envelope on py-bearing fract. Slight variations in mafic grain size.
166.9-171.2	Guichon	-	wk/mod, sets at 30°, 80-90° C.A.	carb, chlr, (ser)	wk carb vnits	-	hem stn carb	-	(patchy ser & ep)	carb chlr (ser) loc ep	(chlr) (ser?)	-	-	-	(py)	mod		Comp Guichon, weak patchy/diss blue green ser, also weak on fract.
171.2-175.6	Guichon	-	wk/mod	(carb) (ser) chlr	wk carb vnits	(loc hem stn alb)	(loc hem stn carb)	-	(patchy ep) (loc alb)	(carb) (ser) chlr	(chlr) (ser?)	-	-	tr py tr cpy	(py)	wk/ mod		Comp Guichon.
175.6-178.9	Guichon	-	wk	carb, (ser) (chlr)	wk qtz/ep vnits 30 + 90° C.A.	(loc hem stn alb)	-	-	(loc alb)	carb (ser) (chlr)	(chlr)	-	-	-	-	wk		Comp Guichon. Looks like Chataway variety.
EOH 178.9 m																		

DDH 23

Northing: 5603889.6			DDH 95-23				Azimuth: 045		
Easting: 641756.7			Elevation: 1689.9				Inclination: -50		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22485	9.1	10.6	0.04	0.02	-	-	-	-	Guichon/Hybrid:
22486	10.6	12.1	0.08	0.02	-	-	-	-	"
22487	12.1	13.6	0.13	<.01	-	-	-	-	"
22488	13.6	15.1	0.13	-	0.40	0.01	5	<.001	"
22489	15.1	16.6	0.14	-	0.20	0.01	5	0.001	"
22490	16.6	18.1	0.10	-	0.20	0.01	5	0.001	"
22491	18.1	19.6	0.09	-	0.10	0.01	5	<.001	"
22492	19.6	21.1	0.11	-	0.10	0.01	5	<.001	Guichon:
22493	21.1	22.6	0.17	-	0.20	0.01	5	0.002	"
22494	22.6	24.1	0.11	-	0.10	0.01	5	0.001	"
22495	24.1	25.6	0.06	-	0.10	0.01	5	<.001	"
22496	25.6	27.1	0.08	-	0.10	0.01	5	<.001	"
22497	27.1	28.6	0.12	-	0.10	0.01	5	<.001	"
22498	28.6	30.1	0.12	-	0.10	0.01	5	<.001	"
22499	30.1	31.6	0.08	-	0.10	0.01	5	<.001	"
22500	31.6	33.1	0.07	-	0.10	0.01	5	<.001	"
22501	33.1	34.6	0.09	-	0.10	0.01	5	<.001	"
22502	34.6	36.1	0.09	-	0.10	0.01	5	<.001	"
22503	36.1	37.6	0.09	-	0.10	0.01	5	<.001	Guichon Hybrid?:
22504	37.6	39.1	0.04	-	0.10	0.01	5	<.001	"
22505	39.1	40.6	0.07	-	0.10	0.01	5	<.001	Guichon:
22506	40.6	42.1	0.07	-	0.20	0.01	5	<.001	"
22507	42.1	43.6	0.04	-	0.10	0.01	5	<.001	"
22508	43.6	45.1	0.05	-	0.20	0.01	5	<.001	"
22509	45.1	46.6	0.05	-	0.10	0.01	5	<.001	"
22510	46.6	48.1	0.07	-	0.20	0.01	5	<.001	"
22511	48.1	49.6	0.06	-	0.10	0.01	5	<.001	"
22512	49.6	51.1	0.05	-	0.10	0.01	5	<.001	Guichon/Hybrid:
22513	51.1	52.6	0.06	-	0.20	0.01	5	<.001	"
22514	52.6	54.1	0.09	-	0.10	0.01	5	<.001	"
22515	54.1	55.6	0.08	-	0.10	0.01	5	<.001	"
22516	55.6	57.1	0.09	-	0.20	0.01	5	<.001	"
22517	57.1	58.6	0.09	-	0.10	0.01	5	0.001	"
22518	58.6	60.1	0.06	-	0.20	0.01	5	<.001	"
22519	60.1	61.6	0.06	-	0.10	0.01	5	<.001	"
22520	61.6	63.1	0.09	-	0.10	0.01	5	0.001	"
22521	63.1	64.6	0.06	-	0.10	0.01	5	<.001	"
22522	64.6	66.1	0.08	-	0.20	0.01	5	<.001	"
22523	66.1	67.6	0.05	-	0.20	0.01	5	<.001	"
22524	67.6	69.1	0.08	-	0.10	0.01	5	<.001	"
22525	69.1	70.6	0.09	-	0.20	0.01	5	<.001	"
22526	70.6	72.1	0.12	-	0.20	0.01	5	0.001	"
22527	72.1	73.6	0.09	-	0.10	0.01	5	<.001	"
22528	73.6	75.1	0.07	-	0.20	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							
22529	75.1	76.6	0.05	-	0.10	0.01	5	<.001	Guichon/Hybrid:
22530	76.6	78.1	0.08	-	0.10	0.01	5	<.001	"
22531	78.1	79.6	0.14	-	0.10	0.01	5	0.001	"
22532	79.6	81.1	0.15	-	0.10	0.01	5	0.001	"
22533	81.1	82.6	0.05	-	0.20	0.01	5	<.001	Bethlehem? Porph
22534	82.6	84.1	0.12	-	0.10	0.01	5	0.001	"
22535	84.1	85.6	0.05	-	0.10	0.01	5	<.001	"
22536	85.6	87.1	0.05	-	0.10	0.01	5	<.001	"
22537	87.1	88.6	0.03	-	0.10	0.01	5	<.001	"
22538	88.6	90.1	0.03	-	0.10	0.01	5	<.001	"
22539	90.1	91.6	0.02	-	0.10	0.01	5	<.001	"
22540	91.6	93.1	0.04	-	0.10	0.01	5	<.001	"
22541	93.1	94.6	0.03	-	0.10	0.01	5	<.001	"
22542	94.6	96.1	0.05	-	0.20	0.01	5	<.001	"
22543	96.1	97.6	0.04	-	0.20	0.01	5	<.001	Guichon:
22544	97.6	99.1	0.05	-	0.10	0.01	5	<.001	contact
22545	99.1	100.6	0.04	-	0.10	0.01	5	<.001	"
22546	100.6	102.1	0.03	-	0.10	0.01	5	<.001	"
22547	102.1	103.6	0.05	-	0.10	0.01	5	<.001	"
22548	103.6	105.1	0.06	-	0.10	0.01	5	<.001	Porphyry Dyke
22549	105.1	106.6	0.07	-	0.20	0.01	5	<.001	Guichon contact
22550	106.6	108.1	0.08	-	0.10	0.01	5	<.001	"
22551	108.1	109.6	0.12	-	0.10	0.01	5	<.001	Guichon:
22552	109.6	111.1	0.09	-	0.10	0.01	5	<.001	"
22553	111.1	112.6	0.07	-	0.10	0.01	5	<.001	Guichon/Porphyry:
22554	112.6	114.1	0.08	-	0.10	0.01	5	<.001	fault contact
22555	114.1	115.6	0.10	-	1.80	0.01	5	<.001	"
22556	115.6	117.1	0.60	-	0.20	0.01	5	0.001	Porphyry:
22557	117.1	118.6	0.04	-	0.10	0.01	5	<.001	"
22558	118.6	120.1	0.03	-	0.10	0.01	5	<.001	"
22559	120.1	121.6	0.05	-	0.10	0.01	5	<.001	"
22560	121.6	123.1	0.08	-	0.10	0.01	5	<.001	Guichon:
22561	123.1	124.6	0.07	-	0.10	0.01	5	<.001	"
22562	124.6	126.1	0.06	-	0.10	0.01	5	<.001	"
22563	126.1	127.6	0.07	-	0.10	0.01	5	<.001	"
22564	127.6	129.1	0.07	-	0.10	0.01	5	<.001	"
22565	129.1	130.6	0.05	-	0.10	0.01	5	<.001	"
22566	130.6	132.1	0.09	-	0.10	0.01	5	<.001	"
22567	132.1	133.6	0.03	-	0.10	0.01	5	<.001	"
22568	133.6	135.1	0.05	-	0.20	0.01	5	<.001	"
22569	135.1	136.6	0.08	-	0.10	0.01	5	<.001	"
22570	136.6	138.1	0.07	-	0.10	0.01	5	<.001	"
22571	138.1	139.6	0.06	-	0.10	0.01	5	<.001	"
22572	139.6	141.1	0.06	-	0.10	0.01	5	<.001	"
22573	141.1	142.6	0.11	-	0.10	0.01	5	<.001	"
22574	142.6	144.1	0.03	-	0.10	0.01	5	<.001	"
22575	144.1	145.6	0.03	-	0.10	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							
22576	145.6	147.1	0.02	-	0.20	0.01	5	<.001	Guichon:
22577	147.1	148.6	0.02	-	0.10	0.01	5	<.001	"
22578	148.6	150.1	0.04	-	0.20	0.01	5	<.001	"
22579	150.1	151.6	0.04	-	0.10	0.01	5	<.001	"
22580	151.6	153.1	0.06	-	0.10	0.01	5	<.001	"
22581	153.1	154.6	0.05	-	0.10	0.01	5	<.001	"
22582	154.6	156.1	0.02	-	0.10	0.01	5	<.001	"
22583	156.1	157.6	0.05	-	0.10	0.01	5	<.001	"
22584	157.6	159.1	0.04	-	0.10	0.01	5	<.001	"
22585	159.1	160.6	0.05	-	0.10	0.01	5	<.001	"
22586	160.6	162.1	0.02	-	0.10	0.01	5	<.001	"
22587	162.1	163.6	0.03	-	0.10	0.01	5	0.002	"
22588	163.6	165.1	0.03	-	0.10	0.01	5	<.001	"
22589	165.1	166.6	0.05	-	0.10	0.01	5	<.001	"
22590	166.6	168.1	0.03	-	0.20	0.01	5	<.001	"
22591	168.1	169.6	0.02	-	0.10	0.01	5	<.001	"
22592	169.6	171.1	0.01	-	0.10	0.01	5	<.001	"
22593	171.1	172.6	0.02	-	0.10	0.01	5	<.001	"
22594	172.6	174.1	0.02	-	0.10	0.01	5	<.001	"
22595	174.1	175.6	0.01	-	0.10	0.01	5	<.001	"
22596	175.6	177.1	0.01	-	0.10	0.01	5	<.001	"
22597	177.1	178.9	0.02	-	0.10	0.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	95-24	Date	20-Oct							Logged by	VN								
Elevation	1689.9 m	Azimuth	-							Northing:	5603889.6								
Inclination	-90	Length	246.9 m							Easting:	641756.7								
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					
9.1-10.0	overburden																Rounded frags of Guichon and volcanics.		
10.0-13.2	Guichon	some slip	mod/stng, loc bkn	ser, chlr, carb (cly?)	wk carb vnlt	-	jar, hem	Fe, (cly?)	(ser)	ser chlr carb (ep?) (cly?)	chlr	-	-	-	(py)	wk/ mod	Weak blue green ser on fracs and in weak alteration envelopes. Weak ep? on fracs—probably overprinted.		
13.2-16.8	Guichon	loc thin/ crushed 20° C.A.	mod/stng loc bkn/ crushed	ser, carb, chlr (cly)	wk qtz/carb vnlt w/ (py), wk irreg carb microvns	(loc hem stn alb)	(loc hem)	?cly?	loc ser (loc chlr)	ser carb cly (ep?)	chlr			tr cpy (py)	tr cpy py	mod	Clasts in gge/crushed zone show little pervasive alteration. Blue green ser? on fracs and in vnlt (usually with py). Weak diffuse ep on fracs and in alteration envelopes. Py 1%		
16.8-20.0	Guichon, wk fault zone	loc 18.9- 19.3 m ~ 20° C.A.	mod/stng, loc bkn/crushed/ dis bx	ser, chlr, carb (cly)	wk qtz/carb vnlt 0.5-2 mm	loc hem stn alb	loc hem	-	loc chlr ser patchy ep loc carb	ser chlr carb (cly?) loc ep	chlr	-	-	(py)	tr cpy (py)	wk/ mod	Blue-green ser? as above. Ep occurs as above with increased intensity. Carb as void filling in gouge/dis bx zone. Sample taken (19.0 TS & PTS) from vn—dolomite?		
20.0-23.8	Guichon	-	wk/mod loc stng/bkn. set at 50° C.A.	ser, chlr carb qtz	num qtz/ carb w/py 0.5-2 mm	loc hem stn alb	loc hem stn carb	-	loc chlr alb ser patchy ep	ser chlr carb loc ep qtz	chlr?	-	-	tr cpy (py)	py tr cpy	wk	Blue green ser? Weak dissp and on fracs. Mafics loc weak ghost-like. Numerous qtz/carb/ep? healed fracs and thin crush zones at 40-50° C.A. Increase in patchy pervasive ep. Py 2%		
23.8-28.0	Guichon	-	wk/mod sets at 0-5 & 50- 60° C.A.	(ser), chlr carb (qtz)	wk qtz/carb vnlt w/py abd chlr heal'd fracs at 50-60° C.A.	(loc hem stn alb)	loc hem	-	tr ser (loc chlr) chlr alb patchy ep	(ser) chlr carb (qtz) loc ep	chlr	-	-	tr cpy (py)	py (cpy)	wk/ mod	Blue green ser? on fracs and in weak diffuse alteration envelopes with ep. Quite fresh with weak fracture controlled propylitic alteration. Py 1%		
28.0-32.1	Guichon	-	wk/mod, sets at 40-50° C.A.	ser, carb, chlr	wk qtz/carb vnlt w/py and (cpy)	(loc hem stn alb)	loc hem stn ser	-	(patchy chlr) (patchy ep) loc alb	ser carb chlr loc ep	chlr	-	-	tr cpy (py)	(Mo) py (cpy)	mod	Pervasive alteration intensity (fract controlled) increasing, especially chlr and alb. Phenos loc ghost-like. Bich qtz/ser/carb, alteration envelope to 0.5 cm on vnlt. Py 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
32.1-35.7	Guichon	-	mod/stng, loc bkn, sets at 0, 40-50° C.A.	ser, carb, chlr	wk qtz/carb vnits w/py	-	-	-	patchy chl, ep loc ser alb	ser carb chl loc ep	chl	-	-	(cpy) (py)	py (cpy)	tr	Weak qtz/carb vnits with py and stronger alteration envelopes than previous interval. Py 2%	
35.7-39.6	Guichon/ Hybrid loc mafic rich fine grained	-	wk/mod, loc stng/bkn, sets at 40-50° C.A.	ser, carb, chl	wk qtz/carb vnits w/py	-	-	-	patchy ep patchy chl alb	ser chl carb loc ep alb	(chl)	-	-	(cpy) (py)	py (cpy)	wk	Py>>cpy. 2% py	
39.6-43.8	Guichon	-	wk/mod	(ser), chl carb	wk/mod sulphide heal'd fracts	(loc hem stn alb)	loc hem stn ser/ carb	-	patchy ep loc alb	(ser) chl carb loc ep	(chl)	-	-	(cpy) py	py (cpy)	wk/ mod	Py>>cpy. Blue green ser in fracts, weak alteration envelopes and in qtz/carb vnits with py. 2% py	
43.8-48.1	Guichon	-	wk/mod	carb, chl, (ser)	wk qtz/carb vnits	-	(loc hem)	-	alb (patchy ep) (loc ser)	carb chl (ser)	ep? chl alb?	-	-	py (cpy)	py	wk	Fract controlled diffuse ep and ser alteration envelopes on fracts and vnits. Weak blch env on fracts (qtz/ser) with py. Weak blue green ser on fracts and weak diss.	
48.1-52.0	Guichon	-	wk/mod sets at 0-5 & 40-50° C.A.	carb, chl (ser)	wk qtz vnits w/py	-	(loc hem stn ser)	-	alb patchy ep (loc ser)	carb chl (ser) loc ep	chl? alb? ep?	-	-	py (cpy)	py	wk	Very similar to previous interval. Grey porphyry dykelet, 50.6 m, 30° C.A., ~ 3 cm, with xenoliths of fresh Guichon. Weak blue-green ser as above. 1.5% py	
52.0-55.8	Guichon	loc 53.6 m ~ 3 cm	wk/mod loc bkn	carb, chl (ser) cly in gge	wk/mod crosscutting chl + py ± cpy vnits 1-2 mm	-	-	-	loc alb patchy ep loc ser	carb (ser) (ser) loc ep	chl? alb? ep?	-	-	(cpy) (py)	py tr cpy	tr	Weak chl/blue-green ser alteration envelopes on fracts. Fract controlled ep patches. Py>> cpy 1.5% py	
55.8-61.1	Guichon	-	wk/mod sets at 20, 30, 50-70° C.A.	carb, chl (ser)	wk qtz/carb vnits w/py at 0-5° C.A. num cross- cutting qtz + chl + py vnits 0.5-1mm	-	(loc hem)	-	(loc alb) patchy ep chl	carb chl (ser) loc ep	chl? alb? ep?	-	-	(py) (cpy)	py (cpy)	wk/ mod	Py>>cpy. Irregular py vnits 1-2 mm with blue- green ser? alteration envelopes. 2% py.	
61.1-64.0	Guichon	-	wk/mod	carb, chl (ser)	wk qtz/carb heal'd fracts w/py	-	(loc hem)	-	loc alb patchy ep (loc chl)	carb chl (ser) loc ep	chl? alb? ep?	-	-	(py) (cpy)	py (cpy)	wk/ mod	Py>>cpy. 1.5% py	

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			
64.0-67.2	Guichon	loc 1-2 cm 66.5 m 45° C.A.	mod, loc stng/ bkn	(carb) (chlr) (ser) cly in gge	wk qtz/carb heal'd fract w/py	-	-	-	(patchy ep) patchy alb (loc chlr)	(chlr) (carb) (ser) ep? loc ep	chlr? alb? ep?	-	-	py (cpy) tr cpy	py tr cpy	wk		Qtz/carb healed fract with blch alteration envelope to 1.0 cm ~ parallel to C.A. 2% py.
67.2-71.1	Guichon	-	wk	carb, chlr, ser	wk qtz/carb heal'd fract w/py	-	-	-	patchy ep loc alb (patchy chlr)	carb chlr ser loc ep	chlr? alb? ep?	-	-	py (cpy)	py tr cpy	tr/wk		Fract controlled diss py and (cpy). Blue-green ser on fract and in weak diffuse alteration envelopes on fract and vnlt. Distinct increase in fract controlled ep. 2% py
71.1-76.2	Guichon	-	wk	carb, chlr (ser)	wk/mod qtz vnlt w/py (cpy) + (mo)	-	-	-	tr ser patchy ep loc alb (patchy chlr)	carb chlr (ser) loc ep	chlr? alb? ep?	-	-	py (cpy)	py (cpy)	wk/ mod		Increase in intensity of hydroth alteration—alb/ep/(chlr). Phenos, loc weak ghost like. Qtz vnlt 0-10° C.A. with weak ser alteration envelopes, py cpy blebs, (mo) continuous on margins—predate irreg carb vnlt with strong altn env.
76.2-78.2	Guichon wk fault zone	loc 3-4 cm 40° C.A. 76.6 & 77.5 m	mod/stng, loc int/crushed	carb, ser, chlr cly in gge	num qtz vnlt w/py & (mo) 0-10° C.A. irreg carb vnlt	-	(loc hem)	-	chlr ser carb cly in gge	carb chlr ser cly in gge	-	-	-	(cpy) cpy py (mo)	cpy py (mo)	-		Weak qtz vnlt with py, cpy and (mo) as above, at top of interval. Abundant irregular carb vnlt and void filling. Loc carb/chlr healed crush zones, original fabric not evident. 1.5% py
78.2-81.8	Guichon w/ Porphyry fault zone	short ints 79.6- 81.8 m	int/gge fault bx	gge/bx cly, chlr	irreg carb vnlt + frags	-	-	-	chlr carb ser cly	-	-	-	-	cpy py	cpy py	-		Porphyry in fault contact with Guichon 78.9m. Intervals of strong pervasive altered Guichon and Porphyry, clasts of each in bx. Loc blebs of cpy and py especially in porph, near contact. ***May be picrite, NOT porphyry*** 1.5% py
81.8-85.5	Guichon fault zone	short ints 81.8-83.3m at ~20-30° C.A.	mod loc int/milled	chlr, carb, cly in gge, ser	num irreg carb vnlt wk/mod qtz /carb vnlt w/py & (mo)	-	-	-	chlr carb cly ser	chlr carb cly in gge ser	-	-	-	(cpy) py	py (cpy) (Mo?)	-		Py>cpy. Qtz/ser in blch alteration envelope (to 1.0 cm) on qtz/carb vnlt. Diffuse py/(cpy) blebs in chlr/carb healed crush zones. 2% py
85.5-89.7	Guichon/Hyb inc mafics, patchy perv alteration	-	wk, loc mod	chlr, ser, carb	wk/mod qtz + carb vnlt to 1.0 cm at 45- 50° C.A.	loc hem stn alb	(hem stn carb)	-	(loc chlr) loc alb patchy ser (patchy ep)	chlr ser carb	chlr?	-	-	py (cpy)	py (cpy) (Mo)	wk/ mod		Partially assimilated xenoliths. Py and (cpy) blebs in qtz vnlt. Pervasive alteration is fract controlled. 2% py

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)																	
89.7-91.8	Guichon, Hyb		wk/mod	(chlr) (ser) carb, qtz	wk qtz/carb vnltls w/py & (cpy)	-	-	-	(patchy chlr)	(chlr) (ser)	chlr?	-	-	-	-	wk/ mod	Partially assimilated xenoliths.
91.8-92.1	Porph Dyke grey-brown		mod/stng	(ser) (carb) (chlr)	-	-	-	-	(chlr)	(ser) (carb) (chlr)	-	-	-	(py) tr cpy	py (cpy)	wk/ mod	Appears same as porph at 104.5 m in DDH 95-23 Black "chill" margins ~ 1.0 cm at top and 0.5 cm at bottom.
92.1-93.6	Porphyry mottled grey- pink, D6?		mod/stng	ser, chlr, carb qtz	wk/mod qtz /chlr/carb vnltls w/py & (cpy)	-	-	-	(patchy chlr)	ser chlr carb qtz	-	-	-	(py)	py (cpy)	wk	Appears similar, though slightly darker, than occurrence at 87.3m in DDH 95-23. Contact with Guichon at 92.4 m with black chill margin. Short interval of Guichon 92.1 -92.4 m.
93.6-97.2	Porphyry mottled grey- pink, D6? hbl-qtz-fsp crowded porphyry	some slip	mod/stng loc bkn/ crushed	ser, carb, chlr (cly?) (qtz)	num chlr/ carb/qtz vnltls w/py + (cpy)	-	-	-	loc ser (patchy chlr)	ser chlr carb (cly?) loc ep (qtz)	chlr (ser)	-	-	(py) tr cpy	py (cpy)	wk	Blch alteration env - qtz/ser - on sulphide bearing fracts. Stain for K-sp. Scattered mafic clots (with diss py) to 1.0 cm. Blue green ser? on fracts and loc in alteration envelope on fracts. 2% py. Granophyric K-spar rich groundmass. Well developed, bleached envelopes on py veinlets.
97.2-99.2	Porphyry mottled grey- pink D6?		mod/stng	qtz (ser), chlr carb	num qtz/chlr heal'd fracts w/py + (cpy), wk qtz vnltls w/ sulphides	-	loc hem stn carb	-	loc ser (patchy chlr) loc ep	qtz (ser) chlr carb loc ep	chlr (ser)	-	-	(py) tr cpy	(Mo) py (cpy)	wk/ mod	Blch -qtz/ser- alteration envelope to 1.0 cm on healed fracts. Possible gradational contact (over 10-20 cm) at 99.2 m. Ep clots and patches at bottom of interval. 2% py
99.2-101.7	Porphyry grey D6?		mod	qtz(ser) (chlr) carb	wk micro stkwk w/ py	-	loc hem stn carb	-	(chlr) patchy- ep (loc alb)	qtz (ser) (chlr) carb loc ep	?	-	-	(py)	py tr cpy (Mo)	wk	Diffuse ep patches and clots. Blue green ser? on fracts and in weak altn envelopes on py micro veins. Retains some textural characteristics of previous interval but colour grey/green-grey, Phenos ghost-like. 2% py
101.7-103.7	Porphyry mottled grey- pink D6?		mod/stng, loc ckle/bkn	ser, (chlr) carb, cly? (qtz)	abd qtz vnltls w/py num qtz/ chlr healed fracts w/ py	-	-	-	(patchy chlr) patchy- ep alb? ser	(qtz) ser (chlr) carb cly? loc ep	-	-	-	(py)	py (cpy) (Mo?)	wk/ mod	Possible weak arg alteration on fracts.—Check for clays. Colour and texture at top very similar to DDH 95-23, 87.3 m. Contact at 101.7m shows impregnation by upper, darker phase. 1.5% py
103.7-105.2	Guichon		stng/bkn loc shatt	chlr, ser (carb)	num qtz/ chlr healed fracts w/ py + (cpy)	-	-	-	loc chlr ser loc ep alb	chlr ser (carb) loc ep	chlr? alb? ep?	-	-	py (cpy)	py (cpy)	tr	Narrow 1-2 cm gradational contact at top. 1% py

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			
105.2-107.5	Porphyry mottled grey- pink D6?		mod/stng loc bkn	carb, ser (chl'r)	mod qtz/ chl'r healed fracts w/ py + (cpy)	loc hem stn alb			loc ep alb (patchy chl'r)	loc ep carb ser (chl'r)	chl'r? alb? ep?			py (cpy)	py (cpy)	tr	Similar to above interval 92.1-99.2 m. Blue-green ser? on fracts and in wk alteration envelope. 3% py
107.5-112.3	Porphyry mottled grey- pink D6?		mod/stng	carb, ser, (chl'r) (cly?)	wk qtz microstkwk w/py	loc hem stn alb			patchy ser (loc chl'r) (patchy ep) alb	carb ser (chl'r) loc ep	chl'r? alb? ep?			(py) tr cpy	py (cpy)	tr/wk	Increase in blue-green ser? on fracts and in slightly stronger alteration envelope. Plag phenos often white, chalky--wk arg alteration?-- fracture controlled. Broken at bottom. 2% py
112.3-115.5	Guichon (Hybrid)		wk	carb, chl'r, (ser)	wk qtz/carb vnits w/py wk irreg carb vnits.	(loc hem stn alb)			patchy ep (loc ser) loc alb (patchy chl'r)	carb chl'r (ser) ep	chl'r? alb? ep?			(py) (cpy)	py (cpy)	mod	Blue-green ser? on fracts and in weak mod diffuse alteration envelopes on fracts and vnits Fract controlled perv primary min. Py>>cpy. Partially assimilated xenoliths. 2% py
115.5-119.8	Guichon weakly foliated		mod, wk ckle	carb, ser, (chl'r) (qtz)	sulphide heal'd fracts qtz vnits w/ py	(loc hem)			patchy ep (loc chl'r) loc alb	carb ser chl'r (qtz) loc ep	chl'r alb? ep?			(py) (cpy)	py (cpy) (mo?)	wk/ mod	3-4 cm chl'r/ep healed crush zone w/ py . Fract controlled pervasive primary min. Blue-green ser? on fracts and in weak alteration envelopes on fracts and vnits. 2% py
119.8-123.7	Guichon, patchy perv altn weakly foliated	some slip	wk/mod loc stng/bkn	carb, ser, (chl'r)	irreg carb vnits, wk py healed fracts	loc hem stn alb	tr hem		(loc chl'r) (loc carb) loc alb (ep)	carb ser (chl'r) (loc ep)	chl'r? alb? ep?			py (cpy)		wk/ mod	Loc carb void filling 123.1 m. Blue green ser? as above. Py>>cpy.
123.7-127.8	Guichon patchy perv altn weakly foliated		mod, loc crushed, loc wk ckle	carb, chl'r, (ser) (qtz)	wk/mod carb vnits num chl'r heal'd fracts with py				loc alb patchy ep (loc chl'r)	carb chl'r (ser) (qtz) loc ep	chl'r? alb? ep?			py (cpy)		mod	Aplitic porph dykelet, 124.7-124.9 m, premin with py in fracts and 1-2 cm qtz/alb alteration envs. Carb void filling. Diffuse fract controlled ep patches. 2% py
127.8-131.9	Guichon weakly foliated	loc thin & some slip	mod/stng wk ckle/bkn	chl'r, ser, (carb) (qtz)	abd chl'r heal'd fracts w/py	loc hem stn alb	loc hem stn carb		(loc alb) (loc chl'r) patchy ser	chl'r ser (carb) (qtz)	chl'r? alb? ep?			(hem)	py (cpy)	mod	Py increasing. ~2% py

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
131.9-135.8	Guichon	some slip	mod/stng, loc ckle/bkn	chlr, carb, ser (cly?)	irreg carb vnlt, wk/ mod sulph heal'd fracts	loc hem stn alb	loc hem	-	loc ep loc chlr loc ser alb	chlr ser carb (cly?) ep	chlr? alb? ep?	-	-	(py) (cpy)	py (cpy)	wk/ mod	Loc strong diffuse ep patches, qtz/ep healed crush/bx zones, occurs with (cpy) blebs.	
135.8-139.9	Guichon	-	mod/stng ckle/bkn	chlr, carb, ser	wk irreg carb vnlt, mod/stng chlr healed fracts w/ py	(loc hem stn alb)	-	-	loc ser patchy ep loc alb (loc carb)	loc ep chlr ser carb loc ep	-	-	(py) (cpy)	py (cpy)	tr/wk	Py>>cpy. Pyrite decreasing. Loc stng ep patches, clots. 1.5% py		
139.9-143.0	Guichon	loc thin	stng/bkn	carb, ser, chlr cly in gge	wk qtz/chlr heal'd fracts	(loc hem stn alb)	-	-	loc chlr (patchy ep) (ser) alb	carb ser chlr cly in gge	-	-	tr py tr cpy	py (cpy)	wk/ mod	Py decreasing. 1.5% py		
143.0-147.2	Guichon	-	mod/stng loc wk ckle	ser, chlr, carb	wk/mod qtz /carb vnlt w/py	-	loc hem stn ser	-	(patchy chlr & ser)	ser chlr carb	chlr? (alb?)	-	-	(py) (cpy)	py (cpy)	wk	Aplite dykelet 144.3 m, 6.0 cm ~70° C.A. Fract controlled pervasive alteration. Loc strong py in vnlt and fracts. 2% py.	
147.2-151.1	Guichon patchy perv altn	-	wk/mod, loc stng/crushed loc wk ckle	carb, chlr (ser) (qtz)	mod qtz/chlr heal'd fracts w/py	loc hem stn alb	-	-	patchy ep (loc ser) (loc chlr)	carb chlr (ser) (loc ep) (qtz)	chlr? alb?	-	-	(py) tr cpy	py tr cpy	tr/wk	2% py	
151.1-154.8	Guichon/ (Hybrid) loc mafic rich fine grained	-	wk/mod	carb, chlr (ser) (qtz)	wk qtz/carb vnlt	loc hem stn alb	loc hem	-	(patchy ep) (alb?)	loc ep	chlr? alb?	-	-	(py) (cpy)	py (cpy)	wk	Partially assimilated xenoliths. Aplite dykelet 153.5 m, ~10 cm. Py decreasing. Blue green ser on fracts and in weak alteration envelopes.	
154.8-158.9	Guichon/ Hybrid weakly foliated	-	mod/stng loc bkn/shatt	carb, chlr (ser)	wk chlr/ep heal'd fracts	-	(hem stn carb)	-	patchy ep loc alb	carb chlr (ser) loc ep	chlr alb?	-	-	tr cpy tr py	py tr cpy	wk	Aplite dykes 156.4-157.3 m, 157.8-158.1 m, bkn all have py in fracts with blch alteration envelopes. 1% py	
158.9-162.7	Guichon/ Hybrid weakly foliated	-	mod, loc wk ckle	carb, chlr (ser)	wk irreg carb vnlt	-	hem stn carb	-	(loc chlr) (patchy ep) (loc alb)	carb chlr (ser)	chlr alb?	irreg	-	tr cpy tr py	py tr cpy	wk/ mod	Aplite dykes 159.1m, 161.0 m, 162.3 m, 2-10 cm, wk ckle with py in fracts, bleached alteration envelopes. 1% py	
162.7-166.8	Guichon (Hybrid?)	-	wk/mod, loc bkn/shatt	carb, chlr (ser) (qtz)	wk irreg carb vnlt,	-	(hem stn ser)	-	patchy ep, chlr	carb chlr	chlr alb?	-	-	(py) (cpy)	py (cpy)	wk/ mod	Aplite dykes 163.4m ~ 15 cm ~70° C.A. Py>>cpy Patchy strong fract controlled chlr/ep.	

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.
					wk py heal'd fracts				loc alb loc ep	(ser) ep?						2% py.		
166.8-171.5	Guichon		mod, loc stng/ bkn, sets at 30° C.A.	carb, chl. (ser) (qtz)	mod qtz/ chlir/py heal'd fracts		(hem stn carb)		patchy ep (loc alb?) (patchy chlir)	loc ep carb chlir (ser) (qtz)	chlir alb? ep?		(py) tr cpy	py (cpy)	wk/ mod	Aplite dyke 168.5 m, ~5 cm. Weak qtz/chlir/ser alteration envelope on fracts.		
171.5-173.9	Guichon		wk/mod	chlir, carb, (ser) (qtz)	wk/mod, qtz/chlir/py heal'd fracts		(hem stn carb)		loc alb (patchy ep)	chlir carb (ser) (qtz)	chlir alb? ep?		(py) tr cpy	(Mo) (py) tr cpy	wk/ mod	Appears to have been crushed and healed/altere at bottom of interval--sil/alb.		
173.9-177.5	Qtz-hbl needle plag porphyry D4? or D6?		mod/stng loc bkn	chlir, (carb) (ser) (qtz)	wk/mod qtz/py heal'd fracts		(loc hem)		(patchy chlir) diss ep (ser)	chlir (carb) (ser) (loc ep) (qtz)	?		py (cpy)	py tr cpy	wk/ mod	Occasional diss cpy blebs to 2 mm. Possible weak foliation. Texture suggests contamination by wallrock. Pale grey, aphanitic groundmass.		
177.5-182.0	D4? or D6?		mod/stng loc bkn	chlir, (carb) (ser) (qtz)	as abv				patchy ep (chlir) loc ser	loc ep chlir (carb) (ser) (qtz)	?		py (cpy)	py tr cpy	mod	Loc strong ep in healed crush? zones. Porph texture similar to above interval. Weak alteration on fracts. Sharp contact with Guichon 182.0 m 1-2 mm black, aphanitic "chill" margin, ~ 40° C.A. 1.5 % py		
182.0-184.7	Guichon/ Hybrid moderately foliated		wk/mod	carb, chlir, (ser) (qtz)	as abv				loc alb	carb chlir (ser)	chlir alb?		(py) (cpy)	py tr cpy	wk/ mod	Loc chlir/qtz/ep healed crush zone ~ 2 cm, 30° C.A. Slightly more fine grained than "typical" Guichon. 1.5% py		
184.7-188.8	Guichon		wk/mod loc stng	chlir, carb (ser) (qtz)	wk/mod qtz/chlir/py heal'd fracts		(loc hem)		patchy chlir patchy ep loc alb	chlir carb (ser) 9qtz (loc ep)	chlir alb? ep?		(py) (cpy)	py (cpy)	wk	Py>cpy. Overall primary min decreasing. Slight increase in mafic concentration. 1.5% py		
188.8-192.9	Guichon	some slip	wk sets at 30, 40, 50, + 60° ca	chlir, carb (ser) (qtz)	wk qtz/chlir		loc hem		?	chlir carb (ser) (qtz)	chlir		(py) tr cpy	py (cpy)	wk	Scattered chlir altered mafic clots. Partially ass- imilated xenoliths. Pink porph dykelets 1-10 cm, ~ 60° C.A., texture quite similar to porph above at 173.9-182.0 m. 1% py		
192.9-196.9	Guichon		wk/mod	chlir, carb (ser) (qtz)	wk chlir/qtz heal'd fracts	(loc hem stn alb)	(loc hem)			chlir carb (ser) (qtz)	chlir (ser)		(py) tr cpy	(py) tr cpy	wk	Pink aplitic porph dykelets 193.6 & 195.1 m, 2-3 cm 60-70° C.A., similar to above porph dykelets 0.5% py		

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.				
196.9-201.2	Guichon (Hybrid?) pink speckled	-	wk	chl, (qtz) (carb) (ser)	wk qtz/chlr/ py vnls 1-2 mm	loc hem stn alb	-	-	(chl)	chl (qtz) (carb) (ser)	chl (alb?)	-	-	(py) (cpy)	py (cpy)	wk		Weak pervasive chl increasing near bottom of interval. Several loc increases in mafic concentration probably xenoliths. 1.5 % py	
201.2-204.6	Guichon wk fault zone	loc thin suspect some lost	mod/stng, loc shatt/crushed	chl (carb) ser	wk irreg carb vnls	hem, stn alb	-	-	chl loc ser loc alb (patchy ep)	chl (carb) ser (loc ep)	chl	-	-	(py) (cpy)	py (cpy)	wk/ mod		Aplite dyke ~ 7.0 cm, 50° C.A. with partially assimilated qtz vein fragments. Pervasive chl alteration increasing with depth, appears mainly fract controlled. Primary mineralization associated with mafics, mainly hbde. Hbde>bio.	
204.6-209.1	Guichon patchy perv altn	-	wk/mod	chl, qtz, (ser) carb	wk qtz/carb to 2.0 cm, w/cpy + py	hem stn alb	-	-	chl ser loc alb sil bio	chl qtz (ser) carb	-	-	-	(py) (cpy)	py cpy	wk/ mod		Pervasive chl/ser alteration intensity patchy, but increasing with depth. Most readily visible cpy occurs on or near fracts and vnls. 1% py	
209.1-212.8	Guichon stng perv altn dark green/ pale green grey	some slip	mod, loc shatt	chl, ser, carb	wk irreg qtz + carb vnls	loc hem stn ser	-	-	chl ser carb cly	chl ser carb (cly)	-	-	-	(py) tr cpy	py tr cpy	-		Porph dykes 2-10 cm, 40-70° C.A., weakly sericitic mafics strongly chloritized, 209.5-210.0 m, 211.2-211.6 m, 214.0 m. Some textural variation suggests other, earlier dykes, but pervasive alteration has obscured original texture and contacts.	
212.8-216.8	Porphyry green/grey- green, stng perv altn fault zone	loc 213.8- 215.1 m, ~ 10° C.A.	wk/mod, loc dis bx/gge	chl, cly in gge ser, carb	stng qtz 213.4-214.0 wk/mod carb vnls	loc hem stn ser	hem stn carb + qtz	-	chl ser carb cly sil	chl ser carb	-	-	-	diss cpy (py)	(cpy) (py) (mo?)	-		Broken, qtz/chlr/carb healed stockwork? 213.4-214.0 m, with numerous cpy blebs in qtz vein frags and in matrix. Loc carb/chlr healed crush zone. Aplite dykes (possibly porphyritic) 1-2 cm, ~ 40-50° C.A. Qtz vnl with strong red hem stain and cpy/py blebs, 216.0 m.	
216.8-220.7	Porphyry grey-green stng perv altn fault zone	loc several intervals	mod/stng, loc dis bx/gge	chl, ser, carb cly in gge	loc stng qtz/ carb vnls & frags w/ cpy	(loc hem)	(loc hem)	-	carb chl ser cly	chl ser carb	-	-	-	cpy (py)	cpy (py)	tr		Very fine grained diss cpy and cpy blebs in qtz vnls. Loc crushed and carb/chlr healed zones. Check assays ---may grade.	
220.7-224.3	Porphyry wk fault zone, stng	loc, several short intrvs	wk/mod, loc dis bx/gge	chl, ser, carb cly in gge	wk/mod qtz vnls, wk/ mod chl/py heal'd fracts	(loc hem)	-	-	carb chl ser sil	chl ser carb	-	(diss hem)	-	(py) (cpy)	py (cpy)	wk		Possible potassic alteration envelope on fracts & veinlets---stain for K-sp. Aplitic (porphyry?) dykelets 2-3 cm, strong pervasive chl altered. 0.2% py	
Check from 223.0 to 225.5----- 224.3-228.2	Porphyry stng perv altn	-	mod/stng, loc shatt/crushed loc dis bx	chl, ser, (cly) carb	wk/mod qtz/ carb vnls; bkn qtz stkwk? 226.1-227.1 m w/cpy	loc hem stn ser + alb?	loc hem stn ser	-	chl ser carb sil	chl ser (cly) carb	-	-	-	cpy (py)	(py) (cpy)	-		Broad (up to 10 cm), bleached, (Fe-stain) alteration envelope on fracts and veinlets. Several strong chl/ser altered aplitic (porph?) dykelets 2-3 cm. Broken, (probably dis bx) qtz/chlr healed qtz stockwork. 226.1-227.1 m, with strong cpy blebs throughout, loc red streaked hem stain in qtz. Check assays!!!	

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			
228.2-232.2	Porphyry fault zone	loc 232.0 m	mod/stng loc int/crushed	cly in gge, chlr ser, (carb)	num irreg heal'd frags & qtz/carb vnlt	(loc hem)	loc hem stn ser	-	(carb) chlr ser (carb) sil	chlr ser cly in gge	-	-	-	(cpy) tr py tr bo	(py)	-	-	Trace bornite with cpy in qtz veinlets. Several intervals crushed/bx and qtz/chlr/(carb) healed--fairly comp. Weak pervasive cpy with peacock bloom. Loc strong qtz vein frags in healed bx. Cpy blebs with peacock bloom in qtz frags. <u>Check assays!!!</u>
232.2-236.2	Porphyry bx/fault zone	loc 232.6 m	stng/int, loc crushed/bx	-	abd qtz/carb vns, vnlt & frags	(loc hem)	(loc hem)	-	chlr ser carb cly (loc sil?)	-	-	-	-	(cpy) (py)	-	tr	-	Intensely fractured/crushed/bx and healed. Loc strong qtz vein frags with cpy blebs. Check assays!! Cpy>py. Check for anhydrite. 0.2% py
236.2-240.0	Porphyry bx/fault zone	loc 237.7-238.6 m	stng/int, loc crushed/bx	-	num qtz/ carb vnlt w/ cpy + (mo)	hem stn ser	loc hem	-	chlr ser carb sil (cly)	-	-	-	-	tr cpy (py)	-	-	-	Cpy>py. Loc trace mo? with cpy in composite qtz/carb veinlet. Several pearly/coarsely crystalline veins---check for anhydrite. Several sections crushed/bx and chlr/qtz healed, often numerous qtz vein frags.
240.0-243.5	Porphyry wk fault zone	loc	mod/stng, loc bx/crushed	ser, (chlr), carb	num qtz + carb vnlt & frags in bx	hem stn ser	loc hem	-	chlr ser carb (loc sil?)	ser (chlr) carb loc cly	-	-	-	tr cpy tr py	-	tr	-	Trace cpy with peacock bloom. Continued strong pervasive alteration, original fabric largely destroyed.
243.5-246.9	Porphyry fault zone	loc 246.4-246.8 m	stng, loc int/ crushed loc dis bx	chlr_ser (carb)	num irreg qtz + carb vnlt + frags occ w/cpy	loc hem stn ser	hem stn carb	-	chlr ser carb sil (cly)	chlr ser (carb) cly in gge	-	-	-	tr cpy tr py	-	-	-	Loc qtz vein frags, 2-3 cm, with strong cpy blebs 246.8 m. Weak hem rims on diss cpy. Possible loc fract controlled potassic alteration---may be hem stain---stain for K-sp. Cpy occurs mainly in qtz vns and vnlt.
EOH 246.9 m																		

DDH 24

Northing: 5603889.6			DDH 95-24				Azimuth: -		
Easting: 641756.7			Elevation: 1689.9				Inclination: -90		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22598	9.1	10.6	0.03	-	0.20	0.01	5	<.001	Guichon:
22599	10.6	12.1	0.04	-	0.10	0.01	5	<.001	"
22600	12.1	13.6	0.05	-	0.10	0.01	5	<.001	"
22601	13.6	15.1	0.06	-	0.20	0.01	5	<.001	"
22602	15.1	16.6	0.05	-	0.20	0.01	5	<.001	"
22603	16.6	18.1	0.07	-	0.10	0.01	5	<.001	wk fault zone
22604	18.1	19.6	0.04	-	0.10	0.01	5	<.001	"
22605	19.6	21.1	0.11	-	0.20	0.01	5	0.001	"
22606	21.1	22.6	0.11	-	0.20	0.01	5	<.001	"
22607	22.6	24.1	0.10	-	0.20	0.01	5	<.001	"
22608	24.1	25.6	0.07	-	0.10	0.01	5	<.001	"
22609	25.6	27.1	0.09	-	0.10	0.01	5	<.001	"
22610	27.1	28.6	0.09	-	0.10	0.01	5	<.001	"
22611	28.6	30.1	0.08	-	0.10	0.01	5	<.001	"
22612	30.1	31.6	0.07	-	0.10	0.01	5	<.001	"
22613	31.6	33.1	0.11	-	0.20	0.01	5	<.001	"
22614	33.1	34.6	0.32	-	0.40	0.01	5	0.001	"
22615	34.6	36.1	0.13	-	0.20	0.01	5	0.001	"
22616	36.1	37.6	0.13	-	0.20	0.01	5	<.001	"
22617	37.6	39.1	0.12	-	0.10	0.01	5	<.001	"
22618	39.1	40.6	0.11	-	0.10	0.01	5	<.001	"
22619	40.6	42.1	0.07	-	0.30	0.01	5	<.001	"
22620	42.1	43.6	0.11	-	0.10	0.01	5	<.001	"
22621	43.6	45.1	0.06	-	0.10	0.01	5	<.001	"
22622	45.1	46.6	0.07	-	0.10	0.01	5	<.001	"
22623	46.6	48.1	0.06	-	0.10	0.01	5	<.001	"
22624	48.1	49.6	0.07	-	0.10	0.01	5	<.001	"
22625	49.6	51.1	0.15	-	0.20	0.01	5	<.001	"
22626	51.1	52.6	0.08	-	0.10	0.01	5	<.001	"
22627	52.6	54.1	0.08	-	0.10	0.01	5	0.003	"
22628	54.1	55.6	0.06	-	0.20	0.01	5	<.001	"
22629	55.6	57.1	0.05	-	0.10	0.01	5	<.001	"
22630	57.1	58.6	0.12	-	0.20	0.01	5	<.001	"
22631	58.6	60.1	0.16	-	0.20	0.01	5	<.001	"
22632	60.1	61.6	0.07	-	0.10	0.01	5	<.001	"
22633	61.6	63.1	0.08	-	0.20	0.01	5	<.001	"
22634	63.1	64.6	0.14	-	0.10	0.01	5	<.001	"
22635	64.6	66.1	0.13	-	0.10	0.01	5	<.001	"
22636	66.1	67.6	0.12	-	0.10	0.01	5	<.001	"
22637	67.6	69.1	0.10	-	0.10	0.01	5	<.001	"
22638	69.1	70.6	0.08	-	0.10	0.01	5	<.001	"
22639	70.6	72.1	0.12	-	0.10	0.01	5	0.001	"
22640	72.1	73.6	0.19	-	0.20	0.01	5	0.003	"
22641	73.6	75.1	0.23	-	0.20	0.01	5	0.003	"

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22642	75.1	76.6	0.20	-	0.20	0.01	5	0.012	Guichon:
22643	76.6	78.1	0.38	-	0.20	0.01	5	0.001	wk fault zone
22644	78.1	79.6	1.07	-	0.10	0.01	5	0.002	Guichon w/
22645	79.6	81.1	0.56	-	0.10	0.01	5	0.001	Porphyry:
22646	81.1	82.6	0.20	-	0.10	0.01	5	0.001	fault zone
22647	82.6	84.1	0.18	-	0.10	0.01	5	0.002	"
22648	84.1	85.6	0.07	-	0.10	0.01	5	<.001	"
22649	85.6	87.1	0.07	-	0.10	0.01	5	0.002	Guichon/Hybrid:
22650	87.1	88.6	0.12	-	0.10	0.01	5	0.001	"
22651	88.6	90.1	0.09	-	0.10	0.01	5	0.001	"
22652	90.1	91.6	0.08	-	0.10	0.01	5	0.001	"
22653	91.6	93.1	0.07	-	0.10	0.01	5	<.001	Porphyry Dyke
22654	93.1	94.6	0.04	-	0.10	0.01	5	0.001	Porphyry?:
22655	94.6	96.1	0.07	-	0.10	0.01	5	0.002	"
22656	96.1	97.6	0.06	-	0.10	0.01	5	0.001	"
22657	97.6	99.1	0.05	-	0.10	0.01	5	<.001	"
22658	99.1	100.6	0.09	-	0.10	0.01	5	0.003	"
22659	100.6	102.1	0.05	-	0.10	0.01	5	0.002	"
22660	102.1	103.6	0.12	-	0.10	0.01	5	0.002	"
22661	103.6	105.1	0.12	-	0.10	0.01	5	<.001	Guichon:
22662	105.1	106.6	0.06	-	0.20	0.01	5	0.001	Porphyry?:
22663	106.6	108.1	0.04	-	0.10	0.01	5	0.001	"
22664	108.1	109.6	0.05	-	0.10	0.01	5	<.001	"
22665	109.6	111.1	0.04	-	0.10	0.01	5	<.001	"
22666	111.1	112.6	0.06	-	0.10	0.01	5	0.001	"
22667	112.6	114.1	0.09	-	0.10	0.01	5	<.001	Guichon (Hybrid):
22668	114.1	115.6	0.05	-	0.10	0.01	5	<.001	Guichon:
22669	115.6	117.1	0.04	-	0.10	0.01	5	0.001	"
22670	117.1	118.6	0.04	-	0.10	0.01	5	0.001	"
22671	118.6	120.1	0.08	-	0.10	0.01	5	0.001	"
22672	120.1	121.6	0.03	-	0.10	0.01	5	<.001	"
22673	121.6	123.1	0.04	-	0.10	0.01	5	<.001	"
22674	123.1	124.6	0.03	-	0.10	0.01	5	<.001	"
22675	124.6	126.1	0.06	-	0.20	0.01	5	0.002	"
22676	126.1	127.6	0.06	-	0.10	0.01	5	<.001	"
22677	127.6	129.1	0.05	-	0.10	0.01	5	<.001	"
22678	129.1	130.6	0.05	-	0.10	0.01	5	0.001	"
22679	130.6	132.1	0.08	-	0.10	0.01	5	0.011	"
22680	132.1	133.6	0.08	-	0.10	0.01	5	0.001	"
22681	133.6	135.1	0.08	-	0.20	0.01	5	<.001	"
22682	135.1	136.6	0.09	-	0.10	0.01	5	<.001	"
22683	136.6	138.1	0.11	-	0.10	0.01	5	<.001	"
22684	138.1	139.6	0.16	-	0.20	0.01	5	0.004	"
22685	139.6	141.1	0.09	-	0.10	0.01	5	0.013	"
22686	141.1	142.6	0.10	-	0.10	0.01	5	0.001	"
22687	142.6	144.1	0.09	-	0.10	0.01	5	0.003	"
22688	144.1	145.6	0.12	-	0.20	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							
22689	145.6	147.1	0.08	-	0.10	0.01	5	<.001	Guichon:
22690	147.1	148.6	0.05	-	0.10	0.01	5	0.001	"
22691	148.6	150.1	0.06	-	0.10	0.01	5	<.001	"
22692	150.1	151.6	0.05	-	0.10	0.01	5	<.001	"
22693	151.6	153.1	0.09	-	0.10	0.01	5	<.001	Guichon (Hybrid):
22694	153.1	154.6	0.04	-	0.10	0.01	5	<.001	"
22695	154.6	156.1	0.05	-	0.10	0.01	5	<.001	Guichon:
22696	156.1	157.6	0.04	-	0.10	0.01	5	<.001	"
22697	157.6	159.1	0.04	-	0.20	0.01	5	<.001	"
22698	159.1	160.6	0.06	-	0.10	0.01	5	<.001	"
22699	160.6	162.1	0.03	-	0.10	0.01	5	<.001	"
22700	162.1	163.6	0.07	-	0.10	0.01	5	<.001	Guichon (Hybrid?):
22701	163.6	165.1	0.06	-	0.10	0.01	5	0.017	"
22702	165.1	166.6	0.10	-	0.10	0.01	5	<.001	"
22703	166.6	168.1	0.08	-	0.10	0.01	5	0.001	Guichon:
22704	168.1	169.6	0.11	-	0.10	0.01	5	0.003	"
22705	169.6	171.1	0.08	-	0.10	0.01	5	0.001	"
22706	171.1	172.6	0.07	-	0.10	0.01	5	<.001	"
22707	172.6	174.1	0.11	-	0.30	0.01	5	0.008	Grey Porphyry:
22708	174.1	175.6	0.09	-	0.10	0.01	5	<.001	"
22709	175.6	177.1	0.05	-	0.10	0.01	5	0.008	"
22710	177.1	178.6	0.10	-	0.10	0.01	5	0.017	"
22711	178.6	180.1	0.04	-	0.10	0.01	5	0.001	"
22712	180.1	181.6	0.05	-	0.10	0.01	5	<.001	"
22713	181.6	183.1	0.06	-	0.10	0.01	5	0.001	Guichon:
22714	183.1	184.6	0.06	-	0.10	0.01	5	0.001	"
22715	184.6	186.1	0.08	-	0.10	0.01	5	<.001	"
22716	186.1	187.6	0.08	-	0.10	0.01	5	0.001	"
22717	187.6	189.1	0.05	-	0.10	0.01	5	<.001	"
22718	189.1	190.6	0.05	-	0.10	0.01	5	<.001	"
22719	190.6	192.1	0.04	-	0.10	0.01	5	0.001	"
22720	192.1	193.6	0.06	-	0.20	0.01	5	<.001	"
22721	193.6	195.1	0.06	-	0.20	0.01	5	<.001	"
22722	195.1	196.6	0.05	-	0.10	0.01	5	0.008	"
22723	196.6	198.1	0.03	-	0.10	0.01	5	0.001	Guichon (Hybrid?):
22724	198.1	199.6	0.03	-	0.10	0.01	5	0.001	"
22725	199.6	201.1	0.05	-	0.20	0.01	5	<.001	"
22726	201.1	202.6	0.05	-	0.20	0.01	5	0.004	Guichon:
22727	202.6	204.1	0.06	-	0.10	0.01	5	0.001	wk fault zone
22728	204.1	205.6	0.05	-	0.10	0.01	5	<.001	"
22729	205.6	207.1	0.05	-	0.10	0.01	5	0.006	"
22730	207.1	208.6	0.05	-	0.10	0.01	5	<.001	"
22731	208.6	210.1	0.06	-	0.10	0.01	5	<.001	"
22732	210.1	211.6	0.16	-	0.10	0.01	5	<.001	"
22733	211.6	213.1	0.09	-	0.20	0.01	5	0.001	fault zone
22734	213.1	214.6	0.15	-	0.20	0.01	5	0.006	"
22735	214.6	216.1	0.09	-	0.10	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							
22736	216.1	217.6	0.05	-	0.10	0.01	5	<.001	Guichon:
22737	217.6	219.1	0.06	-	0.10	0.01	5	<.001	fault zone
22738	219.1	220.6	0.16	-	0.10	0.01	5	<.001	"
22739	220.6	222.1	0.08	-	0.10	0.01	5	<.001	"
22740	222.1	223.6	0.07	-	0.10	0.01	5	<.001	Porphyry?:
22741	223.6	225.1	0.15	-	0.10	0.01	5	0.008	Guichon:
22742	225.1	226.6	0.85	-	0.20	0.01	5	0.001	"
22743	226.6	228.1	0.93	-	0.10	0.01	5	0.002	"
22744	228.1	229.6	0.04	-	0.10	0.01	5	0.001	Guichon?:
22745	229.6	231.1	0.03	-	0.10	<.01	5	0.002	fault zone
22746	231.1	232.6	0.30	-	0.20	0.01	5	0.001	"
22747	232.6	234.1	0.25	-	0.10	<.01	5	<.001	fault zone
22748	234.1	235.6	0.08	-	0.10	<.01	5	<.001	"
22749	235.6	237.1	0.09	-	0.10	<.01	5	0.019	fault zone
22750	237.1	238.6	0.05	-	0.10	<.01	5	<.001	"
22751	238.6	240.1	0.01	-	0.10	<.01	5	<.001	"
22752	240.1	241.6	0.04	-	0.10	<.01	5	<.001	fault zone
22753	241.6	243.1	0.02	-	0.10	<.01	5	<.001	"
22754	243.1	244.6	0.02	-	0.10	<.01	5	<.001	fault zone
22755	244.6	246.1	0.07	-	0.10	<.01	5	0.001	"
22756	246.1	246.9	0.26	-	0.10	<.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	95-25	Date	24-Oct							Logged by	VN								
Elevation	1669.4 m	Azimuth	225							Northing:	5603940.6								
Inclination	-45	Length	210.0 m							Easting:	641854.1								
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.				
3.0-6.0	overburden																	Rounded Guichon frags	
6.0-10.2	Guichon pink speckled hbde>>bio		mod/stng	carb, chl, (ser)	wk chl heal'd frags		hem stn carb, loc goe?		carb chl (ser)	chl (ser)				(py)	wk/ mod			6.0-6.4 m, Volcaniclastic? Nicola? with diss ep and diss cpy from very fine grained to small blebs. <u>IS THIS A BOULDER OR IS IT IN PLACE??</u>	
10.2-13.6	Guichon Hybrid, loc mafic rich		loc comp mod/stng, loc bkn	carb, chl (ser) (qtz)	wk/mod chl/qtz heal'd frags		(hem stn carb)		carb chl (ser) (qtz)	chl (ser)				(cpy) (py)	py mod			Loc increase in mafic concentration 11.0-13.6 m, probably assimilated xenolith. Scattered chloritic mafic clots. Appears to be weakly foliated. 0.2% py	
13.6-17.8	Guichon Hyb loc mafic rich		wk/mod	(carb) (ser) chl (qtz)	wk chl heal'd frags		loc hem goe?	(loc alb)	(carb) (ser) chl (qtz) loc ep	chl				tr cpy tr py	(cpy) wk			Loc increases in mafic concentration--several partially assimilated xenoliths. Loc weak foliation Blue green ser on frags and in weak, diffuse alteration envelopes. 0.2% py	
17.8-21.6	Guichon Hyb loc mafic rich	loc thin 18.5 m	mod/stng, loc bkn/shatt	chl, carb, (ser)	carb vn 2 cm, mod/ stng chl/ carb healed fracts w/ py + (cpy)	(loc hem stn alb)	hem jar	(loc alb) loc chl	chl carb (ser)	chl				diss hem (cpy) (py)	py (cpy) mod			Several partially assimilated xenoliths. Loc strong chl alteration envelope on carb vein, weak perv-asive chl increasing with depth. Phenos becoming loc ghost-like. 0.5% py	
21.6-24.9	Guichon Hyb loc mafic rich		stng/bkn, loc comp, loc ckle bx	chl, carb (ser)	qtz vn frags in bx	loc hem stn alb	hem jar	(chl) diss ep)	chl carb (ser)	chl				(cpy) (py)	- mod			Several partially assimilated xenoliths. Phenos becoming loc ghost-like. Overall primary mineralization weak. 0.2% py	
24.9-28.7	Guichon Hyb	loc thin & some slip	mod, loc crushed	carb, chl (ser)	wk qtz/carb vnlt w/ (cpy)		(hem) (jar)	(loc chl) (loc ser) (loc ep) alb?	(loc ep) carb (ser)	chl				(loc cpy) (loc py)	- mod			Partially assimilated xenoliths. Loc strong fract/vein controlled chl alteration. Primary mineralization associated with frags and veinlets. 0.2% py	
28.7-32.5	Guichon Hyb mafic rich		wk/mod	carb, chl (ser)	wk irreg carb vnlt			chl ser (loc ep) bio	carb chl (ser) loc ep	chl				(cpy) tr py	(py) tr cpy mod			Increasingly mafic and pervasive chl/ser altered with depth. Very fine grained py and cpy diss and dissf. Loc prominent foliation. Secondary bio.	

ROCK TYPE		FAULT GOUGE	STRUCTURE		STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACTURE INTENSITY	FRACTURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene				
								perv.	fract.		perv	fract	perv	fract		
32.5-36.3	Guichon (Hyb?), mafic rich	loc 33.9- 34.2 m	wk/mod loc stng/bkn	carb, chl (ser) cly in gge	wk irreg carb + qtz vnltls w/hem and cpy	-	-	-	chl ser (loc ep)	carb chl (ser)	?	-	(cpy) (py)	py (cpy)	wk/ mod	Loc prominent foliation—possibly synintrusive shear?? Scattered chloritic mafic clots. Speckled red hem in qtz and carb vnltls, with very fine grained cpy and cpy blebs. 0.5% py
36.3-39.8	Guichon Hyb loc mafic rich	-	mod/stng, loc bkn	carb, chl (ser)	wk carb vnltls, wk microfract w/cpy + py	-	(loc hem)	-	patchy ep loc chl loc alb	loc ep carb (ser)	chl	-	(cpy) (py)	loc py	mod	Partially assimilated xenolith. Dark grey/black porphyritic dyke 39.6 - 39.8 m. 0.5% py
39.8-43.9	Guichon Hyb loc mafic rich	loc 43.6 - 43.9 m 20° C.A.	wk/mod, loc stng/bkn	carb, chl (ser)	wk/mod chl/carb heal'd fract w/py + (cpy)	-	(loc hem)	-	patchy ep loc alb	carb chl (ser)	chl ep? alb?	-	(cpy) (py)	py (cpy)	wk mod	Slight decrease in mafic grain size. Diffuse ep and hem stained alb in alteration envelopes on fract. 1% py
43.9-47.1	Guichon Hyb loc mafic rich	loc thin + some slip	mod/stng loc bkn	carb, chl (ser) (qtz)	wk irreg carb vnltls mod/stng qtz/chl/ carb healed fracts w/ (py)	-	loc hem stn carb	-	patchy ep (loc chl)	loc ep carb chl (ser) (qtz)	chl ep? alb?	-	(cpy) (py)	loc py (cpy)	wk/ mod	Partially assimilated xenoliths. Weak blue green ser? on fract and in weak alteration envelopes. 0.2% py
47.1-51.1	Guichon Hyb loc mafic rich	-	wk/mod	carb, chl (ser) (qtz)	wk/mod chl/qtz/carb heal'd fract	-	loc hem stn carb	-	patchy ep (loc ser) loc alb?	ep carb chl (ser) (qtz)	chl ep? alb?	-	(cpy) (py)	py (cpy)	wk/ mod	Partially assimilated xenoliths. Weak blue green ser? on fract. 0.5% py
51.1-54.7	Guichon Hyb	-	mod/stng loc bkn	carb, chl ser	wk/mod carb vnltls wk chl heal'd fract	-	-	-	patchy ep (chl) (loc alb?)	carb chl ser	chl ep? alb?	-	(cpy) (py)	py (cpy)	wk/ mod	Weak diss ep with loc mod diffuse ep patches associated with fract. 0.5% py
54.7-58.7	Guichon (Hyb)	-	mod, loc int/ crushed	carb, chl loc stng ser, loc cly?	wk carb vnltls, mod/ stng chl/ carb healed fracts w/py	(loc hem stn alb)	loc hem	? loc cly?	chl loc alb loc ser (loc carb)	loc ep carb chl loc ser loc cly?	-	-	py (cpy)	(cpy) (py)	wk	Loc complete ser alteration 57.6-58.7 m. Loc strong diss cpy and cpy in fract. 0.5% py
58.7-62.4	Guichon	-	mod/stng, loc bkn/crushed	carb, ser (chl)	wk chl/ carb/py heal'd fract	loc hem stn alb	loc hem	-	(chl) (patchy ep) loc alb loc ser	carb ser (chl)	chl ep? alb?	-	(cpy) (py)	(py) (cpy)	wk/ mod	Patchy pervasive alteration, loc strong pervasive ser. Pervasive chl increasing. Blue green ser? on fract and in weak, diffuse alteration envelopes 0.2% py.

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
62.4-65.7	Guichon patchy perv altn	? loc may have been lost 64.3m	mod/stng, loc bkn/shat/ crushed, loc dis bx	carb, ser, chlr	wk qtz/carb vnits	loc hem stn alb	-	-	(chlr) patchy ep alb loc ser	carb ser chlr	?	-	-	loc cpy (py)	py (cpy)	-	Loc healed dis bx 63.3-63.8 m clasts of hem stained alb, qtz, apilite? and ep with py in clasts and in matrix. Primary mineralization increases in and near dislocation bx section.	
65.7-69.7	Guichon Hybrid loc mafic rich patchy perv altn	-	mod/stng, loc wk ckle	carb, chlr, ser, qtz	wk/mod qtz vnits w/py parallel to C.A.	loc hem stn alb	-	-	patchy ep loc alb (loc chlr) (loc ser)	ep carb chlr ser qtz	?	-	-	loc cpy (py)	py (cpy)	wk/ mod	Alteration envelope with chlr selvage. Py>>cpy. Loc strong py in qtz vnits with bleached alteration envelopes. 1% py	
69.7-73.7	Guichon Hybrid loc mafic rich	-	mod/stng, loc bkn	carb, chlr, ser (qtz)	mod qtz vnits w/py	loc hem stn carb	-	-	(patchy ep) (loc alb) (loc chlr)	carb chlr ser (qtz)	chlr (ep?)	-	-	(py) (cpy)	py cpy	wk/ mod	Several small partially assimilated xenoliths. Bleached alteration envelopes on qtz vnits with py, as in previous interval. Some variation in mafic grain size. 1% py	
73.7-77.4	Guichon	-	mod	chlr, ser, carb	wk/mod qtz/ carb vnits w/py parallel to C.A.	(loc hem)	-	-	(chlr) (loc ep) (loc alb)	chlr ser carb	chlr	-	-	(cpy)	py (cpy)	wk	Similar to previous interval. 1.5% py	
77.4-81.7	Guichon (Hybrid?) loc mafic rich	-	mod, loc stng	chlr, ser, carb	mod/stng chlr healed fracts w/py	(loc hem stn carb)	-	-	(chlr) (loc ser)	carb chlr ser	chlr	-	-	(py) (cpy)	py tr cpy	mod/ stng	Very weak pervasive carb. Scattered chloritic mafic clots. Very fine grained diss cpy with mafics. 1.5% py	
81.7-85.7	Guichon	-	wk/mod	chlr, ser, carb (qtz)	wk qtz vnits w/py, mod chlr/carb/ py healed fracts	-	-	(alb)	chlr ser carb (qtz)	chlr alb?	-	-	-	(py) (cpy)	py (cpy)	mod/ stng	Dark grey porphyry dyke, 83.2 m, ~ 20.0 cm, with small xenoliths of Guichon wallrock, partially melted. Weak very fine grained cpy in dyke, cpy in xenoliths. Black chill margins 2-3 cm. Weak dif- fuse, alteration envelopes with blue green ser on fracts with py. Porphyry dyke, 85.3 m, ~ 2 cm, similar to Porphyry at 174.6 m, in DDH 95-24.	
85.7-89.6	Guichon	loc thin 89.5 m	mod, loc wk ckle	(chlr) (ser) (carb) qtz	num chlr/ qtz/carb heal'd fracts w/ py ± (cpy)	(loc hem stn alb)	(loc hem stn qtz)	-	alb (patchy ep) (patchy chlr)	(chlr) loc ep (chlr) (ser) (carb) qtz	chlr alb? (ep?)	-	-	py (cpy)	py (cpy)	mod/ stng	Loc strong ep fracture filling with (cpy) blebs. Weak blue green ser on fracts and in weak diffuse alteration envelopes on fracts. 2% py	

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
89.6-94.0	Guichon (Hybrid?)	-	mod/stng, loc bkn/crushed	carb, chl, (ser) (qtz)	wk/mod carb, chl, qtz healed microfracts	(loc hem stn alb)	wk hem	-	loc ep (alb)	carb chl (ser)	chl alb?	-	-	cpy (py)	py (cpy)	wk/ mod	Phenos loc ghost like. Patchy mod/strong perva- sive chl. Crushed at top of interval. 1.5% py	
94.0-97.0	Guichon (Hybrid?) loc mafic rich	-	mod/stng, loc bkn/shatt	carb, chl (ser) qtz	num chl/ carb/qtz heal'd fracts w/ py ± (cpy)	(loc hem stn alb)	wk hem	-	loc alb patchy ep (loc chl)	carb chl (ser) qtz (loc ep)	chl alb? ep?	-	-	cpy tr py	py (cpy)	wk	Variations in mafic grain size, from fine to mod to coarse grained. Pervasive alteration intensity increasing. 2% py	
97.0-101.6	Bethlehem? mafic rich	-	stng/bkn/shatt loc ckle	carb, chl, ser	num chl/ carb/qtz heal'd fracts w/py ± (cpy)	(loc hem stn alb)	(hem stn carb)	-	loc ep loc alb (chl)	loc ep carb chl	?	-	-	cpy (py)	py (cpy)	tr/wk/ mod	Weakly porphyritic, irregular mafic distribution suggests Bethlehem Phase.	
101.6-103.8	Guichon loc mafic rich	-	stng/bkn loc ckle	carb, chl, ser	wk carb vnits, wk/ mod chl/ carb qtz heal'd fracts	(loc hem stn alb)	-	-	patchy ep (loc chl) alb	carb chl ser	-	-	-	(cpy) (py)	py (cpy)	wk/ mod	Blue green ser on fracts and in weak diffuse atn envelope with ep. Dark grey/black porph- yry dykelet, 103.0 m. ~ 5 cm, 20° C.A., similar to Porphyry at 83.2 m. 1.5% py	
103.8-108.3	Bethlehem? Qtz ± hbl + fsp crowded porphyry	some slip	stng/bkn/ shatt	carb (chl) (ser)	wk/mod irreg carb vnits	(loc hem stn alb)	-	-	(diss ep) loc alb	(ep) carb (chl) (ser)	?	-	-	py (cpy)	py	wk	Matches porphyry at 92.4 m, in DDH 95-24. Chilled contact. (Cpy) locally replacing mafics. 1% py.	
108.3-111.9	Bethlehem?	-	wk/mod ckle loc bkn	carb, chl (ser), (qtz)	wk irreg carb vnits abd chl/ carb/(qtz) vnits	(loc hem stn alb)	-	-	(chl) alb?	carb chl (ser) (qtz)	chl?	-	-	(cpy) py	py (cpy?)	mod	Similar to previous interval, with ep absent. 1% py	
111.9-116.0	Bethlehem?	-	mod/stng, loc	carb, chl	wk irreg	(loc hem	(loc	-	(patchy	carb	chl	-	-	(cpy)	py	wk	Several rounded xenoliths with (chl) pervasive	
111.9-116.0	Bethlehem? Qtz ± hbl + fsp crowded porphyry	-	mod/stng, loc bkn/shatt	carb, chl (ser) (qtz)	wk irreg carb vnits abd chl/qtz ± carb/py vnits	(loc hem stn alb)	(loc hem)	-	(patchy ep) loc alb	chl (ser) (qtz) carb	alb? chl	-	-	(py) (cpy)	tr cpy pyr	mod	Several rounded xenoliths with (chl) pervasive alteration--resemble Guichon. Chilled, black aphanitic contact at 116.0 m. 1% py	
116.0-119.5	Guichon/ Hybrid loc mafic rich	-	wk/mod loc wk ckle	chl, carb, (ser)	wk/mod qtz vnits w/py	-	-	-	loc ep loc alb loc chl	chl carb (ser) loc ep	alb? chl ep?	-	-	(cpy) py	py	wk	Loc strong patchy ep 118.8-119.8 m, with pervasive chl--possibly Guichon interfingering with Hybrid. 1.5% py	

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			
119.5-123.5	Guichon/ Hybrid patchy perv altn	-	wk/mod loc wk ckle	chl, carb (ser) (qtz)	wk qtz vnlt w/ py + (cpy), wk/ mod chl/ carb healed	loc hem stn alb	(loc hem stn qtz + carb)	-	patchy alb	loc ep chl carb ep? chl (ser) (patchy)	chl alb? ep?	-	-	py (cpy)	py (cpy)	mod		Strong blue green ser on fracts and in weak/mod altn envelopes on fracts and especially on qtz vnlt with py and (cpy). 1% py
123.5-127.8	Guichon/ Hybrid patchy perv altn	-	wk, loc wk ckle	carb chl (ser)	wk qtz vnlt w/ py + (cpy), wk/ mod chl/ carb healed fracts	(loc hem stn alb)	(loc hem stn carb)	-	patchy alb	carb chl (ser) ep loc ep (loc chl)	chl alb? ep?	-	-	(py) (cpy)	loc py (loc cpy)	mod		Similar to previous interval with loc increase in ep. Loc quite fine grained mafics--salt and peppery. Decrease in primary mineralization.
127.8-131.5	Guichon Hyb loc mafic rich	-	wk/mod	carb, chl, loc ser	wk irreg carb vnlt, wk/mod chl/carb heal'd fracts	(loc hem stn alb)	(loc hem stn ser)	-	patchy ep (chl) alb	carb chl alb? loc ser (ep) (loc ep)	chl alb? ep?	-	-	loc cpy py	py (cpy)	wk		Loc strong cpy 130.8 m in pervasive chl/ep altered, healed crush? zone?
131.5-135.8	Guichon/Hyb loc mafic rich, patchy perv altn	-	mod/stng, loc bkn	chl, carb ser, (qtz)	wk irreg carb vnlt w/py + (cpy)	loc hem stn alb	-	-	patchy ep alb loc chl (loc ep)	chl carb ser (qtz) (loc ep)	chl alb? ep?	-	-	py cpy	py (cpy)	wk		Loc strong patchy ep 131.5-133.5 m --possibly Guichon interfingering with Hybrid. Loc very strong cpy with massive ep 131.9 m - remobilized
135.8-139.2	Guichon/Hyb loc mafic rich patchy perv loc mafic rich	some slip	stng/int loc bkn	chl, carb, ser	mod/stng irreg qtz + carb vnlt	(loc hem stn alb)	(loc hem)	-	patchy ep alb (loc ser)	chl carb ser	-	-	-	py cpy	py cpy	wk		Mod/strong pervasive py and cpy. Overall primary mineralization mod/strong. Mainly fract controlled strong pervasive chl alteration. 1.5% py
143.1-145.7	Guichon loc mafic rich	-	wk/mod	chl, carb (ser)	num qtz/chl vnlt w/py + cpy	-	-	-	(diss ep) alb	chl carb (ser)	chl alb? ep?	-	-	(py) (cpy)	py (cpy)	mod		Medium to fine grained Guichon. Weak blue green ser on fracts. 1% py.
145.7-146.8	Hybrid	-	stng/bkn	chl, carb (ser)	mod/stng qtz vnlt w/ py	-	-	-	patchy ep chl alb	chl carb (ser)	-	-	-	cpy py	py (cpy)	wk		
146.8-150.6	Bethlehem? Porphyry	some slip	mod/stng	carb, chl, (ser) qtz	wk carb vnlt, loc stng qtz vnlt w/py and (cpy)	loc hem stn alb	-	-	loc chl loc ep alb	loc ep carb chl (ser) qtz	chl	-	-	(py) (cpy)	py (cpy)	mod/ stng		Bethlehem? Porphyry** 146.8-149.3 m with short aplitic sections. Hybrid-like interval, more mafic rich, finer grained 149.3-150.6 m. 0.5% py ** As at 106.9 m, above. Possibly partially assimilated xenolith 149.0 m.

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			
150.6-154.9	Porphyry		wk/mod	carb, chlr (ser) (qtz)	abd qtz + chlr + carb + py vnlt 0.5-1 mm	-	-	-	(chlr) (patchy ep) loc alb	carb chlr (ser) (qtz)	chlr alb?	-	-	(py) (cpy)	py (cpy)	mod/ stng		Medium to fine grained porphyry/Hybrid with loc stronger porphyry sections. Gradational change to Beth Porphyry at bottom of interval. Loc diffuse ep in alteration envelopes on fracts. 1.5% py
154.9-159.1	Bethlehem? Porphyry		mod/stng, loc ckle	carb, chlr (ser)	abd qtz + chlr + carb + py vnlt 0.5-1 mm num qtz vnlt w/ py and cpy	-	-	-	(diss ep) alb	carb chlr (ser)	chlr alb? ep?	-	-	(py) (cpy)	py (cpy)	wk/ mod		Phenos loc ghost-like. Py>cpy. 1% py
159.1-163.0	Bethlehem? Porphyry		wk/mod loc bkn/shatt	(ser) qtz, (carb) (loc chlr)	num py/ (chlr)/qtz vnlt 1-2 mm	(loc hem?)	-	-	Patchy diss ep loc alb (ser)	(ser) (carb) (loc chlr) qtz loc ep	chlr (ep?) alb?	-	-	(py) (cpy)	py (cpy)	wk/ mod		Stain for K-spar. Increasingly fractured and shattered with depth. Colour and textural change at ~ 162.1 m, finer grained, more porphyritic (somewhat aplitic). Possibly healed crush/Bx zone 162.2-162.4 m, with strong chlr/alb/ep, vuggy. 1.5% py
163.0-167.1	Bethlehem? Porphyry		mod/stng, loc bkn/shatt	ser, (carb) loc stng chlr qtz	abd qtz/chlr /py vnlt wk qtz vnlt qtz vnlt w/ py	(hem?)	(loc hem stn qtz + carb)	-	(patchy diss ep) loc alb (ser)	ser (carb) qtz loc chlr loc ep	chlr (ep?) alb	-	-	py (cpy)	py (cpy)	wk/ mod		Gradational colour and textural changes from slightly aplitic to coarse grained, more crowded then becoming aplitic at bottom. Weak blue green ser on fracts and occasionally in weak alteration envelopes on fracts. 1.5% py
167.1-169.1	Bethlehem? Porphyry		stng/bkn loc shatt	(ser) (carb) loc chlr, qtz	num qtz vnlt w/py 0.5-1 mm	(hem?)	-	-	(patchy ep) (loc ser)	loc ep (ser) (carb) loc chlr qtz	(chlr) alb?	-	-	(py) tr cpy	py	tr/wk		Continued pink, aplitic porphyry, increasingly fractured and shattered with depth. Chilled contact with Guichon 169.1 m.
169.1-170.4	Guichon		wk/mod	(ser)(chlr) qtz carb	num qtz/chlr /carb vnlt w/ (py) 0.5-1 mm	-	-	-	patchy ep loc alb	(ser) (chlr) qtz carb loc ep	chlr	-	-	(py) (cpy)	py tr cpy	mod		Strong patchy ep near contact with porphyry decreasing with depth. Blue green ser on fracts and in weak alteration envelopes, especially near contact. 1% py
170.4-174.2	Guichon/Hyb mafic rich fine grained		mod/stng	ser, chlr, carb qtz	wk qtz/carb vnlt w/py	-	-	-	patchy ep loc alb (loc chlr)	ser chlr carb loc ep	chlr alb?	-	-	(py) tr cpy	py	mod		Patchy fract controlled pervasive alteration. Ep usually in diffuse alteration envelopes on fracts at 5-10° C.A. with mod/strong pervasve and weak/mod alteration envelopes. Blue green ser on fracts and in alteration envelopes. 1% py
174.2-178.3	Hybrid, loc mafic rich loc wk foliated		wk/mod	ser, chlr (carb)	graphic aplite vnlt ~ 2.0 cm, num	-	-	-	loc chlr loc alb (patchy	ser chlr (carb)	chlr alb ep	-	-	(py) tr cpy	py	mod		Several partially assimilated xenoliths. Variable texture throughout, fine grained to very fine grained, loc coarse grained, blotchy mafics.

interval (m)	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
					qtz/chlr/py heal'd fract				ep)							1% py		
181.9-185.8	Hybrid loc mafic rich		stng/bkn loc shatt/ crushed	ser, chlr, carb	wk irreg carb vnits wk qtz vnits w/py	(loc hem stn alb)			patchy ep, alb loc chlr loc ser	ser chlr carb loc ep	?			(py) (cpy)	py tr cpy	wk/ mod	Loc strong ser and chlr on fract. Perv altn ap- pears mainly fract controlled. Very f. grained cpy assoc with mafics. Aplitic porph dk, bkn, (not as fine grained as above) 183.2-183.5 m. 1% py	
185.8-189.5	Hybrid, patchy perv altn, loc mafic rich		stng/bkn, loc shatt/crushed	ser, chlr, carb	wk irreg carb vnits				patchy ep loc chlr loc alb (loc ser)	ser chlr carb loc ep				(py) tr cpy	loc py tr cpy	mod	Increase in ser and chlr on fract. Loc strong pervasive patchy chlr/ep and alb. Phenos loc ghost like. Py loc strong on fract. Py->cpy 1.5% py	
189.5-193.5	Hybrid, patchy perv altn, loc mafic rich		stng/int, loc shatt/crushed loc wk ckle	ser, chlr, carb	wk py vnits 1-3 mm	(loc hem stn qtz & carb)			patchy ep loc chlr loc alb (loc ser)	ser chlr carb loc ep				py (cpy)	py (cpy)	mod/ stng	Aplitic porphyry** dyke, - parallel to C.A., 192.0- 192.9 m, with loc strong py in fract. Strong, diffuse patchy ep in Hybrid near contact. ** Similar to dyke at 178.8 m. Contact is uneven slip surface slip appears to be perpendicular to C.A. 1.5% py	
193.5-196.0	Porphyry dyke, pink aplitic		shatt/crushed	(carb) qtz (ser)		(hem)			tr ser (patchy ep)	(carb) qtz (ser) ep				(py) (cpy)	py (cpy)		Same pink aplitic porphyry as seen above, and at 178.8 m and 183.2 m. Shattering may be due to drill. Core loss, strongly drill rounded.	
196.0-197.8	Guichon (Hyb?) loc mafic rich		stng/bkn loc shatt	ser, chlr carb	wk/mod qtz/ py vnits to 3 mm	(hem stn alb)			alb patchy ep (chlr)	ser chlr carb ep	chlr			(py) (cpy)	py (cpy)	wk	Strong pervasive alb alteration with mod/strong patchy epidote. Py mineralization in fract similar to intervals above porphyry dyke at 193.5 m. Fine grained to very fine grained diss cpy, usually with mafics. Py> cpy. Py and cpy replacing mafics. 2% py.	
197.8-201.6	Guichon (Hyb?)		stng/ckle, loc bkn sets at 20 30 + 40° C.A.	ser, chlr, carb	mod/stng ep /chlr heated fract, mod/ stng qtz/py vnits				alb patchy ep (chlr)	ep ser chlr carb	chlr			(pcy) (cpy)	py cpy	tr/wk	Pink aplitic porphyry dykes 199.8 m, 200.8-201.1m, 201.6 m, with fine grained diss cpy and py, py in fract, cpy in microfract. Strong pervasive ep/ alb alteration in Guichon gives mottled pink/green appearance. Loc strong ep and chlr on fract. Py and cpy replacing mafics.	
201.6-205.5	Guichon (Hyb?) loc mafic rich		ckle bx, bkn/shatt	ser, carb chlr	ep vnits + ff w/py + cpy mod/stng qtz/py vnits				alb patchy ep (chlr)	ep ser chlr carb	?			py (cpy)	py cpy	wk	Strong pervasive ep/alb alteration as seen above. Pink aplitic porph dykes 201.6-201.8m, 202.7- 203.7m, 204.2-204.5m, 204.7-205.5m. Loc strong py in fract w/occ py vnits 2-3 mm. Fine grained to v fgr diss cpy in aplitic + in wrk. Check assays 3% py.	

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		
205.5-210.0	Guichon (Hyb?)/Porph	loc 205.7- 206.3m (poor recovery)	ckle/dis bx bkn/shatt, loc crushed	ser, carb, chl cly in gge	abd irreg carb vnls, mod/stng qtz/py vnls	-	-	-	alb patchy ep (chl)	ep ser chl carb	?	-	-	(py) (cpy)	py cpy	wk	<p>Pink aplitic porphyry with intervals of strong pervasive ep/alb altered. Guichon (Hybrid?). Wallrock appears to have been partially melted and recrystallized. Noted several partially assimilated xenoliths of wallrock in porphyry. Strong qtz/alb alteration envelopes on py vnls. Alteration intensity increasing. 1% py</p> <p>Drill hole stopped due to rock conditions - unable to reduce, NQ rods not yet on site.</p>
EOH 210.0 m																	

Northing: 5603940.6			DDH 95-25				Azimuth: 225		
Easting: 641854.1			Elevation: 1669.4 m				Inclination: -45		
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
22757	6.0	7.5	0.01	-	0.10	0.01	5	<.001	Guichon:
22758	7.5	9.0	0.02	-	0.10	0.01	5	<.001	"
22759	9.0	10.5	0.01	-	0.10	0.01	5	<.001	Guichon/Hybrid:
22760	10.5	12.0	0.02	-	0.10	0.01	5	<.001	"
22761	12.0	13.5	0.04	-	0.20	0.01	5	<.001	"
22762	13.5	15.0	0.05	-	0.10	0.01	5	<.001	"
22763	15.0	16.5	0.08	-	0.10	0.01	5	<.001	"
22764	16.5	18.0	0.05	-	0.10	0.01	5	<.001	"
22765	18.0	19.5	0.05	-	0.10	0.01	5	<.001	"
22766	19.5	21.0	0.11	-	0.20	0.01	5	<.001	"
22767	21.0	22.5	0.06	-	0.10	0.01	5	<.001	"
22768	22.5	24.0	0.09	-	0.10	0.01	5	<.001	"
22769	24.0	25.5	0.03	-	0.10	0.01	5	<.001	"
22770	25.5	27.0	0.02	-	0.20	0.01	5	<.001	"
22771	27.0	28.5	0.08	-	0.10	0.01	5	<.001	"
22772	28.5	30.0	0.07	-	0.10	0.01	5	<.001	"
22773	30.0	31.5	0.05	-	0.10	0.01	5	<.001	"
22774	31.5	33.0	0.01	-	0.10	0.01	5	<.001	Guichon (Hybrid?):
22775	33.0	34.5	0.04	-	0.10	0.01	5	<.001	"
22776	34.5	36.0	0.07	-	0.10	0.01	5	<.001	"
22777	36.0	37.5	0.06	-	0.10	0.01	5	<.001	Guichon Hybrid:
22778	37.5	39.0	0.07	-	0.10	0.01	5	0.004	"
22779	39.0	40.5	0.07	-	0.10	0.01	5	0.006	"
22780	40.5	42.0	0.08	-	0.10	0.01	5	<.001	"
22781	42.0	43.5	0.08	-	0.10	0.01	5	<.001	"
22782	43.5	45.0	0.06	-	0.10	0.01	5	0.001	"
22783	45.0	46.5	0.06	-	0.10	0.01	5	0.001	"
22784	46.5	48.0	0.04	-	0.10	0.01	5	<.001	"
22785	48.0	49.5	0.03	-	0.10	0.01	5	<.001	"
22786	49.5	51.0	0.05	-	0.10	0.01	5	<.001	"
22787	51.0	52.5	0.08	-	0.10	0.01	5	<.001	"
22788	52.5	54.0	0.08	-	0.10	0.01	5	<.001	"
22789	54.0	55.5	0.08	-	0.10	0.01	5	<.001	Guichon (Hybrid):
22790	55.5	57.0	0.07	-	0.10	0.01	5	<.001	"
22791	57.0	58.5	0.04	-	0.10	0.01	5	<.001	"
22792	58.5	60.0	0.03	-	0.10	0.01	5	<.001	Guichon:
22793	60.0	61.5	0.04	-	0.10	0.01	5	<.001	"
22794	61.5	63.0	0.04	-	0.10	0.01	5	<.001	"
22795	63.0	64.5	0.10	-	0.10	0.01	5	0.001	"
22796	64.5	66.0	0.16	-	0.10	0.01	5	0.001	"
22797	66.0	67.5	0.18	-	0.10	0.01	5	<.001	Guichon/Hybrid:
22798	67.5	69.0	0.11	-	0.10	0.01	5	<.001	"
22799	69.0	70.5	0.11	-	0.10	0.01	5	<.001	"
22800	70.5	72.0	0.08	-	0.10	0.01	5	<.001	"

DDH 25

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22801	72.0	73.5	0.07	-	0.10	0.01	5	<.001	Guichon:
22802	73.5	75.0	0.11	-	0.10	0.01	5	<.001	"
22803	75.0	76.5	0.08	-	0.10	0.01	5	<.001	"
22804	76.5	78.0	0.09	-	0.10	0.01	5	<.001	Guichon (Hybrid?):
22805	78.0	79.5	0.13	-	0.10	0.01	5	0.001	"
22806	79.5	81.0	0.11	-	0.10	0.01	5	<.001	"
22807	81.0	82.5	0.11	-	0.10	0.01	5	<.001	Guichon:
22808	82.5	84.0	0.07	-	0.10	0.01	5	<.001	"
22809	84.0	85.5	0.08	-	0.10	0.01	5	<.001	"
22810	85.5	87.0	0.12	-	0.10	0.01	5	<.001	"
22811	87.0	88.5	0.07	-	0.10	0.01	5	<.001	"
22812	88.5	90.0	0.10	-	0.10	0.01	5	0.003	Guichon (Hybrid?):
22813	90.0	91.5	0.26	-	0.10	0.01	5	0.001	"
22814	91.5	93.0	0.09	-	0.10	0.01	5	<.001	"
22815	93.0	94.5	0.11	-	0.10	0.01	5	0.001	"
22816	94.5	96.0	0.08	-	0.10	0.01	5	<.001	"
22817	96.0	97.5	0.10	-	0.10	0.01	5	<.001	"
22818	97.5	99.0	0.12	-	0.10	0.01	5	<.001	Hybrid:
22819	99.0	100.5	0.10	-	0.10	0.01	5	0.001	"
22820	100.5	102.0	0.09	-	0.10	0.01	5	<.001	Guichon Hybrid:
22821	102.0	103.5	0.12	-	0.10	0.01	5	<.001	"
22822	103.5	105.0	0.09	-	0.10	0.01	5	<.001	Bethlehem Porph:
22823	105.0	106.5	0.10	-	0.10	0.01	5	0.003	"
22824	106.5	108.0	0.07	-	0.10	0.01	5	<.001	"
22825	108.0	109.5	0.06	-	0.10	0.01	5	0.001	"
22826	109.5	111.0	0.05	-	0.10	0.01	5	0.001	"
22827	111.0	112.5	0.05	-	0.10	0.01	5	<.001	"
22828	112.5	114.0	0.04	-	0.10	0.01	5	0.002	"
22829	114.0	115.5	0.04	-	0.10	0.01	5	<.001	"
22830	115.5	117.0	0.08	-	0.10	0.01	5	<.001	Guichon Hybrid:
22831	117.0	118.5	0.08	-	0.10	0.01	5	<.001	"
22832	118.5	120.0	0.12	-	0.10	0.01	5	<.001	"
22833	120.0	121.5	0.06	-	0.10	0.01	5	<.001	"
22834	121.5	123.0	0.08	-	0.10	0.01	5	0.001	"
22835	123.0	124.5	0.05	-	0.10	0.01	5	<.001	"
22836	124.5	126.0	0.07	-	0.10	0.01	5	<.001	"
22837	126.0	127.5	0.05	-	0.10	0.01	5	<.001	"
22838	127.5	129.0	0.06	-	0.10	0.01	5	<.001	"
22839	129.0	130.5	0.16	-	0.10	0.01	5	<.001	"
22840	130.5	132.0	0.54	-	0.10	0.01	5	<.001	"
22841	132.0	133.5	0.29	-	0.10	0.01	5	0.026	"
22842	133.5	135.0	0.26	-	0.10	0.01	5	0.001	"
22843	135.0	136.5	0.29	-	0.10	0.01	5	0.003	"
22844	136.5	138.0	0.37	-	0.10	0.01	5	0.003	"
22845	138.0	139.5	0.11	-	0.10	0.01	5	0.008	"
22846	139.5	141.0	0.10	-	0.10	0.01	5	0.007	Guichon:
22847	141.0	142.5	0.13	-	0.10	0.01	5	0.008	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22848	142.5	144.0	0.07	-	0.10	0.01	5	<.001	Guichon:
22849	144.0	145.5	0.13	-	0.10	0.01	5	<.001	"
22850	145.5	147.0	0.09	-	0.10	0.01	5	0.002	Hybrid:
22851	147.0	148.5	0.07	-	0.10	0.01	5	0.001	Beth/Porph/Hyb?
22852	148.5	150.0	0.08	-	0.10	0.01	210	<.001	Hybrid?:
22853	150.0	151.5	0.08	-	0.10	0.01	5	0.001	"
22854	151.5	153.0	0.07	-	0.10	0.01	5	<.001	"
22855	153.0	154.5	0.09	-	0.10	0.01	5	<.001	"
22856	154.5	156.0	0.06	-	0.10	0.01	5	<.001	Bethlehem Porph:
22857	156.0	157.5	0.06	-	0.10	0.01	5	<.001	"
22858	157.5	159.0	0.04	-	0.10	0.01	5	<.001	"
22859	159.0	160.5	0.05	-	0.10	0.01	5	<.001	"
22860	160.5	162.0	0.08	-	0.10	0.01	5	<.001	"
22861	162.0	163.5	0.08	-	0.10	0.01	5	0.008	"
22862	163.5	165.0	0.04	-	0.10	0.01	5	<.001	"
22863	165.0	166.5	0.05	-	0.10	0.01	5	<.001	"
22864	166.5	168.0	0.05	-	0.10	0.01	5	0.001	"
22865	168.0	169.5	0.04	-	0.10	0.01	5	<.001	"
22866	169.5	171.0	0.08	-	0.10	0.01	5	<.001	Guichon:
22867	171.0	172.5	0.06	-	0.10	0.01	5	<.001	Guichon/Hybrid:
22868	172.5	174.0	0.08	-	0.10	0.01	5	<.001	"
22869	174.0	175.5	0.21	-	0.10	0.01	5	<.001	Hybrid:
22870	175.5	177.0	0.08	-	0.10	0.01	5	<.001	"
22871	177.0	178.5	0.05	-	0.10	0.003	5	<.001	"
22872	178.5	180.0	0.06	-	0.10	0.003	5	0.004	"
22873	180.0	181.5	0.07	-	0.10	0.003	5	0.001	"
22874	181.5	183.0	0.07	-	0.10	0.003	5	0.006	"
22875	183.0	184.5	0.12	-	0.10	0.003	5	<.001	"
22876	184.5	186.0	0.08	-	0.10	0.003	5	<.001	"
22877	186.0	187.5	0.05	-	0.10	0.003	5	<.001	"
22878	187.5	189.0	0.08	-	0.10	0.003	5	<.001	"
22879	189.0	190.5	0.12	-	0.10	0.003	5	<.001	"
22880	190.5	192.0	0.31	-	0.30	0.009	5	<.001	"
22881	192.0	193.5	0.21	-	0.10	0.003	5	0.006	"
22882	193.5	195.0	0.03	-	0.10	0.003	5	0.003	Porphyry dyke
22883	195.0	196.5	0.23	-	0.10	0.003	5	0.001	"
22884	196.5	198.0	0.5	-	0.10	0.003	5	0.001	Guichon (Hybrid?):
22885	198.0	199.5	0.57	-	0.30	0.009	5	0.001	"
22886	199.5	201.0	0.22	-	0.10	0.003	5	<.001	"
22887	201.0	202.5	0.19	-	0.10	0.003	5	0.001	"
22888	202.5	204.0	0.12	-	0.10	0.003	5	<.001	"
22889	204.0	205.5	0.07	-	0.10	0.003	5	0.001	"
22890	205.5	207.0	0.06	-	0.10	0.003	5	0.004	Guich (Hyb)/Porph:
22891	207.0	208.5	0.06	-	0.10	0.003	5	0.003	fault zone
22892	208.5	210.0	0.03	-	0.10	0.003	5	0.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH #	95-26	Date	30-Oct							Logged by	VN								
Elevation	1669.4 m	Azimuth	225							Northing:	5603940.6								
Inclination	-70	Length	350.5 m							Easting:	641854.1								
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	
0-6.1	overburden---casing															Guichon frags			
6.1-9.0	Guichon		mod/stng loc bkn	ser, (chl) tr carb											mod	Fresh Guichon, weak chrys on fracts, fine dusting of Mn-Cu spots (tenorite?) on most fracts.			
9.0-12.9	Porphyry D4	loc thin	stng/bkn, loc shatt	ser, (chl)		(v loc hem)	(grn Cu- stn ser) (jar) Mn-Cu spots + dends	(Fe)		ser (chl)	(chl) diss ep (ser)		(loc chrys)	(pyr) cpy	(pyr) (cpy)	tr/wk	Strongly resembles pink porphyry at 149.2 m in DDH 95-7. Weak hydrothermal on fracts, pervasive alteration probably deuteric. Weak chrys on fracts occasionally w/ pyr and (cpy). Fine grained to very fine grained diss cpy usually with mafics.** Scattered grey porphyry xenoliths. Hbde-fsp-porphyry, K-spar rich groundmass		
12.9-15.7	Porphyry D4		stng/bkn loc shatt	(ser) carb (chl)			Mn-Cu spots + dends, jar, grn Cu-stn ser.	Fe		(ser) carb	(chl) diss ep (ser)		(loc chrys) (NCu?)	tr pyr tr cpy	(pyr)	tr	Scattered grey porphyry xenoliths, usually rounded. Sharp decrease in primary mineralization. Bright orange oxide on fracts---NCu??***		
15.7-18.9	Porphyry D4		mod/stng, loc wk ckle/bkn	ser, chl, carb		(patchy hem/jar stn alb)	jar, hem Mn-Cu spots + dends		loc chl loc ser	ser chl carb	(chl) (diss ep) (ser)		(NCu)	tr pyr (cpy)		tr	Mn-Fe oxides on fracts mod H ₂ SO ₄ positive---green Cu-stn ser not noted. Scattered grey porphyry xenoliths as above. Loc fract controlled pervasive chl/ser alteration at bottom. Possible oxidized NCu on fracts.		
18.9-22.2	Porphyry D4	some slip	mod/stng, loc wk ckle/bkn	ser, chl, carb	wk irreg carb vnlt	loc hem stn alb	jar, Mn- Cu spots + dends		loc chl (loc ser)	chl ser carb	chl diss ep (ser)	tr NCu	(NCu)	tr cpy	(mo?)	tr	Very fine grained NCu with chl and ser** on fracts loc bright orange oxidized NCu on fracts. Scattered grey porphyry xenoliths. Dark green-black coating on fracts, frequently with NCu or oxidized NCu (usually dendritic)		
22.2-25.8	Porphyry D4		mod/stng, loc wk ckle/bkn	ser, chl, carb			jar (Mn- Cu spots)		loc chl (loc ser)	chl ser carb	chl diss ep (ser)	patchy (NCu)	(NCu)	(cpy)		tr	Scattered grey porphyry xenoliths. Dark green-black coating on fracts as above---does <u>not</u> appear to be chl. Patchy, oxidized NCu on fracts. <u>Check assays!!</u>		

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				
25.8-27.9	Porphyry wk Fault zone D4	loc 27.7- 27.9 m	stng/int, loc ckle/dis bx, loc crushed	ser, chlr, carb cly in gge		loc hem	jar (Mn- Cu spots)		loc chlr loc ser carb in gge + bx	chl ser carb cly in gge	chl (diss ep) (ser)	(NCu)	(NCu)	(cpy) (pyr)	(cpy) (pyr)	tr			Pervasive alteration increasing with depth. Weak diss NCu with mafics and loc in fract. Cpy and pyr diss with mafics.
27.9-28.9	Guichon (Hybrid?) loc wk foliated		mod/stng	ser, chlr, carb			(loc hem)		chl ser carb	ser chl carb	(loc diss ep)	(NCu)	(NCu)	(cpy) (pyr)	(cpy) (pyr)				Pervasive alteration decreasing with depth. NCu, cpy and pyr occur as above but are not evident until ~ 28.6 m, where strong pervasive alteration begins to decrease.
28.9-31.9	Guichon		mod/stng, loc shatt/crushed set at 40° C.A.	ser, chlr, carb	wk chl heal'd fract	loc hem stn alb	(hem)		(loc chl) alb (patchy ep)	ser chl carb (loc ep)	chl alb? (ep?)			patchy cpy (pyr)	(cpy) (pyr)	mod			Continued decrease in pervasive alteration.
31.9-36.3	Guichon, pink speckled		wk	ser, chlr, carb	wk carb vnits	(loc hem stn alb)	(loc hem)		loc alb (loc ep)	ser chl carb	chl (alb?)			patchy cpy (pyr)	pyr	mod			Competent Guichon, weak fract controlled hydrothermal alteration. Very fine grained, patchy, diss cpy associated with mafics. Blue green ser on fract and in weak alteration envelopes on fract with pyr.
36.3-40.4	Guichon		wk, sets at 40 + 50° C.A.	(ser) chl carb, (qtz)	wk: carb vnits, wk pyr vnits at ~ 10° C.A.	loc hem stn alb	hem stn carb		(loc alb)	(ser) chl carb	chl (alb?)			(patchy cpy) (pyr)	pyr tr cpy	mod/ stng			Competent Guichon, loc increase in pyr on fract and pyr vnits with strong bleached envelopes (mostly qtz/ser)
40.4-44.5	Guichon		wk/mod	(ser) chl carb, (qtz)	wk pyr vnits at 0- 10° C.A., wk carb vnits	loc hem stn alb	(hem stn carb)		patchy ep loc alb	(ser) chl carb (qtz) loc ep	chl alb (ep)			(patchy cpy) tr pyr	pyr tr cpy	mod/ stng			Fract controlled weak pervasive alteration, mainly alb/ep/chl.
44.5-48.6	Guichon pink speckled		wk	(ser), chl carb	wk pyr/chl healed fract at 0-10° C.A.	(loc hem stn alb)	(hem stn carb)		(patchy ep) loc alb	(ser) chl carb (ep?)	chl (alb) (ep?)			tr cpy tr pyr	pyr tr cpy	mod			Competent Guichon, very weak pervasive alteration and mineralization.
48.6-52.3	Guichon		mod, loc stng, sets at 0-5, 30 40 + 50° C.A.	ser, chlr, carb (qtz)	wk carb vnits, wk qtz/chl healed fract	(loc hem stn alb)	hem stn carb		loc alb	ser chl carb (qtz)	chl (alb)			tr cpy tr cpy	(pyr) tr cpy	mod/ stng			Composite qtz/alb vein, 3-4 cm, at bottom of interval, bkn/shatt.
52.3-56.3	Guichon Hyb wk fault zone	loc 52.3- 52.6 m	wk/mod, loc milled/crushed	ser, chlr, carb cly in gge	wk carb vnits w/ (cpy)*(pyr)	(loc hem stn alb)	(hem stn carb)		loc chl loc alb (loc ep)	ser chl carb cly in gge	chl (alb) (ep)			tr cpy tr cpy	(pyr) tr cpy	mod			Several partially assimilated mafic xenoliths. Weak fract controlled pervasive alteration, mainly alb/ep/chl. Loc strong pervasive chl extends ~ 10 cm below gge.

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.
56.3-60.1	Guichon (Hyb?) loc mafic rich	-	mod/stng, loc wk ckle	ser, chlr, carb	-	(loc hem stn alb)	-	patchy chl	ep ser	chl alb?	-	-	(pyr) (cpy)	loc cpy	mod/ stng	Pervasive alteration, especially alb/ep/chlr, and fract intensity increasing with depth. Loc very strong ep (as fracture filling) with cpy diss and as blebs.		
60.1-60.8	Guichon (Hyb?) crush zone	?	crushed/milled	-	qtz + carb vn frags	(hem)	-	alb ep chl qtz	ep (ser) chl	?	-	-	cpy pyr hem spht?	cpy pyr	stng	Crushed/milled qtz veins with Guichon fragments. Numerous ep fragments, strong ep/alb alteration in Guichon frags. Strong cpy in fragments (as blebs frequently with ep) and diss throughout crush zone. Possible sphalerite!! Check with ICP Numerous qtz vnls and fragments in Guichon--- suggests crushed stockwork.		
60.8-64.3	Guichon (Hyb?) loc mafic rich	some slip	wk/mod, loc ckle/wk dis bx	ser, chlr, carb (cly?)	wk carb vnls	loc hem stn alb	hem stn carb	patchy alb, ep loc chl	ser chl carb (cly?) loc ep	chl	-	-	tr pyr tr cpy	(pyr)	mod	Patchy pervasive alteration, mainly fract controlled		
64.3-68.2	Guichon (Hyb?) loc mafic rich	some slip	wk/mod, loc wk ckle	ser, carb, loc chl, (loc cly?)	wk chl healed frags	-	loc hem stn carb	patchy alb	ser carb	chl	-	-	tr pyr tr cpy	cpy pyr	mod	Scattered chloritic mafic clots, mod/strong magnetic. Strong ser on frags where ckle. some textural variation---loc quite fine grained-- xenoliths?		
68.2-71.7	Guichon Hyb loc mafic rich	some slip	mod/stng, loc ckle/wk dis bx	ser, carb, chl	num irreg carb vnls & f.f.	hem stn alb	loc hem stn carb	alb patchy ep loc chl loc ser	ser carb chl loc ep	-	-	-	(pyr) (cpy)	cpy pyr	mod	Several partially assimilated xenoliths. Generally mod/strong pervasive alb/ep/chlr alteration, fract controlled. Several chl/ep healed crush zones. Weak ep "vnls" with diffuse blue green ser/chlr margins, cpy in ep core.		
71.7-75.7	Guichon (Hyb?)	-	wk/mod loc ckle	ser, carb, chl	wk irreg carb vnls	loc hem stn alb	hem stn carb	patchy alb, ep (loc chl) loc ser	ser carb chl loc ep	chl (ep) (alb?)	-	-	tr cpy tr pyr	-	mod	Ep on frags, frequently with weak diffuse blue- green ser/chlr alteration envelopes. Pink porphyry dyke, bkn, 73.0 m, similar to porphyry at 87.3 m DDH 95-23.		
75.7-79.2	Guichon Hyb loc mafic rich	some slip	mod, loc stng/ ckle loc crushed	ser, chl, carb	wk irreg carb vnls	loc hem stn alb	loc hem stn carb	loc alb patchy ep (loc chl)	ser chl carb loc ep	chl (ep?)	-	-	tr cpy	cpy tr pyr loc hem loc spht?	mod/ stng	Alteration and fract intensity increasing with depth Phenos becoming weak ghost-like at bottom. Ep frequently with (cpy) on frags. Dark grey porphyry dyke, 77.5 m, with partial assimilation and impregnation of wallrock; strong alb/ep alteration associated with dyke. Loc strong ep/magnetite vnlt at top.		

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		
79.2-82.3	Guichon Hyb loc mafic rich	-	stng/int, loc ckle/crushed	ser, chlr, carb (cly?)	-	loc hem stn alb & ser	loc hem stn carb	-	loc alb loc ser loc chlr loc carb	ser chl carb (cly?)	-	-	-	tr cpy	-	mod/ stng	Phenos often weak ghost-like.
82.3-86.2	Porphyry Dyke grey-brown D4	-	ckle bx, bkn/shatt	ser, chlr, carb	-	loc hem stn alb	loc hem	-	diss ep (chl (loc carb) (loc alb)	ser chl ep carb	?	-	-	(pyr) tr cpy	(pyr) tr cpy	mod	Similar to grey-brown porphyry at 118.6 m DDH 95-23. Plag, and to a lesser extent, mafic phenos appear preferentially epidotized. Hbde-fsp-porphyry: same as 9.0-27.9 m, but groundmass is grey, saussuritized.
86.2-87.9	Porphyry Dyke grey-brown D4	loc 87.8 m ~ 40° C.A.	stng/bkn loc ckle	ser, chlr, carb cly in gge	wk irreg carb vnits + f.f.	loc hem stn alb + ser	loc hem stn carb	-	(diss ep) (chl (loc carb) (loc ser) (alb)	ser chl carb cly in gge (loc ep)	?	-	-	pyr tr cpy	pyr (cpy)	wk	Similar to previous interval with less abundant epidote. Pervasive alteration mainly fract controlled.
87.9-89.8	Guichon Hyb loc mafic rich	loc thin	stng/bkn loc shatt	ser, carb, chl (loc cly)	wk carb vnits	loc hem stn alb + ser	-	-	loc alb patchy ep (loc ser) (chl)	ser carb chl (loc cly)	?	-	-	(pyr) (cpy)	(pyr) tr cpy	wk	Pyr>cpy. Pervasive alteration mainly fract controlled.
89.8-94.0	Guichon Hyb loc mafic rich	loc thin, 90.0 m	wk/mod	chl, carb (ser)	wk qtz/carb vnits	loc hem stn alb	hem stn carb	-	patchy ep loc alb (loc chl) (loc ser)	chl carb ser loc ep	chl alb (ep?)	-	-	tr pyr tr cpy	(pyr) tr cpy	wk	Pyr>cpy. Diffuse ep in alteration envelopes on fract and several large partially assimilated xenoliths.
94.0-98.0	Guichon Hyb loc mafic rich	-	wk	chl, carb (ser) (qtz)	wk qtz/ carb vnits	-	-	-	loc ep loc alb	chl carb (ser) loc ep (qtz)	chl (alb) (ep?)	-	-	(pyr) tr cpy	pyr	wk	Partially assimilated xenoliths—appear porphyritic crowded. Fract controlled pervasive alteration especially ep/alb alteration around fract. Pyr>cpy. Loc strong ep/chl healed fract.
98.0-102.2	Guichon Hyb loc mafic rich	-	wk/mod	chl, carb (ser), (qtz)	wk qtz/chl/ ep healed fracts	-	-	-	(loc ep) (loc alb) (loc ser)	chl carb (ser) (qtz) loc ep	chl (alb) (ep?)	-	-	(pyr) (cpy)	wk/ mod	Several large partially assimilated mafic xenoliths. Alteration is fract controlled. Weak blue green ser on fract and in weak 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
102.2-106.2	Guichon (Hyb?) loc mafic rich		mod	(carb) (ser) (chlr)	wk chl/ep heal'd fracts wk pyr/qtz vnlt	loc hem stn alb + ser	(loc hem)		loc alb (carb) (ser) (chlr) (ep?) loc ep	chlr (alb)			tr cpy tr pyr	wk		Loc strong ser/carb alteration with strong alb/ep envelope. Scattered chloritic mafic clots to 1.0 cm Weak qtz/chlr alteration envelopes on pyr vnlt.		
106.2-110.4	Guichon Hyb loc mafic rich		mod	carb, chlr (ser) (qtz)	wk chl/ carb healed fracts				loc alb patchy ep (qtz) ep	carb chlr (alb) (ep?) (ser) (ep?) (qtz) ep			tr pyr (pyr) tr cpy	wk/ mod		Alb/ep alteration envelopes on fracts, frequently with weak blue-green ser in envelopes and on fract. Grey porphyry dykes 107.9-108.2 m.		
110.4-114.1	Guichon Hyb loc mafic rich	loc 112.9 m ~ 3 cm	mod/stng	chlr, carb (ser)	wk carb vnlt	loc hem stn alb + ser	(loc hem)		ep loc alb (loc chlr) (loc ser)	chlr carb (alb) (ep?) ep			(pyr) (cpy) tr cpy	wk/ mod		Grey porphyry dyke 110.5-110.9 m, similar to grey porphyry above. Grey-brown porphyry dyke 113.2-113.7 m, similar to porphyry seen above at 82.3 m		
114.1-118.3	Guichon Hyb loc mafic rich		wk/mod	carb, ser, chlr	wk chl/ep heal'd fracts wk carb vnlt + microvns	(loc hem stn alb)			patchy ep loc alb (loc chlr)	carb ser chlr (ep)			pyr tr cpy	wk/ mod		Pyr>>cpy. Fract controlled weak pervasive alteration.		
118.3-122.8	Guichon Hyb loc mafic rich		wk	carb chlr, (ser) (qtz)	wk carb vnlt				(ptchy alb) (ep) (loc ser)	carb chlr (ser) (qtz)			tr cpy tr pyr	mod		Weak blue green ser alteration envelopes on pyr mineralized fracts. Pervasive alteration as in previous interval.		
122.8-126.9	Guichon Hyb loc mafic rich		wk	(ser), chlr carb	wk carb vnlt				(loc alb)	(ser) chlr carb			(pyr)	mod		Weak chl/ser/alb alteration envelopes on pyr mineralized fracts. Mafic concentration increasing		
126.9-131.3	Guichon Hyb mafic rich		mod loc stng/shatt	(ser) (chlr) (carb)	wk carb vnlt				(patchy alb) (patchy ep)	(ser) (chlr) (carb) loc ep			tr pyr	mod/ stng		Generally quite fine grained and mafic rich. Several partially assimilated mafic xenoliths. Pink porphyry dyke 127.9-128.3 m, broken, (may have been Bx-fragments rounded by drill bit.) Porphyry is similar to that at 149.2 m in DDH 95-7.		
131.3-135.4	Guichon Hyb mafic rich		wk, loc mod	ser, chlr, carb	wk ep/carb vnlt w/pyr + (cpy)				patchy ep patchy alb v loc chlr	loc ep (ser) chlr carb			tr cpy loc pyr (loc cpy)	mod		Sharp increase in fract controlled pervasive ep/alb/chlr alteration, loc quite strong.		

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.
135.4-139.7	Guichon Hyb mafic rich		wk	(loc ser) chlr carb	wk/mod chlrcarb/ep heal'd fracts w/pyr				patchy ep_alb	loc ep (loc ser) chlrcarb	(chlrcarb) (alb) (ep?)			(loc cpy) (loc pyr)	loc pyr tr cpy	mod	Continued loc strong fracts controlled pervasive alteration as in previous interval. Weak diss cpy in diffuse propylitic alteration envelopes on fracts; none noted outside the envelopes.	
139.7-143.6	Guichon (Hyb?)		wk, loc wk ckle	(ser), chlrcarb	wk chlrcarb/ep heal'd fracts w/pyr				patchy alb_ep (loc chlrcarb)	(ser) chlrcarb loc ep	(chlrcarb) (alb)			(loc pyr) tr cpy	loc pyr	mod	Fract controlled alteration decreasing with depth. Some textural variation; loc fine grained and mafic rich	
143.6-147.8	Guichon Hyb	loc 146.9 m, 3-4 cm at 30° C.A.	wk/mod	ser, chlrcarb cly in gge					(patchy alb) loc ep (loc chlrcarb)	(ser) chlrcarb cly in gge	(chlrcarb) (alb)			tr pyr (loc pyr)	loc pyr	mod	Similar to previous interval.	
147.8-151.9	Guichon Hyb loc mafic rich		wk	(ser), chlrcarb		(loc hem stn alb)			loc alb patchy ep (loc chlrcarb)	(ser) chlrcarb loc ep	chlrcarb alb (ep)			tr pyr tr cpy	(loc cpy)	mod	Guichon Hybrid, weak/mod foliated. Loc strong ep/chlrcarb/magnetite (as veinlets and fracture filling) with weak cpy.	
151.9-156.0	Guichon Hyb mafic rich	loc 154.8 m ~ 5 cm, 20° C.A.	mod/stng	(ser) chlrcarb	wk qtz vnlt at 40° C.A. w/ (mo)				loc chlrcarb loc alb patchy ep	(ser) chlrcarb loc ep	chlrcarb (alb) (ep)			loc pyr tr cpy	(loc cpy) tr pyr	mod	Weak qtz vnlt with (mo) on margins and in core. Loc strong ep fracture filling with (cpy). Weak to mod foliated.	
156.0-160.2	Guichon Hyb mafic rich		weak	(ser), chlrcarb		(loc hem stn alb)			(loc chlrcarb) loc alb (patchy ep)	(ser) chlrcarb loc ep	(chlrcarb) (alb)			(pyr) tr cpy	mod	Guichon Hybrid; mod/strong foliated; with scattered chloritic mafic clots to ~3 cm.		
160.2-164.1	Guichon Hyb mafic rich		wk/mod	(ser) chlrcarb	wk ep vnlt	(loc hem stn alb)			loc alb (patchy ep)	loc ep (ser) chlrcarb	(chlrcarb) (alb)			tr cpy tr cpy	mod	Guichon Hybrid, mod/strong foliated. Alteration envelopes on fracts are usually diffuse alb (with weak hem stain) and weak diss ep/ser.		
164.1-168.5	Guichon Hyb mafic rich		weak/mod	(ser), chlrcarb					loc alb (patchy ep)	(loc ep) (ser) chlrcarb	(chlrcarb)			tr pyr tr cpy	(pyr) tr cpy	mod	Loc mod/strong foliated; foliation appears to be at ~ 70-80° C.A.. Scattered mafic xenoliths to ~ 4 cm probably Nicola?---stain for K-spar.	
168.5-172.3	Guichon Hyb mafic rich		wk/mod, sets at 40 + 50° C.A.	(ser) chlrcarb					(loc alb)	(loc ep) (ser) chlrcarb	(chlrcarb)			tr cpy tr bo tr pyr	tr pyr	mod	Slight increase in intensity of altn in envelopes and on fracts. Several scattered blebs of bornite with pyr + (cpy) in mafics.	

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)																			
172.3-176.3	Guichon Hyb	loc thin 174.8 m	wk/mod, loc stng	(ser) carb loc chl	wk irreg carb vnits	-	(hem stn carb + ser)	-	loc alb (loc ep)		(chl)	-	-	tr pyr	pyr tr cpy	mod	Very fine grained pyr and tr cpy dissf. Pink porphyry dyke 173.4 m, > 10 cm, bkn, suspect dyke may have been brecciated, some core lost between 173.4-174.3 m. Similar to porphyry at 149.2 m DDH 95-7.		
176.3-180.4	Guichon Hyb loc mafic rich	-	wk, set at 70° C.A.	(ser) (chl) carb	wk carb vnits	-	loc hem stn carb + ser	-	(loc alb)	(ser) (chl) carb (loc ep)	(chl)	-	-	-	(pyr)	mod	Weak/mod foliated ~ 70° C.A.. Partially assimilated mafic xenolith, scattered chloritic mafic clots < 1.0 cm		
180.4-184.6	Guichon Hyb loc mafic rich	-	wk/mod loc stng	chl, ser, loc carb	wk qtz/carb vnits, wk/ mod chl heal'd fracts	-	loc hem stn carb	-	loc alb loc ep	loc ep ser chl carb	(chl)	-	-	-	(pyr)	mod	Several partially assimilated xenoliths—more complete than that in previous interval. Sil/carb healed Bx/crush zone ~ 2 cm. Increasing alteration intensity in alteration envelopes—mainly alb/ep with weak chl and ser		
184.6-188.7	Guichon Hyb loc mafic rich patchy perv altn	-	mod/stng sets at 40, ~10 + 60° C.A.	ser, chl, carb	wk irreg carb vnits	(loc hem stn alb)	-	-	loc alb (loc ep)	(ser) chl carb (loc ep)	(chl)	-	-	tr pyr tr cpy	loc pyr	mod	Strong chl with pyr on 10° C.A. healed fracts. Foliation somewhat less developed.		
188.7-191.7	Guichon Hyb loc mafic rich patchy perv altn	loc 190.7 m, 2 cm	mod/stng, loc bkn/shatt	ser, chl, carb (cly in gge)	wk irreg carb vnits	loc hem stn alb	-	-	loc alb (patchy ep) (loc chl)	ser chl carb (loc ep)	(chl)	-	-	tr cpy tr pyr	(pyr) tr cpy	wk/ mod	Alteration intensity on fracts and fract controlled pervasive alteration stronger than previous interval. Scattered partially assimilated mafic xenoliths		
191.7-195.9	Guichon Hyb patchy perv altn	loc 191.7 m	mod sets at 20, 30, 60, and 70° C.A.	(ser) chl, carb (cly in gge)	wk irreg carb vnits	(loc hem stn alb)	-	-	loc alb patchy ep (loc chl)	(ser) chl carb (cly in gge) (loc ep)	(chl)	-	-	tr pyr	(pyr)	mod	Patchy weak/mod foliation. Several chl/qtz/ep? healed crush zones.		
195.9-200.1	Guichon Hyb loc mafic rich	-	wk	(ser) chl carb	wk irreg carb vnits	loc hem stn alb	-	-	loc alb patchy ep (loc chl)	(ser) chl carb (loc ep)	(chl) (alb)	-	-	tr pyr	(pyr)	mod	Scattered small partially assimilated mafic xenoliths Weak to mod foliated.		
200.1-204.4	Guichon Hyb loc mafic rich	-	wk/mod, sets at 30, 40, 50, + 60° C.A.	(ser) chl, carb, (qtz)	wk carb vnits, num chl healed fracts	loc hem stn alb	-	-	loc alb loc ep (loc chl) (loc ser)	loc ep (ser) chl carb (qtz)	(chl) (alb)	-	-	-	(pyr)	mod	Weak foliation. Scattered chloritic mafic clots < 1.0 cm.		

interval (m)	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
204.4-208.7	Guichon Hyb loc mafic rich	loc thin 205.8 m	wk/mod sets at 40, 50, 70° C.A.	(ser) chlr carb	wk carb vnltls, num chlrl healed fracts	(loc hem stn alb)	-	-	loc chlrl loc alb (loc ep)	(loc ep) (ser) chlrl carb	(chlrl) (alb?)	-	-	-	(pyr)	wk/ mod	Bleached, alb/ep alteration envelopes, mainly on chlrl healed fracts at 40° C.A. Blue green ser on fracts and with ep in diffuse weak alteration envelopes.	
208.7-212.8	Guichon Hyb	some slip at ~ 20° C.A.	mod/stng	ser, chlrl, carb	num chlrl heal'd fracts w/ (pyr)	loc hem stn alb + ser	hem stn carb + ser	-	loc alb (loc chlrl) (ptchy ep)	(loc ep) (chlrl) ser carb	(chlrl) (alb?)	-	-	-	pyr	wk/ mod	Loc strong albitization, phenos slightly ghost-like Weak foliated.	
212.8-216.6	Guichon Hyb	some slip	wk/mod, loc wk ckle, sets at 40 + 50° C.A.	(ser) chlrl (carb)	num chlrl/ep heal'd fracts w/(pyr)	loc hem stn alb	(hem stn carb)	-	loc alb loc chlrl (patchy ep)	loc ep (ser) chlrl (carb)	(chlrl)	-	-	-	pyr	mod	Similar to previous interval.	
216.6-220.6	Guichon Hyb loc mafic rich	loc thin 217.4 m, at 50° C.A.	wk/mod, sets at 5, 30, 40, + 60° C.A.	ser, chlrl, carb (cly in gge)	wk qtz vnltls wk irreg carb vnltls	loc hem stn ser	loc hem stn ser	-	loc chlrl loc ser (patchy alb) (loc ep)	ser chlrl carb (cly in gge) (loc ep)	chlrl	-	-	-	loc pyr	mod	Weak/mod foliation. Overall decrease in pervasive alteration intensity.	
220.6-224.7	Guichon Hyb loc mafic rich	loc thin 222.3 m, ~ 40° C.A.	wk/mod, loc stng/ckle	(ser) chlrl carb	num chlrl heal'd fracts	loc hem stn alb	-	-	loc alb (patchy ep) (loc chlrl)	(ser) chlrl carb loc ep	chlrl alb	-	-	tr cpy tr pyr	pyr tr cpy	mod	Weak to mod foliation at ~ 60° C.A. Several partially assimilated xenoliths. Aplitic dykelets (2.0 cm and > 6.0 cm) with fresh, black biotite speckling; weak diss cpy in aplitic, none noted in wallrock.	
224.7-228.8	Guichon (Hyb?)	some slip	mod/stng loc wk ckle	ser, chlrl carb	num chlrl heal'd fracts	-	-	-	alb patchy ep (loc chlrl)	ser chlrl carb loc ep	chlrl alb (ep?)	-	-	(cpy) tr pyr	pyr	mod/ stng	Weak foliated. Good example of partial melting and recrystallization 227.3 m. Aplitic dykelets, 1- 10 cm 30-40° (1 at 90° C.A.) similar to aplites in previous interval. Occasional Guichon xenoliths in dykelets.	
228.8-232.9	Guichon Hyb	-	wk/mod, loc int/crushed	ser, chlrl, carb	loc abd carb vnltls (irreg)	hem stn alb + ser	loc hem stn ser + carb	-	loc chlrl loc ser loc carb patchy ep	ser chlrl carb loc ep	(chlrl)	-	-	(loc cpy) (loc pyr) tr bo	(loc cpy) (loc pyr)	loc mod	Pervasive alteration intensity increases rapidly with depth; strong chlrl/ser at bottom. Bottom 2 m intensely altered and fractured. Possible healed bx/crush zone, with abundant carb vnltls and void filling. Aplitic dykelet, 4 cm, at 30° C.A.	
232.9-234.1	Guichon Hyb wk fault zone	loc thin 234.1 m ~ 20° C.A.	int/crushed	ser, chlrl, carb cly in gge	mod irreg carb vnltls + void filling	-	loc hem stn carb	-	ser chlrl carb	ser chlrl carb cly in gge	-	-	-	pyr (cpy)	pyr (cpy)	-	Possible healed bx/crush zone. Quite bleached; strongly sericitized and chloritized.	

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			
234.1-236.9	Guichon Hyb mafic rich	loc thin 236.4 m suspect some lost	mod/stng	ser, chlr (carb)	wk aplite dykelets	-	-	-	bio? (chlr) (ser) alb?	ser chl (carb)	-	-	-	(pyr) (cpy)	(pyr) (cpy)	mod/ stng		Alteration is markedly different from previous interval. Abundant fresh hornblende and plagioclase with interstitial ser. Thin section required. Shows weak foliation. Pink porphyry fragments (rounded may be from uphole) 236.0 m.
236.9-240.8	Guichon/Hyb w/Porphyry dykes	-	stng/ckle, loc crushed	ser, chlr (carb)	wk/mod irreg carb vnits	hem stn alb	-	-	bio? alb? (chl)	ser (carb) chl	-	-	-	(pyr) (cpy)	(pyr) (cpy)	tr/wk		Numerous apite dykelets--some are discontinuous with diffuse melted and recrystallized terminations. Several episodes of porphyry intrusion evident with partial melting and assimilation of previous phases. Foliation visible in Guichon, possible pre-Bethlehem shearing?? Guichon ends at 238.0 m, various porphyry phases to 240.6 m.
240.8-244.1	Porphyry (Bethlehem?) loc mafic rich Fp1?	-	stng/bkn, loc wk ckle, loc crushed	(ser) chl (carb)	wk irreg carb vnits	(hem stn alb)	-	-	alb? (loc ser) (patchy ep)	(ser) (carb) chl	-	(hem)	-	tr pyr (cpy)	(loc pyr) (loc cpy)	wk/ mod		Patchy variations in texture and possibly composition, loc biotite enrichment. Appears similar to DDH 95-5, 183.0 m. Probably partial assimilation of Guichon in porphyry. Gradational contact. Mineralogy similar to porphyries above, but coarser grained
244.1-248.2	Porphyry (Bethlehem?) Fp1?	-	mod/stng	carb, (ser) loc chl	wk aplite dykelets, wk/mod Qtz vnits w/cpy + chalc	hem?	-	-	alb (patchy ep)	carb (ser) loc chl	-	-	-	tr pyr (cpy) tr chalc	loc mo pyr cpy chalc	mod/ stng		Several partially assimilated xenoliths. Loc weak foliation. Slight variation in texture and mafic distribution. Chalc (peacock tarnished) with cpy in Qtz vnits and weakly diss. Stain for K-sp!!
248.2-253.0	Porphyry (Bethlehem?) Fp1?	-	wk/mod loc wk ckle	(ser) (carb) loc chl	wk aplite dykelets	loc hem	-	-	loc ser K-sp? alb? (loc chl)	(ser) (carb) loc chl	?	-	-	tr pyr	-	wk/ mod		Possible contact at 248.2 m with strong alb. Several bent, discontinuous and broken apite dykelets at top of interval. Loc strong biotite. Loc weak foliation. Thin section required. Stain for K-spar: Strong
253.0-255.6	Porphyry	some slip	wk/loc mod	(ser), loc chl (carb)	few carb vnits irreg w/hem stn	loc hem	hem	-	ser altn feldsp & maf-	(ser) (carb) loc chl	-	-	-	? v fg blk maf	(tr cpy)	wk/ ptchy mod		Contact between Porphyry/Bethlehem and fine pink porphyry. Brecciated apite at contact brecciated healed by fine pink porphyry. Chlorite gets stronger in fract at bottom of interval.
255.6-259.7	Porphyry	some slip	mod	(carb), chl ser	wk irreg carb	-	-	-	wk loc- alb patchy- K-sp ser chl	(carb) chl ser	-	-	-	tr cpy	tr cpy (pyr) (tr mo?)	-		DECREASE IN INTENSITY OF ALTERATION. Pink and green mottled, more fracture controlled K-spar Increase in chlorite alteration.
259.7-263.5	Porphyry	at 262.8 m ~ 2 cm	wk/mod gen healed	chl, ser, (serp)	wk irreg carb	patchy hem in gge	-	-	chl (ser)	chl ser (serp)	-	patchy hem in gge	-	tr cpy	tr cpy	-		Mottled K-spar and chl rich patches. Mafics chloritic. Alteration overall weak. Apite dykelets.

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.				
263.5-267.4	Porphyry	-	wk	chl, ser, carb	carb gash w/hem & cpy	loc hem	-	-	(chl)	carb	-	-	-	tr cpy	tr cpy hem	-	-	-	Fresh biotite, decrease in chloritic alteration.
267.4-271.3	Porphyry	narrow loc	wk	chl, ser, carb	carb irreg	patchy hem	-	-	chl	chl	-	-	-	tr cpy	(pyr) tr cpy	-	-	-	Weak to moderate overall alteration.
271.3-275.1	Porphyry	loc 274.5 m & some slip	wk, loc mod loc wk ckle	ser, chl, carb (loc serp)	wk irreg carb vnits wk qtz vnits	loc hem	-	-	chl	chl	-	-	-	tr cpy tr pyr	(pyr)	-	-	-	Alteration increasing, especially chl. Loc healed crush/ckle zones 273.1-275.1 m--healed with alb or sil?--thin section required. Crushed sulph- ides on slip surfaces.
275.1-279.5	Porphyry	some slip	mod	chl, ser, carb loc serp	wk irreg carb vnits w/(cpy), wk qtz vnits	(patchy hem)	-	-	patchy- chl	chl ser carb (loc serp)	-	-	-	tr cpy tr pyr	(pyr) tr cpy	-	-	-	Slight increase in pervasive carb. Pervasive chl/ ser slightly weaker than previous interval. Poss- ible K-spar alteration envelopes on fractures. Loc alb/qtz healed crush zone.
279.5-283.0	Porphyry	loc 2 cm 281.4 m, & some slip	mod/stng, loc bkn	(chl), (ser) carb, qtz	wk qtz + carb vnits	(patchy hem)	-	-	patchy chl	(chl) (ser) carb qtz loc sil	-	-	-	(pyr) tr cpy	(pyr) tr cpy	-	-	-	Patchy alteration, mainly fracture controlled. Loc quite bleached and qtz-rich (280.4-281.5 m) to mottled K-spar/chl alteration.
283.0-286.7	Porphyry	loc 285.2- 285.5 m	stng/bkn, loc crushed	cl in gge, qtz (ser), (carb) (loc chl)	qtz vnits & frags w/ pyr	-	-	-	qtz ser (chl) (loc carb)	qtz (ser) (carb) chl cl in gge	-	-	-	pyr tr cpy	pyr tr cpy	-	-	-	Very qtz-rich with weak/moderate patchy chl/ser, and K-spar. Quartz flooding. Fine grained to very fine grained dissyp pyr.
286.7-290.9	Porphyry	-	wk	ser, carb (chl) qtz	wk qtz & carb vnits	loc hem stn alb	-	-	qtz ser chl (carb)	ser carb (chl) qtz	-	-	-	(pyr) tr cpy	pyr	-	-	-	Comp. silicic, though less bleached and more chloritic than previous interval. Discrete replace- ment of plag and mafics by chl/ser. Where least altered, still retains texture and colour of porphyry above 248.0 m.
290.9-295.0	Porphyry	loc 293.3 m	wk/mod loc shatt	ser, (chl) carb, qtz, (loc serp)	wk qtz & carb vnits w/pyr & (cpy)	loc hem stn ser & alb	-	-	ser qtz (chl) (carb)	ser (chl) carb qtz (loc serp)	-	-	-	pyr patchy cpy	pyr (cpy)	-	-	-	Increase qtz/ser alteration. Fine grained dissyp pyr and patchy cpy, loc mod/strong.

ROCK TYPE		STRUCTURE			VEINING		STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)		FAULT GOUGE	FRACTURE INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
295.0-299.2	Porphyry	loc 297.8 m ~ 20 cm, 298.9 m ~ 10 cm	wk, loc crushed/milled	(loc serp), ser (chlr), carb (cly in gge)	mod qtz & carb vns & vnits some bkn	loc hem stn ser & carb	-	-	qtz ser patchy chlr carb cly in gge	ser (chlr) carb (loc serp) (cly in gge)	-	-	-	pyr patchy cpy	pyr (cpy)	-	-	Intense fractured/crushed and milled 297.0-299.2 m, carb/sil healed (locally) with numerous qtz veins and frags (some with pyr and cpy), often bx. Mottled by chlr and hem stain ser and carb. Aplite dyke ~ 10 cm. Sil healed crush zone with very strong sulphides.
299.2-302.8	Porphyry	loc 299.5 m	mod/stng, loc bkn, loc crushed/milled	ser, chlr, carb cly in gge	wk carb vnits & void fillings	loc hem stn ser & carb	-	-	carb ser chlr qtz	ser chlr carb cly in gge	-	-	(pyr)	(pyr)	-	-	Aplite dykelet ~ 2 cm. Alteration and fracture intensity continues as in previous interval to 299.9 meters. Abrupt increase in pervasive chlr, decrease in overall intensity of alteration. Sharp decrease in primary mineralization. Patchy fresh black biotite.	
302.8-306.7	Porphyry	loc 304.0 m ~ 10 cm	wk, loc stng/ bkn	ser, chlr, carb cly in gge (loc serp)	wk/mod qtz & carb vnits carb void filling w/ (cpy)	loc hem stn alb	hem stn carb	-	chlr carb ser loc qtz loc alb?	ser chlr carb cly in gge (loc serp)	-	-	(pyr) tr cpy	(pyr)	-	-	Continues as end of previous interval. Patchy fresh black biotite. Carb vnits and void filling usually contain diss hem.	
306.7-310.9	Porphyry	loc thin 306.8 m	wk, loc mod	(ser) (chlr) carb	wk irreg carb vnits	loc hem stn alb	loc hem stn ser	-	loc alb patchy chlr carb	(ser) (chlr) carb (loc cly)	-	-	tr cpy tr pyr	(pyr)	tr/wk	-	Chlr/ser alteration decreasing with depth, albitization (with patchy fresh, black biotite) increasing.	
310.9-314.8	Porphyry w/ Guichon	loc thin	wk/mod loc wk ckle (loc cly)	ser, loc chlr carb	wk irreg carb vnits qtz vnits w/pyr & cpy blebs	loc hem stn alb & ser	-	-	(loc ep) loc chlr loc alb loc ser loc carb	ser carb loc chlr	-	-	(pyr) tr cpy	pyr (cpy)	wk	-	Probable recrystallized Guichon 312.5-314.8 m with gradational contacts. Loc weak feldspar alignment in Guichon. Similar texture as at 309.1 m, DDH 95-18. Hydrothermal alteration much stronger at top and bottom of interval.	
314.8-318.6	Guichon	loc 314.8- 315.0 m	wk/mod loc crushed	loc serp, ser loc chlr, carb cly in gge	wk irreg carb vnits w/pyr + (cpy), wk qtz vnits w/ pyr + cpy 40° C.A.	loc hem stn alb	loc hem	-	patchy chlr Patchy ser loc alb carb	loc serp ser loc chlr carb cly in gge	-	-	pyr (cpy)	pyr (cpy)	loc wk	-	Guichon, texture suggests possible recrystallization; possible incursions of porphyry. Aplite dykelet ~ 3 cm, 40° C.A.	
318.6-322.9	Guichon w/ Porphyry?	loc thin 320.3 m 20° C.A.	mod, loc stng/ wk ckle	chlr, ser, carb cly in gge	wk carb w/ hem, wk qtz vnits w/cpy & hem stn	loc hem stn alb	loc hem stn ser & carb	-	patchy ep loc alb patchy chlr loc ser	chlr ser carb cly in gge loc ep	-	-	pyr (cpy)	pyr (cpy)	loc wk	-	Guichon with possible incursions of porphyry. Chlr/ser pervasive alteration intensity significantly decreased.	

interval (m)	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
322.9-326.1	Guichon w/ Porphyry		bkn/shatt loc wk	(chl) (ser) carb, (loc cly)	wk/mod qtz/chl heal'd fracts w/pyr & (cpy)	(loc hem stn alb)			loc alb patchy chl (patchy ep) (carb)	(ser) (chl) carb (loc cly) (loc ep)			(pyr) (cpy)	pyr (cpy)	wk/ mod	Guichon with possible gradational incursions of porphyry. Loc chl with crushed sulphides on fractures. Loc weak foliation, especially feldspar alignment. Stain for K-spar.		
326.1-330.3	Guichon	loc 327.7- 328.0 m	wk, loc stng/bkn	ser, chl, carb cly in gge	wk qtz & carb vnlt w/hem, (pyr)+(cpy)	loc hem in gge loc hem stn alb	loc hem stn ser & carb		patchy alb patchy chl (loc ser)	ser chl carb cly in gge			(pyr) (cpy)	pyr (cpy)	wk/ mod	Weak/mod pervasive chl/alb alteration at top, mod/strong near gouge, grading with depth to comp Guichon, weak foliated. Strong hem in gge.		
330.3-334.2	Guichon wk Fault zone	loc 330.8 m 332.7 m	mod/stng loc bkn/ crushed	ser, chl, cly in gge, carb	wk qtz & carb vnlt vuggy	loc hem stn alb	hem stn ser & carb		patchy alb (patchy ep) loc chl (loc ser)	loc ep ser chl carb cly in gge	(chl)		tr cpy tr pyr	(pyr) (cpy)	wk	Overall weak/moderate pervasive alteration. Strong hem on most fracts.		
334.2-338.3	Guichon		wk	ser, chl, carb	wk carb microvns		wk hem stn carb		loc alb (patchy ep)	loc ep ser chl carb	(chl)		tr pyr		mod	Comp Guichon, some variation in grain size. Porphyritic grey xenolith, shows little evidence of assimilation.		
338.3-342.3	Guichon	some slip 0-5° C.A.	wk, loc wk ckle, sets at 40, 50, 60° C.A.	ser, chl carb (qtz)	wk carb vnlt, vuggy		(loc hem stn qtz & carb)		loc alb (patchy ep) loc ser	loc ep ser chl carb (qtz)			tr pyr	tr pyr	mod	Comp Guichon, loc weak foliation, some variation in grain size.		
342.3-346.3	Guichon		wk, loc stng/ bkn	ser, chl, carb (qtz)	wk qtz/chl/ ep healed fracts		loc hem stn ser		patchy alb (loc chl) (loc ep)	ser chl carb (qtz) (loc ep)	(chl) (ep)			(pyr)	mod	Comp Guichon, weak foliation, phenos loc ghost-like.		
346.3-350.5	Guichon		wk/mod, loc wk ckle, bx/ bkn, some open spaces	ser, carb loc chl	wk carb vnlt, wk/ mod chl/ carb/ep heal'd fracts	(loc hem stn alb)	(loc hem stn ser & carb)		alb loc chl patchy ep	ser carb loc chl loc ep	(chl) (alb?) (ep)		tr pyr tr cpy	(pyr)	mod	Fracture controlled propylitic alteration intensity increasing—mainly alb/ep with loc pervasive chl. Trace cpy occurs with mafics.		
EOH 350.5 m																		

DDH 26

Northing: 5603940.6			DDH 95-26					Azimuth: 225	
Easting: 641854.1			Elevation: 1669.4					Inclination: -70	
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
22893	6.1	7.6	<.01	<.01	-	-	-	-	Guichon
22894	7.6	9.1	0.02	0.01	-	-	-	-	"
22895	9.1	10.6	0.02	0.01	-	-	-	-	Porphyry:
22896	10.6	12.1	0.05	0.04	-	-	-	-	"
22897	12.1	13.6	0.07	0.05	-	-	-	-	"
22898	13.6	15.1	0.04	0.03	-	-	-	-	"
22899	15.1	16.6	0.05	0.04	-	-	-	-	"
22900	16.6	18.1	0.05	0.04	-	-	-	-	"
22901	18.1	19.6	0.05	0.04	-	-	-	-	"
22902	19.6	21.1	0.05	0.04	-	-	-	-	"
22903	21.1	22.6	0.05	0.02	-	-	-	-	"
22904	22.6	24.1	0.07	0.02	-	-	-	-	"
22905	24.1	25.6	0.06	0.02	-	-	-	-	"
22906	25.6	27.1	0.03	-	0.1	0.003	5	<.001	wk fault zone
22907	27.1	28.6	0.04	-	0.1	0.003	5	<.001	Guichon (Hybrid?):
22908	28.6	30.1	0.04	-	0.2	0.006	5	<.001	Guichon:
22909	30.1	31.6	0.12	-	0.1	0.003	5	<.001	"
22910	31.6	33.1	0.05	-	0.1	0.003	5	<.001	"
22911	33.1	34.6	0.08	-	0.1	0.003	5	<.001	"
22912	34.6	36.1	0.03	-	0.1	0.003	5	<.001	"
22913	36.1	37.6	0.04	-	0.2	0.003	5	<.001	"
22914	37.6	39.1	0.06	-	0.1	0.003	5	<.001	"
22915	39.1	40.6	0.03	-	0.1	0.003	5	<.001	"
22916	40.6	42.1	0.06	-	0.1	0.003	5	<.001	"
22917	42.1	43.6	0.04	-	0.1	0.003	5	0.001	"
22918	43.6	45.1	0.03	-	0.1	0.003	5	<.001	"
22919	45.1	46.6	0.03	-	0.1	0.003	5	<.001	"
22920	46.6	48.1	0.03	-	0.1	0.003	5	<.001	"
22921	48.1	49.6	0.02	-	0.1	0.003	5	<.001	"
22922	49.6	51.1	0.02	-	0.1	0.003	5	<.001	"
22923	51.1	52.6	0.01	-	0.1	0.003	5	<.001	"
22924	52.6	54.1	0.02	-	0.1	0.003	5	<.001	Guichon Hybrid:
22925	54.1	55.6	0.02	-	0.1	0.003	5	<.001	wk fault zone
22926	55.6	57.1	0.02	-	0.1	<.01	5	<.001	Guichon (Hybrid?):
22927	57.1	58.6	0.02	-	0.1	<.01	5	<.001	"
22928	58.6	60.1	0.21	-	0.2	0.01	5	0.001	"
22929	60.1	61.6	0.8	-	1.7	0.05	5	0.013	crush zone (7 cm)
22930	61.6	63.1	0.04	-	0.1	<.01	5	0.001	"
22931	63.1	64.6	0.04	-	0.1	<.01	5	<.001	"
22932	64.6	66.1	0.04	-	0.1	<.01	5	<.001	"
22933	66.1	67.6	0.04	-	0.1	<.01	5	0.001	"
22934	67.6	69.1	0.04	-	0.1	<.01	5	<.001	Guichon Hybrid:
22935	69.1	70.6	0.03	-	0.1	<.01	5	0.001	"
22936	70.6	72.1	0.03	-	0.1	<.01	5	<.001	Guichon (Hybrid?)

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22937	72.1	73.6	0.02	-	0.1	<.01	5	<.001	Guichon (Hybrid?)
22938	73.6	75.1	0.03	-	0.1	<.01	5	<.001	"
22939	75.1	76.6	0.03	-	0.2	0.01	5	<.001	Guichon Hybrid:
22940	76.6	78.1	0.03	-	0.1	<.01	5	<.001	"
22941	78.1	79.6	0.04	-	0.1	<.01	5	<.001	"
22942	79.6	81.1	0.01	-	0.2	0.01	5	<.001	"
22943	81.1	82.6	0.02	-	0.1	<.01	5	<.001	"
22944	82.6	84.1	0.03	-	0.1	<.01	5	<.001	Porphyry Dyke
22945	84.1	85.6	0.04	-	0.1	<.01	5	<.001	(82.3-87.9 m)
22946	85.6	87.1	0.04	-	0.1	<.01	5	<.001	"
22947	87.1	88.6	0.05	-	0.1	<.01	5	0.001	Guichon Hybrid:
22948	88.6	90.1	0.03	-	0.1	<.01	5	<.001	"
22949	90.1	91.6	0.06	-	0.1	<.01	5	<.001	"
22950	91.6	93.1	0.03	-	0.2	0.01	5	<.001	"
22951	93.1	94.6	0.05	-	0.2	0.01	5	<.001	"
22952	94.6	96.1	0.04	-	0.1	<.01	5	<.001	"
22953	96.1	97.6	0.04	-	0.1	<.01	5	<.001	"
22954	97.6	99.1	0.03	-	0.1	<.01	5	0.001	"
22955	99.1	100.6	0.03	-	0.1	<.01	5	<.001	"
22956	100.6	102.1	0.04	-	0.1	<.01	5	<.001	"
22957	102.1	103.6	0.03	-	0.1	<.01	5	<.001	"
22958	103.6	105.1	0.07	-	0.1	<.01	5	0.001	"
22959	105.1	106.6	0.03	-	0.1	<.01	5	<.001	"
22960	106.6	108.1	0.02	-	0.1	<.01	5	<.001	"
22961	108.1	109.6	0.03	-	0.1	<.01	5	<.001	"
22962	109.6	111.1	0.04	-	0.1	<.01	5	<.001	"
22963	111.1	112.6	0.09	-	0.1	<.01	5	<.001	"
22964	112.6	114.1	0.08	-	0.1	<.01	5	0.005	"
22965	114.1	115.6	0.01	-	0.1	<.01	5	<.001	"
22966	115.6	117.1	0.01	-	0.1	<.01	5	<.001	"
22967	117.1	118.6	0.03	-	0.1	<.01	5	0.001	"
22968	118.6	120.1	0.01	-	0.2	0.01	5	<.001	"
22969	120.1	121.6	0.01	-	0.1	<.01	5	<.001	"
22970	121.6	123.1	<.01	-	0.1	<.01	5	<.001	"
22971	123.1	124.6	0.02	-	0.1	<.01	5	<.001	"
22972	124.6	126.1	0.01	-	0.1	<.01	5	<.001	"
22973	126.1	127.6	0.02	-	0.1	<.01	5	<.001	"
22974	127.6	129.1	0.01	-	0.1	<.01	5	<.001	"
22975	129.1	130.6	0.01	-	0.1	<.01	5	<.001	"
22976	130.6	132.1	0.02	-	0.1	<.01	5	<.001	"
22977	132.1	133.6	0.03	-	0.1	<.01	5	0.001	"
22978	133.6	135.1	0.04	-	0.1	<.01	5	<.001	"
22979	135.1	136.6	0.11	-	0.2	0.01	5	<.001	"
22980	136.6	138.1	0.02	-	0.1	<.01	5	<.001	"
22981	138.1	139.6	0.01	-	0.1	<.01	5	<.001	"
22982	139.6	141.1	0.01	-	0.1	<.01	5	<.001	Guichon (Hybrid?)
22983	141.1	142.6	0.02	-	0.1	<.01	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
22984	142.6	144.1	0.01	-	0.2	0.01	5	<.001	Guichon Hybrid:
22985	144.1	145.6	0.01	-	0.1	<.01	5	<.001	"
22986	145.6	147.1	0.01	-	0.1	<.01	5	<.001	"
22987	147.1	148.6	0.01	-	0.1	<.01	5	<.001	"
22988	148.6	150.1	0.04	-	<0.2	-	-	0.003	"
22989	150.1	151.6	0.04	-	<0.2	-	-	<.001	"
22990	151.6	153.1	0.04	-	<0.2	-	-	<.001	"
22991	153.1	154.6	0.07	-	<0.2	-	-	<.001	"
22992	154.6	156.1	0.08	-	<0.2	-	-	0.003	"
22993	156.1	157.6	0.03	-	<0.2	-	-	<.001	"
22994	157.6	159.1	0.04	-	<0.2	-	-	<.001	"
22995	159.1	160.6	0.03	-	<0.2	-	-	<.001	"
22996	160.6	162.1	0.02	-	<0.2	-	-	<.001	"
22997	162.1	163.6	0.02	-	<0.2	-	-	<.001	"
22998	163.6	165.1	0.02	-	<0.2	-	-	<.001	"
22999	165.1	166.6	0.02	-	<0.2	-	-	<.001	"
23000	166.6	168.1	0.02	-	<0.2	-	-	<.001	"
14001	168.1	169.6	0.01	-	<0.2	-	-	<.001	"
14002	169.6	171.1	0.01	-	<0.2	-	-	<.001	"
14003	171.1	172.6	0.02	-	<0.2	-	-	<.001	"
14004	172.6	174.1	0.03	-	<0.2	-	-	<.001	"
14005	174.1	175.6	0.02	-	<0.2	-	-	0.001	"
14006	175.6	177.1	0.01	-	<0.2	-	-	<.001	"
14007	177.1	178.6	0.01	-	<0.2	-	-	<.001	"
14008	178.6	180.1	0.01	-	<0.2	-	-	<.001	"
14009	180.1	181.6	0.01	-	<0.2	-	-	<.001	"
14010	181.6	183.1	0.01	-	<0.2	-	-	<.001	"
14011	183.1	184.6	0.01	-	<0.2	-	-	<.001	"
14012	184.6	186.1	0.01	-	<0.2	-	-	<.001	"
14013	186.1	187.6	0.01	-	<0.2	-	-	0.001	"
14014	187.6	189.1	0.02	-	<0.2	-	-	<.001	"
14015	189.1	190.6	0.02	-	<0.2	-	-	<.001	"
14016	190.6	192.1	0.04	-	<0.2	-	-	<.001	"
14017	192.1	193.6	0.01	-	<0.2	-	-	<.001	"
14018	193.6	195.1	0.02	-	<0.2	-	-	<.001	"
14019	195.1	196.6	0.03	-	<0.2	-	-	<.001	"
14020	196.6	198.1	0.01	-	<0.2	-	-	<.001	"
14021	198.1	199.6	0.01	-	<0.2	-	-	<.001	"
14022	199.6	201.1	0.01	-	<0.2	-	-	<.001	"
14023	201.1	202.6	0.01	-	<0.2	-	-	<.001	"
14024	202.6	204.1	0.01	-	<0.2	-	-	0.001	"
14025	204.1	205.6	0.01	-	<0.2	-	-	<.001	"
14026	205.6	207.1	0.02	-	<0.2	-	-	<.001	"
14027	207.1	208.6	0.02	-	<0.2	-	-	<.001	"
14028	208.6	210.1	0.02	-	<0.2	-	-	<.001	"
14029	210.1	211.6	0.02	-	<0.2	-	-	<.001	"
14030	211.6	213.1	0.02	-	<0.2	-	-	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14031	213.1	214.6	0.02	-	<0.2	-	-	<.001	"
14032	214.6	216.1	0.04	-	<0.2	-	-	<.001	"
14033	216.1	217.6	0.03	-	<0.2	-	-	<.001	"
14034	217.6	219.1	0.05	-	<0.2	-	-	<.001	"
14035	219.1	220.6	0.03	-	<0.2	-	-	<.001	"
14036	220.6	222.1	<.01	-	0.1	0.01	5	<.001	"
14037	222.1	223.6	<.01	-	0.1	0.01	5	<.001	"
14038	223.6	225.1	<.01	-	0.1	0.01	10	<.001	Guichon (Hybrid?):
14039	225.1	226.6	<.01	-	0.1	0.01	5	<.001	"
14040	226.6	228.1	0.01	-	0.1	0.01	5	<.001	"
14041	228.1	229.6	0.01	-	0.1	0.01	5	0.005	Guichon Hybrid:
14042	229.6	231.1	0.04	-	0.1	0.01	5	<.001	"
14043	231.1	232.6	0.08	-	0.1	0.01	5	<.001	"
14044	232.6	234.1	0.11	-	0.1	0.01	5	<.001	"
14045	234.1	235.6	0.01	-	0.1	0.01	5	<.001	"
14046	235.6	237.1	0.02	-	0.1	0.01	5	<.001	Guichon/Hybrid:
14047	237.1	238.6	<.01	-	0.1	0.01	5	<.001	w/Porphyry dykes
14048	238.6	240.1	0.02	-	0.1	0.01	5	<.001	"
14049	240.1	241.6	0.05	-	0.1	0.01	5	<.001	Porph (Beth?):
14050	241.6	243.1	0.01	-	0.1	0.01	5	<.001	"
14051	243.1	244.6	0.03	-	0.1	0.01	5	0.01	"
14052	244.6	246.1	0.02	-	0.1	0.01	5	0.003	"
14053	246.1	247.6	0.08	-	0.1	0.01	5	<.001	"
14054	247.6	249.1	<.01	-	0.1	0.01	5	<.001	"
14055	249.1	250.6	<.01	-	0.1	0.01	10	<.001	"
14056	250.6	252.1	0.01	-	0.1	0.01	5	<.001	"
14057	252.1	253.6	<.01	-	0.1	0.01	5	<.001	Porphyry:
14058	253.6	255.1	<.01	-	0.1	0.01	5	<.001	"
14059	255.1	256.6	<.01	-	0.1	0.01	5	<.001	"
14060	256.6	258.1	<.01	-	0.1	0.01	5	<.001	"
14061	258.1	259.6	0.03	-	0.1	0.01	5	0.004	"
14062	259.6	261.1	0.01	-	0.1	0.01	5	<.001	"
14063	261.1	262.6	0.01	-	0.1	0.01	5	0.001	"
14064	262.6	264.1	0.01	-	0.1	0.01	5	<.001	"
14065	264.1	265.6	<.01	-	0.1	0.01	5	<.001	"
14066	265.6	267.1	<.01	-	0.1	0.01	5	<.001	"
14067	267.1	268.6	0.01	-	0.1	0.01	5	<.001	"
14068	268.6	270.1	0.01	-	0.1	0.01	5	<.001	"
14069	270.1	271.6	<.01	-	0.1	0.01	5	<.001	"
14070	271.6	273.1	0.01	-	0.1	0.01	5	<.001	"
14071	273.1	274.6	0.01	-	0.1	0.01	5	<.001	"
14072	274.6	276.1	0.01	-	0.1	0.01	5	<.001	"
14073	276.1	277.6	<.01	-	0.1	0.01	5	<.001	"
14074	277.6	279.1	0.01	-	0.1	0.01	5	<.001	"
14075	279.1	280.6	0.01	-	0.1	0.01	5	<.001	"
14076	280.6	282.1	0.03	-	0.1	0.01	5	<.001	"
14077	282.1	283.6	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							
14078	283.6	285.1	0.04	-	0.1	0.01	5	<.001	"
14079	285.1	286.6	0.02	-	0.1	0.01	5	<.001	"
14080	286.6	288.1	0.01	-	0.1	0.01	5	<.001	"
14081	288.1	289.6	<.01	-	0.1	0.01	5	<.001	"
14082	289.6	291.1	0.03	-	0.1	0.01	5	<.001	"
14083	291.1	292.6	0.07	-	0.1	0.01	5	<.001	"
14084	292.6	294.1	0.1	-	0.1	0.01	5	<.001	"
14085	294.1	295.6	0.04	-	0.1	0.01	5	<.001	"
14086	295.6	297.1	0.04	-	0.1	0.01	5	<.001	"
14087	297.1	298.6	0.14	-	0.1	0.01	5	<.001	"
14088	298.6	300.1	0.08	-	0.1	0.01	5	<.001	"
14089	300.1	301.6	0.03	-	0.1	0.01	5	<.001	"
14090	301.6	303.1	0.01	-	0.1	0.01	5	<.001	"
14091	303.1	304.6	0.02	-	0.1	0.01	5	<.001	"
14092	304.6	306.1	0.03	-	0.1	0.01	5	<.001	"
14093	306.1	307.6	0.03	-	0.1	0.01	5	<.001	"
14094	307.6	309.1	0.03	-	0.1	0.01	5	<.001	"
14095	309.1	310.6	0.02	-	0.1	0.01	5	<.001	"
14096	310.6	312.1	0.05	-	0.1	0.01	5	<.001	Porph w/ Guichon:
14097	312.1	313.6	0.01	-	0.1	0.01	5	<.001	"
14098	313.6	315.1	0.12	-	0.1	0.01	5	<.001	Guichon:
14099	315.1	316.6	0.02	-	0.1	0.01	5	<.001	"
14100	316.6	318.1	0.03	-	0.1	0.01	5	0.002	"
14101	318.1	319.6	0.06	-	0.1	0.01	5	<.001	Guich w/ Porph?:
14102	319.6	321.1	0.06	-	0.1	0.01	5	<.001	"
14103	321.1	322.6	0.01	-	0.1	0.01	5	<.001	"
14104	322.6	324.1	0.05	-	0.1	0.01	5	0.001	Guichon w/ Porph:
14105	324.1	325.6	0.07	-	0.1	0.01	5	<.001	"
14106	325.6	327.1	0.03	-	0.1	0.01	5	<.001	Guichon:
14107	327.1	328.6	0.07	-	0.1	0.01	5	<.001	"
14108	328.6	330.1	0.02	-	0.1	0.01	5	<.001	"
14109	330.1	331.6	0.05	-	0.1	0.01	5	0.012	wk fault zone
14110	331.6	333.1	0.02	-	0.1	0.01	5	<.001	"
14111	333.1	334.6	0.03	-	0.1	0.01	5	<.001	"
14112	334.6	336.1	0.01	-	0.1	0.01	5	<.001	"
14113	336.1	337.6	<.01	-	0.1	0.01	5	<.001	"
14114	337.6	339.1	0.01	-	0.1	0.01	5	<.001	"
14115	339.1	340.6	0.01	-	0.1	0.01	5	<.001	"
14116	340.6	342.1	0.01	-	0.1	<.01	5	<.001	"
14117	342.1	343.6	0.01	-	0.2	0.01	5	<.001	"
14118	343.6	345.1	0.01	-	0.1	<.01	5	<.001	"
14119	345.1	346.6	0.06	-	0.1	<.01	5	<.001	"
14120	346.6	348.1	0.01	-	0.1	<.01	5	<.001	"
14121	348.1	350.5	0.01	-	0.2	0.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 95-27		Date	10-Nov							Logged by VN									
Elevation	1689.9 m	Azimuth	315							Northing: 5603889.6									
Inclination	-50	Length	227.3 m							Easting: 641756.7									
ROCK TYPE		FAULT GOUGE	STRUCTURE		VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS		
interval (m)			INTENSITY	FRACTURE SURFACES		perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary					
								perv.	fract.		perv.	fract.	perv.	fract.					
12.2-15.7	Guichon, loc mafic rich	loc thin 13.9 m ~ 40° C.A.	mod/stng	chlr, (ser), carb, cly in gge	wk/mod, chlr healed fracts		loc hem & jar				patchy alb & ep (patchy chlr)	chlr (ser) (alb) (ep)		loc hem (pyr) tr cpy	pyr tr cpy	wk/mod		Local very strong alb alteration with gouge.	
15.7-19.2	Guichon Hyb loc mafic rich	loc thin 18.1 m 30° C.A.	mod, loc stng/bkn, loc wk ckle	ser, chlr, carb cly in gge	wk pyr vnits at 30° C.A.						patchy alb+ep (loc chlr)	ser chlr (alb) (ep)		loc pyr tr cpy	loc pyr tr cpy	wk/mod		Several partially assimilated xenoliths. Alb/ep/chlr alteration increasing with depth. Pervasive primary mineralization increasing with depth. Greater overall fracture controlled pervasive alteration than previous interval.	
19.2-23.2	Guichon Hyb loc mafic rich	loc thin and some slip	mod/stng	ser, chlr, carb cly in gge	wk/mod qtz/pyr vnits at 40° C.A.		(loc hem)				alb patchy ep loc chlr	ser chlr (alb?)		patchy pyr tr cpy	loc pyr	wk/mod		Further slight increase in pervasive propylitic alteration (still fracture controlled). Bleached alteration envelope on qtz/pyr veinlets. Several partially assimilated xenoliths.	
23.2-27.3	Guichon Hyb wk fault zone	loc thin	mod/stng loc dis bx/ crushed/milled	ser, chlr, carb loc cly	loc abd carb & (qtz) vnits & frags, loc wk/mod pyr & cpy vnits						chlr ser loc ep loc alb carb	loc ep chlr carb		loc pyr loc cpy	loc pyr loc cpy	tr/wk		Breccia/crush zone 24.2-26.6 m, with cpy and pyr as blebs (to 2 cm) and veinlets. Carb veinlets fragments and void filling and qtz veinlets with sulphides suggest mineralization pre-brecciation. Matrix in breccia is black with crushed sulphides.	
27.3-30.8	Guichon (Hybrid?)		mod/stng, loc ckle/dis bx, some open spaces	ser, chlr, carb	abd qtz/pyr vnits, num chlr/ep/carb heal'd fracts						chlr ser carb patchy ep loc alb	ser chlr carb loc ep		pyr (cpy)	pyr cpy	tr		Well prepared. Bleached qtz/ser/alb alteration envelope to 1.0 cm on fractures and veinlets, (most at 20-30° C.A.) Slight decrease in overall alteration intensity. Shor (~40 cm) breccia/crush zone at top with cpy blebs.	
30.8-34.2	Guichon (Hybrid?)		stng, loc ckle bx	ser chlr carb	abd chlr/pyr heal'd fracts & pyr vnits at 40-50° C.A., wk carb vnits						loc alb loc ser chlr patchy ep	ser chlr carb (loc ep)		(pyr) (cpy)	pyr (cpy)	tr/wk		Moderately well prepared. Bleached alteration envelope as above. Further slight decrease in overall alteration intensity—ie: chlr/ser.	

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 (Hybrid?) loc mafic rich	loc thin 37.6 m	wk/mod	ser, chlr, carb	num qtz/pyr vnltls, num chlrl/carb/ep heal'd fractls	-	-	-	alb patchy ep chlrl (loc ser)	ser chlrl carb loc ep	-	-	pyr patchy cpy	pyr (cpy)	wk/ mod	Further decrease in pervasive chlrl/ser alteration intensity, increase in alb/ep (loc strong alb)		
38.1-41.9	Guichon Hyb loc mafic rich	-	wk/mod loc stng	ser, chlrl loc carb	wk qtz/pyr vnltls	-	-	-	alb patchy ep+chlrl (loc ser)	loc ep ser chlrl loc carb	-	-	pyr (cpy)	pyr (cpy)	mod	Fine grained dyke? 39.0-39.6 m with partially assimilated Guichon xenoliths, local incursions into, and impregnations of, wall rock. Nicola! but Guichon xenoliths suggest otherwise. Dyke is crosscut by pyr veinlets.		
41.9-46.2	Guichon	-	wk, loc wk ckle	ser, chlrl (carb)	wk pyr vnltls num chlrl/pyr /qtz healed fractls	(loc hem stn alb)	(loc hem)	-	patchy alb (patchy chlrl) patchy ep	loc ep ser chlrl (carb)	chlrl	-	pyr (cpy)	pyr (cpy)	mod	Decrease in overall alteration intensity. Weak pyr veinlets, to ~ 1 cm, with strong alb/ep alteration envelope.		
46.2-50.4	Guichon (Hybrid?) loc f gr & mafic rich	-	wk/mod	ser, (chlrl) (carb)	wk pyr vnltls wk irreg carb vnltls num chlrl/qtz /pyr healed fractls	-	-	-	alb (patchy chlrl) patchy ep	loc ep ser (chlrl) (carb)	chlrl	-	pyr (cpy)	pyr	wk/ mod	Weak pyr veinlets to ~ 1 cm, with strong alb/ep alteration envelope.		
50.4-54.6	Guichon (Hybrid?) loc mafic rich	-	wk/mod loc wk ckle	ser, chlrl, carb	num qtz/pyr vnltls, num qtz/chlrl/carb heal'd fractls w/pyr+(cpy)	-	-	-	alb patchy chlrl (loc ep) (loc ser)	(loc ep) ser chlrl carb	chlrl	-	pyr (cpy)	pyr (cpy)	wk/ mod	Chlrl/alt alteration intensity increased. More abundant veinlets and healed fractures with sulphides. Generally weak alteration envelope on veinlets and fractures.		
54.6-58.1	Guichon	-	mod/stng, loc bkn/crushed	ser, chlrl carb (qtz)	-	-	loc hem	-	alb patchy chlrl (loc ep) loc ser	ser chlrl carb (qtz) loc ep	chlrl	-	pyr cpy	pyr (cpy)	wk/ mod	Fracture controlled pervasive alteration intensity increased; local very strong ser on fractls with local strong pervasive ser alteration where crushed.		
58.1-62.3	Guichon/Hyb loc mafic rich	loc 58.9 m & some slip	mod/stng, loc ckle/bkn	ser, carb, chlrl (cly ln gge)	wk carb vnltls, wk/ mod pyr vnltls	loc hem stn alb	-	-	alb patchy ep chlrl loc ser	ser chlrl carb (cly in gge) loc ep	-	-	pyr (cpy)	pyr cpy	wk	Weak bleached alteration envelope on veinlets and fractls. Phenos becoming ghost-like. Overall slight increase in pervasive alteration intensity.		

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
62.3-65.8	Guichon (Hybrid?)	some slip	mod/stng, loc bkn/shatt	ser, chlr, carb	num qtz/chlr /pyr healed fracts, wk pyr/cpy vnits	-	(loc hem)	-	loc chlr loc ser alb (carb) (patchy ep)	(loc ep)	-	-	pyr (cpy)	pyr cpy	tr/wk	Pervasive alteration (chlr/ser) increasing with depth. Overall increase in pervasive alteration intensity, strong pervasive chlr/ser at bottom.		
65.8-69.2	Guichon wk fault zone	loc several sections	stng/ckle, loc int/crushed	ser, chlr, carb cly in gge	wk/mod irreg carb vnits & void filling, wk qtz vnits w/ pyr & cpy	-	-	-	ser chlr carb loc cly	ser chlr carb cly in gge	-	-	pyr cpy	pyr cpy (mo)	-	Chlr/carb healed breccia/crush zone 65.8-66.9 m with strong chlr/ser, carb vein fragments and qtz vein fragments with cpy. Patchy fresh biolite.		
69.2-73.2	Guichon wk fault zone	loc 70.6- 70.9 m	stng/int, loc crushed	ser, chlr, carb	num irreg carb vnits wk/mod pyr vnits	-	-	-	ser carb chl loc alb loc cly	ser chl carb	-	-	(pyr)	pyr	-	Local complete chlr/ser alteration, where crushed. Bleached alteration envelope on pyr veinlets.		
73.2-76.6	Guichon fault zone	loc 74.6 - 75.3 m	mod/stng, loc int/crushed	ser, chlr, carb cly in gge	wk irreg carb vnits, qtz vn frags w/cpy	-	-	-	chl ser carb loc cly	ser chl carb cly in gge	-	-	pyr (cpy)	pyr loc cpy loc mo	-	Loc healed breccia/crush zone with qtz veinlet fragments containing cpy, (mo) selvages. Slight decrease in overall alteration intensity.		
76.6-78.4	Guichon	loc thin	mod	ser, chl carb (loc cly)	wk carb vnits, wk/ mod irreg pyr vnits	-	-	-	carb, chl ser	ser chl carb (loc cly)	-	-	(pyr) tr cpy	pyr (cpy)	-	Guichon with incursions of Bethlehem. Alteration intensity similar to previous interval.		
78.4-80.8	Bethlehem	-	wk, loc mod	ser, chl, carb (qtz)	wk/mod irreg pyr vnits, wk irreg carb vnits	-	-	-	carb chl ser (loc alb)	ser chl carb (qtz)	-	-	pyr (cpy)	pyr (cpy) (mo)	-	Qtz veinlet ~ 1.0 cm, with cpy cor, (mo) selvages, ~ 40° C.A.		
80.8-84.8	Bethlehem	loc thin	stng/ckle, loc wk/mod	ser, chl, carb	wk/mod irreg carb vnits	-	-	-	ser chl carb (patchy ep) alb?	ser chl carb	-	-	pyr cpy	(mo) pyr cpy	-	Fine grained to very fine grained dissp pyr and cpy; both pyr and cpy local strong on fracts and in veinlets. Slight overall decrease in pervasive alteration intensity.		

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			
84.8-87.2	Bethlehem fault zone	85.6-86.6 m ~ 50° C.A.	ckle/dis bx loc crushed	ser, chlr, carb cly in gge	wk/mod carb vnlt & frags, wk irreg pyr vnlt, wk qtz vnlt w/ cpy & pyr	-	-	-	ser chl carb loc cly	ser chl carb cly in gge	-	-	(patchy cpy) pyr	pyr cpy	-	-	Bethlehem with short intervals of Guichon.
87.2-88.1	Guichon fault zone	loc 87.7- 87.8 m	stgn/int, loc crushed/milled	ser, chl, carb cly in gge	qtz vnlt & frags w/pyr & cpy, carb vnlt & void filling	-	-	-	ser chl carb	ser chl carb cly in gge	-	-	pyr (cpy)	(mo) pyr cpy	wk/ mod	-	Black, crushed sulphids and chl in gge and crush zones.
88.1-91.9	Guichon wk fault zone	loc 90.9 m ~ 10 cm	wk/mod	ser, chl, carb cly in gge	wk qtz & carb vnlt w/ pyr. (cpy) & (mo)	-	-	-	ser chl carb bio?	ser chl carb cly in gge	-	-	pyr (cpy)	(mo) pyr cpy	wk/ mod	-	Weak qtz veinlets with (mo) selvages and (cpy) Patchy fresh black biotite (secondary?) where moderate/strong magnetic; elsewhere trace/weak magnetic. Weak alteration envelope on veinlets and fracts.
91.9-95.6	Guichon loc pink mottled, wk fault zone	loc thin 92.4 m	mod, loc stng/ ckle, loc crushed	ser, chl, carb loc cly	loc wk pyr/ qtz stkwk, num chl heal'd fracts	-	-	-	loc ser patchy alb (patchy ep) loc chl	ser chl carb (qtz)	chl (ep)	loc hem	pyr (cpy)	pyr (cpy) (mo)	mod	-	Decrease in pervasive alteration intensity (even though fract intensity has increased); strong increase in fracts alteration. Local complete ser alteration.
95.6-99.4	Guichon (Hybrid?) loc mafic rich	-	wk/mod, loc shatt	ser, chl, carb (qtz)	wk/mod pyr/ qtz vnlt, num qtz/chl heal'd fracts w/pyr (cpy) & (mo)	-	loc hem	-	alb loc ser (patchy chl) (patchy ep)	ser carb chl (qtz)	chl (ep)	loc hem	pyr (cpy)	pyr (cpy) (mo)	mod	-	Further decrease in pervasive alteration intensity; continued strong alteration on fracts, with strong ser/carb alteration envelope on veinlets and fracts. Possible partially assimilated xenoliths.
99.4-103.6	Guichon Hyb loc mafic rich	-	wk	ser, chl, carb	carb vnlt 2 cm at 20° C.A. vuggy w/drusy calcite	loc hem stn alb	-	-	loc alb loc chl patchy ser	ser chl carb	chl (ep)	-	(pyr) tr cpy	pyr loc cpy (mo)	loc wk/ mod	-	Mafic xenolith. Weak pervasive alteration at top increasing with depth. Local very strong pervasive alb; alb healed crush/shear zone with streaked/banded chl and crushed sulphides. Strong ser/carb/qtz alteration envelope on veinlets and fracts.
103.6-07.9	Guichon Hyb loc mafic rich	-	wk	ser, chl, carb (qtz)	wk carb vnlt to 2.0 cm	(patchy hem stn alb)	-	-	patchy ser (loc carb) chl (loc alb)	ser chl carb (qtz)	-	-	(pyr) tr cpy	pyr loc cpy	wk	-	Partially assimilated mafic xenolith.

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			
107.9-111.8	Guichon Hyb loc mafic rich	loc thin 110.6- 111.2 m, at 20° C.A.	wk/mod, loc shatt/crushed	(ser), chlr, carb, cly in	num qtz/chlr heal'd fracts	-	loc hem stn ep	-	(loc carb)	(ser) chlr	-	loc hem	(pyr)	pyr (cpy)	wk/ mod		Epidote "veinlet" with hem staining. Patchy fresh black biotite.	
111.8-115.7	Guichon Hyb loc mafic rich wk fault zone	several sections 112.2- 114.4 m	wk/mod, loc stng/crushed	ser, chlr, carb cly in gge	wk irreg carb vnlt abd chlr/qtz heal'd fracts at 50° C.A.	-	-	-	patchy ser	ser chl	-	-	pyr	pyr (cpy)	wk		Several partially assimilated mafic xenoliths. Pervasive alteration decreasing with depth.	
115.7-119.7	Guichon Hyb loc mafic rich	some slip	wk/mod, loc stng/bkn	ser, carb, chl loc cly	qtz/chlr heal'd fracts w/pyr & cpy wk irreg qtz & carb vnlt	-	loc hem stn ser & carb	-	patchy ep	ser carb	chl	loc hem	patchy cpy pyr	pyr cpy	wk/ mod		Pervasive propylitic alteration increasing with depth; strong at bottom.	
119.7-123.0	Guichon	some slip	wk/mod, loc stng/ckle, loc crushed	ser, carb, chl (loc cly)	wk carb vnlt, abd qtz/chlr heal'd fracts w/pyr & cpy	-	-	-	patchy ep+ser alb	ser carb	chl	-	(pyr) (cpy)	(mo) pyr cpy	loc wk/ mod		Moderate to strong pervasive alteration overall; stronger alteration envelope on fracts and veinlets than previous interval.	
123.0-124.6	Porphyry	-	stgn/ckle	ser, (chl), carb, (qtz)	-	-	-	-	patchy ep (loc chl) alb	ser (chl) carb (qtz)	-	-	(cpy) (pyr)	(mo) cpy pyr	tr/wk		Pink aplitic porphyry with cpy and pyr dissf and weak dissf. Dark chill margins on upper and lower contacts.	
124.6-127.1	Guichon	-	mod/stng loc ckle	ser, chl, carb	wk qtz vnlt w/cpy, num qtz/chlr heal'd fracts w/cpy & pyr	-	-	-	patchy ser alb	ser chl carb	chl	-	(cpy)	pyr cpy	wk			
127.1-130.6	Guichon Hyb loc mafic rich	loc 127.9 m	mod/stng, loc ckle/crushed	ser, chl, carb cly in gge	abd chl/qtz heal'd fracts w/cpy, pyr & (mo)	-	-	-	patchy ser+alb (loc chl) (patchy ep)	ser chl carb cly in gge	chl	-	cpy (pyr)	pyr cpy (mo)	wk/ mod		Scattered, small mafic xenoliths. Local weak microstockwork with cpy and (mo) in veinlets.	

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
130.6-134.8	Guichon Hyb loc mafic rich	loc	stng/ckle, loc shatt/crushed	ser, chlr, carb loc cly	wk irreg carb vnlt num qtz/chlr /pyr healed fracts	lec hem stn alb	-	-	loc ser loc chlr alb patchy ep loc cly loc carb	ser chlr carb loc cly	?	-	-	patchy cpy (pyr)	pyr cpy (mo)	tr/wk	Intermittent breccia/crush zone 132.1-134.8 m with local complete chlr/ser alteration, qtz vein fragments with cpy and mo blebs, weak diss pyr, cpy and mo in crush zone. Check assays for MoS ₂ .	
134.8-138.3	Guichon Hyb loc mafic rich	loc 134.9 m	wk/mod, loc stng/ckle	ser, chlr, carb loc cly	wk/mod qtz vnlt w/cpy & mo, num qtz/chlr heal'd fracts	-	-	-	alb patchy chlr loc ser	ser chlr carb loc cly	chlr	-	-	(cpy) (pyr)	pyr cpy (mo)	wk/ mod		
138.3-143.2	Guichon Hyb loc mafic rich, wk fault zone	several sections	wk/mod, loc int/ crushed	ser, chlr carb loc cly	-	loc hem stn ser	-	-	loc cly loc ser patchy alb loc chlr (loc ep)	ser chlr carb loc cly loc ep	chlr	-	loc hem	(pyr) (patchy cpy)	cpy pyr (mo)		25% Recovery 139.6-140.8 m, with aplitic porphyry fragments, qtz vein fragments and gouge Possible Bethlehem dyke 138.7-139.6 m, aplitic porphyry fragments 140.8-141.0 m.	
143.2-147.8	Guichon wk fault zone	147.3 m > 3 cm 20° C.A.	wk/mod, loc int/crushed	ser, chlr, carb cly in gge	abd qtz/chlr heal'd fracts w/cpy	(loc hem stn ser & alb)	(loc hem stn ser)	-	loc ser (patchy chlr) patchy alb	ser chlr carb cly in gge	chlr	-	-	cpy (pyr)	cpy (pyr)	loc wk/ mod	Weak qtz veinlets with (cpy). Fracture intensity and pervasvie alteration intensity increasing with depth.	
147.8-152.0	Fault Zone Guichon	most of interval	int/ckle/dis bx	ser, cly, carb chlr	qtz frags	loc hem	(loc hem)	-	loc cly ser loc chlr loc alb	ser cly carb chlr	-	-	-	(cpy)	cpy	loc wk	Most of interval is gouge/breccia with several short unbroken strong fractured sections.	
152.0-155.8	Guichon (Hybrid?) loc mafic rich	loc 152.4 m	mod/stng, loc int/crushed	ser, chlr, carb loc cly	wk irreg qtz & carb vnlt loc abd chlr/ qtz healed fracts	loc hem stn alb	-	-	loc alb loc ser (chlr)	ser chlr carb loc cly	chlr	-	-	(cpy)	cpy (mo)	tr/wk	Overall alteration intensity decreasing with decreasing fracture intensity. Aplite dykelet frags at bottom with poor recovery. Local complete ser alteration.	
155.8-159.8	Guichon	some slip	wk, loc mod	ser, chlr, carb (loc cly)	wk qtz vnlt w/(mo) & (cpy) at 20 & 50° C.A.	-	-	-	alb (patchy ser)	ser chlr carb loc cly	chlr	-	-	(cpy) (pyr)	mo cpy	wk/ mod	Weak aplite dykelets to 2 cm. Local strong mo on qtz vein margins.	

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.
159.8-163.4	Guichon	loc 160.4-160.6 m	wk/mod loc crushed	ser, chlr, carb (cly in gge)	wk Qtz vnlt to 1.0 cm w/ (cpy)	(loc hem stn ser & alb)	-	-	(patchy chlr)	ser chl	chl	-	-	cpy cpy (pyr)	wk/ mod	Cpy veinlet fragments (~ 0.5 cm) in crush zone. Weak to moderate bleached alteration envelope on chlr healed fracts and veinlets.		
163.4-167.3	Guichon	loc thin 166.6 m, 167.1 m	wk/mod loc dis bx/ crushed	ser, chlr, carb loc cly	Qtz vnlt & frags to 2.0 cm, num chl healed fracts	(loc hem stn alb)	-	-	loc ser patchy chl (loc carb)	ser chl carb loc cly	chl	-	-	(cpy) tr pyr	wk/ mod	Cpy occurs mainly on fracts and diss within alteration envelope on veinlets and fracts, rarely diss with mafics or otherwise. Patchy fresh black biotite. Crush zone 164.0 m with Qtz vein frags.		
167.3-170.8	Guichon wk fault zone	loc 168.0-169.2 m ~ 5° C.A.	mod/stng, loc ckle/crushed	ser, chlr, carb cly in gge	num irreg carb vnlt 30-40° C.A. wk Qtz vnlt to 2 cm at 50-60° C.A.	(loc hem stn alb)	-	-	loc ser patchy chl (loc carb)	ser chl carb cly in gge	chl	-	-	cpy cpy	tr/wk	Pink aplitic porphyry dykelets and fragments, 168.8-170.8 m, predate Qtz vnlt and mineralized fracts (numerous small offsets). Fine grained diss cpy in dykelets. Overall alteration intensity increasing.		
170.8-174.8	Guichon (Hybrid?) Fault zone	several sections	mod/stng, loc crushed/milled	ser, chlr, carb loc cly	wk/mod Qtz & carb vnlt	-	-	ser chl loc carb loc cly	ser chl carb loc cly	-	-	-	-	cpy (pyr) cpy (mo)	tr	Loc mafic rich with possible incursions of Bethlehem. Alteration intensity increasing. Local complete chl/ser alteration. Patchy fresh, black biotite.		
174.8-178.3	Guichon wk fault zone	several sections	stng/ckle bx loc bkn/ crushed	ser, chlr, carb cly in gge	num Qtz vnlt at var angles w/ cpy	(loc hem stn ser)	-	-	loc ser chl (carb) loc alb	ser chl carb cly in gge	chl	-	-	patchy cpy tr pyr	wk/ mod	Numerous chl/Qtz healed fracts with cpy.		
178.3-182.3	Guichon wk fault zone	loc 180.5 m	mod/stng loc shatt/ crushed	ser, chlr carb loc cly	num Qtz frags +vnlt at var angles w/ (mo) + (cpy)	-	-	ser chl carb (loc cly)	ser chl carb loc cly	-	-	-	-	patchy cpy tr pyr	mod	Guichon with incursions of Bethlehem. Numerous Qtz veinlet frags in crush zones. Overall alteration increasing.		
182.3-184.1	Guichon fault zone	183.3-184.1 m	stng/int, loc crushed/milled	ser, chlr, carb loc cly	Qtz frags, num Qtz vnlt	-	-	ser chl carb (loc cly)	ser chl carb loc cly	-	-	-	-	(loc mo) cpy patchy cpy	-	Cpy and (mo) diss in crush/gouge zone. Overall strong pervasive alteration.		

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			
184.1-186.4	Porphyry Fault zone	loc 184.4 m	stng/ckle loc shatt	ser, chlr, carb cly in gge, (qtz)	num qtz vnits w/ (mo) + (cpy)	(loc hem)	-	-	ser loc chlr (carb) (loc cly) loc alb	ser (chlr) carb cly in gge (qtz)	-	-	(loc mo) tr cpy	(mo) cpy	-	Porphyry with loc bx clasts of Guichon at top of interval. Pervasive chlr alteration intensity decreasing with depth. Similar to Porphyry at 237.7 m in DDH 95-17 (probably Bethlehem). Becoming quite siliceous with depth.	
186.4-190.0	Porphyry	-	mod/stng, loc ckle/crushed; some open spaces	loc ser, ser chl, (carb)	wk qtz stkwk	loc hem stn alb	-	-	loc serp ser patchy chl sil, alb?	loc serp ser chl (carb)	-	-	patchy cpy tr mo	mo cpy	-	Weak qtz stockwork in loc sil healed Bx/crush zone with patchy pervasive serpentine. Becomes somewhat aplitic at bottom. Overall strong altered local quite bleached, qtz flooded.	
190.0-193.9	Porphyry	-	wk/mod, healed ckle bx	ser, qtz, loc chl, carb	qtz stkwk vnits to 1cm abd qtz/chlr heal'd fracts	loc hem	loc hem	-	sil, ser patchy chl loc Ksp qtz (carb)	loc Ksp ser loc chl qtz (carb)	-	-	cpy cpy (mo)	cpy (mo)	-	Qtz stockwork, qtz flooded, loc fracture controlled potassic alteration. Very fine grained patchy diss cpy Pervser and chl occur generally as strong discrete replacement of feldspars and mafics.	
193.9-198.9	Porphyry	-	mod, healed wk ckle Bx	ser, (chl) qtz, (carb)	wk qtz stkwk vnits to 0.5 cm; num qtz/chlr heal'd fracts	loc hem stn alb	-	-	sil, ser (patchy chl) loc Ksp qtz (carb)	loc Ksp ser (chl) qtz (carb)	-	-	cpy cpy (loc mo) tr chalc	cpy (loc mo) tr chalc	-	Patchy chl and K-spar alteration give mottled pink-green appearance. Cpy locally with peacock bloom. Very fine grained cpy diss in chloritic alteration envelope on veinlets and fracts.	
198.9-202.8	Porphyry	suspect some lost	wk/mod healed ckle bx	ser, (loc chl) carb	qtz stkwk, vnits to 0.5 cm w/cpy, chalc, & (mo).	(patchy hem)	-	-	sil, ser (patchy chl) loc Ksp ser (loc serp) carb	(loc Ksp) ser (loc serp) carb	-	-	patchy chalc cpy cpy	loc chalc cpy (mo)	tr	Local peacock tarnished chalc with cpy inter-growths. Loc fine grained diss chalc. Very fine grained diss cpy. Strongest Cu seen yet in this hole. Qtz stockwork, qtz flooded, overall very strong pervasive alteration.	
202.8-207.0	Porphyry	204.3- 204.8 m w/qtz frags & diss (mo)	wk/mod	cly in gge, ser, carb	wk qtz stkwk vnits <0.5 cm	loc hem	-	-	sil, ser (loc chl) loc Ksp ser ser qtz carb cly in gge	ser carb cly in gge	-	-	(patchy chalc) cpy cpy	(mo) cpy loc chalc	-	Similar to previous interval; slight increase in diss chalc (frequently with peacock tarnish) Local very fine grained diss chalc with cpy. Check assays for this interval.	
207.0-210.7	Porphyry	loc thin	wk, loc mod	ser, qtz, carb (loc serp)	wk qtz stkwk vnits <1.0 cm	(patchy hem)	loc hem	-	ser loc Ksp (patchy chl) sil ser qtz carb (loc serp) loc Ksp	ser qtz carb (loc serp) loc Ksp	-	-	(patchy bo) patchy chalc cpy	(chalc) cpy tr bo	-	Possible weak fract and vein controlled potassic alteration. Stain for K-spar. Strongly altered overall; diffuse alteration envelope on fracts and veinlets are frequently darkened by chl and very fine grained diss cpy and (chalc)	

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.				
210.7-215.1	Porphyry	suspect some lost	wk	ser, qtz, carb	num qtz vnlt, abd qtz/chlr heal'd fract	(patchy hem)	-	ser	ser	-	-	-	(patchy bo)	chalc cpy	-	-	Dark green/grey patches and bandings with chlr, very fine grained diss chalc and cpy (occasionally with bo). Possible potassic altered--stain for K-spar. Sulphides frequently occur as a halo around fract and veinlets.
215.1-219.0	Porphyry	loc thin 216.7 m	wk/mod	ser, carb, qtz (loc chl)	abd qtz vnlt, vuggy	loc hem stn alb	-	ser	ser	-	-	-	(patchy bo)	cpy (chalc)	-	-	Slight increase in pervasive chl, not as strongly bleached and silicic as previous intervals. Sulphides occurrence still patchy and as halos around fract and veinlets, occasionally in dark bands.
219.0-223.1	Porphyry	loc thin 221.4 m	wk	ser, carb, qtz	abd qtz vnlt	loc hem stn alb	-	ser	ser	-	-	-	(patchy bo)	cpy (pyr)	-	-	Strongly silicic with wtrng, discrete replacement of plag and mafics by ser and chl. Sulphides occur as in previous interval, though slightly weaker. Local fresh black biotite.
223.1-227.3	Porphyry	loc 226.5 m, some slip surfaces	wk/mod	ser, chl, carb (cly in gge) (qtz)	num qtz vnlt	loc hem	-	ser, sil	ser	-	-	-	cpy	cpy	-	-	Patchy pervasive alteration, generally strongly silicic with local strong/complete ser.
227.3-230.9	Porphyry	some slip	wk/mod, loc bkn/crushed, stng set at 45° C.A.	ser, (chl) (carb)	abd qtz vnlt <1 cm	patchy hem	-	ser, sil	ser	-	-	-	(loc mo)	(loc mo)	-	-	Very fine grained diss cpy>cpy in fract and veinlets; several apite dykelets crosscut by qtz veinlets. Pervasive chl alteration intensity increasing with depth.
230.9-234.1	Porphyry	2 cm at 232 & 234.7 m	loc dis bx/wk	ser, carb, (chl)	(carb vnlt)	(hem)	-	ser,	ser	-	-	-	cpy	cpy	-	-	Cpy with peacock bloom, possibility of chalc.
234.1-238.7	Porphyry	1 cm at 235.1 m	mod/loc shatt	carb, ser (chl)	carb vnlt, qtz at 40° C.A. <1 cm aplite dyke at 236 m > 2 cm	hem (loc hem)	-	ser	ser	-	-	-	cpy	(cpy)	-	-	Cpy with strong peacock bloom. Patchy sil, intensity of chl increasing. Check for K-spar.
238.7-243.2	Guichon	-	mod	carb, ser, chl	chl healed vnlt, qtz at 40° C.A. > 1 cm carb vnlt	loc hem (hem)	-	ser,	carb	-	-	-	cpy	cpy	tr	-	Gradational contact between Porphyry and Guichon.

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
243.2-247.3	Guichon	-	mod	carb, chl, ser	chl-ser heal'd fracts aplite dyke at 246 m qtz at 40° C.A., 247 m > 1 cm	loc hem	-	-	chl ser sil	carb chl ser	-	-	-	cpy	cpy	tr	Check for K-spar. Cpy with peacock bloom strong.	
247.3-253.0	Guichon	-	mod	carb, chl, ser	carb healed vnits, mafic dyke/porph 248.3-249.2 m	loc hem	-	-	chl ser sil tr bio	carb chl ser	-	-	-	cpy	pyr	-	Mafic dyke carrying clasts fo Porphyry and Guichon—dyke is mineralized. Carb veinlets occur with chl alteration envelopes. Cpy with peacock bloom. Check for K-spar.	
EOH 253.0 m																		

Northing: 5603889.6			DDH 95-27					Azimuth: 315	
Easting: 641756.7			Elevation: 1689.9 m					Inclination: -50	
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14122	12.2	13.7	0.08	-	0.30	0.01	5	<.001	Guichon:
14123	13.7	15.2	0.09	-	0.20	0.01	5	<.001	"
14124	15.2	16.7	0.05	-	0.20	0.01	5	<.001	Guichon Hybrid:
14125	16.7	18.2	0.10	-	0.10	<.01	5	<.001	"
14126	18.2	19.7	0.15	-	0.10	<.01	5	0.001	"
14127	19.7	21.2	0.15	-	0.20	0.01	5	0.001	"
14128	21.2	22.7	0.06	-	0.10	<.01	5	<.001	"
14129	22.7	24.2	0.11	-	0.20	0.01	5	<.001	wk fault zone
14130	24.2	25.7	1.61	-	2.70	0.08	5	0.11	"
14131	25.7	27.2	1.35	-	4.60	0.13	5	0.09	"
14132	27.2	28.7	0.52	-	0.10	<.01	5	0.001	Guichon (Hybrid?):
14133	28.7	30.2	0.12	-	0.20	0.01	5	<.001	"
14134	30.2	31.7	0.16	-	0.20	0.01	5	<.001	"
14135	31.7	33.2	0.15	-	0.10	<.01	5	<.001	"
14136	33.2	34.7	0.13	-	0.10	<.01	5	<.001	"
14137	34.7	36.2	0.12	-	0.10	<.01	5	0.001	"
14138	36.2	37.7	0.11	-	0.10	<.01	5	<.001	"
14139	37.7	39.2	0.07	-	0.10	<.01	5	<.001	Guichon Hybrid:
14140	39.2	40.7	0.08	-	0.10	<.01	5	<.001	"
14141	40.7	42.2	0.08	-	0.10	<.01	5	<.001	Guichon:
14142	42.2	43.7	0.09	-	0.10	<.01	5	0.002	"
14143	43.7	45.2	0.10	-	0.10	<.01	5	0.001	"
14144	45.2	46.7	0.06	-	0.10	<.01	5	0.001	"
14145	46.7	48.2	0.10	-	0.20	0.01	5	<.001	Guichon (Hybrid?):
14146	48.2	49.7	0.12	-	0.10	<.01	5	<.001	"
14147	49.7	51.2	0.10	-	0.10	<.01	5	0.001	"
14148	51.2	52.7	0.09	-	0.10	<.01	5	<.001	"
14149	52.7	54.2	0.12	-	0.20	0.01	5	<.001	"
14150	54.2	55.7	0.16	-	0.20	0.01	5	0.001	Guichon:
14151	55.7	57.2	0.12	-	0.10	<.01	5	<.001	"
14152	57.2	58.7	0.11	-	0.10	<.01	5	<.001	Guichon Hybrid:
14153	58.7	60.2	0.13	-	0.20	0.01	5	0.001	"
14154	60.2	61.7	0.15	-	0.10	<.01	5	<.001	"
14155	61.7	63.2	0.21	-	0.10	<.01	5	0.004	Guichon (Hybrid?):
14156	63.2	64.7	0.22	-	0.10	<.01	5	0.002	"
14157	64.7	66.2	0.21	-	0.20	0.01	5	0.003	Guichon:
14158	66.2	67.7	0.45	-	0.10	<.01	5	0.013	wk fault zone
14159	67.7	69.2	0.23	-	0.10	<.01	5	0.002	"
14160	69.2	70.7	0.22	-	0.10	<.01	5	0.008	wk fault zone
14161	70.7	72.2	0.23	-	0.10	<.01	5	0.003	"
14162	72.2	73.7	0.21	-	0.10	<.01	5	0.009	"
14163	73.7	75.2	0.48	-	0.10	<.01	5	0.006	wk fault zone
14164	75.2	76.7	0.34	-	0.10	<.01	5	0.012	"
14165	76.7	78.2	0.38	-	0.10	<.01	5	0.011	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14166	78.2	79.7	0.30	-	0.10	<.01	5	0.006	Bethlehem:
14167	79.7	81.2	0.19	-	0.10	<.01	5	0.002	"
14168	81.2	82.7	0.35	-	0.10	<.01	5	0.005	"
14169	82.7	84.2	0.22	-	0.10	<.01	5	0.016	"
14170	84.2	85.7	0.26	-	0.10	<.01	5	0.005	fault zone
14171	85.7	87.2	0.36	-	0.10	<.01	5	0.005	"
14172	87.2	88.7	0.37	-	0.20	0.01	5	0.023	Guichon:
14173	88.7	90.2	0.17	-	0.10	<.01	5	0.034	fault zone
14174	90.2	91.7	0.18	-	0.20	0.01	5	0.004	"
14175	91.7	93.2	0.15	-	0.10	<.01	5	0.009	"
14176	93.2	94.7	0.18	-	0.10	<.01	5	<.001	"
14177	94.7	96.2	0.27	-	0.20	0.01	5	0.005	Guichon (Hybrid?):
14178	96.2	97.7	0.13	-	0.10	<.01	5	0.001	"
14179	97.7	99.2	0.25	-	0.10	<.01	5	0.003	"
14180	99.2	100.7	0.21	-	0.10	<.01	5	0.004	Guichon Hybrid:
14181	100.7	102.2	0.22	-	0.10	<.01	5	0.001	"
14182	102.2	103.7	0.33	-	0.10	<.01	5	0.005	"
14183	103.7	105.2	0.23	-	0.10	<.01	5	0.001	"
14184	105.2	106.7	0.30	-	0.10	<.01	5	0.008	"
14185	106.7	108.2	0.29	-	0.10	<.01	5	0.001	"
14186	108.2	109.7	0.37	-	0.10	<.01	5	0.004	"
14187	109.7	111.2	0.39	-	0.10	<.01	5	0.005	"
14188	111.2	112.7	0.30	-	0.10	<.01	5	0.004	wk fault zone
14189	112.7	114.2	0.47	-	0.50	0.02	5	0.004	"
14190	114.2	115.7	0.39	-	0.30	0.01	5	0.002	"
14191	115.7	117.2	0.32	-	0.10	<.01	5	0.017	"
14192	117.2	118.7	0.39	-	0.20	0.01	5	0.003	"
14193	118.7	120.2	0.64	-	0.20	0.01	5	0.017	Guichon:
14194	120.2	121.7	0.87	-	0.20	0.01	5	0.017	"
14195	121.7	123.2	0.69	-	0.20	0.01	5	0.01	"
14196	123.2	124.7	0.36	-	0.10	<.01	5	0.008	Porphyry:
14197	124.7	126.2	0.36	-	0.10	<.01	5	0.002	Guichon:
14198	126.2	127.7	0.60	-	0.10	<.01	5	0.012	"
14199	127.7	129.2	0.78	-	0.10	<.01	25	0.017	Guichon Hybrid:
14200	129.2	130.7	0.59	-	0.10	<.01	10	0.004	"
14201	130.7	132.2	0.55	-	0.10	<.01	5	0.019	"
14202	132.2	133.7	0.42	-	0.10	<.01	10	<.001	"
14203	133.7	135.2	0.49	-	0.10	<.01	5	0.074	"
14204	135.2	136.7	0.43	-	0.10	<.01	5	0.011	"
14205	136.7	138.2	0.39	-	0.10	<.01	5	0.012	"
14206	138.2	139.7	0.42	-	0.10	<.01	5	0.012	wk fault zone
14207	139.7	141.2	0.27	-	0.10	<.01	5	0.005	"
14208	141.2	142.7	0.45	-	0.10	<.01	5	0.007	"
14209	142.7	144.2	0.30	-	0.10	<.01	5	0.001	Guichon:
14210	144.2	145.7	0.56	-	0.10	<.01	10	0.005	wk fault zone
14211	145.7	147.2	0.42	-	0.10	<.01	5	0.005	"
14212	147.2	148.7	0.35	-	0.10	<.01	5	0.007	fault zone

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14213	148.7	150.2	0.30	-	0.10	<.01	5	0.016	Guichon:
14214	150.2	151.7	0.34	-	0.10	<.01	5	0.01	"
14215	151.7	153.2	0.61	-	0.10	<.01	5	0.007	Guichon (Hybrid?):
14216	153.2	154.7	0.45	-	0.20	0.01	5	0.004	"
14217	154.7	156.2	0.44	-	0.10	<.01	5	0.002	Guichon:
14218	156.2	157.7	0.38	-	0.10	<.01	5	0.079	"
14219	157.7	159.2	0.38	-	0.10	<.01	5	0.004	"
14220	159.2	160.7	0.52	-	0.10	<.01	5	0.003	"
14221	160.7	162.2	0.36	-	0.10	<.01	5	0.001	"
14222	162.2	163.7	0.44	-	0.10	<.01	5	0.003	"
14223	163.7	165.2	0.46	-	0.10	<.01	5	0.007	"
14224	165.2	166.7	0.34	-	0.10	<.01	5	0.002	"
14225	166.7	168.2	0.38	-	0.10	<.01	5	0.001	wk fault zone
14226	168.2	169.7	0.32	-	0.10	<.01	5	0.001	"
14227	169.7	171.2	0.25	-	0.10	<.01	5	0.002	Guichon (Hybrid?):
14228	171.2	172.7	0.40	-	0.10	<.01	5	0.001	fault zone
14229	172.7	174.2	0.31	-	0.10	<.01	5	0.003	"
14230	174.2	175.7	0.59	-	0.10	<.01	10	0.002	Guichon:
14231	175.7	177.2	0.41	-	0.20	0.01	5	0.013	wk fault zone
14232	177.2	178.7	0.32	-	0.10	<.01	5	0.006	"
14233	178.7	180.2	0.47	-	0.20	0.01	5	0.023	wk fault zone
14234	180.2	181.7	0.39	-	0.10	<.01	5	0.008	"
14235	181.7	183.2	0.44	-	0.10	<.01	5	0.007	wk fault zone
14236	183.2	184.7	0.48	-	0.20	0.01	10	0.016	Porphyry:
14237	184.7	186.2	0.16	-	0.10	<.01	5	0.006	fault zone
14238	186.2	187.7	0.13	-	0.10	<.01	5	0.047	"
14239	187.7	189.2	0.17	-	0.10	<.01	5	0.007	"
14240	189.2	190.7	0.39	-	0.10	<.01	5	0.06	"
14241	190.7	192.2	0.33	-	0.20	0.01	5	0.002	"
14242	192.2	193.7	0.41	-	0.30	0.01	10	0.004	"
14243	193.7	195.2	0.52	-	0.20	0.01	5	0.001	"
14244	195.2	196.7	0.53	-	0.70	0.02	10	0.002	"
14245	196.7	198.2	0.27	-	0.10	<.01	5	0.001	"
14246	198.2	199.7	0.37	-	0.10	<.01	5	0.001	"
14247	199.7	201.2	0.35	-	0.10	<.01	10	0.005	"
14248	201.2	202.7	0.54	-	1.30	0.04	10	0.005	"
14249	202.7	204.2	0.25	-	0.40	0.01	5	0.006	"
14250	204.2	205.7	0.24	-	0.10	<.01	5	0.008	"
14251	205.7	207.2	0.43	-	0.20	0.01	5	0.002	"
14252	207.2	208.7	0.33	-	0.30	0.01	5	0.001	"
14253	208.7	210.2	0.5	-	0.90	0.03	10	0.007	"
14254	210.2	211.7	0.31	-	0.20	0.01	5	0.001	"
14255	211.7	213.2	0.32	-	0.20	0.01	5	0.001	"
14256	213.2	214.7	0.44	-	1.00	0.03	5	0.006	"
14257	214.7	216.2	0.44	-	0.40	0.01	5	0.004	"
14258	216.2	217.7	0.5	-	0.90	0.03	5	0.002	"
14259	217.7	219.2	0.65	-	0.30	0.01	5	0.001	"

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Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14260	219.2	220.7	0.62	-	0.60	0.02	5	0.014	"
14261	220.7	222.2	0.49	-	1.20	0.04	5	0.001	"
14262	222.2	223.7	0.41	-	1.60	0.05	5	0.001	"
14263	223.7	225.2	0.57	-	1.50	0.04	5	0.001	"
14264	225.2	226.7	0.32	-	0.60	0.02	5	0.003	"
14265	226.7	228.2	0.43	-	0.30	0.01	5	0.005	"
14266	228.2	229.7	0.35	-	0.20	0.01	5	0.001	"
14267	229.7	231.2	0.43	-	0.40	0.01	5	0.002	"
14268	231.2	232.7	0.46	-	0.50	0.02	5	<.001	"
14269	232.7	234.2	0.55	-	1.50	0.04	5	0.001	"
14270	234.2	235.7	0.62	-	0.30	0.01	5	0.003	"
14271	235.7	237.2	0.84	-	1.40	0.04	5	0.001	"
14272	237.2	238.7	0.75	-	2.10	0.06	5	0.002	"
14273	238.7	240.2	0.67	-	1.90	0.06	5	<.001	"
14274	240.2	241.7	0.48	-	1.10	0.03	5	<.001	"
14275	241.7	243.2	0.84	-	1.20	0.04	5	0.001	"
14276	243.2	244.7	0.46	-	0.70	0.02	5	<.001	"
14277	244.7	246.2	0.73	-	1.70	0.05	10	0.001	"
14278	246.2	247.7	0.42	-	0.60	0.02	5	0.001	"
14279	247.7	249.2	0.51	-	0.80	0.02	5	0.001	"
14280	249.2	250.7	0.32	-	0.90	0.03	10	<.001	"
14281	250.7	252.2	0.46	-	1.00	0.03	5	<.001	"
14282	252.2	253.0	0.78	-	1.40	0.04	10	0.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
Relogging compete																			
DDH # 95-28		Date		16-Nov		Mar 4/96 by W. Verne Niessen				Logged by		PM							
Elevation	not surveyed	Azimuth		-						Northing:		not surveyed in							
Inclination	-90°	Length		384.0 m						Easting:		not surveyed in							
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.				
9.1-13.3	Guichon	-	stng/shatt	chlr, ser	chlr banding 12.9 m	-	hem/jar Mn	-	ep	chlr (ep) loc sil?	chlr, ser	-	-	-	-	wk	***Nail test: H ₂ SO ₄ positive		
13.3-16.7	Guichon	1 cm at 13.5 m, clay	shatt/bkn	chlr, ser	(chlr healed fract)	-	hem/jar Mn	-	(ep)	chlr ser	chlr	-	(chrys)	-	-	wk/ mod	***Nail test: H ₂ SO ₄ positive		
16.7-20.1	Guichon fault	at 16.8, 18.3 & 18.9 m clay	shatt/stng bkn	chlr, ser, (carb)	(chlr healed vnits)	loc hem	hem/jar Mn	-	(ep)	(ep) chlr ser (carb)	-	-	-	-	-	wk	Increase in chlr intensity		
20.1-22.6	Guichon	-	shatt	chlr, ser, (cly)	-	(hem) (loc cly)	hem/jar	-	patchy alb (ep)	(ep) chlr ser	-	-	chrys	-	-	wk	Chlr and qtz healed dis bx at 21.8 m with chrys. Check for clays		
22.6-23.6	Guichon	-	mod	chlr, ser	chlr & ser healed fract	-	(loc hem) (Mn), jar	-	-	chlr ser	-	-	-	-	-	wk	Chlr and ser healed fract with chlr-hem alteration envelopes		
23.6-26.5	Guichon	10 cm at 29.3 m	shatt	chlr, ser, carb (cly)	-	-	(Mn), Fe	-	(alb) (chlr)	chlr ser carb	-	-	-	-	-	wk	Weak biotite into chlr.		
26.5-33.3	Guichon	3 cm at 32.8 m	mod/stng	chlr, ser, carb (cly)	-	-	Fe, Mn	-	(loc ep) (alb) (chlr)	(ep) chlr ser carb (cly)	-	-	(NCu)	(NCu)	-	wk	Ep generally associated with fract. Xenolith at 32.1-32.6 m. Weak biotite into chlr.		
33.3-38.0	Guichon	4 cm at 37m	mod	chlr, (ser) (carb)	chlr healed	-	Fe	-	ep loc chlr	(ep) chlr (ser) (carb)	-	-	(pyr)	(pyr)	-	wk	2 cm specular hematite at 36.8 m at 40° C.A. Ep associated with fract.		
38.0-40.6	Porphyry	-	stng	ser	-	-	Fe	-	tr ep alb	ser	-	-	(cpy) (pyr)	-	-	-	Porphyry contains rounded clast of Guichon and Porphyry. intrusion breccia with fine grained grey porphyritic matrix.		
40.6-44.5	Guichon	-	stng	chlr, carb, ser	-	-	(Fe)	-	loc tr ep loc chlr (alb)	chlr carb ser loc qtz	-	-	-	(pyr)	-	wk	Chlr-qtz haelad crush zone 43.6 and 44.0 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
44.5-50.1	Guichon	-	stng/loc crush	chl _r , ser (carb)	(chl _r -ser healed fract)	-	Fe	-	(alb) (chl _r) ser	chl _r ser arb	-	-	-	tr NCu (NCu)	wk/ mod	NCu may be occurring as secondary. Found mainly on fract surfaces with chl _r and ser alteration. Fe stain may mask NCu. Biotite into chl _r .		
50.1-51.8	Guichon/ Porphyry contact & fault	5 cm at 51.5 m at 30° C.A.	loc shatt	chl _r , ser, carb cly	carb frag	(Fe)	Fe	-	ser chl _r	chl _r ser carb cly	-	-	(NCu)	-	-	Fault has very strong ser alteration for ~ 0.5 m both sides. Contact ~ 51.5 m.		
51.8-56.5	Qtz-feldspar Porphyry	2 cm at 52.8 m 3 cm at 55.3 m	shatt/crushed	cly, ser, chl _r carb	carb frag	-	Fe	-	chl _r ser	cly ser carb chl _r	-	-	-	pyr	wk	Porphyry-grey with mafics up to 4 mm, sparse. Melt contact noted at 20° C.A. Feldspar ghost-like. Fine grained grey groundmass		
56.5-58.6	Guichon	-	ckle-crushed	ser, chl _r , (cly)	-	-	Fe	-	(ser) (chl _r)	ser chl _r (cly)	-	hem	(NCu) (pyr)	(NCu)	wk	NCu dendritic on fractures. Several 1-2 cm pink porphyritic dykelet. Chl _r after biotite.		
58.6-62.7	Guichon	2 cm at 62.6 m	ckle-crushed	ser, chl _r , (cly)	(carb >0.5 cm ~ 50° C.A.	-	Fe	-	(ser) alb (chl _r)	ser chl _r (cly)	-	-	(NCu)	(NCu)	-	NCu found in ser in fract.		
62.7-66.3	Guichon	-	stng/loc crush	chl _r , ser (carb)(cly)	Fe healed fract	loc Fe	Fe	-	(ser) (chl _r) alb	chl _r ser (carb) (cly)	-	-	(NCu)	(NCu)	-	Fe healed fract with ser and chl _r envelopes.		
66.3-70.1	Guichon	1 cm at 68.1 m	stng	chl _r , ser (carb) (cly)	Fe healed? fract	-	jar	-	(ser) (chl _r) (alb)	chl _r ser (carb) (cly)	-	hem	(pyr)	(pyr)	wk	? healed fracture with ser and chl _r envelopes Fe-oxide in qtz veinlets.		
70.1-73.8	Guichon	3 cm at 73.4 m	mod	chl _r , ser, (cly) (carb)	3 cm crush zone 70.6 m	-	jar	-	(ser) chl _r (cly?) (loc alb)	chl _r ser (cly) (carb)	-	-	(pyr)	pyr	wk	Crush zone 70.6 m healed with qtz and chl _r 1-2% pyr.		
73.8-75.1	Guichon/ Porphyry contact (gradational)	15 cm at 74.8 m	ckle	ser (chl _r), cly	-	-	jar	-	(ser) chl _r (ep)	(ep) ser (chl _r) cly	-	-	pyr	pyr	tr/wk	Guichon/Porphyry contact 75.0 m		
75.1-77.2	Porphyry D3 grey-brown (Bethlehem)	5 cm at 76.1 m	bkn/ckle	ser (chl _r) (cly)	(pyr healed vnltts) <0.5 cm	hem	jar coatings	-	ser cly (chl _r)	ser (chl _r) (cly)	-	-	(pyr)	pyr	-	Local pyr on fractures. Chloritized mafic clots contain pyr. Plagioclase weakly cly altered. Weakly developed bleached alteration envelopes on fractures and veinlets.		

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
77.2-80.0	Porphyry D3 grey-brown (Bethlehem)		bkn/shatt	ser, (carb) (chlr)	(pyr vnlt) 1-2 mm		jar coatings		(chlr) ser (cly?)	ser (carb) (chlr) (ep)	(ep)		(hem)	(pyr)	pyr	tr	Probably D3 Porphyry, though more brownish and less crowded than usually seen. 0.5-1 cm bleached envelopes on veinlets and fractures	
80.0-83.6	Porphyry D3 grey/grey-pink (Bethlehem)		bkn/shatt	ser (carb) (chlr)	pyr vnlt 1-2 mm wk stkwk		jar coatings		(carb) (chlr) ser (cly?)	ser (chlr) (carb)	(ep)		(hem)	(pyr)	(pyr)	tr	Jar after pyr on fractures. Pyr veinlets and pyr healed fractures with moderately developed bleached envelopes to ~ 1 cm; frequently Fe stained.	
83.6-86.6	Porphyry grey D3 (Bethlehem)		bkn/shatt	ser, (chlr) (carb)	wk stkwk		jar coatings		ser (chlr) (cly) (carb)	ser (chlr) (carb)	(ep)		(hem)	(pyr)	(pyr)	tr	Healed fracts with ser and chlr envelopes. Most pyr oxidized to jar. Well developed bleached (qtz/ser) alteration envelopes. 0.5-1.5 cm on veinlets and fractures. Overall alteration intensity increas-	
86.6-90.2	Porphyry D3 grey/grey-pink (Bethlehem)	1 cm at 86.7 m	stng/bkn	ser, (chlr) carb	pyr healed fracts; qtz/ pyr stkwk		loc jar coatings		(ser) (chlr)	ser (chlr) carb	(ep)			(pyr)	pyr	-	ing. Occasional chlr selvage on alteration envelope. Pyr healed fract with ser alteration envelopes. Well developed bleached siliceous envelopes 1-2 cm on pyr veinlets and healed fractures. Becoming much more crowded with distinctly more pinkish groundmass (probably K-spar--not hem).	
90.2-93.7	Pophyry D3		stng/bkn	ser, (chlr)	(pyr healed fracts)		jar coatings		(ser) (chlr) (cly?)	ser (chlr)	(ep)			(pyr)	pyr	tr	Pyr healed fract with ser/qtz alteration envelopes. Some textural variation; locally more fine grained and crowded. Discrete chlr alteration of mafics as seen above.	
93.7-97.1	Pophyry D3		stng/bkn	ser (chlr) (carb)	(pyr healed fracts)				(ser) (chlr)	(ser) (chlr)	(ep)			(pyr)	(pyr)	-	Becoming more grey with depth. Overall fracture and alteration intensity decreasing.	
97.1-100.4	Porphyry D3 grey/pink grey		stng/bkn	ser (chlr), carb	(pyr healed fracts) (pyr vnlt 1-2 mm)				(ser) (carb) loc cly	ser carb (chlr) qtz	(ep)			(pyr)	(pyr)	-	Pyr healed fract with ser/qtz alteration envelopes. Moderate to well developed siliceous alteration envelopes on healed fractures and veinlets.	
100.4-103.3	Porphyry D3 grey		stng/bkn	ser, (chlr) carb	(pyr healed fracts)				ser (carb) (loc chlr)	ser carb (chlr) qtz	(ep)			(pyr)	pyr	-	Overall alteration and fracture intensity decreasing; appears somewhat siliceous.	
103.3-107.1	Porphyry D3	some slip	stng/bkn	ser, (carb)	(pyr healed fract)				ser (carb) (chlr) (cly)	ser (carb)	(ep)			pyr	pyr	-	Phenos locally ghost-like. Alteration intensity increased sharply.	
107.1-110.5	Porphyry fault	109.6 & 110.0 m	stng/bkn loc crushed/ milled	ser, chlr (carb) cly	carb vnlt				chlr (ser) cly	ser chlr (carb)				pyr	pyr	-	Carb veinlets resemble stockwork. Dramatic increase in alteration intensity.	

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
110.5-114.5	Porphyry D3	111.9, 114.0 and 114.5 m	mod	ser, chlr, carb cly	carb stkwk	-	-	-	chlr ser carb cly	ser chlr carb cly	-	-	-	pyr	pyr	-	Stockwork has ser alteration envelopes. Strong chlr and ser alteration. Pyr ~ 1%	
114.5-118.9	Porphyry D3 fault zone	114.5- 117.1 m	mod/faulted	ser, chlr, (carb) cly	sulphide healed micro fract	-	-	-	ser chlr carb cly	ser chlr carb cly	-	-	-	pyr	pyr	-	Slip surfaces 25° C.A. at 116.0 and 117.1 m. Bleached sections. Pyr 0.5-1%	
118.9-123.1	Porphyry D3	loc	mod/loc crush	ser,(chlr) cly, carb.	-	-	-	-	ser (chlr) carb cly	ser (chlr) carb cly	-	-	-	pyr	pyr	-	Bleached sections	
123.1-126.4	Porphyry D3	3 cm at 126.3 m	crushed	ser (chlr) carb	carb vnits	-	-	-	ser (chlr) carb cly	ser (chlr) carb cly	-	-	-	pyr	pyr	-		
126.4-129.6	Porphyry D3	-	stng/bkn	ser, (chlr) carb	-	-	-	-	ser (chlr) carb cly	ser (chlr) carb cly	-	-	-	pyr	pyr	-	Intense ser with lesser chlr. Pervasive cly alteration. Complete feldspar destruction.	
129.6-133.6	Porphyry D3	-	bkn/shatt	ser, carb (chlr)	-	-	-	-	ser (chlr) carb cly	ser (chlr) carb cly	-	-	-	pyr (cpy)	pyr	-	Carb healed crush zone 132.0 m about 5 cm. Pyr ~ 3-4%	
133.6-137.0	Porphyry D3	-	stng/loc crushed	(chlr) ser carb	pyr/qtz vnits	tr hem	-	-	(chlr) ser carb cly	(chlr) ser carb cly	-	-	-	pyr	pyr	tr	Microfracts have ser/qtz alteration envelopes > 0.5cm. Carb vein >0.5 cm at 40° C.A at 134.2 m, cross cutting healed sulphide fract.	
137.0-140.7	Porphyry D3	-	stng/bkn	(chlr) (ser) (cly) carb	microfract healed w/ ser, carb Sx wk qtz/pyr stkwk	tr hem	-	-	(chlr) ser carb tr ep	(chlr) (ser) carb (cly)	-	-	-	pyr	pyr (cpy)	tr	Pyr>>>cpy. Pyr ~2%. Cpy in hairline veinlets - separated event from pyr.	
140.7-144.8	Porphyry D3	1 cm at 144.1 m	mod/shatt	(chlr) carb ser	carb vnits sulphide vnits wk qtz/pyr stkwk	-	-	-	(chlr) carb ser sil?	(chlr) carb ser	-	-	-	pyr	pyr	tr	Pyr 2-3%	
144.8-148.3	Porphyry D3	-	bkn/shatt shatt	(chlr) ser carb	sulphide vnits	-	-	-	chlr (ser) sil? (carb)	(chlr) ser carb	-	-	-	pyr tr cpy	pyr	tr	Chlr intensity increasing. Pyr>>>cpy. Weakly developed sericitic alteration envelope 0.5-1 cm Pyr 2%. Overall alteration intensity decreasing.	

ROCK TYPE		FAULT GOUGE	STRUCTURE			STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)			FRACATURE INTENSITY	FRACATURE SURFACES	VEINING	perv.	fract.	weath.	hydrothermal		deuteric	supergene		primary			
								perv.	fract.		perv	fract	perv	fract			
148.3-150.7	Porphyry D3		stng/bkn	carb. (ser) (chl'r)	sulphide vnlt's				tr ep chl'r sil? loc ser	carb ser (chl'r)			tr pyr pyr (cpy)		tr	Sulphide veinlets with ser alteration envelopes 0.5-1 cm. Pyr and cpy on smae fractures at ~ 30° C.A. Easily recognizable as D3 Porphyry Pyr ~ 2%	
150.7-153.3	Porphyry D3		stng/bkn	carb. (ser) (chl'r)	sulphide vnlt's	(hem)			chl'r sil? ser	carb (ser) (chl'r)			(pyr) pyr (cpy)		tr	Pyr>cpy. Increase in alteration envelopes intensity prominent, sets at 30-40o C.A. Pyr 2-3%	
153.3-156.8	Porphyry D3		stng/bkn (dis bx)	carb. ser cly	sulphide vnlt's	(hem)			(chl'r) sil? ser carb	carb ser (cly)			(pyr) cpy cpy			Pyr~cpy locally. Pyr ~2%. Well developed siliceous alteration envelopes on veinlets and fractures.	
156.8-159.5	Porphyry D3		bkn/shatt	carb. (ser) cly	sulphide vnlt's carb vn frag	hem?			ser sil (chl'r) (cly) carb	carb (ser) cly			(cpy) pyr pyr		tr	Previously heated dislocation breccia. Pyr>cpy	
159.5-162.4	Porphyry Fp-1		stng	carb. (ser)	aplite dykelet at 40° C.A. 1 cm at 161.3 m qtz vnlt's to 1 cm	hem			ser (chl'r) K-sp? sil	carb (ser)			(pyr) cpy pyr			Pyr and cpy in qtz veinlets. Pyr 1-2%. Microfracts healed with sulphides, carb, ser, some with ser, qtz alteration envelopes. Check for K-spar. Not sure which porphyry this is; has some coarser granitic characteristics, but not Guichon	
162.4-165.3	Porphyry Fp-1		bkn/loc shatt	carb. (ser)	aplite dyke fract at 164.3 m	hem			ser alb K-sp? sil (loc chl'r)	carb (ser)			(pyr) pyr (cpy)			Pyr>cpy. Bleached section near bottom of interval. Bleached hem stained alteration envelopes on qtz veinlets. Generally quite siliceous; is this original or introduced??	
165.3-169.1	Porphyry Fp-1		fault gge and dis bx	(chl'r) carb ser, cly	carb vn frag qtz stkwk		(loc hem)		(chl'r) ser carb sil alb	(chl'r) carb ser cly	(hem)		(pyr) cpy cpy			Pyr~cpy. Qtz stockwork, locally qtz flooded. Intensely altered and fractured. Pyr ~ 1%	
169.1-172.5	Porphyry D3	1 cm at 170.9 m	bkn/shatt	(chl'r), ser carb	carb & sulphide vn & vnlt frag		(loc hem)		(chl'r) carb ser	(chl'r) carb ser			(pyr) cpy cpy			Sudden increase in ser intensity. Probably D3 porphyry dyke. Much more fine grained than that above or below, less qtz, much more sericitic. Local cpy veinlets 3-4 mm. Pyr 1%	
172.5-176.6	Porphyry Fp-1	1 cm < at 174.8 m at 20° C.A.	stng	ser, carb (cly) (chl'r)	wk qtz/pyr stkwk	hem stn alb			ser (chl'r) alb K-sp? sil	(chl'r) ser carb (cly)			cpy (pyr)			Check for K-spar. Well developed siliceous alteration envelopes on fractures and 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.			
176.6-180.2	Porphyry Fp-1		stng/bkn	ser, carb (chlr)	wk qtz stkwk carb vn at 10° C.A. at 178.8 m				ser (chlr)	ser carb (chlr)			cpy (pyr)	pyr (cpy)			Pyr 1-2%
180.2-183.7	Porphyry Fp-1		mod/shatt	ser, carb (chlr)	ser at 180.3 m qtz at 80° C.A. at 181.6 m	hem			ser (chlr)	ser carb (chlr)			cpy (pyr)	pyr (mo) (cpy)			Sections may be healed dislocation breccia. Strong pyr on fractures at 0° C.A. Locally closely spaced (1-2 cm) pyr veinlets and healed fractures at 50-60° C.A.
183.7-188.0	Porphyry Fp-1		mod	ser, (carb)	qtz at 40° C.A. at 184.5 m qtz vnits w/cpy	hem			K-sp? ser (carb)	ser (carb)			cpy tr mo	cpy pyr (mo)	tr		Qtz vein carrying MoS ₂ . Best showing of MoS ₂ in this hole so far. Strong cpy in veinlets and fractures at 0 and 30° C.A. Cpy>pyr. Possible qtz flooded.
188.0-191.9	Porphyry Fp-1 fault	190.4- 191.1 m at 10° C.A.	mod/stng	(cly) ser (carb) chlr	aplite at 40° C.A. <2 cm microvnits	hem			K-sp? ser (carb) chlr (cly) alb (chlr) loc sil	ser (carb) (cly) (chlr)			(cpy) (pyr)	(pyr) (cpy)	tr		Pyr>cpy. Very strong chlr on both sides of gouge
191.9-196.7	Porphyry Fp-1		mod/sntg	ser, carb (chlr)	qtz at 75° C.A. <2 cm at 193.3, 193.7, 196.6 m.	hem			K-sp? alb ser (chlr) loc sil	ser carb (chlr)	(loc hem)		(cpy) (pyr)	(pyr) (cpy) tr mo			Qtz vein laminated with cpy and mo. Persistent qtz veinlets with pyr and cpy at 40o C.A., parallel to subparallel. 1-2% cpy. 0.5-1% pyr.
196.7-199.7	Porphyry Fp-1		stng	ser, carb (chlr)	qtz at 40° C.A. >2 cm at 198.3 m wk qtz stkwk	(hem)			(K-sp) alb ser loc sil	ser carb (chlr)			(cpy) (pyr)	cpy (pyr) tr mo (loc chalc)			Qtz vein as in previous interval. Cpy with peacock bloom--weak. Microfract healed with qtz carrying cpy and mo. Some open spaces in fractures and veinlets
199.7-203.7	Porphyry Fp-1	0.5 cm at 203.7 m at 10° C.A.	stng	ser, chlr (carb) (cly)	carb 0.5 cm at 30° C.A. at 201.1 m				(alb) chlr ser (carb)	ser chlr (carb) (cly)			cpy (pyr)	(cpy) (pyr) tr mo			Microfract healed with qtz, ser and carb carrying cpy and trace mo. Healed crush zone 202.4- 203.4 m--? Chlr increasing with depth.
203.7-208.0	Porphyry Fp-1	0.5 cm at 203.7 m at 10° C.A.	wk/mod	carb, ser chlr, (cly)	aplite dyke 20° C.A. at 207.2 m < 2 cm wk qtz stkwk	(hem)			alb (chlr) ser (K-sp?) (carb) sil	carb ser clr (cly)			(cpy)	(cpy) tr mo			Carb in gouge. 203.7-205.4 m healed crush zone. strongly siliceous - original ? or hydrothermal. Probably hydrothermal. Numerous qtz/cpy veinlets at 30o C.A., occasionally crosscutting.

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.
208.0-211.7	Porphyry Fp-1		stng	ser, carb (chlr)	qtz at 50° C.A. < 1 cm	(loc hem)			(K-sp?) alb? ser sil	ser carb (chlr) sil		(loc hem)		(cpy) (pyr)	cpy tr mo	Qtz vein carrying MoS ₂ . Microfract with ser and qtz alteration envelopes > 1 cm. Cpy>pyr. General sheeted <u>qtz</u> veinlets at ~ 30-50° C.A.		
211.7-215.0	Porphyry contact Porphyry- Porphyry 214.6 m		stng	carb, ser (chlr)	aplite dyke frag at 211.8 & 216.9 m wk <u>qtz</u> stkwk	(loc hem)			loc alb? ser (chlr) sil	carb ser (chlr) sil				(cpy)	(cpy)	Chlr healed crush bands 213.9 m. Porphyry- Porphyry contact?~214.6 m. Sheeted <u>qtz</u> veinlets at ~ 30-50° C.A. with cpy.		
215.0-219.0	Porphyry Fp-1		stng	carb, ser (chlr)	qtz stkwk	(hem)			sil ser (chlr) (carb)	carb ser (chlr) sil				cpy (pyr) (loc chalc)	(cpy) (pyr) (mo)	Cpy>pyr. 214.6-215.8 possibly a healed gouge zone: ser, chlr, carb carrying cpy and chalc. <u>Qtz</u> flooded. Strong disseminated cpy in siliceous alteration envelopes and qtz veinlets. Bleached sil alteration envelope to 2 cm.		
219.0-222.3	Porphyry Fp-1		stng	carb, ser, chlr	wk <u>qtz</u> - stkwk- sheeted	(hem)			ser (chlr) (sil)	carb ser chlr				cpy pyr	(cpy)	Cpy>pyr. slightly more mafic Fp-1; locally resembles Guichon Quartz Diorite.		
222.3-225.8	Porphyry Fp-1	loc 224.7 m ~ 25° C.A.	mod/stng, loc ckle	carb, ser, chlr (loc serp) (loc cly)	wk aplite dykelets, mod/stng <u>qtz</u> vnits w/ pyr & cpy	patchy hem stn alb			(carb) patchy ser loc chlr alb (bio)	carb ser chlr (loc serp)	chlr			cpy (pyr)	cpy pyr (mo)	Cpy~pyr. Overall moderate to strong fracture controlled pervasive alteration. Moderate to strong ser alteration envelopes on <u>qtz</u> veinlets with pyr and cpy. Locally resembles Guichon quartz diorite where more mafic; usually biotite.		
225.8-229.4	Porphyry Fp-1	loc thin	stng set at 40-50° C.A. mod/stng, loc ckle/bkn	chlr, ser, (carb) (qtz)	wk <u>qtz</u> vnits num <u>qtz</u> /chlr heal'd fracts w/ pyr+cpy	(patchy hem stn alb)			patchy ser (loc chlr alb (bio)	chlr ser (carb) (qtz)	chlr			pyr cpy	cpy pyr (mo)	Bleached/grey aplite? dykelets and fragments. 228.6-229.4 m. cpy >> pyr.		
229.4-233.1	Porphyry Fp-1		wk/mod, stng set at 40-50° C.A.	chlr, ser, (carb) (qtz)	wk/mod <u>qtz</u> vnits, num <u>qtz</u> /chlr heal'd fracts w/cpy+pyr	(patchy hem stn ser & alb)			patchy alb loc chlr patchy ser (loc carb)	chlr ser (carb) (qtz)	chlr			pyr cpy	cpy pyr (mo)	Pervasive chlr/ser alteration increasing with depth. Consistent, closely spaced (1-5 cm) parallel to sup-parallel fracture set at 40-50° C.A. Local strong chlr/ser alteration envelopes on veinlets and healed fracts.		
233.1-236.7	Porphyry Fp-1	loc 233.5 m ~ 45° C.A.	stng/ckle, loc bkn/shatt	chlr, ser, carb (loc cly)	wk/mod <u>qtz</u> vnits + frags abd <u>qtz</u> /chlr heal'd fracts w/pyr + cpy wk irreg carb vnits	loc hem stn alb			alb loc chlr loc ser (loc carb)	chlr ser carb (loc cly)				pyr patchy cpy	cpy pyr (mo)	Strong ser alteration envelopes on veinlets and fractures. Texture and alteration in top 2 m suggests possible chlr/alb healed crush/shear zone with local <u>qtz</u> impregnation.		

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
236.7-240.9	Porphyry Fp-1	some slip	wk/mod	ser, carb, chl vnlts, abd (loc cly)	wk/mod qtz vnlts, abd qtz/chlr heal'd fract w/pyr+cpy	-	-	-	patchy ep alb	ser carb chl	chl	-	-	(pyr) (cpy)	pyr cpy (mo)	wk	Strong healed fracture set at 40-50° C.A. Alteration envelopes weaker than previous intervals. Overall alteration intensity decreases suddenly. Quite pink groundmass at bottom.	
240.9-244.8	Porphyry Fp-1	-	mod/stng, loc bkn/shatt	ser, carb, chl	abd qtz/chlr heal'd fract w/pyr+cpy	-	-	-	patchy ser (loc chl loc alb	(loc ep) ser chl carb	chl (ep)	-	-	(pyr) (cpy)	pyr cpy tr mo	wk	Several intervals of slightly more K-spar rich phase (especially at bottom) with definite contacts—possibly contaminated Bethlehem apophyses?? Blue-green ser on fract and occasionally in weak alteration envelopes. Distinctly porphyritic throughout.	
244.8-249.1	Porphyry Fp-1	-	wk/mod	ser, carb, chl	wk qtz vnlts abd qtz/chlr heal'd fract w/pyr+cpy	(loc hem stn alb)	-	-	(ser) (loc alb)	ser carb chl	chl (ep)	-	-	(pyr) (cpy)	pyr cpy	wk/ mod	Weak local foliation. Several intervals of more K-spar rich phase with definite contacts. Stain for K-spar. Strong healed fracture sets at 40-50° C.A. Slight variation in grain size. Chlr after bio.	
249.1-252.9	Porphyry Fp-1 wk fault zone	251.8- 252.4 m, suspect some lost	mod/stng, loc bkn/shatt	ser, carb, chl loc cly	num qtz/chlr heal'd fract w/pyr+cpy wk qtz vnlts	loc hem stn alb	(loc hem stn carb)	-	(loc ep) patchy alb (ser)	ser chl carb loc cly	chl (ep)	-	-	(pyr) (cpy)	pyr cpy tr mo	loc wk/ mod	Moderate to strong healed fracture sets at 40-50° C.A. Pyr ~ 1%	
252.9-256.3	Porphyry Fp-1	loc thin	mod/stng loc bkn/shatt	ser, carb, chl loc cly	wk qtz vnlts num chl/pyr heal'd fract	patchy hem stn alb	-	-	patchy alb patchy ser	ser carb chl loc cly	chl ser	-	-	(pyr)	pyr (cpy)	mod	Patchy blue-green ser on fract and locally pervasive. Pyr 1-1.5%. Pyr >> cpy	
256.3-260.5	Porphyry Fp-1	-	wk/mod	ser, carb, chl (qtz)	wk qtz vnlts num chl/ sulphide heal'd fract	(loc hem stn alb)	(loc hem stn ser & carb)	-	patchy ser loc alb (patchy ep)	ser carb chl (qtz)	chl ser	-	-	(pyr) (cpy)	pyr (cpy) (mo)	wk/ mod	Several grey (porphyritic??) xenoliths. Blue-green ser on fract and locally disseminated.	
260.5-264.0	Porphyry Fp-1	loc thin	wk/mod, loc shatt	ser, carb, chl	wk qtz vnlts num qtz/chlr /pyr healed fract	-	loc hem stn carb	-	patchy ser (loc alb)	ser carb chl	chl ser	-	-	(pyr)	pyr (cpy)	mod/ stng	Healed fract set at 40-50° C.A. becoming more widely spaced: 2-10 cm. Pyr 1-2%	
264.0-268.3	Porphyry Fp-1	-	wk	ser, carb, chl (qtz)	wk/mod qtz/chlr/pyr heal'd fract	(loc hem stn alb)	-	-	loc alb (patchy ser)	ser carb chl (qtz)	chl (ser) (ep)	-	-	(pyr) (cpy)	pyr cpy tr chalc	mod/ stng	Local strong pyr/cpy with trace chalc in qtz/alb healed rush zone 266.7 m. Healed fract spacing continues to increase. Pyr 2%. Weak chl after biotite.	
268.3-272.7	Porphyry Fp-1	some slip	wk	ser, chl, carb	wk/mod qtz vnlts, num qtz/chlr/pyr heal'd fract	loc hem stn alb & ser	(loc hem stn ser)	-	loc chl loc alb loc ser	ser chl carb	chl (ser) (ep)	-	-	(pyr)	pyr cpy	mod/ stng	Pervasive chl/alb/ser alteration increasing with depth; strong at bottom. Pyr ~ 2%. Weak chl after biotite.	

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
272.7-276.6	Porphyry Fp-1	suspect some lost	wk, loc shatt	(loc serp), ser chl, carb (loc cly)	wk qtz vnits num qtz/chlr /pyr healed fracts	loc hem stn alb	loc hem stn qtz		loc alb patchy ep loc chl loc ser	(loc serp) ser chl carb (loc cly)	chl (ser)			(pyr)	pyr (cpy)	wk/ mod	Local strong pyr in fracts. Weak chl after biotite	
276.6-280.3	Porphyry Fp-1	loc thin and some slip	wk/mod, loc hsatt	ser, carb, chl	wk qtz vnits wk/mod qtz/ chl/pyr heal'd fracts	hem stn alb	(loc hem stn ser & carb)		(patchy ep) loc alb (loc chl)	ser carb chl (ep?)	chl (ser)			(pyr)	pyr (cpy)	wk/ mod	Weak chl after biotite.	
280.3-284.2	Porphyry Fp-1	loc thin and some slip	wk, loc mod	ser, chl, carb	wk qtz/chlr/ pyr healed fracts	patchy hem stn alb			patchy alb (loc chl) (patchy ser)	ser chl carb (ep)	chl (ser)			(pyr)	pyr	mod/ stng	Several pink aplite dykelets to 2.0 cm ~ 70° C.A. Slight grain size variation with local weak foliation Weak chl after biotite.	
284.2-288.5	Porphyry Fp-1		wk	ser, chl, carb	wk qtz/chlr/ pyr healed fracts, wk qtz vnits				(patchy ser) ser chl carb (ep)	chl (ser)				(pyr)	pyr (mo) (cpy)	mod	Overall alteration intensity decreasing. Weak chl after biotite.	
288.5-292.6	Porphyry Fp-1	some slip	wk, stng set at 40-50° C.A.	ser, chl, carb	abd qtz/chlr/ pyr healed fracts				ser	ser, chl carb	chl (ser)			(pyr)	pyr (loc cpy)	mod/ stng	Slight overall decrease in grain size with increase in mafics; weakly foliated. Sudden increase in healed fract intensity.	
292.6-296.5	Porphyry Fp-1	loc thin	wk	ser, chl, carb (qtz)	num qtz/chlr/ /pyr healed fracts & microfracts wk qtz vnits	(loc hem stn alb)	loc hem stn carb		loc alb loc chl loc ser loc carb	ser chl carb (qtz)	chl (ser)				pyr (loc cpy)	wk/ mod	Pervasive chl/alb/ser alteration increasing with depth.	
296.5-302.8	Porphyry Fp-1	suspect loss	mod/stng, loc shatt/crushed	(ser) chl carb, (qtz)	num qtz/chlr /pyr healed fracts	loc hem stn alb & ser	loc hem stn ser		patchy alb loc ser loc chl (loc carb)	(ser) chl carb (qtz)	chl (ser)				pyr (loc cpy)	wk/ mod	Several broken/crushed sections, significant core loss. Pyr>>cpy.	
302.8-306.5	Porphyry Fp-1		mod	ser, chl, carb (qtz)	wk carb vnits, num qtz/chlr/pyr heal'd fracts	(hem stn alb)			loc alb (loc chl) chl carb (qtz) ser	ser chl carb (ser)	chl (ep)			(pyr) (cpy)	pyr (cpy)	mod	Pyr>>cpy. Overall alteration intensity increasing Patchy fresh, black biotite in strong alb sections.	

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
306.5-310.5	Porphyry Fp-1	-	wk/mod	ser, chlr, carb (qtz)	wk/mod qtz/ chlr/pyr heal'd fracts wk qtz vnits	(loc hem stn alb)	-	-	alb	ser	chlr	-	-	(pyr) (cpy)	pyr loc cpy (mo)	wk	Phenos loc ghost-like. Patchy fresh black biotite Local strong cpy in fracts and qtz veinlets.	
310.5-314.2	Porphyry Fp-1	loc 312.1 m ~ 30° C.A.	wk, loc mod	ser, chlr, carb cly in gge	wk carb vnits and void filling, wk qtz vnits	loc hem stn alb	hem stn carb+ser	-	ser	ser	-	-	-	(pyr) (cpy)	-	wk	Strong increase in overall alteration intensity. Carb/qtz/alb? healed crush/bx zones with strong carb void filling.	
314.2-318.2	Porphyry Fp-1	-	wk/mod	ser, chlr, carb	wk/mod qtz/ chlr/pyr heal'd fracts	(loc hem stn ser & alb)	-	-	patchy ep alb	ser chlr carb	chlr	-	-	-	pyr tr cpy	wk	Partially assimilated xenolith. Weak to moderate ser alteration envelopes on veinlets and fracts.	
318.2-321.6	Porphyry Fp-1	-	wk/mod	ser, chlr, carb	wk qtz vnits num qtz/chlr /pyr healed fracts	-	(loc hem stn ser)	-	loc ser	ser	chlr (ep)	-	-	(pyr)	pyr	wk/ mod	Local weak foliated	
321.6-325.2	Porphyry Fp-1	-	wk/mod, loc bkn	ser, chlr, carb	wk qtz/chlr /pyr healed fracts	hem stn alb	-	-	loc chlr loc alb (carb)	ser chlr carb	chlr	-	-	-	pyr	mod	Qtz/chlr healed dislocation breccia 323.0-324.0 m Several voids with drusy calcite.	
325.2-329.3	Porphyry Fp-1	-	mod/stng	ser, chlr, carb	wk qtz vnits wk carb vnits, wk chlr/qtz/pyr heal'd fracts	hem stn alb & ser	-	-	loc alb loc chlr patchy ser (carb)	ser chlr carb	chlr	-	-	-	pyr (mo)	wk/ mod	Scattered mafic xenoliths.	
329.3-333.6	Porphyry Fp-1	some slip	wk/mod loc shatt	chlr, carb, (ser)	wk qtz vnits wk irreg carb vnits	loc hem stn alb	-	-	(loc alb) patchy ser (loc chlr)	chlr carb (ser)	chlr (ser)	-	-	tr cpy	pyr	wk/ mod	Local weak foliation	
333.6-337.9	Porphyry Fp-1	some slip	wk	chlr, (ser) carb, (qtz)	wk qtz vnits wk qtz/chlr/ pyr healed fracts & microfracts	loc hem stn alb	-	-	v loc ser loc alb	chlr (ser) carb (qtz)	chlr	-	-	(loc pyr)	pyr	wk	Strong healed fract set at 40-50° C.A. Locally weak foliation.	
337.9-341.9	Porphyry Fp-1	some slip	wk	ser, chlr, carb (qtz)	num qtz/chlr heal'd fracts	(loc hem stn alb)	loc hem stn ser	-	(loc alb)	ser chlr carb (qtz)	chlr (ser)	-	-	-	pyr	mod	Blue green ser on fracts and local weakly diss.	

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
341.9-346.0	Porphyry Fp-1		wk/mod	carb, chl, ser qtz	wk/mod qtz/ chl healed fracts	loc hem stn alb & ser			loc alb loc chl bio?	carb chl ser qtz	chl (ser)			(loc pyr)	pyr	mod	Locally healed crush zones. Locally strong ser alteration envelopes on fracts. Patchy fresh black biotite.	
346.0-349.9	Porphyry Fp-1		wk, loc mod	carb, chl, ser (qtz)	wk irreg carb vnits, wk qtz/chl/pyr heal'd fracts		(loc hem stn ser)		loc alb (loc chl) (patchy ep)	loc ep carb chl ser (qtz)	chl (ser) (ep)			(loc pyr)	pyr tr cpy (mo)		Variation in grain size, becoming quite coarse; local weakly foliated.	
349.9-353.4	Porphyry Fp-1		wk, loc mod	carb, ser, chl (qtz)	wk qtz vnits wk/mod qtz/ chl/pyr heal'd fracts		loc hem stn ser		loc alb (bio (ser)	carb ser chl (qtz)	chl (ser)			loc pyr	pyr (mo)	mod	Alteration intensity increasing and secondary biotite appears.	
353.4-357.4	Porphyry Fp-1		mod/stng loc thin	ser, chl, carb	wk qtz vnits wk hem stn carb vnits			loc chl loc ser loc alb bio carb	ser chl carb bio	chl (ser)			(loc pyr)	tr cpy pyr	tr	Strongly pervasive chl/ser alteration 355.6-357.4 m. Overall alteration intensity increasing with depth. Patchy bleached ser alteration at bottom of interval. Locally strong secondary biotite; quite black.		
357.4-361.2	Porphyry Fp-1	loc thin 357.4 m	wk/mod, loc int/crushed	chl, ser, carb	wk qtz vnits w/(cpy) & (mo), wk carb vnits		loc hem stn carb		(carb) loc chl loc ser loc alb (bio)	chl ser carb (bio)			(loc cpy)	loc cpy pyr	wk	Strongly pervasive chl/ser alteration 357.4 - 359.0 m below gouge.		
361.2-364.8	Porphyry Fp-1	some slip	wk/mod loc bkn	carb, (ser) (chl) (qtz)	wk carb vnits w/hem stn	loc hem stn alb	loc hem stn carb		loc alb loc sil? (patchy ep) bio (ser)	carb (ser) (chl) (qtz) loc ep	chl (ep) (alb)			(pyr)	pyr	mod	Possible local silicification?; phenos often ghost-like	
364.8-368.8	Porphyry Fp-1	loc 367.8 m	mod, loc shatt/ int, loc crushed/milled	carb, (ser) qtz (chl)	wk qtz vnits wk qtz/chl heal'd fracts	patchy hem stn alb			loc ep loc alb ser (cly)	carb (ser) qtz (chl)	chl (ep?) alb			(pyr)	pyr	wk/ mod	Weakly healed crush zone, 367.6-368.8 m contains qtz veinlet fragments with (cpy), carb veinlet fragments. Phenos loc ghost like---alb or sil alteration?? Thin section required.	
368.8-372.8	Porphyry Fp-1 wk fault zone	loc 369.3 m ~ 15° C.A.	wk ckle bx loc mod/stng	carb, (ser) (chl) qtz	num irreg carb vnits	hem stn alb	hem stn carb		alb (patchy carb) loc ep (loc chl) patchy ser	carb (ser) (chl) qtz	chl (ser)			(pyr)	pyr	wk	Crushed/milled zone with gouge 368.8-369.3 m, with carb veinlet fragments. Weak chl alteration envelopes on carb veinlets. Overall moderate fracture controlled alteration intensity, most magnetite is oxidized and stains alb.	

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				
372.8-377.1	Porphyry Fp-1 wk Fault zone	loc thin 376.3 m & some slip	stng/ckle, loc bkn/shatt	ser, chlr, carb loc cly	wk carb vnlt	hem stn alb	-	-	alb (patchy ep) (patchy chlr) loc ser	ser chl carb loc cly (loc ep)	chlr	-	-	(pyr) tr cpy	pyr	wk/ mod		Pyr>>cpy. Sudden strong increase in alteration on fract. Alteration envelopes generally weak or absent.	
377.1-380.5	Porphyry Fp-1	loc and num slip surfaces	stgn/bkn loc crushed	ser, chlr, carb loc cly	wk qtz/chlr heal'd fract	patchy hem stn alb	-	-	patchy ser (patchy chlr) (loc ep) alb	ser chl carb loc cly (loc ep)	chlr	-	-	(pyr)	pyr	wk/ mod		Alteration envelopes more strongly developed.	
380.5-384.0	Porphyry Fp-1	some slip	wk/mod, loc stng	ser, chlr, carb (loc cly)	wk qtz vnlt wk qtz/chlr heal'd fract w/pyr	loc hem stn alb	(loc hem)	-	(patchy alb) loc ser (loc chlr)	ser chl carb (loc cly)	chlr	-	-	(pyr)	pyr	mod		Overall alteration intensity decreasing. Local drusy carb on open fract. Strong ser in alteration envelopes.	
EOH 384.0 m																			

Northing: not available			DDH 95-28					Azimuth: -	
Easting:			Elevation: not available					Inclination: -90	
Sample	Interval (m)		% Total Cu	% Non-	Ag	Ag	Au	% Mo	Lithology
Number	From	To		Sulphide Cu	(g/t)	(oz/t)	(ppb)		
14283	9.1	10.6	0.07	0.02	0.1	<.01	5	0.001	Guichon:
14284	10.6	12.1	0.07	0.04	0.1	<.01	5	<.001	"
14285	12.1	13.6	0.09	0.05	0.1	<.01	5	<.001	"
14286	13.6	15.1	0.04	0.01	0.1	<.01	5	<.001	"
14287	15.1	16.6	0.05	0.02	0.1	<.01	5	<.001	"
14288	16.6	18.1	0.03	0.01	0.1	<.01	5	<.001	fault
14289	18.1	19.6	0.04	<.01	0.1	<.01	5	<.001	"
14290	19.6	21.1	0.03	0.01	0.1	<.01	5	<.001	"
14291	21.1	22.6	0.19	0.18	0.1	<.01	5	<.001	"
14292	22.6	24.1	0.03	0.02	0.1	<.01	5	<.001	"
14293	24.1	25.6	0.02	0.01	0.1	<.01	5	<.001	"
14294	25.6	27.1	0.02	0.01	0.1	<.01	5	<.001	"
14295	27.1	28.6	0.04	0.02	0.1	<.01	5	<.001	"
14296	28.6	30.1	0.03	0.01	0.1	<.01	5	<.001	"
14297	30.1	31.6	0.03	0.01	0.1	<.01	5	<.001	"
14298	31.6	33.1	0.04	0.01	0.1	<.01	5	<.001	"
14299	33.1	34.6	0.06	0.02	0.1	<.01	5	<.001	"
14300	34.6	36.1	0.06	0.02	0.1	<.01	5	<.001	"
14301	36.1	37.6	0.05	0.01	0.1	<.01	5	<.001	"
14302	37.6	39.1	0.04	0.03	0.2	0.01	5	0.006	Porphyry:
14303	39.1	40.6	0.14	0.02	0.1	<.01	5	0.001	"
14304	40.6	42.1	0.10	0.03	0.1	<.01	5	<.001	Guichon:
14305	42.1	43.6	0.06	0.02	0.1	<.01	5	<.001	"
14306	43.6	45.1	0.04	0.01	0.1	<.01	5	<.001	"
14307	45.1	46.6	0.05	0.01	0.1	<.01	5	<.001	"
14308	46.6	48.1	0.06	0.01	0.1	<.01	5	<.001	"
14309	48.1	49.6	0.05	0.01	0.1	<.01	5	<.001	"
14310	49.6	51.1	0.06	0.01	0.1	<.01	5	<.001	Guich/Porph contact
14311	51.1	52.6	0.17	0.03	0.1	<.01	5	<.001	Porphyry:
14312	52.6	54.1	0.05	0.01	0.1	<.01	5	<.001	"
14313	54.1	55.6	0.11	0.02	0.1	<.01	5	<.001	"
14314	55.6	57.1	0.15	0.03	0.2	0.01	5	<.001	Guichon:
14315	57.1	58.6	0.09	0.02	0.3	0.01	5	<.001	"
14316	58.6	60.1	0.11	0.03	0.2	0.01	5	<.001	"
14317	60.1	61.6	0.10	0.02	0.5	0.02	5	<.001	"
14318	61.6	63.1	0.10	0.02	0.2	0.01	5	<.001	"
14319	63.1	64.6	0.11	0.03	0.2	0.01	5	<.001	"
14320	64.6	66.1	0.15	0.03	0.1	<.01	5	<.001	"
14321	66.1	67.6	0.18	0.03	0.2	0.01	5	<.001	"
14322	67.6	69.1	0.11	0.02	0.1	<.01	5	0.004	"
14323	69.1	70.6	0.10	0.01	0.1	<.01	5	<.001	"
14324	70.6	72.1	0.12	0.02	0.1	<.01	5	<.001	Hybrid?:
14325	72.1	73.6	0.14	0.01	0.1	<.01	5	0.001	"
14326	73.6	75.1	0.18	0.01	0.2	0.01	5	<.001	Guich/Porph contact:

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
14327	75.1	76.6	0.09	0.01	0.1	<.01	5	<.001	Porphyry:
14328	76.6	78.1	0.06	0.01	0.1	<.01	10	<.001	"
14329	78.1	79.6	0.07	0.01	0.1	<.01	5	<.001	"
14330	79.6	81.1	0.07	0.02	0.1	<.01	5	<.001	"
14331	81.1	82.6	0.07	0.01	0.1	<.01	5	<.001	"
14332	82.6	84.1	0.07	0.01	0.1	<.01	5	<.001	"
14333	84.1	85.6	0.07	0.01	0.1	<.01	5	<.001	"
14334	85.6	87.1	0.08	0.02	0.1	<.01	5	<.001	"
14335	87.1	88.6	0.06	0.01	0.1	<.01	5	<.001	"
14336	88.6	90.1	0.07	0.01	0.1	<.01	5	<.001	"
14337	90.1	91.6	0.06	0.01	0.1	<.01	5	<.001	"
14338	91.6	93.1	0.08	0.01	0.1	<.01	10	<.001	"
14339	93.1	94.6	0.07	0.01	0.1	<.01	5	0.001	"
14340	94.6	96.1	0.06	0.01	0.1	<.01	5	<.001	"
14341	96.1	97.6	0.06	<.01	0.1	<.01	5	<.001	"
14342	97.6	99.1	0.05	-	0.1	<.01	5	0.001	"
14343	99.1	100.6	0.07	-	0.1	<.01	5	0.001	"
14344	100.6	102.1	0.06	-	0.1	<.01	5	<.001	"
14345	102.1	103.6	0.05	-	0.1	<.01	5	0.001	"
14346	103.6	105.1	0.05	-	0.1	<.01	5	<.001	"
14347	105.1	106.6	0.06	-	0.1	<.01	5	0.001	"
14348	106.6	108.1	0.08	-	0.1	<.01	5	0.009	fault (8 cm)
14349	108.1	109.6	0.07	-	0.1	<.01	5	0.007	"
14350	109.6	111.1	0.04	-	0.1	<.01	5	0.003	"
14351	111.1	112.6	0.09	-	0.1	<.01	5	0.001	"
14352	112.6	114.1	0.08	-	0.2	0.01	5	0.006	"
14353	114.1	115.6	0.12	-	3.1	0.09	5	0.125	fault zone
14354	115.6	117.1	0.06	-	2.0	0.06	5	0.097	"
14355	117.1	118.6	0.07	-	0.1	<.01	5	0.008	"
14356	118.6	120.1	0.09	-	0.1	<.01	5	<.001	"
14357	120.1	121.6	0.11	-	0.1	<.01	5	0.002	"
14358	121.6	123.1	0.07	-	0.1	<.01	5	0.013	"
14359	123.1	124.6	0.10	-	0.1	<.01	5	<.001	"
14360	124.6	126.1	0.05	-	0.1	<.01	5	<.001	"
14361	126.1	127.6	0.08	-	0.1	<.01	5	0.001	"
14362	127.6	129.1	0.04	-	0.1	<.01	5	<.001	"
14363	129.1	130.6	0.23	-	0.1	<.01	10	<.001	"
14364	130.6	132.1	0.08	-	0.1	<.01	5	0.001	"
14365	132.1	133.6	0.04	-	0.1	<.01	10	0.004	"
14366	133.6	135.1	0.04	-	0.1	<.01	5	0.001	"
14367	135.1	136.6	0.05	-	0.1	<.01	5	0.001	"
14368	136.6	138.1	0.13	-	0.1	<.01	10	0.001	"
14369	138.1	139.6	0.06	-	0.1	<.01	10	<.001	"
14370	139.6	141.1	0.10	-	0.1	<.01	5	<.001	"
14371	141.1	142.6	0.07	-	0.1	<.01	10	<.001	"
14372	142.6	144.1	0.09	-	0.1	<.01	5	<.001	"
14373	144.1	145.6	0.08	-	0.1	<.01	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14374	145.6	147.1	0.06	-	0.1	<.01	10	<.001	Porphyry:
14375	147.1	148.6	0.04	-	0.1	<.01	5	<.001	"
14376	148.6	150.1	0.13	-	0.1	<.01	5	0.001	"
14377	150.1	151.6	0.11	-	0.1	<.01	5	<.001	"
14378	151.6	153.1	0.05	-	0.1	<.01	5	<.001	"
14379	153.1	154.6	0.25	-	0.1	<.01	10	0.001	"
14380	154.6	156.1	1.03	-	0.7	0.02	5	<.001	"
14381	156.1	157.6	0.15	-	0.1	<.01	5	<.001	"
14382	157.6	159.1	0.19	-	0.1	<.01	5	<.001	"
14383	159.1	160.6	0.15	-	0.1	<.01	10	0.002	CHANGE IN ALT
14384	160.6	162.1	0.06	-	0.1	<.01	5	<.001	PHASE
14385	162.1	163.6	0.07	-	0.1	<.01	5	0.002	"
14386	163.6	165.1	0.06	-	0.1	<.01	5	0.001	"
14387	165.1	166.6	0.16	-	0.1	<.01	10	0.001	fault
14388	166.6	168.1	0.26	-	0.1	<.01	5	0.002	"
14389	168.1	169.6	0.28	-	0.1	<.01	5	0.001	"
14390	169.6	171.1	0.23	-	0.1	<.01	10	0.002	"
14391	171.1	172.6	0.24	-	0.1	<.01	5	0.001	CHANGE IN ALT
14392	172.6	174.1	0.57	-	0.1	<.01	5	0.004	PHASE
14393	174.1	175.6	0.30	-	0.1	<.01	10	0.004	"
14394	175.6	177.1	0.47	-	0.1	<.01	5	0.005	"
14395	177.1	178.6	0.57	-	0.1	<.01	5	0.001	"
14396	178.6	180.1	0.42	-	0.1	<.01	5	0.001	"
14397	180.1	181.6	0.43	-	0.1	<.01	45	0.002	"
14398	181.6	183.1	0.24	-	0.1	<.01	5	0.005	"
14399	183.1	184.6	0.33	-	0.1	<.01	5	0.007	"
14400	184.6	186.1	0.37	-	0.1	<.01	5	0.002	"
14401	186.1	187.6	0.32	-	0.1	<.01	5	0.008	"
14402	187.6	189.1	0.31	-	0.1	<.01	5	0.002	fault zone
14403	189.1	190.6	0.44	-	0.1	<.01	5	0.003	"
14404	190.6	192.1	0.29	-	0.1	<.01	5	0.001	"
14405	192.1	193.6	0.34	-	0.1	<.01	5	0.011	"
14406	193.6	195.1	0.47	-	0.2	0.01	5	0.007	"
14407	195.1	196.6	0.57	-	0.2	0.01	5	0.008	"
14408	196.6	198.1	0.56	-	0.1	<.01	5	0.003	"
14409	198.1	199.6	0.59	-	0.1	<.01	5	0.007	"
14410	199.6	201.1	0.80	-	0.1	<.01	5	0.003	"
14411	201.1	202.6	0.49	-	0.1	<.01	5	0.004	"
14412	202.6	204.1	0.12	-	0.1	<.01	10	0.002	"
14413	204.1	205.6	0.43	-	0.1	<.01	5	0.004	"
14414	205.6	207.1	0.40	-	0.1	<.01	5	0.003	"
14415	207.1	208.6	0.15	-	0.1	<.01	10	0.002	"
14416	208.6	210.1	0.29	-	0.1	<.01	5	0.002	"
14417	210.1	211.6	0.27	-	0.1	<.01	5	0.001	"
14418	211.6	213.1	0.20	-	0.1	<.01	5	0.002	Porph/Porph:
14419	213.1	214.6	0.35	-	0.1	<.01	5	0.003	contact
14420	214.6	216.1	0.46	-	0.3	0.01	5	0.002	Porph?/Guichon?:

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14421	216.1	217.6	0.64	-	0.1	<.01	5	0.003	Porph?/Guichon?:
14422	217.6	219.1	0.72	-	0.1	<.01	10	0.004	"
14423	219.1	220.6	0.88	-	0.6	0.02	5	0.002	Hybrid:
14424	220.6	222.1	0.75	-	0.6	0.02	5	0.010	"
14425	222.1	223.6	0.32	-	0.3	0.01	5	<.001	Guichon:
14426	223.6	225.1	0.25	-	0.1	<.01	5	0.002	"
14427	225.1	226.6	0.20	-	0.6	0.02	5	0.005	"
14428	226.6	228.1	0.77	-	0.2	0.01	5	0.007	"
14429	228.1	229.6	0.52	-	0.2	0.01	5	0.007	"
14430	229.6	231.1	0.85	-	0.7	0.02	5	0.005	"
14431	231.1	232.6	0.57	-	0.6	0.02	5	0.004	"
14432	232.6	234.1	0.59	-	0.8	0.02	5	0.008	"
14433	234.1	235.6	0.56	-	1.2	0.04	5	0.001	"
14434	235.6	237.1	0.67	-	1.1	0.03	5	0.003	"
14435	237.1	238.6	0.28	-	0.5	0.02	5	0.006	"
14436	238.6	240.1	0.26	-	0.2	0.01	5	0.001	"
14437	240.1	241.6	0.27	-	0.4	0.01	5	0.001	"
14438	241.6	243.1	0.12	-	0.2	0.01	5	0.001	"
14439	243.1	244.6	0.14	-	0.1	<.01	5	0.001	"
14440	244.6	246.1	0.10	-	0.1	<.01	5	0.001	"
14441	246.1	247.6	0.03	-	0.1	<.01	5	0.002	"
14442	247.6	249.1	0.07	-	0.1	<.01	5	0.001	"
14443	249.1	250.6	0.14	-	0.2	0.01	5	0.001	wk fault zone
14444	250.6	252.1	0.25	-	0.2	0.01	5	0.001	"
14445	252.1	253.6	0.28	-	0.2	0.01	5	0.002	"
14446	253.6	255.1	0.09	-	0.1	0.01	5	0.020	"
14447	255.1	256.6	0.08	-	0.1	<.01	5	<.001	"
14448	256.6	258.1	0.10	-	0.1	<.01	5	<.001	"
14449	258.1	259.6	0.08	-	0.1	<.01	5	0.004	"
14450	259.6	261.1	0.07	-	0.1	<.01	5	0.001	"
14451	261.1	262.6	0.07	-	0.1	<.01	5	0.001	"
14452	262.6	264.1	0.12	-	0.1	<.01	5	<.001	"
14453	264.1	265.6	0.05	-	0.1	<.01	5	<.001	"
14454	265.6	267.1	0.79	-	1.2	0.04	5	0.002	"
14455	267.1	268.6	0.03	-	0.1	<.01	5	<.001	"
14456	268.6	270.1	0.04	-	0.1	<.01	5	0.001	"
14457	270.1	271.6	0.05	-	0.1	<.01	5	<.001	"
14458	271.6	273.1	0.05	-	0.1	<.01	10	<.001	"
14459	273.1	274.6	0.08	-	0.1	<.01	5	0.002	"
14460	274.6	276.1	0.11	-	0.1	<.01	5	0.001	"
14461	276.1	277.6	0.04	-	0.1	<.01	10	<.001	"
14462	277.6	279.1	0.05	-	0.1	<.01	5	<.001	"
14463	279.1	280.6	0.03	-	0.1	<.01	5	<.001	"
14464	280.6	282.1	0.04	-	0.1	<.01	5	0.001	"
14465	282.1	283.6	0.04	-	0.1	<.01	5	<.001	"
14466	283.6	285.1	0.06	-	0.1	<.01	5	0.001	"
14467	285.1	286.6	0.10	-	0.1	<.01	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14468	286.6	288.1	0.13	-	0.1	<.01	5	<.001	Guichon:
14469	288.1	289.6	0.04	-	0.1	<.01	5	<.001	"
14470	289.6	291.1	0.06	-	0.1	<.01	5	<.001	"
14471	291.1	292.6	0.07	-	0.1	<.01	5	0.010	"
14472	292.6	294.1	0.02	-	0.1	<.01	5	0.001	"
14473	294.1	295.6	0.04	-	0.1	<.01	5	<.001	"
14474	295.6	297.1	0.12	-	0.1	<.01	5	0.001	"
14475	297.1	298.6	0.09	-	0.1	<.01	10	<.001	"
14476	298.6	300.1	0.02	-	0.1	<.01	5	<.001	"
14477	300.1	301.6	0.03	-	0.1	<.01	5	<.001	"
14478	301.6	303.1	0.09	-	0.1	<.01	5	<.001	"
14479	303.1	304.6	0.06	-	0.1	<.01	5	<.001	"
14480	304.6	306.1	0.04	-	0.1	<.01	5	0.001	"
14481	306.1	307.6	0.04	-	0.1	<.01	5	<.001	"
14482	307.6	309.1	0.03	-	0.1	<.01	5	<.001	"
14483	309.1	310.6	0.14	-	0.1	<.01	5	0.001	"
14484	310.6	312.1	0.14	-	0.1	<.01	5	<.001	"
14485	312.1	313.6	0.10	-	0.1	<.01	5	0.001	"
14486	313.6	315.1	0.03	-	0.1	<.01	5	<.001	"
14487	315.1	316.6	0.03	-	0.1	<.01	5	<.001	"
14488	316.6	318.1	0.03	-	0.1	<.01	5	<.001	"
14489	318.1	319.6	0.06	-	0.1	<.01	5	<.001	"
14490	319.6	321.1	0.02	-	0.1	<.01	5	<.001	"
14491	321.1	322.6	0.02	-	0.1	<.01	5	<.001	"
14492	322.6	324.1	0.03	-	0.1	<.01	5	<.001	"
14493	324.1	325.6	0.02	-	0.1	<.01	5	<.001	"
14494	325.6	327.1	0.01	-	0.1	<.01	5	<.001	"
14495	327.1	328.6	0.01	-	0.1	<.01	5	<.001	"
14496	328.6	330.1	0.02	-	0.1	<.01	5	<.001	"
14497	330.1	331.6	0.01	-	0.1	<.01	5	<.001	"
14498	331.6	333.1	0.01	-	0.1	<.01	5	<.001	"
14499	333.1	334.6	0.02	-	0.1	<.01	5	<.001	"
14500	334.6	336.1	0.03	-	0.1	<.01	5	<.001	"
14501	336.1	337.6	0.03	-	0.1	<.01	5	0.001	"
14502	337.6	339.1	0.02	-	0.1	<.01	5	<.001	"
14503	339.1	340.6	0.02	-	0.1	<.01	5	<.001	"
14504	340.6	342.1	0.05	-	0.1	<.01	5	<.001	"
14505	342.1	343.6	0.05	-	0.1	<.01	5	<.001	"
14506	343.6	345.1	0.02	-	0.1	<.01	5	<.001	"
14507	345.1	346.6	0.05	-	0.1	<.01	5	<.001	"
14508	346.6	348.1	0.01	-	0.1	<.01	5	<.001	"
14509	348.1	349.6	0.04	-	0.1	<.01	5	0.001	"
14510	349.6	351.1	0.04	-	0.1	<.01	5	<.001	"
14511	351.1	352.6	0.02	-	0.1	<.01	5	<.001	"
14512	352.6	354.1	0.03	-	0.1	<.01	5	0.001	"
14513	354.1	355.6	0.07	-	0.1	<.01	5	<.001	"
14514	355.6	357.1	0.05	-	0.1	<.01	5	<.001	"

DDH 28

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14515	357.1	358.6	0.12	-	0.1	<.01	5	<.001	Guichon:
14516	358.6	360.1	0.09	-	0.1	<.01	5	<.001	"
14517	360.1	361.6	0.05	-	0.1	<.01	5	<.001	"
14518	361.6	363.1	0.05	-	0.1	<.01	5	<.001	"
14519	363.1	364.6	0.04	-	0.1	<.01	5	0.001	"
14520	364.6	366.1	0.03	-	0.1	<.01	5	<.001	"
14521	366.1	367.6	0.01	-	0.1	<.01	5	<.001	"
14522	367.6	369.1	0.04	-	0.1	<.01	5	0.001	wk fault zone
14523	369.1	370.6	0.02	-	0.1	<.01	5	0.001	"
14524	370.6	372.1	0.02	-	0.1	<.01	5	<.001	"
14525	372.1	373.6	0.01	-	0.1	<.01	5	<.001	wk fault zone
14526	373.6	375.1	0.01	-	0.1	<.01	5	<.001	"
14527	375.1	376.6	0.01	-	0.1	<.01	5	<.001	"
14528	376.6	378.1	0.05	-	0.1	<.01	5	<.001	"
14529	378.1	379.6	0.05	-	0.1	<.01	5	<.001	"
14530	379.6	381.1	0.04	-	0.1	<.01	5	<.001	"
14531	381.1	382.6	0.03	-	0.1	<.01	5	0.020	"
14532	382.6	384.0	0.09	-	0.1	<.01	5	0.001	"
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH#	DH95-29	Date	23-Nov							Logged by	VN								
Elevation	1706.4 m	Azimuth	045							Northing:	5604086.0								
Inclination	-65	Length	171.6 m							Easting:	641660.5								
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					
13.1-17.6	Guichon	loc 17.4 m	ckle/dis bx, bkn/crushed some open spaces in bx	ser, chlr, carb cly in gge	qtz vnlt frags	(patchy grn Cu-stn ser) loc jar	jar (Mn-spots)	Fe, cly	patchy chlr ser loc carb	ser chlr carb cly in gge	chl	(chrys)	(loc py)						
17.6-22.7	Guichon fault zone	loc	ckle/dis bx loc crushed	ser, carb, chl cly	wk carb vnlt, qtz vnlt frags	loc hem & jar grn Cu-stn ser	jar, (Mn)	Fe, cly	carb ser patchy chl cly	ser chl carb cly	chl	(loc chrys)	(chrys) (ten?)			H ₂ SO ₄ positive in Fe-Mn oxides and pervasive green Cu-stain ser. Mod/stng carb present. Strongly bleached and sericitic overall with strong Fe-staining.			
22.7-26.6	Guichon	loc thin	ckle/dis bx loc crushed	ser, (chl) carb, cly	wk qtz vnlt frags	loc jar patchy hem	jar, loc hem, Mn	Fe, cly	carb ser (chl) cly	carb ser (chl) cly			loc chrys ten?			Generally very strongly bleached and sericitic, probably pervasive cly alteration, with moderate/strong pervasive Fe-staining. Possibly aphte?? dykelet (or Porphyry?) 25.5-26.6 m. Appears much more fine grained than Guichon above. Mn mostly dendritic.			
26.6-30.2	Porphyry? wk fault zone	loc	ckle/dis bx loc crushed/milled	ser, (chl) carb, cly	abd qtz vnlt & frags, poss bkn qtz stkwk	jar loc hem loc grn Cu-stn ser	Mn, jar loc hem	Fe	patchy carb ser cly	ser (chl) carb cly		loc chrys	(loc chrys) ten?			Very strongly bleached and sericitic with loc strong Fe-staining. Quite strong Mn-Cu oxides on fracts. Generally appears fine grained but strong alteration makes identification difficult. May be Porphyry or completely altered Guichon. Abundant qtz vnlt and fragments suggest broken qtz stockwork zone.			
30.2-34.0	Porphyry?	loc	mod/stng, loc ckle/dis bx, some open spaces	ser, (chl), carb, loc cly	num qtz vnlt & frags	jar, grn Cu-stn ser	Mn, jar grn Cu-stn ser		ser carb cly sil	ser (chl) carb loc cly		(loc chrys)	(loc chrys)			Numerous qtz veinlets and fragments suggest possible weak qtz stockwork zone. Continues very strongly bleached and sericitic with decreasing Fe staining; mafics completely ser/clay altered.			
34.0-37.8	Porphyry (Bethlehem)		mod/stng, loc ckle bx	ser, carb, loc cly	num qtz vnlt + frags to > 2 cm	patchy jar, loc grn Cu-stn ser	Mn, jar, loc hem grn Cu-stn ser		ser loc carb cly	ser carb loc cly		(loc chrys)	(loc chrys) ten?			Identifiable as grey and porphyritic (fairly fine grained) where least altered. Loc strong qtz veinlets and fragments suggest qtz stockwork zone. Continues strongly bleached; argillic			
37.8-41.6	Porphyry (Bethlehem) wk fault zone	loc	stng/ckle bx	ser, carb, loc cly	abd qtz vnlt + frags to > 2 cm	patchy jar, loc grn Cu-stn ser	Mn, jar loc hem loc grn Cu-stn ser		ser loc carb cly	ser carb loc cly			(loc chrys)			Identifiable as Bethlehem where least altered. Abundant qtz veinlets suggest qtz stockwork zone. Fe oxides H ₂ SO ₄ positive.			

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			
41.6-45.4	Porphyry (Bethlehem) wk fault zone	loc	ckle/dis bx	ser, qtz, loc cly, carb	num qtz vnlt + frags	jar, loc grn Cu- stn ser	Mn, jar loc hem grn Cu- stn ser	loc sil ser loc carb cly	ser qtz loc cly carb	-	(loc chrys)	(loc chrys)	-	-	-	-	Weak qtz stockwork zone, loc qtz flooded and bleached. Argillic altered
45.4-49.5	Porphyry (Bethlehem)	-	wk/mod loc crushed & healed	ser, qtz, loc cly	wk/mod qtz vnlt irreg carb vnlt & f.f. < 0.5 cm	patchy hem, loc jar patchy grn Cu- stn ser	(Mn), jar loc hem	loc sil ser cly (loc carb)	ser qtz loc cly carb	-	loc chrys	loc chrys	cpy	cpy tr chalc (mo)	-	-	Overall alteration intensity decreasing. Becomes more identifiable as Bethlehem with depth. Cpy with weak chalcocite (cpy frequently with peacock tarnish—cov and bo) diss and dissf (47.5-49.5 m). Specimen taken for PTS. Oxide copper zone ends.
49.5-53.4	Porphyry (Bethlehem)	loc thin	wk/mod, loc crushed & healed	ser, qtz, loc chr, loc cly carb	num qtz & carb vnlt	(loc jar)	-	ser (chr) cly	ser qtz loc chr loc cly carb	-	-	-	patchy cpy	cpy tr chalc (mo)	-	-	Overall alteration intensity weaker than previous interval. Weak qtz stockwork zone. Oxide ends at ~ 50.0 m, abruptly. Significant decrease in bleaching (much greener) though mafics still not conspicuous.
53.4-57.2	Porphyry (Bethlehem) wk fault zone	loc thin	mod/stng, loc shatt/crushed	ser, (qtz), carb, loc cly	wk/mod qtz vnlt	-	-	ser chr cly	ser (qtz) carb loc cly	-	-	-	patchy cpy	cpy (mo)	tr/wk	-	Thin section required. Fine grained cpy dissf, very fine grained cpy dissf.
57.2-60.6	Porphyry (Bethlehem)	loc thin & some slip surfaces	wk ckle bx bkn/shatt	ser, carb loc cly, (chr) (qtz)	wk irreg qtz & carb vnlt	-	-	ser patchy chr (loc carb) (cly)	ser carb loc cly (chr) (qtz) (cly)	-	-	-	patchy cpy	cpy (loc mo) (py)	tr/wk	-	First appearance of py. Py < 0.5%. Qtz-feldspar crowded porphyry. Phenos ghost-like, fine grained grey groundmass.
60.6-64.6	Porphyry (Bethlehem)	suspect some lost	mod/stng, loc wk ckle/bkn some open spaces, healed	ser, carb (chr), loc cly (qtz)	wk carb vnlt, num qtz/chr healed fract & vnlt w/ cpy & (py)	-	-	ser (patchy chr) (cly)	ser (qtz) carb (chr) loc cly	-	-	-	(patchy cpy)	cpy (loc mo) (py)	tr/wk	-	Cpy >> py. Weak (<0.5cm) bleached alteration envelopes on fract and veinlets. Numerous crosscutting qtz veinlets 1-2 mm with beaded cpy ± py.
64.6-68.2	Porphyry (Bethlehem)	some slip	stng/wk ckle loc shatt/ crushed	ser, qtz, loc cly, carb	num irreg carb vnlt loc stng qtz vnlt + frags	-	-	(cly) ser patchy chr	ser qtz loc cly carb	-	-	-	(patchy cpy) (chalc?)	cpy (mo) (py)	tr	-	Several sections with abundant shattered qtz veinlets. Suspect broken qtz stockwork. Loc, weak cpy and mo in qtz. Suspect sooty chalcocite with fine grained cpy. PTS required.
68.2-71.6	Porphyry (Bethlehem)	?	stng/ckle bx loc shatt/ crushed	ser, carb, cly? (loc chr)	num qtz vnlt + frags	-	-	ser chr (cly)	ser carb cly? (loc chr)	-	-	-	(py) cpy (chalc?)	cpy (mo)	tr/wk	-	Several sections with abundant shattered qtz veinlets. Very fine grained dissf py and cpy Cpy >> py. Weak bleached qtz/ser alteration envelopes on fract and veinlets. 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
71.6-75.3	Porphyry (Bethlehem)	loc	bkn/shatt, loc crushed	ser, carb, loc cly, chlr	num Xcutting qtz vnits & frags w/py	-	-	-	ser patchy chl (sil)	ser carb loc cly chl	-	-	-	py cpy	-	Possible apite dykelets, shattered/crushed at bottom.		
75.3-80.6	Porphyry (Bethlehem)	loc, suspect some lost	ckle/dis bx, bkn/shatt, loc crushed	ser, carb, loc cly, (chl (qtz)	wk/mod qtz vnits + frags	-	-	-	(sil) ser (chl)	ser carb loc cly (chl) (qtz)	-	-	(loc cpy)	py cpy (mo)	tr/wk	Possible aplitic porphyry dykelets, broken/shattered. Difficult drilling with significant core loss/drill rounding. Similar to porphyry at 174.6 m in DDH 95-24. Weak sericitic alteration envelopes on fract. Qtz-feldspar crowded porphyry.		
80.6-84.9	Porphyry (Bethlehem) crowded	loc, suspect some lost	ckle/dis bx bkn/shatt, loc crushed	ser, carb, loc cly, chl, qtz	num qtz vnits + frags wk irreg carb vnits	-	-	-	ser chl cly (sil)	ser carb loc cly chl qtz	-	-	(loc cpy)	py cpy (mo)	loc tr/wk	Pervasive ser/chlr increasing with depth. Continued difficult drilling with significant core loss in some sections. Several strongly bleached (argillic) sections. Occasional clotted mafic patches visible where least altered; resembles Fp-1 porphyry.		
84.9-89.1	Porphyry (Bethlehem) crowded	loc, suspect some lost	ckle/dis bx bkn/shatt loc crushed	ser, carb, loc cly, chl, qtz	wk qtz vnits num qtz/chlr healed fract w/py & (cpy)	-	-	-	(loc alb) patchy ser chl (cly)	ser carb loc cly chl qtz	chl (ep)	-	(loc cpy) (loc py)	(cpy) py	tr/wk	Py>>cpy. Weak to moderate qtz/ser alteration envelopes on veinlets and healed fract. Py 1%		
89.1-92.1	Porphyry (Bethlehem) crowded	?	ckle bx, bkn/ shatt, loc crushed	ser, carb, chl (cly)	abd qtz/chlr healed fract w/py + (cpy)	-	-	-	(alb) ser chl	ser carb (cly) chl	chl (ep)	-	py cpy	py cpy	tr	Fine grained diss ppy and py. Moderate to strong qtz/ser alteration envelopes on fract. Loc strong fract controlled pervasive ser alteration. 1% py		
92.1-96.1	Porphyry (Bethlehem) crowded	?	wk ckle bx bkn/shatt loc crushed	ser, carb, chl (cly)	-	-	-	(cly) ser (chl)	ser carb (cly) (chl)	chl (ep)	-	-	py	py (cpy)	tr	Py>>cpy. Similar to previous interval. Qtz-feldspar crowded porphyry, fine grained grey groundmass, sparse clotted mafics.		
96.1-97.7	Porphyry (Bethlehem) crowded	-	stng/int, bkn/ shatt, loc crushed	ser, carb, chl loc cly	-	-	-	(chl) ser	ser carb (chl) loc cly	chl (ep)	-	-	py loc cpy	py cpy (mo)	tr/wk	Sharp increase in py and cpy in fract. Local strong cpy in fract. Weak to moderate qtz/ser alteration envelopes on fract. Some open fract 0.5-1% py.		
97.7-101.0	Porphyry (Bethlehem) crowded crowded	-	ckle bx, bkn/shatt	ser, carb, chl	num qtz/py vnits ± cpy 0.5-1 mm 0.5-1 mm crosscutting	-	-	-	(chl) ser loc alb? loc alb?	ser carb (chl) (chl)	chl (ep)	-	py (loc cpy)	py cpy (mo) (mo)	tr/wk	Alteration intensity in envelopes increasing, with locally strong fract controlled pervasive ser alteration.		
101.0-104.0	Porphyry (Bethlehem) crowded D3?	loc 101.6 m	stng/int, bkn/shatt loc crushed	ser, carb, chl cly in gge	numerous crosscutting qtz/py vnits 0.5-2 mm	-	-	-	(chl) ser loc alb (cly)	ser carb (chl) cly in gge	chl (ep)	-	py tr cpy	py cpy (mo?)	-	Pervasive chl/ser alteration intensity increasing, texture becoming locally less distinct. Very similar to grey crowded porphyry outcrop at Dam site South of Krain Lake. D3? 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.				
104.0-107.8	Porphyry (Bethlehem) crowded D3?	loc 106.5 m	mod/stng, loc shatt/crushed	ser, chlr, carb loc cly	num cross- cutting qtz/ py vnlt 1-5 mm wk irreg carb vnlt	-	-	-	ser (chlr) carb (cly)	ser (chlr) carb loc cly	-	-	py py (cpy)	-	-	Pervasive chlr/ser alteration intensity increasing, moderate to strong alteration envelopes on py healed fracts. Local carb/chlr healed crush zone with gge 106.5 m. Py>>cpy. Py ~2%	
107.8-111.3	Porphyry (Bethlehem) crowded D3?	loc	mod/stng, loc ckle, some open spaces	ser, chlr, carb loc cly	wk micro stockwk, num py vnlt 1-3 mm	-	-	-	(chlr) ser (cly) sil	ser (chlr) carb loc cly	chlr? (ep)	-	(py) py lr cpy	-	-	Strongly developed alteration envelopes (qtz/ser) on fracts and veinlets. Phenos usually ghost-like, texture obscured by alteration. Numerous qtz/py ± cpy vnlt w/strongly bleached qtz/ser envelopes to 2 cm.	
111.3-115.0	Porphyry (Bethlehem) crowded D3?	-	mod/stng, loc bkn	ser, chlr, carb (loc cly)	num qtz/py healed fracts	-	-	-	(chlr) patchy ser alb? patchy ep (sil)	ser chlr carb loc cly	chlr (ep)	-	(py) py	-	-	Slight decrease in fract intensity. Alteration intensity quite similar to previous interval. Py on fracts increasing, diss py decreasing. 2-3% py.	
115.0-117.9	Porphyry (Bethlehem) crowded D3?	?	stng/ckle, loc bkn/shatt	ser, (chlr) carb, (loc cly)	num qtz/py healed fracts	-	-	-	alb? (chlr) (patchy ser) loc ep	ser (chlr) carb (loc cly)	chlr (ep)	-	(loc py) py	tr	-	Becoming more fine grained (loc aplitic) with depth Broken contact with strongly altered Guichon at 117.9 m. Weak to moderated alteration envelopes (bleached, qtz/ser) on fracts. ~ 2% py.	
117.9-122.3	Guichon	some slip	wk	ser, chlr, carb (loc cly)	num qtz/chlr /py healed fracts	patchy hem stn alb	-	-	patchy alb, (chlr) patchy ser loc ep (bio)	ser chlr carb (loc cly)	chlr (ep)	-	(loc py) py	mod	-	Patchy fresh black (secondary?) biotite. Py ~1%	
122.3-126.1	Guichon	some slip	wk/mod, loc stng	ser, chlr, carb (cly)	wk qtz/chlr healed fracts wk carb vnlt	patchy hem stn alb	-	-	patchy alb chlr patchy ser loc ep	ser chlr carb (cly)	chlr (ep)	-	(py) py	wk	-	Overall alteration intensity increasing. Sharp increase in ser alteration, especially on fracts. Chlr after biotite.	
126.1-129.8	Guichon	loc thin ~ 10° C.A.	mod/stng loc crushed	ser, chlr, carb loc cly	wk qtz/py healed fracts & vnlt 0.5-2 mm	-	-	-	ser chlr loc alb patchy ep	ser chlr carb loc cly	-	-	(loc py) py loc cpy	tr/wk	-	Locally strong py and cpy on fracts. 1-1.5% py	

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
129.8-133.7	Guichon	loc	loc mod/ stng, loc bkn/shatt	ser, chlr, qtz carb	wk/mod qtz/ chlr healed fracts; num qtz & py vnlt 0.5-2 mm crosscutting	(loc hem stn alb)	-	-	patchy ep alb patchy ser chlr	ser chlr qtz carb loc ep	chlr (ep) alb?	-	-	(py)	py	tr	Aplitic porphyry dykelet ~ 30 cm, 131.6 m, with py mineralized fracts. 1.5-2% py. Fracture py>> pervasive py.	
133.7-137.6	Guichon pink speckled	loc	wk/mod, loc stng/bkn	(ser), chlr (carb), cly in gge	wk qtz/py healed fracts wk qtz & py vnlt 0.5-1 mm	loc hem stn alb	-	-	patchy ep loc alb (loc chlr) (patchy ser)	(ser) chlr (carb) cly in gge loc ep	chlr (ep) (alb)	-	-	(py)	py	tr/wk	Overall alteration intensity decreasing. Contact with Bethlehem? 137.6 m ~ 80° C.A. 2% py. Weakly developed (<0.5cm) sericitic alteration envelopes on fractures and veinlets.	
137.6-141.2	Bethlehem qtz-hbde + bio diorite	-	wk	ser, <u>chlr</u> , carb (loc serp)	wk qtz/chlr/ py healed fracts	loc hem stn ser	-	-	chlr (patchy ser) loc alb (loc ep)	ser (chlr) carb (loc serp)	-	-	(py) tr cpy	py tr cpy	tr/wk	Qtz-hornblende needle + biotite diorite. Mafics quite fine grained. 1.5-2% py.		
141.2-144.9	Bethlehem quartz diorite	-	wk/mod, loc ckle bx	<u>ser</u> , <u>chlr</u> , carb	<u>py vnlt</u> , wk irreg carb vnlt wk aplite frags	loc hem stn alb	-	-	loc alb ser chlr	ser <u>chlr</u> carb	chlr	-	-	loc py (loc cpy)	py	loc wk	High gangue sulphide veinlet ~ 3 cm--py with weak cpy--142.0 m, strongest py occurrence seen to date. Quite bleached and fine grained above and below py veinlet (almost aplitic) with local strong solution cavities. Suspect strong alteration effects, not magmatic. Chlr after bio/hbde 4% py. Qtz-biotite-hbde diorite.	
144.9-148.4	Bethlehem wk fault zone	loc, several sections	mod/stng, loc shatt	<u>ser</u> , <u>chlr</u> , carb loc cly	wk/mod qtz/ py vnlt, wk aplite dykelets	(loc hem stn alb)	-	-	chlr patchy ser	ser <u>chlr</u> carb	-	-	(py)	py	wk/ mod	Scattered Guichon xenoliths. Where least chloritic, texture appears similar to crowded Porphyry above, though slightly more fine grained. 2% py		
148.4-151.7	Bethlehem (Bethlehem)	loc thin	mod/stng, loc bkn/shatt	ser, <u>chlr</u> , (carb) qtz	wk qtz/py healed fracts	loc hem	-	-	chlr patchy ser	ser <u>chlr</u> (carb) qtz	-	-	(py)	py	tr/wk	Overall alteration intensity increasing. 2-3 % py. Fracture py>>pervasive py. Bethlehem Quartz Diorite; more mafic-rich than usual.		
151.7-155.1	Bethlehem fault zone	loc 152.6, 154.1m, 2-10 cm	wk/mod, loc stng/bkn	ser, <u>chlr</u> , (carb) (qtz)	wk qtz/py healed fracts	-	-	chlr (patchy ser)	ser <u>chlr</u> (carb) (qtz)	-	-	-	-	(py)	py	-	Scattered Guichon xenoliths, some partially assimilated.	
155.1-158.7	Bethlehem wk fault zone	loc 157.0 m & some slip	mod/stng	<u>ser</u> , <u>chlr</u> , carb	wk qtz/py healed fracts	-	-	chlr (patchy ser)	ser <u>chlr</u> carb	-	-	-	-	(py)	py	tr/wk		

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			
158.7-161.4	Bethlehem/ Guichon contact at 161.0 m	some slip	stng/int, loc wk	ser, chlr, carb cly?	wk Qtz/py healed fracts	-	-	-	chl (patchy ser) (patchy ep)	loc ep ser chl carb cly?	-	-	(py)	py	wk/ mod		Numerous Guichon xenoliths, some partially assimilated. Contact with Guichon (appears somewhat gradational) at ~ 161.0 m. 1.5-2% py.	
161.4-166.6	Guichon pink speckled loc mafic rich	loc 166.0 m suspect some lost	wk/mod loc crushed	ser, chlr, carb cly in gge	wk Qtz vnlt	(loc hem stn alb)	-	-	loc alb chl loc ser patchy ep	loc ep ser chl carb cly in gge	-	-	(py)	py	wk/ mod		Phenos loc ghost-like. Overall alteration intensity increasing. Pale green/grey-green fracture coatings: clays?	
166.6-170.4	Guichon fault zone	several sections	bkn/shatt, loc crushed	ser, chlr, carb loc cly	-	loc hem stn alb	loc hem stn ser	-	patchy ep chl loc alb (loc carb) (bio)	ser chl loc cly loc ep carb	-	-	(loc py)	py	loc wk/ mod		Phenos frequently ghost-like. Patchy fresh, black biotite. 0.5-1% py	
170.4-171.6	Fault zone w/Guichon clasts	most of interval	gge/fault bx	cly, ser, chl carb	-	loc hem	loc hem	-	loc cly ser chl carb loc ep	cly ser chl carb	-	-	(loc py)	py	-		Fault gouge/Bx with strongly altered Guichon clasts.	
EOH 171.6 m																		

Northing: 5604086.0			DDH 95-29				Azimuth: 045		
Easting: 641660.5			Elevation: 1704.6 m				Inclination: -65		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
14534	13.1	14.6	0.44	0.39	-	-	-	-	Guichon:
14535	14.6	16.1	0.40	0.32	-	-	-	-	"
14536	16.1	17.6	0.34	0.28	-	-	-	-	"
14537	17.6	19.1	0.54	0.40	-	-	-	-	fault zone
14538	19.1	20.6	0.42	0.35	-	-	-	-	"
14539	20.6	22.1	0.71	0.73	-	-	-	-	"
14540	22.1	23.6	0.69	0.68	-	-	-	-	"
14541	23.6	25.1	0.55	0.47	-	-	-	-	"
14542	25.1	26.6	0.45	0.45	-	-	-	-	"
14543	26.6	28.1	0.46	0.46	-	-	-	-	Porphyry?:
14544	28.1	29.6	0.45	0.44	-	-	-	-	wk fault zone
14545	29.6	31.1	0.43	0.37	-	-	-	-	"
14546	31.1	32.6	0.45	0.42	-	-	-	-	"
14547	32.6	34.1	0.40	0.38	-	-	-	-	"
14548	34.1	35.6	0.36	0.34	-	-	-	-	Porph (Beth):
14549	35.6	37.1	0.36	0.35	-	-	-	-	"
14550	37.1	38.6	0.54	0.53	-	-	-	-	fault zone
14551	38.6	40.1	0.36	0.33	-	-	-	-	"
14552	40.1	41.6	0.38	0.37	-	-	-	-	"
14553	41.6	43.1	0.49	0.47	-	-	-	-	"
14554	43.1	44.6	0.50	0.46	-	-	-	-	"
14555	44.6	46.1	0.70	0.66	-	-	-	-	"
14556	46.1	47.6	0.92	0.90	-	-	-	-	"
14557	47.6	49.1	0.36	0.18	-	-	-	-	"
14558	49.1	50.6	0.60	0.04	-	-	-	-	"
14559	50.6	52.1	0.42	-	0.3	0.01	5	0.009	"
14560	52.1	53.6	0.49	-	0.6	0.02	5	0.031	"
14561	53.6	55.1	0.45	-	0.5	0.02	5	0.006	wk fault zone
14562	55.1	56.6	0.45	-	0.2	0.01	5	0.009	"
14563	56.6	58.1	0.33	-	0.2	0.01	5	0.003	"
14564	58.1	59.6	0.43	-	0.1	<.01	5	0.002	"
14565	59.6	61.1	0.48	-	0.2	0.01	5	0.012	"
14566	61.1	62.6	0.54	-	0.2	0.01	5	0.001	"
14567	62.6	64.1	0.27	-	0.1	<.01	5	0.002	"
14568	64.1	65.6	0.32	-	0.1	<.01	5	0.002	"
14569	65.6	67.1	0.48	-	0.1	<.01	5	0.005	"
14570	67.1	68.6	0.50	-	0.1	<.01	5	0.007	"
14571	68.6	70.1	0.53	-	0.2	0.01	5	0.009	"
14572	70.1	71.6	0.48	-	0.1	<.01	5	0.004	"
14573	71.6	73.1	0.48	-	0.1	<.01	5	0.003	"
14574	73.1	74.6	0.57	-	0.2	0.01	5	0.004	"
14575	74.6	76.1	0.47	-	0.2	0.01	5	0.001	"
14576	76.1	77.6	0.68	-	0.8	0.02	5	0.003	"
14577	77.6	79.1	0.40	-	0.1	<.01	5	0.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
14578	79.1	80.6	0.24	-	0.1	<.01	5	<.001	Porph (Beth):
14579	80.6	82.1	0.33	-	0.1	<.01	5	0.003	Porph (Beth)
14580	82.1	83.6	0.36	-	0.1	<.01	5	0.009	crowded:
14581	83.6	85.1	0.38	-	0.1	<.01	5	0.004	"
14582	85.1	86.6	0.53	-	0.1	<.01	5	0.007	"
14583	86.6	88.1	0.30	-	0.1	<.01	5	0.003	"
14584	88.1	89.6	0.33	-	0.1	<.01	5	0.003	"
14585	89.6	91.1	0.55	-	0.3	0.01	5	0.009	"
14586	91.1	92.6	0.43	-	0.1	<.01	5	0.002	"
14587	92.6	94.1	0.32	-	0.1	<.01	5	0.005	"
14588	94.1	95.6	0.52	-	0.1	<.01	5	0.022	"
14589	95.6	97.1	0.53	-	0.2	0.01	5	0.003	"
14590	97.1	98.6	0.48	-	0.2	0.01	5	0.008	"
14591	98.6	100.1	0.52	-	0.2	0.01	5	0.009	"
14592	100.1	101.6	0.42	-	0.1	<.01	5	0.014	"
14593	101.6	103.1	0.32	-	0.1	<.01	5	0.005	"
14594	103.1	104.6	0.23	-	0.1	<.01	5	0.009	"
14595	104.6	106.1	0.27	-	0.1	<.01	5	0.005	"
14596	106.1	107.6	0.24	-	0.3	0.01	5	0.019	"
14597	107.6	109.1	0.25	-	0.1	<.01	5	0.004	"
14598	109.1	110.6	0.25	-	0.1	<.01	5	0.001	"
14599	110.6	112.1	0.13	-	0.1	<.01	5	0.001	"
14600	112.1	113.6	0.10	-	0.1	<.01	5	0.001	"
26701	113.6	115.1	0.09	-	0.1	<.01	5	0.003	"
26702	115.1	116.6	0.15	-	0.1	<.01	5	0.01	"
26703	116.6	118.1	0.20	-	0.1	<.01	5	0.002	Guichon:
26704	118.1	119.6	0.13	-	0.1	<.01	5	<.001	"
26705	119.6	121.1	0.12	-	0.1	<.01	5	0.001	"
26706	121.1	122.6	0.18	-	0.1	<.01	5	0.002	"
26707	122.6	124.1	0.18	-	0.2	0.01	5	0.001	"
26708	124.1	125.6	0.19	-	0.2	0.01	5	<.001	"
26709	125.6	127.1	0.17	-	0.3	0.01	5	0.001	"
26710	127.1	128.6	0.51	-	0.8	0.02	5	0.001	"
26711	128.6	130.1	0.21	-	0.3	0.01	5	0.005	"
26712	130.1	131.6	0.16	-	0.2	0.01	5	<.001	"
26713	131.6	133.1	0.11	-	0.1	<.01	5	<.001	"
26714	133.1	134.6	0.09	-	0.3	0.01	5	<.001	"
26715	134.6	136.1	0.13	-	0.2	0.01	5	<.001	"
26716	136.1	137.6	0.10	-	0.1	<.01	5	0.008	"
26717	137.6	139.1	0.07	-	0.2	0.01	5	0.001	Porph (Beth?):
26718	139.1	140.6	0.09	-	0.2	0.01	5	<.001	"
26719	140.6	142.1	0.14	-	0.5	0.02	5	0.004	"
26720	142.1	143.6	0.10	-	0.2	0.01	5	0.003	"
26721	143.6	145.1	0.13	-	0.1	<.01	5	<.001	Porph (Beth)
26722	145.1	146.6	0.11	-	0.1	<.01	5	0.001	crowded:
26723	146.6	148.1	0.08	-	0.2	0.01	5	<.001	wk fault zone
26724	148.1	149.6	0.10	-	0.1	<.01	5	<.001	"

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
26725	149.6	151.1	0.14	-	0.2	0.01	5	<.001	Porph (Beth)
26726	151.1	152.6	0.14	-	0.2	0.01	5	<.001	crowded:
26727	152.6	154.1	0.11	-	0.3	0.01	5	<.001	fault zone
26728	154.1	155.6	0.12	-	0.2	0.01	5	<.001	"
26729	155.6	157.1	0.09	-	0.1	<.01	5	<.001	wk fault zone
26730	157.1	158.6	0.08	-	0.2	0.01	5	<.001	"
26731	158.6	160.1	0.10	-	0.3	0.01	5	0.001	Porph (Beth)
26732	160.1	161.6	0.10	-	0.2	0.01	5	0.002	crowded/Guichon:
26733	161.6	163.1	0.08	-	0.1	<.01	5	0.004	Guichon:
26734	163.1	164.6	0.04	-	0.1	<.01	5	0.001	"
26735	164.6	166.1	0.07	-	0.1	<.01	5	0.001	"
26736	166.1	167.6	0.11	-	0.1	<.01	5	0.002	fault zone
26737	167.6	169.1	0.11	-	0.2	0.01	5	0.001	"
26738	169.1	170.6	0.10	-	0.2	0.01	5	0.001	fault zone w/
26739	170.6	171.6	0.09	-	0.2	0.01	5	0.001	Guichon clasts
end of hole									

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH#	DH95-30	Date	25-Nov							Logged by	VN								
Elevation	1706.4 m	Azimuth	045							Northing:	5604086.0								
Inclination	-45°	Length	165.2 m							Eastings:	641661.5								
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					
0-13.7	Overburden						hem		Fe, cly							Weathered Kamloops volcanics, Guichon frags.			
13.7-14.7	Guichon	-	int	cly, ser, carb		(jar), (grn Cu-stn ser)	(jar) (grn Cu-stn ser)	Fe, cly	ser (carb) cly			(chrys)				Unconformity? at top of interval. Strongly bleached and weathered. Guichon with weak Fe staining.			
14.7-18.5	Guichon	?	stng/int, loc crushed	cly, ser, (carb)	wk qtz vnits & frags	jar, grn Cu-stn ser	jar, Mn	Fe, cly	ser (chl) (carb) cly	ser (carb) cly		(chrys)				Strongly bleached and weathered Guichon with increasing Fe staining.			
18.5-20.4	Guichon	-	wk/mod	ser, cly		jar, grn Cu-stn ser	jar, Mn grn Cu-stn ser	Fe, cly	ser (chl) cly	ser cly		loc chrys	loc chrys			Contact with pink? porphyry (Bethlehem), locally strong pervasive green Cu stained ser and chrys. Positive H ₂ SO ₄ test on Fe-Mn oxides.			
20.4-22.6	Porphyry (Bethlehem) Fp-1?	-	ckle bx, bkn/shatt	ser, carb	wk irreg qtz & carb vnits	patchy jar	jar, Mn		ser, alb? (chl)	ser carb						Resembles pink qtz-feldspar porphyry seen in DDH 95-7, 95-23 and 95-26, but strong alteration makes identification difficult. Fe-Mn oxides on frags. H ₂ SO ₄ positive.			
22.6-25.7	Porphyry (Bethlehem) Fp-1?	?	ckle/dis bx	ser, carb, cly	wk qtz vnit frags	patchy jar	jar, Mn		ser alb?	ser carb cly						Very strong jar coatings on frags.			
25.7-29.1	Porphyry (Bethlehem) Fp-1?	loc	ckle/dis bx, loc milled	ser, cly, carb	wk/mod qtz vnits & frags	jar	jar, Mn (hem)		ser loc cly sil?	ser cly carb		(loc chrys)	(loc chrys)			Quite bleached and silicic where least Fe stained			
29.1-33.0	Porphyry (Bethlehem) Fp-1?	-	ckle/dis bx, loc crushed	ser, loc cly carb	wk/mod qtz vnits & frags	loc jar grn Cu-stn ser	jar, Mn grn Cu-stn ser		ser loc sil? cly	ser loc cly carb			(loc chrys)			Locally quite siliceous-qtz flooded?			
33.0-36.3	Porphyry (Bethlehem) Fp-1?	?, suspect some lost	ckle bx, loc shatt/crushed	ser, loc cly (carb) (qtz)	num qtz vnits & frags	loc jar grn Cu-stn ser	jar, Mn grn Cu-stn ser		patchy ser sil cly	ser loc cly (carb) (qtz)			loc chrys			Qtz healed ckle Breccia, qtz flooded, very siliceous. H ₂ SO ₄ positive on Fe Mn oxides			
36.3-39.3	Porphyry (Bethlehem) Fp-1?	-	wk/mod	carb, ser, qtz	wk qtz vnits	loc jar loc grn Cu-stn ser			sil ser loc carb cly	carb ser qtz		loc chrys				Strongly bleached and sericitic throughout, possibly weak pervasive argillic alteration??			

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
39.3-43.2	Porphyry (Bethlehem) Fp-1? fault zone	loc 42.0- 42.5 m	stng/int, loc fault bx	ser, chlr, carb loc cly	wk qtz vnlt loc jar	loc jar loc Mn	-	ser (chl)	ser chl	-	-	-	-	py (cpy)	-	Oxide ends abruptly at 39.8 m. Locally resembles Fp-1 crowded feldspar porphyry, very strongly altered. Check cross sections for correlation.	
43.2-47.2	Porphyry (Bethlehem) Fp-1? fault zone		ckle/dis bx healed	ser, chl, carb loc cly	wk irreg carb vnlt	-	ser (chl)	ser chl	-	-	-	patchy cpy	py (loc cpy)	-	Overall very strong/complete ser/chl alteration in healed dislocation/fault? breccia. Quite bleached throughout. Check for clays.		
47.2-50.6	Porphyry (Bethlehem) Fp-1? fault zone	loc 47.2- 48.2 m	ckle/dis bx loc crushed	ser, chl, carb loc cly	num qtz vnlt & frags; wk irreg carb vnlt	(loc jar) loc jar	-	loc sil ser chl	ser chl loc cly carb	-	-	(loc chrys)	loc py tr cpy	py	Locally quite siliceous—possibly qtz flooding. Most qtz veinlets broken and discontinuous. Local (chrys) in qtz vein fragments.		
50.6-54.5	Porphyry (Bethlehem) Fp-1? fault zone	loc	ckle/dis bx loc bkn/ crushed	ser, chl, carb loc cly	num qtz vnlt & frags	loc jar loc grn Cu-stn ser	loc jar loc grn Cu-stn ser (Mn)	-	ser chl loc cly carb	ser chl carb loc cly	-	(loc chrys)	loc py	-	Moderate to strong Fe oxide zone. Where least altered, texture resembles Bethlehem qtz diorite more than pink porphyry		
54.5-58.5	Porphyry (Bethlehem) Fp-1?	loc	ckle/dis bx, loc shatt/ crushed	ser, (chl) carb, (loc cly)	wk/mod qtz vnlt + frags	(loc jar) loc jar	-	ser chl carb cly	ser chl loc cly carb	-	tr NCu	tr NCu	tr cpy tr chalc	loc py	-	Texture similar to above where least altered	
58.5-62.0	Porphyry (Bethlehem) Fp-1?		wk/mod, loc shatt/crushed	ser, (chl) carb, (loc cly)	wk qtz vnlt & frags	(loc jar) loc jar loc goe?	-	ser chl loc alb? (cly)	ser (chl) carb (loc cly)	-	loc NCu	loc NCu	(cpy) (py)	(py) loc cpy	loc wk/ mod	Locally fine grained to very fine grained NCu diss and dissp with cpy. Locally strong bleached and ser/alb altered. Cpy>py.	
62.0-64.8	Porphyry (Bethlehem) Fp-1?		ckle/dis bx loc crushed	ser, chl, carb loc cly	num qtz vnlt + frags to 1 cm	(loc jar) loc jar loc goe?	-	patchy sil ser (chl) (cly)	ser chl carb loc cly (cly)	chl	(loc NCu)	(NCu)	tr cpy tr py	(loc py)	wk/ mod	May be related to Bethlehem crowded feldspar porphyry Fp-1, though distinctly finer grained than usual. Strong pervasive alteration continues	
64.8-68.3	Porphyry (Bethlehem) Fp-1?		wk ckle bx	ser, chl, (carb)	wk qtz vnlt to 1 cm	loc jar loc goe? Mn	-	patchy ser chl	ser chl (carb)	chl	(loc NCu)	loc NCu	cpy (py)	(loc cpy) tr chalc py	-	Fe-Mn oxides on fracs. H ₂ SO ₄ positive. NCu on fracs usually where jar and other Fe oxides are strongest. Generally fine grained grey porphyry as above, holocrystalline matrix. Sparse chl after hbde needles.	

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.				
68.3-71.5	Porphyry (Bethlehem) Fp-1? wk fault zone	?, suspect some lost	wk ckle bx loc shatt/ crushed	ser, chlr, carb (loc cly)	wk qtz vnlt to 2.5 cm, vuggy	-	loc jar	-	ser (chlr)	ser chl	-	(loc NCu)	patchy cpy	py	-	Several fragments of strong alb/ep altered Guichon probably xenoliths. Oxide zone ends.	
71.5-74.7	Porphyry (Bethlehem) Fp-1? wk fault zone		stng/bkn, loc shatt	ser, carb, chl cly in gge	qtz vnlt frags	(loc hem stn alb)	(loc jar)	-	ser (chl)	ser chl	-	-	py tr cpy	py	-	Py disseminated in gouge.	
74.7-79.4	Guichon fault zone	loc 74.1 - 74.7 m loc 75.0, 76.4, 78.0- 78.5 m	stng/ckle, loc int/crushed	ser, chl, carb (carb), cly in gge	wk qtz vnlt frags	(loc hem stn alb & ser)	-	ser patchy chl (loc carb) (cly)	ser chl (carb) cly in gge	-	-	py (cpy)	py	-	Py diss in gouge and in crushed zones. Shear approximately parallel to core axis.		
79.4-83.2	Guichon wk fault zone	loc thin & num slip surfaces ~ // to C.A.	mod/stng loc int/crushed	ser, chl, carb loc cly	wk qtz vnlt & frags	-	-	ser chl loc carb cly?	ser chl carb loc cly	-	-	py	py	-	Very strong pervasive chl/ser alteration overall.		
83.2-86.4	Guichon (Hybrid?) loc mafic rich	some slip	mod/stng, loc wk ckle/bkn	ser, chl, carb	wk qtz vnlt	(loc jar)	loc jar	-	ser chl (loc carb)	ser chl (carb) loc cly	-	(loc NCu)	(py) tr cpy	py	-	Possible melt (not sheared) contact with grey? porphyry 86.4 m. Short intervals of strong bleached sericitic porphyry. NCu occurrences appear restricted to frags in porphyry, especially with jar and occasionally in strong ser fract coatings	
86.4-90.8	Porphyry (Bethlehem) crowded D3?	some slip	mod/stng, loc wk ckle/shatt	ser, (chl) (carb) (qtz)	wk carb vnlt	-	loc jar	-	patchy ser (chl) loc alb patchy ep	ser (chl) (carb) (qtz)	chl (ep?)	(loc NCu)	py tr cpy	py	-	Probably grey crowded porphyry similar to that seen in DDH 95-29 (aka Dam Porphyry). Phenos frequently ghost-like, where least altered. Patchy/ stained frags. 89.7-90.8 m. (rusty chlorite?) Quite brittle.	
90.8-94.4	Porphyry (Bethlehem) crowded wk fault zone D3?	num slip surfaces	shatt, loc ckle/ dis bx, loc crushed	ser, chl, carb	wk qtz vnlt to 2 cm	(loc jar)	loc jar	-	patchy alb loc ser patchy chl	ser chl carb	-	tr NCu	py	py	-	Fe oxides on frags. H ₂ SO ₄ negative. Phenos locally ghost-like, where least altered. Patchy/ clotted mafics; chl after hbde suggests D3 crowded porphyry.	

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.
94.4-97.5	Porphyry (Bethlehem)	loc thin & slip	ckle/dis bx loc shatt/ surfaces	ser, chlr (carb)	wk qtz vnlt & frags	patchy hem stn ser	jar		(loc ep) (cly)	ser chl (carb)			tr	NCu	py	py		Fe oxides H ₂ SO ₄ negative. Sheared contact with strongly altered Guichon 97.5 m.
	crowded D3? wk fault zone		crushed						patchy chl ser									
97.5-98.3	Guichon		bkn/shatt	ser, chlr, carb		loc hem stn alb & ser			ser chl (carb) (cly)	ser chl carb					(cpy) py	py		Probably small slice of Guichon in shear system (or xenolith?)
98.3-101.3	Porphyry (Bethlehem)	loc 98.8 m	ckle/dis bx bkn/shatt loc crushed	ser, (chl) carb, loc cly	wk qtz vnlt w/(mo) & py	(loc jar)			patchy ep ser (chl) (cly)	ser (chl) carb loc cly					py	py (loc mo)		Well developed and strongly bleached (mostly qtz with minor ser) alteration envelope on py seams, frags and qtz veinlets. Quite bleached throughout with ghost-like phenos where least altered. Plagioclase phenos usually white; weak argillic alteration. Thin section required.
101.3-105.1	Porphyry (Bethlehem)		stgn/bkn, loc shatt/crushed	ser, chlr, carb	wk qtz vnlt w/py				(cly) loc ser chl patchy ep	ser chl carb					py	py		Several sections of strongly altered Guichon-xenoliths. Very strong ep/alb at contacts. Phenos generally ghost-like. Well developed alteration envelope, especially in porphyry
105.1-108.2	Porphyry (Bethlehem)	loc 105.5 m	ckle/dis bx, loc shatt	ser, chlr, carb	num qtz/py healed fracts & vnlt 1-3 mm				(cly) patchy ser patchy chl	ser chl carb					py (loc cpy)	py (cpy)		Well developed alteration envelopes (0.5-1 cm) on healed fracts and veinlets with pervasively disseminated ep. Strongly bleached and siliceous where concentration of fracts is greatest. 2-3% py. Continued argillic altered; plagioclase phenos white, groundmass grey-green/pale cream green.
108.2-111.8	Porphyry (Bethlehem)	loc thin	ckle bx, loc shatt/crushed shatt/crushed some open fracts & open spaces in bx	ser, chl carb, loc cly carb, loc cly	wk qtz vnlt w/py w/py				(cly) (cly) ser (chl) ep	ser chl carb loc cly					py (loc cpy)	py (cpy)		Alteration envelopes as above. Overall alteration intensity similar to previous interval. Cpy occurs mainly in fracts with weakest alteration envelopes and disseminated within the alteration envelopes. Locally complete ser alteration where crushed. Py 1.5-2%
111.8-115.7	Porphyry (Bethlehem)	loc thin	ckle/dis bx loc crushed	ser, (chl) carb, loc cly qtz	wk irreg carb vnlt wk qtz vnlt w/py and (mo)				sil, ser loc alb loc chl (cly)	ser carb (chl) loc cly qtz					py tr cpy	py (mo)		Increasing overall alteration intensity. Very strongly bleached and siliceous--fract controlled--qtz flooded.

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			
115.7-119.3	Guichon wk fault zone	loc, several sections	ckle/dis bx crushed	ser, chlr, carb loc cly	qtz & carb frags qtz/py vnlt to 1.5 cm	-	-	-	ser chl loc carb cly	ser carb chl loc cly	-	-	-	py tr cpy	py	-	Sheared contact between porphyry and strongly altered Guichon with strong py (loc high gangue sulphides.) Py 3-4%
119.3-122.1	Guichon wk fault zone	loc 120.3 m	stng/int, loc shatt/crushed	ser, chlr, carb loc cly	wk qtz vnlt	-	-	-	(loc alb) ser ser chl patchy ep (cly)	ser chl carb loc cly	-	-	-	py tr cpy	py	-	Aplite dykelet, 119.6-120.1 m, may be aplitic porphyry--too altered and bleached to be certain Dykelet is pre-mineral. Sharp decrease in py veinlets and fracture filling. Intensity of alteration envelopes also weaker.
122.1-125.7	Guichon (Hybrid) loc mafic rich	-	wk/mod	ser, chlr, carb loc qtz	wk qtz & py vnlt 0.5-5 mm	loc hem stn alb	-	-	patchy alb (chl) loc ser (patchy ep) loc qtz	ser chl carb loc ep loc qtz	chl	-	-	py (cpy)	py	wk/ mod	Scattered mafic xenoliths. Qtz healed shear zone 125.6 m, with milled clasts of Guichon and porphyry? Strong diss py in matrix. Well developed bleached sericitic alteration envelopes on fracts and veinlets. Overall alteration intensity decreasing. Py ~2%
125.7-129.5	Guichon	-	wk/mod, loc stng/bkn	ser, carb, chl	wk/mod qtz & py healed fracts & vnlt 0.5-2 mm	patchy hem stn alb	-	-	patchy alb loc ep ser (cly)	loc ep ser chl carb	chl	-	-	py (cpy)	py	wk/ mod	Patchy fresh, black biotite. Weak microstockwork 0.5-1% py. Local strongly bleached qtz and ser alteration envelopes on veinlets and fractures to 1.5 cm. Locally strong fracture controlled ser ± cly alteration.
129.5-132.6	Guichon	loc 131.9 m	mod/stng, loc crushed	ser, chl, carb loc qtz, loc cly	wk qtz & py vnlt 0.5-3 mm	patchy hem stn alb	-	-	patchy ep patchy ser chl alb	loc ep ser chl loc qtz loc cly	chl	-	-	py (cpy)	py	wk	Unknown rose-pink fract filling, not likely hematite, non-effervescent, associated with ep, possibly zeolite? Thin section required. 1% py. Bleached qtz and ser alteration envelopes to 1 cm on veinlets and fractures.
132.6-136.4	Guichon	loc 133.2 m	wk/mod, loc stng, loc healed ckle bx	ser, chl, carb loc cly	num qtz & py vnlt 1-5 mm crosscutting	loc hem stn alb	-	-	patchy chl loc ser patchy alb loc ep loc sil	ser chl carb loc ep loc cly	chl	-	-	py (cpy)	py	wk	Diffuse ep frequently in alteration envelopes with hem stain alb margins. Generally well developed alteration envelopes throughout on fracts and veinlets. Some open spaces in healed ckle bx. Crosscutting qtz and py veinlets especially sub-parallel and 60-90° C.A. Py coarse grained 2-3%
136.4-140.3	Guichon	some slip	wk/mod, loc healed ckle bx, stng set at 60-70° C.A.	loc ser, qtz, (carb) chl	num qtz/py healed fracts; qtz & py vnlt 1-5 mm crosscutting	(loc hem stn alb)	-	-	chl alb loc ep (loc ser)	loc ser qtz (carb) chl loc ep	-	-	-	py	py	wk/ mod	Open spaces in most py/qtz healed fracts and veinlets. Py 2-3%. Crosscutting qtz and py veinlets as in previous interval. Strongly developed bleached qtz and ser alteration envelopes to 2 cm. Pink mottling associated with ep.

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			
140.3-144.3	Guichon	loc 143.7 m	wk	ser, chlr, cly in gge, (carb)	wk irreg qtz & carb vnits	loc hem stn alb	-	-	chlr loc ep loc alb ser bio	ser chl carb cly in gge	chl	-	-	(py) (loc cpy)	py (cpy)	wk	Patchy, fresh black biotite. Pervasive alteration intensity, especially chl/ser/carb, increasing with depth, becoming strong at bottom. Py 1-1.5%
144.3-148.4	Guichon (Hybrid) loc mafic rich	loc 146.3 m	wk, loc stng/ ckle	ser, chl, carb cly in gge	wk irreg qtz & carb vnits	loc hem stn alb	-	-	chl ep loc alb ser (bio) (carb)	ser chl carb cly in gge	-	-	(py) (loc cpy)	py	wk	Scattered partially assimilated xenoliths. Patchy fresh black biotite. Reactivated, healed shear zone, 145.8-146.4 m, 10-20° C.A., strong vuggy, carb veinlets and void filling, milled and brecciated with carb and wallrock frags, (cpy) in matrix. Py 0.5-1%	
148.4-152.2	Guichon (Hybrid) loc mafic rich	loc & abd slip surfaces	int/crushed	ser, chl, carb loc cly	-	-	-	-	chl ser chl? (carb) (ep)	ser chl carb loc cly (loc ep)	-	-	py (loc cpy)	(py)	-	Entire interval sheared/crushed and weakly chl healed. Pink speckling associated with ep; stained feldspar or alteration mineral? Thin section required.	
152.2-155.6	Guichon fault zone	loc & num slip surfaces	mod/stng, loc crushed/ sheared	ser, chl, carb loc cly	wk irreg carb vnits qtz vnlt frags	patchy hem stn alb	-	-	loc alb chl ser loc ep (bio)	ser chl carb loc cly loc ep	-	-	py (cpy)	(py)	wk/ mod	Dissp cpy increasing; py decreasing both pervasively and especially on fract. Crush zone 152.8-153.6 m with crushed sulphides and qtz veinlets	
155.6-159.7	Guichon	-	wk loc crushed	chl, ser, carb	wk qtz/chl/ py healed fracts	loc hem stn alb & ep	loc hem stn ser & chl	-	loc ep loc alb patchy chl ser	loc ep chl ser carb	chl (ep)	-	(py) (loc cpy) py	(loc cpy) py	wk/ mod	Unknown rose-pink fracture filling with ep; see 129.5-132.6 m interval. Strong red supergene? hematite fract coatings locally with py and occasionally with fine grained (cpy). Py 0.5%	
159.7-163.2	Guichon wk fault zone	loc thin & some slip at ~ 50° C.A.	mod/stng, loc bkn/shatt, loc crushed	loc cly, ser chl, carb	wk qtz vnits w/(cpy) & (mo)	loc hem stn alb	(loc hem stn ser)	-	patchy ep loc alb	loc ep chl (ep)	chl (ep)	-	(loc py) (cpy) (mo)	(py) (cpy) (mo)	wk	Diffuse ep within alteration envelopes and associated with fract. Overall alteration intensity increasing with depth.	
163.2-165.2	Guichon	loc thin & some slip	wk/mod	ser, chl, carb loc cly	wk qtz/chl/ py healed fracts	-	-	(cly) chl ser carb (patchy ep)	ser chl carb loc cly	-	-	(loc py)	(py)	loc wk	Overall strong to very strong pervasive alteration with complete chl/ser alteration. Py < 0.5%. Alteration envelopes are weakly developed, usually ser ± cly, no siliceous alteration envelopes present.		
EOH 165.2 m																	

DH 95-30

Northing: 5604086.0			DDH 95-30				Azimuth: 045		
Easting: 641660.5			Elevation: 1704.6 m				Inclination: -45		
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	from	to							
26740	13.7	15.2	0.61	0.52	-	-	-	-	Guichon:
26741	15.2	16.7	0.62	0.49	-	-	-	-	"
26742	16.7	18.2	0.59	0.52	-	-	-	-	"
26743	18.2	19.7	1.44	1.38	-	-	-	-	"
26744	19.7	21.2	0.53	0.44	-	-	-	-	"
26745	21.2	22.7	0.36	0.34	-	-	-	-	Porph (Beth):
26746	22.7	24.2	0.30	0.24	-	-	-	-	"
26747	24.2	25.7	0.34	0.30	-	-	-	-	"
26748	25.7	27.2	0.56	0.49	-	-	-	-	"
26749	27.2	28.7	0.54	0.53	-	-	-	-	"
26750	28.7	30.2	0.54	0.53	-	-	-	-	"
26751	30.2	31.7	0.43	0.40	-	-	-	-	"
26752	31.7	33.2	0.63	0.61	-	-	-	-	"
26753	33.2	34.7	0.66	0.62	-	-	-	-	"
26754	34.7	36.2	0.51	0.48	-	-	-	-	"
26755	36.2	37.7	0.54	0.53	-	-	-	-	"
26756	37.7	39.2	0.54	0.52	-	-	-	-	"
26757	39.2	40.7	0.35	0.06	-	-	-	-	fault zone
26758	40.7	42.2	0.27	<.01	-	-	-	-	"
26759	42.2	43.7	0.42	<.01	-	-	-	-	"
26760	43.7	45.2	0.46	<.01	-	-	-	-	fault zone
26761	45.2	46.7	0.49	<.01	-	-	-	-	"
26762	46.7	48.2	0.53	<.01	-	-	-	-	fault zone
26763	48.2	49.7	0.46	0.08	-	-	-	-	"
26764	49.7	51.2	0.42	<.01	-	-	-	-	fault zone
26765	51.2	52.7	0.34	0.30	-	-	-	-	"
26766	52.7	54.2	0.36	0.35	-	-	-	-	"
26767	54.2	55.7	0.32	0.05	-	-	-	-	"
26768	55.7	57.2	0.31	<.01	-	-	-	-	"
26769	57.2	58.7	0.23	0.03	-	-	-	-	"
26770	58.7	60.2	0.40	0.04	-	-	-	-	"
26771	60.2	61.7	0.24	0.04	-	-	-	-	"
26772	61.7	63.2	0.31	0.05	-	-	-	-	"
26773	63.2	64.7	0.23	0.05	-	-	-	-	"
26774	64.7	66.2	0.29	0.09	-	-	-	-	"
26775	66.2	67.7	0.26	0.09	-	-	-	-	"
26776	67.7	69.2	0.37	0.08	-	-	-	-	"
26777	69.2	70.7	0.44	-	0.2	0.01	5	<.001	"
26778	70.7	72.2	0.56	-	0.4	0.01	5	0.002	wk fault zone
26779	72.2	73.7	0.49	-	0.1	0.01	5	<.001	"
26780	73.7	75.2	0.19	-	0.1	0.01	5	0.001	Guichon:
26781	75.2	76.7	1.06	-	1.4	0.04	5	0.002	fault zone
26782	76.7	78.2	0.24	-	0.6	0.02	5	0.001	"
26783	78.2	79.7	0.34	-	0.4	0.01	5	0.001	"

Sample Number	Interval (m)		% Total Cu	% Non- Sulphide Cu	Ag	Ag	Au	% Mo	Lithology
	From	To			(g/t)	(oz/t)	(ppb)		
26784	79.7	81.2	0.37	-	0.3	0.01	5	0.002	Guichon:
26785	81.2	82.7	0.40	-	0.3	0.01	5	0.001	wk fault zone
26786	82.7	84.2	0.37	-	0.2	0.01	5	0.007	Guichon (Hybrid?):
26787	84.2	85.7	0.42	-	0.3	0.01	5	<.001	"
26788	85.7	87.2	0.36	-	0.2	0.01	5	0.002	Porph (Beth)
26789	87.2	88.7	0.14	-	0.1	0.01	5	<.001	crowded:
26790	88.7	90.2	0.33	-	0.1	0.01	5	0.001	"
26791	90.2	91.7	0.19	-	0.1	0.01	5	<.001	wk fault zone
26792	91.7	93.2	0.17	-	0.1	0.01	5	0.001	"
26793	93.2	94.7	0.23	-	0.1	0.01	5	0.001	wk fault zone
26794	94.7	96.2	0.36	-	0.1	0.01	5	0.002	"
26795	96.2	97.7	0.25	-	0.1	0.01	5	0.026	Guichon:
26796	97.7	99.2	0.47	-	0.4	0.01	5	0.009	Porph (Beth)
26797	99.2	100.7	0.28	-	0.1	0.01	5	0.021	crowded:
26798	100.7	102.2	0.21	-	0.1	0.01	5	0.005	"
26799	102.2	103.7	0.62	-	0.4	0.01	5	0.004	"
26800	103.7	105.2	0.22	-	0.2	0.01	5	0.001	"
26801	105.2	106.7	0.29	-	0.2	0.01	5	0.008	"
26802	106.7	108.2	0.17	-	0.1	0.01	5	0.003	"
26803	108.2	109.7	0.21	-	0.1	0.01	5	0.002	"
26804	109.7	111.2	0.15	-	0.1	0.01	5	0.003	"
26805	111.2	112.7	0.12	-	0.1	0.01	5	0.007	"
26806	112.7	114.2	0.09	-	0.1	0.01	5	0.028	"
26807	114.2	115.7	0.13	-	0.1	0.01	5	0.012	"
26808	115.7	117.2	0.13	-	0.2	0.01	5	0.009	Guichon:
26809	117.2	118.7	0.11	-	0.2	0.01	5	0.008	wk fault zone
26810	118.7	120.2	0.10	-	0.2	0.01	5	0.001	wk fault zone
26811	120.2	121.7	0.14	-	0.6	0.02	5	<.001	"
26812	121.7	123.2	0.11	-	0.2	0.01	5	<.001	Guichon (Hybrid):
26813	123.2	124.7	0.13	-	0.2	0.01	5	<.001	"
26814	124.7	126.2	0.16	-	0.1	0.01	5	0.001	Guichon:
26815	126.2	127.7	0.16	-	0.3	0.01	5	<.001	"
26816	127.7	129.2	0.15	-	0.4	0.01	5	0.001	"
26817	129.2	130.7	0.20	-	0.3	0.01	5	0.008	"
26818	130.7	132.2	0.14	-	0.1	0.01	5	<.001	"
26819	132.2	133.7	0.11	-	0.2	0.01	5	0.003	"
26820	133.7	135.2	0.17	-	0.3	0.01	5	0.001	"
26821	135.2	136.7	0.16	-	0.2	0.01	5	0.011	"
26822	136.7	138.2	0.17	-	0.2	0.01	5	<.001	"
26823	138.2	139.7	0.22	-	0.4	0.01	5	<.001	"
26824	139.7	141.2	0.17	-	0.4	0.01	5	0.001	"
26825	141.2	142.7	0.18	-	0.3	0.01	5	<.001	"
26826	142.7	144.2	0.11	-	0.1	0.01	5	0.004	"
26827	144.2	145.7	0.11	-	0.2	0.01	5	<.001	Guichon (Hybrid):
26828	145.7	147.2	0.09	-	0.6	0.02	5	0.030	"
26829	147.2	148.7	0.08	-	0.1	0.01	5	<.001	"
26830	148.7	150.2	0.15	-	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							
26831	150.2	151.7	0.15	-	0.1	0.01	5	<.001	Guichon (Hybrid):
26832	151.7	153.2	0.13	-	0.1	0.01	5	<.001	Guichon:
26833	153.2	154.7	0.11	-	0.2	0.01	5	0.001	fault zone
26834	154.7	156.2	0.12	-	0.1	0.01	5	<.001	"
26835	156.2	157.7	0.06	-	0.1	0.01	5	0.001	"
26836	157.7	159.2	0.08	-	0.1	0.01	5	0.001	"
26837	159.2	160.7	0.09	-	0.1	0.01	5	0.011	wk fault zone
26838	160.7	162.2	0.08	-	0.1	0.01	5	<.001	"
26839	162.2	163.7	0.09	-	0.1	0.01	5	0.002	"
26840	163.7	165.2	0.09	-	0.1	0.01	5	<.001	"
end of hole									

GETTY NORTH PROJECT

Gower Thompson & Associates Ltd.

DDH # 95-31		Date	28-Nov-95		Logged by		VN												
Elevation		Azimuth	263°		UTM														
Inclination		Length	234.8 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	Overburden & volcanics					loc Fe		Fe, cly											Rubbles and several sections of polymictic volcanic Bx/agglomerate? with mixed angular and rounded clasts. Matrix appears to consist of comminuted volcanics. Possible devitrification of glass fragments.
7.6-12.9	Volcanics and seds					Fe loc goe?		Fe, cly											Intervals of clay, sediments and volcano-sediments, volcanoclastics?
12.9-16.9	Volcanics and seds					Fe	loc Fe	Fe, cly											Intervals of volcanics and volcano-sediments-- some evidence of flow (possibly Lahars??)
16.9-21.1	Volcanics and seds					Fe		Fe, cly											Volcanoclastics? Milled/brecciated volcanics, weak foliated.
21.1-25.7	Volcanics and seds					(Fe)		Fe, cly											Polymictic volcanic agglomerate?
25.7-29.3	Volcanics/ Polymictic Bx					Fe		Fe, cly											Polymictic breccia with clasts of strong weathered Guichon, weakly altered. Bethlehem Porphyry (probably Witches Brook Phase) and various volcanics
29.3-33.7	Volcanics/ Polymictic Bx and seds					loc jar		Fe, cly											As above with larger clasts/fragments of Guichon and various porphyries (crowded, grey porphyry et al.)
33.7-37.3	Polymictic Bx/ seds						loc Fe	Fe (cly)											Milled, rounded and angular fragments of Guichon and various porphyries in volcanic matrix.
37.3-41.3	Sediments							cly											Clasts of rounded to angular Guichon and various porphyries in volcanic matrix. Numerous plant (wood) fragments to 10.0 cm. Fanglomerate? Pyr in some clasts.
41.3-45.5	Sediments							cly											Matrix finer grained than above, more clays. Numerous wood/plants fragments
45.5-48.8	Sediments					loc Fe		Fe, cly											Rounded Guichon and porphyry clasts in coarse sand matrix. Becoming jarositic with depth.
48.8-53.0	Porphyry (Bethlehem) crowded, grey		bkn/shatt, loc crushed	ser, chlr, cly		loc jar	jar, loc hem	Fe, cly	ser, (chl)	ser chl		(NCu)	NCu	(loc pyr)	pyr (cpy?)				Very strong jar/cly fracture coatings. Strong Fe-stained alteration envelope on fracts. Fine grained NCu on fracts, frequently with pyr and (cpy?) Unknown silver, metallic mineral with pyr and NCu-arsenopyrite?

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
53.0-56.8	Porphyry (Bethlehem) crowded, grey		ckle bx, loc crushed	ser, chlr, cly		loc jar	jar	Fe, cly	ser chl loc sil	ser chl cly		(loc NCu)	(patchy cpy) pyr	pyr			Very well prepared locally strong pyr remaining on fractgs--most has been oxidized	
56.8-60.2	Porphyry (Bethlehem) crowded, grey		ckle/dis bx loc crushed	ser, chlr, loc cly		loc jar	jar	Fe, cly	ser patchy chl	ser chl loc cly			loc cpy pyr	pyr loc cpy			Possible sooty chalcocite with cpy, Arsenopyrite? Jarositic zone effectively ends at 59.6 m.	
60.2-63.6	Porphyry (Bethlehem) crowded, grey		ckle/dis bx loc int/crushed	ser, chlr, (carb) (loc cly)					ser patchy chl loc sil (loc ep) loc alb	ser chl (carb) (loc cly)			pyr	pyr (cpy)			Cpy on fractgs frequently tarnished. Very well prepared rock. Strong fracture controlled pervasive alteration with well developed, bleached, siliceous alteration envelope. Alteration intensity decreasing slightly with depth.	
63.6-67.3	Porphyry (Bethlehem) crowded, grey		ckle bx, loc crushed	ser, chlr, (carb)					alb chl ep patchy ser	ser chl (carb)	ep chl alb		loc cpy pyr	pyr cpy	tr		Well developed alteration envelope in well prepared rock. Cpy increasing. Pyr>cpy	
67.3-71.1	Porphyry (Bethlehem) crowded, grey		ckle/dis bx loc crushed	ser, chl (carb) (loc cly)					alb ep chl patchy ser	ser chl (carb) (loc cly)	chl ep		pyr (loc cpy)	pyr (cpy)	tr		Ghost-like phenos; very well prepared rock. Overall alteration intensity decreasing.	
71.1-74.9	Porphyry (Bethlehem) crowded, grey		ckle/dis bx loc crushed	ser, chl (carb)					alb ep patchy chl loc ser	ser chl (carb)	chl ep		pyr (loc cpy)	pyr (cpy)			Ghost-like phenos; fractures often not completely healed--open spaces. Pyr on fractgs, decreasing	
74.9-79.1	Porphyry (Bethlehem) crowded, grey		ckle/wk dis bx loc crushed	ser, chl (carb), cly?					alb ep loc ser (patchy chl)	ser chl (carb) cly?	chl ep?		pyr tr cpy	pyr (cpy)			Check for clays. Locally complete ser alteration, elsewhere strong on fractgs. Alteration envelope weak to moderately developed.	
79.1-82.8	Porphyry (Bethlehem) crowded, grey wk fault zone	loc 81.6 m ~ 10.0 cm	ckle/dis bx loc crushed	ser, chl, carb loc cly					patchy ep (chl) alb loc ser	ser chl carb loc cly	chl ep		pyr tr cpy	pyr			Increased fracture intensity and overall alteration intensity. Locally complete ser alteration.	
82.8-86.3	Porphyry (Bethlehem) crowded, grey		strong/int, loc ckle bx	ser, chl, carb (loc cly)					alb ep patchy chl loc ser	ser chl carb (loc cly)	chl ep		pyr tr cpy	pyr			Locally strong pyr on fractures. Moderated to well developed alteration envelope on fractgs.	

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
86.3-90.2	Porphyry (Bethlehem) crowded, grey		int/ckle bx, loc crushed	ser, chl, carb (loc cly)				alb, ep patchy chl loc ser	ser chl carb (loc cly)	chl ep			pyr tr cpy	pyr			Fracture intensity and overall alteration intensity increased.	
90.2-93.7	Porphyry (Bethlehem) crowded, grey		int/ckle bx loc crushed	ser, chl, carb (loc cly)				alb loc ser (chl) ep	ser chl carb (loc cly)	chl ep			pyr pyr				Several sections with complete ser alteration. Rock is very well prepared.	
93.7-96.7	Porphyry (Bethlehem) crowded, grey fault zone	loc several sections	dis bx/crushed loc milled	ser, chl, carb loc cly				alb ep (chl) patchy ser	ser chl carb loc cly ser				pyr pyr				Most of interval is dis bx with milled, clay rich matrix of comminuted porphyry. Strong pyr on fracts and in Bx matrix.	
96.7-100.1	Guichon		stng/int, loc crushed	ser, chl, carb loc cly				ser chl loc alb	ser chl carb loc cly				pyr cpy	pyr cpy			Locally complete ser alteration. Pyr-cpy.	
100.1-103.6	Guichon/ Porphyry (Bethlehem) crowded, grey fault zone	loc w/ fault bx 100.1- 101.9 m	stng/int, loc fault bx/milled	ser, chl, carb loc cly				patchy ser chl alb ep	ser chl carb loc cly				pyr cpy	pyr cpy			Fault breccia with intervals of gouge, with milled clasts of Guichon and crowded porphyry in clay rich matrix. Well developed, siliceous alteration envelope on sulphide-bearing fracts.	
103.6-107.3	Porphyry (Bethlehem) crowded, grey /Tertiary Dyke		stng/int, loc ckle/dis bx	ser, chl, (carb)				patchy ser chl	ser chl (carb)				pyr	pyr	loc wk		Tertiary dyke 105.1-106.4 m with brecciated contacts in porphyry	
107.3-110.0	Porphyry (Bethlehem) crowded, grey		ckle/dis bx, loc milled, some open spaces	ser, chl, (carb)				patchy ser chl	ser chl (carb)				(pyr)	(pyr)	tr		Intrusive breccia in crowded porphyry, matrix is both comminuted porphyry and Tertiary volcanics.	
110.0-122.8	Tertiary Dyke		wk															Vesicular, flow alignment at ~ 50° C.A.
122.8-126.9	Porphyry (Bethlehem) crowded, grey	loc 2-4 cm 125.7 m, some slip surfaces	ckle/dis bx loc crushed	ser, chl, tr carb, (qtz) cly in gge	wk qtz vnlt			(chl) ser	ser chl tr carb cly in gge (qtz)	chl ep			pyr tr cpy	(pyr) tr cpy tr mo	wk		Pyr>>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.			
126.9-130.2	Porphyry (Bethlehem) crowded, grey	loc thin	stng/loc ckle bx, loc crushed	ser, chlr (carb) loc cly, (qtz)					(chl) ser loc ser	chl ep alb?				pyr tr cpy	pyr tr cpy			Moderate developed alteration envelope on fract.
130.2-133.6	Porphyry (Bethlehem) crowded, grey		ckle bx, loc mod/stng	ser, chl, loc carb, (qtz) loc cly					(chl) ser loc ser	chl ep alb				pyr tr cpy	pyr tr cpy			Moderate to well developed alteration envelope on fract. Very fine grained diss (cpy) with mafics.
133.6-136.4	Porphyry (Bethlehem) crowded, grey	some slip	stng/bkn	(ser), chl (qtz) (carb)					(patchy ser) (loc chl)	(ser) chl (qtz) (carb) (alb?)				pyr	pyr (cpy)			Overall alteration intensity decreasing.
136.4-139.3	Porphyry (Bethlehem) crowded, grey		mod/stng, loc shatt	chl, ser, qtz (carb)	wk qtz vnlt w/ pyr				(loc ser)	chl ser qtz (carb)	chl ep alb?			pyr	pyr (cpy)	tr/wk		
139.3-142.5	Porphyry (Bethlehem) crowded, grey	loc thin	mod/stng, loc ckle	ser, (carb) chl, (loc cly)					(patchy ser)	ser chl (carb) (loc cly)	chl ep			tr pyr	pyr tr cpy	tr/wk		Weak developed bleached alteration envelope. Loc fract controlled ser alteration.
142.5-145.5	Porphyry (Bethlehem) crowded, grey		stng/bkn, loc crushed	ser, chl, tr carb (qtz)					(patchy ser)	ser chl tr carb (qtz)	chl ep			(pyr)	pyr (cpy)	wk		Slight increase in fract intensity.
145.5-148.8	Porphyry (Bethlehem) crowded, grey	loc thin	bkn/shatt	ser, chl, (qtz) loc carb	wk carb vnlt				alb? (patchy ser)	ser chl (qtz) loc carb	chl ep			(pyr0)	pyr tr cpy	tr/wk		
148.8-151.9	Porphyry (Bethlehem) crowded, grey	loc several sections	bkn/shatt loc crushed	ser, loc chl (qtz) carb, loc cly	wk irreg carb vnlt num pyr/qtz heal'd fract				loc ser chl alb? loc carb	ser loc chl carb loc cly	chl ep			pyr	pyr loc cpy			Local gouge/crushed zones 148.8-150.8 m
151.9-154.9	Porphyry (Bethlehem) crowded, grey	loc thin & some slip	stng/bkn loc crushed	ser (chl) carb, loc cly	wk irreg carb vnlt num pyr/qtz heal'd fract				(chl) (ser) alb?	ser (chl) carb loc cly	chl ep			(pyr0)	pyr tr cpy (mo?)			Weak to moderated alteration envelope on fract.
154.9-158.4	Porphyry (Bethlehem) crowded, grey wk fault zone	loc 156.7 m ~ 5 cm	loc dis bx bkn/shatt	ser, chl, carb loc cly	loc carb vnlt				ser loc chl	ser chl loc cly carb				(pyr)	pyr tr cpy			Locally strong ser in breccia matrix. Pyr on fract decreasing. Overall alteration intensity increasing stronger than previous interval.

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			
158.4-162.1	Porphyry (Bethlehem) crowded, grey	loc thin some slip	mod/stng loc crushed	mod ser (chlr), loc cly carb	wk irreg vuggy carb vnlt	-	-	-	(carb) ser	chlr (chlr)	-	-	-	(pyr) pyr	tr mo	-	-	
162.1-165.7	Porphyry (Bethlehem) crowded, grey	loc thin some slip	mod/stng	mod ser, chlr loc cly, carb	wk irreg carb vnlt loc qtz vnlt	-	-	-	carb ser	loc chlr (chlr)	-	-	-	(pyr) pyr	tr cpy	-	-	Loc qtz veinlet containing cpy, pyr, trace mo. Loc well developed bleached envelopes on fracts.
165.7-169.0	Porphyry (Bethlehem) crowded, grey	loc 166.2 m	mod/stng loc shatt	mod ser, (chlr) loc cly, carb (qtz)	wk qtz vnlt w/(cpy) & pyr	-	-	-	ser ser	(chlr) (chlr)	-	-	-	(pyr) pyr	tr cpy	-	-	A lot of fractures qtz and sulphide healed. Cpy on fractures increasing. Loc strong thin carb veinlets.
169.0-172.2	Porphyry (Bethlehem) crowded, grey	loc thin, some slip	stng/bkn loc mod	(qtz), ser, (chlr) (loc cly)	wk qtz vnlt wk carb vnlt	-	-	-	patchy chlr ser (carb) loc sil?	(qtz) ser (chlr) (loc cly)	-	-	-	(pyr) pyr	tr cpy	tr	-	Qtz veinlets contain weak cpy, mo, pyr. Lot of thin carb veinlets.
172.2-175.2	Porphyry (Bethlehem) crowded, grey	loc thin	stng/bkn loc mod	ser, chlr, carb, (qtz)	wk qtz vnlt	-	-	-	chlr (carb) ser	ser chlr carb qtz	-	-	-	pyr pyr	tr cpy	tr	-	Qtz veinlets contain cpy and mo weak to moderate developed alteration envelopes
175.2-178.5	Porphyry (Bethlehem) crowded, grey	177.6 m 3 cm at 30° C.A.	stng/bkn loc shatt	ser, chlr cly in gge	(carb vnlt)	-	-	-	chlr ser (carb)	ser chlr	-	-	-	(pyr) pyr	tr cpy	tr loc	-	Cpy increasing, crushed sulphides and chlr in carb veinlets.
178.5-181.3	Porphyry (Bethlehem) crowded, grey	-	stng/bkn, loc shatt/crushed	(ser, chlr) loc ser, carb	loc qtz vnlt	-	-	-	tr carb	(ser) (chlr) loc ser carb	-	-	-	tr pyr tr cpy	pyr (cpy)	-	-	Alteration intensity decreasing with depth. Carb concentrated in mafic patches. Pyr > cpy
181.3-184.1	Porphyry (Bethlehem) crowded, grey	-	bkn/shatt loc crushed	(qtz) (ser) (chlr) carb	wk qtz/chlr head fracts	-	(hem stn alb)	-	(alb) tr carb	(qtz) (ser) (chlr) carb	chlr	-	-	pyr patchy cpy	loc pyr loc cpy	tr	-	Trace mag from hem staining. Hem stained alb
184.1-187.2	Porphyry (Bethlehem) crowded, grey	loc thin	stng/bkn fract set at 40° C.A.	ser, chlr, carb	loc carb vnlt	-	(hem stn alb)	-	alb ser	chlr (ep) carb	chlr (ep)	-	-	pyr cpy	pyr (cpy) tr mo	(loc)	-	Hem stained alteration envelope. Increase in cpy/pyr in mafic patches.
187.2-190.7	Porphyry (Bethlehem) crowded, grey	some slip	wk/mod loc bkn	(ser) chlr, carb	carb, qtz/ carb vnlt loc wk	loc: wk hem?	hem stn ser/carb mottled	-	loc pot?	(ser) chlr carb	chlr (ep)	-	-	(loc cpy) (pyr)	(loc cpy) (pyr)	wk/mod	-	Local potassic? alteration envelopes on fracts? Mag concentrated in mafic patches. Stain for K-spar.
190.7-194.5	Porphyry (Bethlehem) crowded, grey	-	wk fract sets at 40 & 80° C.A.	ser, chlr, carb	singular qtz vnlt	-	-	-	(loc ser)	ser chlr carb	chlr (ep)	-	-	tr cpy (pyr)	tr mo (cpy) (pyr)	tr/wk	-	Strong fracture set at 40o C.A. Well healed fracts Weak 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			
194.5-198.1	Porphyry (Bethlehem) crowded, grey	loc thin	wk, loc shatt	(ser), loc qtz carb. (chlr) loc cly	(qtz) vnlt wk/mod heal'd fract qtz/chlr fracts	(loc hem stn ser)		(carb) alb (loc chlr) ser	(ser) loc qtz carb (chlr) loc cly	loc chlr		(pyr) tr cpy	(pyr) (cpy)	wk		Veinlets contain traces of mo and cpy. Discrete sericitic alteration of plag.		
198.1-201.9	Porphyry (Bethlehem) crowded, grey	loc slip surface	wk, loc mod	ser, chlr, carb (qtz)				(loc chlr) loc ser	ser chlr carb (qtz)	(chlr) (ep)		(cpy) (pyr)	(pyr) (cpy)	tr wk		Pervasive cpy increasing, concentrated in mafics (cpy=pyr). Pervasive sulphides > fracture sulphides.		
201.9-205.4	Porphyry (Bethlehem) crowded, grey/Guichon xenoliths	loc slip surface	mod/stng loc bkn	ser, chlr, carb (qtz)	(qtz vnlt) loc abd qtz/ chlr healed fracts			loc alb loc ser	ser chlr carb (qtz)			loc pyr loc cpy	loc pyr loc cpy			Partially assimilated xenolith of Guichon, mod/high concentration of cpy in Guichon mafics. Possible (?) crystalline clacite in fract. Phenocrysts locally ghost-like.		
205.4-209.3	Porphyry (Bethlehem) crowded, grey		wk/mod loc dis bx/ crushed	ser, chlr, carb	loc carb vnlt			loc ser loc chlr	loc ep ser chlr carb	ep chlr		(cpy) tr pyr	loc cpy (pyr)	od		Cpy in carb veinlet. Cpy in mafic patches.		
209.3-213.0	Porphyry (Bethlehem) crowded, grey	loc thin	wk/mod, loc stong/bkn	ser, chlr, carb loc cly				(loc ser)	ser chlr carb loc cly (ep)	(ep) chlr		tr cpy tr pyr	(loc cpy)	wk		Plag phenos slightly increasing in size. Weak sericitic alteration envelopes.		
213.0-216.6	Porphyry (Bethlehem) crowded, grey		wk/mod, loc bkn/shatt	(ser) (chlr) carb, wk/mod qtz	carb vnlt w/(cpy)	loc hem stn		loc alb	(ser) (chlr) carb wk/mod qtz	chlr (ep)		(pyr) tr cpy	(loc cpy) (pyr)	wk		**Thin section for alteration (tr cpy and pyr) in mafics.		
216.6-220.6	Porphyry (Bethlehem) crowded, grey	some slip	wk/mod, loc bkn	ser, chlr, carb cly in gge	wk irreg carb vnlt	(loc hem stn alb)		loc alb loc chlr patchy ser	ser chlr carb cly in gge	chlr (ep)		(pyr)	(pyr) (loc cpy)	tr/wk		Overall alteration intensity increasing. Weak developed, hem stained alteration envelope on fract. Phenos often ghost-like.		
220.6-224.4	Porphyry (Bethlehem) crowded, grey	some slip	wk/mod loc bkn	ser, chlr, carb	wk irreg carb microvnlt	loc hem stn alb	loc hem stn ser	loc alb	ser chlr carb loc ep	chlr (ep)		(loc pyr)	(pyr) (cpy)	wk		Locally strong ser and chlr on fract. Possible weak potassic alteration envelope (may be hem stain--stain for K-spar). Pyr in mafics. Magnetite in mafic clots.		
224.4-228.1	Porphyry (Bethlehem) crowded, grey	some slip	mod/stng, loc bkn, loc conjugated fract set 20 & 50° C.A. and strong set at 70° C.A.	carb ser, chlr	(carb vnlt)	loc hem stn alb	loc hem stn ser & carb	loc alb loc ser	carb ser chlr	chlr ep		tr pyr tr cpy	(pyr) tr cpy tr mo	wk/ mod		Locally pervasive ser fracture controlled pyr and cpy in mafics. Molybdenite smear on slip surface. Mag in mafics.		

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
228.1-231.3	Porphyry (Bethlehem) crowded, grey	some slip	bkn, loc stng	ser, (chlr) carb. (loc Qtz)	loc Qtz vnlt	-	loc hem stn ser	-	loc alb (loc chlr)	ser (chlr) carb	chlr ep	-	-	tr cpy (patchy pyr)	(cpy) (pyr)	mod		Locally strong ser/possibly clay on fracture surfaces. Qtz veinlets contain mo, cpy. Mag in mafics.
231.3-239.7	Porphyry (Bethlehem) crowded, grey	some slip	mod/stng loc crushed	chlr, ser, carb loc cly, (loc Qtz)	(Qtz vnlt)	-	-	-	loc alb loc fract cont- rolled ser	chlr ser carb loc cly (loc Qtz)	chlr (ep)	-	-	tr cpy tr pyr	loc mo	wk		**Check Mo assays. Qtz veinlets contain cpy and Mo. Hem stained alteration envelopes.
EOH 239.7																		

DDH 95-31

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
26841	48.8	50.3	0.10	0.04	-	-	-	-	
26842	50.3	51.8	0.10	0.03	-	-	-	-	
26843	51.8	53.3	0.11	0.03	-	-	-	-	
26844	53.3	54.8	0.06	0.02	-	-	-	-	
26845	54.8	56.3	0.06	0.02	-	-	-	-	
26846	56.3	57.8	0.12	0.04	-	-	-	-	
26847	57.8	59.3	0.28	0.06	-	-	-	-	
26848	59.3	60.8	0.14	0.04	-	-	-	-	
26849	60.8	62.3	0.20	-	0.1	0.01	5	<.001	
26850	62.3	63.8	0.26	-	0.1	0.01	5	0.001	
26851	63.8	65.3	0.24	-	0.1	0.01	5	0.001	
26852	65.3	66.8	0.11	-	0.1	0.01	5	0.001	
26853	66.8	68.3	0.16	-	0.1	0.01	5	0.001	
26854	68.3	69.8	0.11	-	0.1	0.01	5	0.002	
26855	69.8	71.3	0.21	-	0.1	0.01	5	0.002	
26856	71.3	72.8	0.17	-	0.1	0.01	5	0.001	
26857	72.8	74.3	0.16	-	0.1	0.01	5	0.004	
26858	74.3	75.8	0.10	-	0.1	0.01	5	<.001	
26859	75.8	77.3	0.09	-	0.1	0.01	5	<.001	
26860	77.3	78.8	0.14	-	0.1	0.01	5	<.001	
26861	78.8	80.3	0.08	-	0.1	0.01	5	0.001	
26862	80.3	81.8	0.08	-	0.1	0.01	5	0.001	
26863	81.8	83.3	0.09	-	0.1	0.01	5	0.001	
26864	83.3	84.8	0.11	-	0.1	0.01	5	0.001	
26865	84.8	86.3	0.10	-	0.1	0.01	5	<.001	
26866	86.3	87.8	0.12	-	0.1	0.01	5	<.001	
26867	87.8	89.3	0.09	-	0.1	0.01	5	0.001	
26868	89.3	90.8	0.13	-	0.1	0.01	5	0.001	
26869	90.8	92.3	0.07	-	0.1	0.01	5	<.001	
26870	92.3	93.8	0.08	-	0.1	0.01	5	<.001	
26871	93.8	95.3	0.07	-	0.1	0.01	5	0.002	
26872	95.3	96.8	0.12	-	0.1	0.01	5	0.003	
26873	96.8	98.3	0.17	-	0.3	0.01	5	0.001	
26874	98.3	99.8	0.17	-	0.5	0.02	5	0.001	
26875	99.8	101.3	0.21	-	0.1	0.01	5	0.008	
26876	101.3	102.8	0.11	-	0.1	0.01	5	0.013	
26877	102.8	104.3	0.10	-	0.1	0.01	5	0.002	
26878	104.3	105.8	0.04	-	0.2	0.01	5	0.001	
26879	105.8	107.3	0.05	-	0.1	0.01	5	0.001	
26880	107.3	108.8	0.07	-	0.2	0.01	5	0.022	
26881	108.8	110.3	0.06	-	0.1	0.01	5	0.001	
26882	122.3	123.8	0.04	-	0.1	<.01	5	0.001	
26883	123.8	125.3	0.11	-	0.1	<.01	5	0.002	
26884	125.3	126.8	0.27	-	0.1	<.01	5	0.011	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
26885	126.8	128.3	0.26	-	0.1	<.01	5	0.002	
26886	128.3	129.8	0.09	-	0.1	<.01	5	0.003	
26887	129.8	131.3	0.14	-	0.1	<.01	5	0.001	
26888	131.3	132.8	0.07	-	0.1	<.01	5	0.003	
26889	132.8	134.3	0.06	-	0.1	<.01	5	0.001	
26890	134.3	135.8	0.06	0.08	0.1	<.01	5	0.001	
26891	135.8	137.3	0.05	-	0.1	<.01	5	0.001	
26892	137.3	138.8	0.05	-	0.1	<.01	5	<.001	
26893	138.8	140.3	0.10	-	0.1	<.01	5	0.002	
26894	140.3	141.8	0.08	-	0.1	<.01	5	0.001	
26895	141.8	143.3	0.05	-	0.1	<.01	5	0.002	
26896	143.3	144.8	0.16	-	0.1	<.01	5	0.002	
26897	144.8	146.3	0.10	0.30	0.1	<.01	5	0.002	
26898	146.3	147.8	0.09	-	0.1	<.01	5	<.001	
26899	147.8	149.3	0.07	-	0.1	<.01	5	0.001	
26900	149.3	150.8	0.15	-	0.1	<.01	5	0.004	
26901	150.8	152.3	0.20	-	0.2	0.01	5	0.004	
26902	152.3	153.8	0.25	-	1.1	0.03	5	0.008	
26903	153.8	155.3	0.13	0.27	0.1	<.01	5	0.001	
26904	155.3	156.8	0.42	-	1.1	0.03	5	0.008	
26905	156.8	158.3	0.47	-	0.2	0.01	5	0.024	
26906	158.3	159.8	0.27	-	0.1	<.01	5	0.007	
26907	159.8	161.3	0.46	-	0.1	<.01	5	0.012	
26908	161.3	162.8	0.25	-	0.1	<.01	5	0.015	
26909	162.8	164.3	0.46	-	0.1	<.01	5	0.007	
26910	164.3	165.8	0.27	0.36	0.1	<.01	5	0.002	
26911	165.8	167.3	0.34	-	0.1	<.01	5	0.005	
26912	167.3	168.8	0.32	-	0.1	<.01	5	0.004	
26913	168.8	170.3	0.43	-	0.1	<.01	5	0.004	
26914	170.3	171.8	0.34	-	0.1	<.01	5	0.014	
26915	171.8	173.3	0.36	-	0.1	<.01	5	0.004	
26916	173.3	174.8	0.29	-	0.1	<.01	5	0.007	
26917	174.8	176.3	0.20	0.29	0.1	<.01	5	<.001	
26918	176.3	177.8	0.24	-	0.6	0.02	5	0.020	
26919	177.8	179.3	0.33	-	0.1	<.01	5	0.003	
26920	179.3	180.8	0.26	-	0.1	<.01	5	0.002	
26921	180.8	182.3	0.44	-	0.1	<.01	5	0.003	
26922	182.3	183.8	0.33	-	0.1	<.01	5	0.003	
26923	183.8	185.3	0.38	-	0.1	<.01	5	0.006	
26924	185.3	186.8	0.38	0.32	0.1	<.01	5	0.005	
26925	186.8	188.3	0.28	-	0.1	<.01	5	0.001	
26926	188.3	189.8	0.20	-	0.1	<.01	5	0.002	
26927	189.8	191.3	0.39	-	0.1	<.01	5	0.002	
26928	191.3	192.8	0.24	-	0.1	<.01	5	0.003	
26929	192.8	194.3	0.16	0.25	0.1	<.01	5	0.001	
26930	194.3	195.8	0.17	-	0.1	<.01	5	0.001	
26931	195.8	197.3	0.22	-	0.1	<.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							
26932	197.3	198.8	0.30	-	0.1	<.01	5	0.004	
26933	198.8	200.3	0.27	-	0.1	<.01	5	0.002	
26934	200.3	201.8	0.28	-	0.1	<.01	5	0.001	
26935	201.8	203.3	0.34	-	0.1	<.01	5	0.006	
26936	203.3	204.8	0.30	-	0.2	0.01	5	0.002	
26937	204.8	206.3	0.32	-	0.1	<.01	5	0.004	
26938	206.3	207.8	0.22	-	0.1	<.01	5	0.002	
26939	207.8	209.3	0.18	-	0.1	<.01	5	0.001	
26940	209.3	210.8	0.20	-	0.1	<.01	5	0.003	
26941	210.8	212.3	0.21	-	0.1	<.01	5	0.002	
26942	212.3	213.8	0.15	-	0.1	<.01	5	0.001	
26943	213.8	215.3	0.09	-	0.1	<.01	5	0.001	
26944	215.3	216.8	0.09	-	0.1	<.01	5	<.001	
26945	216.8	218.3	0.18	-	0.1	<.01	5	0.003	
26946	218.3	219.8	0.23	-	0.1	<.01	5	0.004	
26947	219.8	221.3	0.23	-	0.1	<.01	5	<.001	
26948	221.3	222.8	0.13	-	0.1	<.01	5	<.001	
26949	222.8	224.3	0.12	-	0.1	<.01	5	0.001	
26950	224.3	225.8	0.08	-	0.1	<.01	5	0.001	
26951	225.8	227.3	0.09	-	0.1	<.01	5	0.001	
26952	227.3	228.8	0.14	-	0.1	<.01	5	0.001	
26953	228.8	230.3	0.22	-	0.1	<.01	5	0.002	
26954	230.3	231.8	0.19	-	0.1	<.01	5	0.008	
26955	231.8	233.3	0.23	-	0.1	<.01	5	0.003	
26956	233.3	234.7	0.20	-	0.1	<.01	5	0.010	

end of hole

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 95-32		Date	2-Dec-95							Logged by		F, V							
Elevation		Azimuth	225°							UTM									
Inclination		-50°	Length	425.2 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				
0-6.1	Casing & overburden																		
6.1-10.7	Seds & volcanic ash?					Fe		Fe, cly										Volcanic ash (?) bottom 70 cm. Most clasts in sediments appear to be volcanics.	
10.7-14.5	volcanic seds volcanic ash poorly consolidated hem stained sandstone					Fe & loc jar strn		Fe, cly											
14.5-18.6	Volcano-sed sequence top-fluvial bot-?					Fe		Fe, cly											
18.6-22.9	volcano-seds sequence ash layers w/pyroclastic layers					(Fe)		(Fe) cly											
22.9-27.2	top-fanglomerate (high energy) bot-matrix supported polymictic bx					top (Fe)		top (Fe) cly											
27.2-31.2	Volcaniclastic /Pyroclastic Lahar?							cly										Possibly reworked ash with sedimentary structures at top of interval. Probably volcaniclastic conglomerate with clasts of various compositions (Guichon, porphyries, volcanics) and in various stages of rounding (pebble to cobble size)	
31.2-34.8	Volcaniclastic Lahar?							cly										Volcaniclastic conglomerate with sandy/muddy matrix. Clasts of various Bethlehem porphyries, Guichon, volcanics, occasional wood fragments. Pebble to boulder size clasts with varying degrees of rounding.	
34.8-39.1	Volcaniclastic Lahar?	some slip in organics						cly										Pyr on wood fracture surfaces; trace of disseminated pervasive pyr in some porphyry clasts. Clasts in various stages of alteration/decay. Strain accomodated by organic material.	

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			
39.1-43.0	Volcaniclastic Lahar?	some slip surfaces	-	-	-	-	cly	-	-	-	-	-	-	-	-	-	Volcaniclastic pebble to cobble conglomerate with coarse, sandy matrix. Clasts of Guichon, various Bethlehem? porphyries, volcanics, in various stages of rounding. Matrix less consolidated than previous interval.
43.0-46.0	Volcaniclastic Lahar?	-	-	-	-	-	cly	-	-	-	-	-	-	-	-	-	Volcaniclastic pebble to boulder conglomerate muddy/sandy matrix. Clast types and rounding similar to previous interval. Significant (40-50%) core loss in this interval.
46.0-48.2	Volcaniclastic/ Porphyry	-	bx/shatt	-	-	-	loc cly?	?	?	-	-	-	(pyr)	pyr (cpy)	-	-	Top 30 cm of interval is volcaniclastic conglomerate/breccia grading to brecciated grey porphyry (shattered by drilling) to bottom of interval. ~ 60% core recovered.
48.2-51.9	Guichon	loc thin	ckle bx, loc dis bx	ser, chlr (carb) (cly?)	wk qtz vnits w/pyr	-	cly?	(chlr) ser ser tr carb cly?	chlr (carb) (cly?)	-	-	(loc pyr)	pyr	-	-	-	Very strong fracture controlled pervasive alteration; locally complete ser alteration. Dislocated breccia at top grading to ckle bx. Check for clays
51.9-55.8	Guichon	loc thin	ckle bx, loc dis bx	ser, chlr, loc cly	wk pyr vnits	-	cly?	ser chlr cly?	ser chlr loc cly	chlr?	-	-	loc pyr	pyr (loc cpy)	-	-	Continues very strongly altered overall. Generally bleached appearance with discrete, strong chloritization of maics and very strong/complete ser alteration of feldspars.
55.8-62.3	Guichon fault zone	loc thin, suspect some lost	stng, loc ckle /dis bx	ser, chlr, loc cly	wk qtz vnits w/ pyr	-	-	ser chlr cly?	ser chlr loc cly	chlr?	-	-	loc pyr tr cpy	pyr (loc cpy)	-	-	Significant core loss between 55.8-59.4 m ~ 20 % recovery
62.3-65.8	Guichon wk fault zone	loc thin	ckle/dis bx loc crushed; some open spaces	ser, chlr, loc cly	wk qtz vnits w/ pyr	-	-	loc ep ser chlr	ser chlr loc cly	chlr?	-	-	pyr loc cpy	loc pyr (cpy)	-	-	Suspect propylitic alteration over-printed by phylitic alteration. Locally strong pyr in fractures and veinlets and in breccia matrix and crushed zones.
65.8-69.4	Guichon	some slip surfaces	mod/stng, loc ckle bx	ser, chlr, loc carb, loc cly	wk qtz vnits w/pyr, num qtz/chlr heal'd fracts w/pyr & (cpy)	-	-	loc ep patchy chlr bio?	ser chlr carb (loc cly)	chlr?	-	-	pyr (patchy cpy)	loc pyr (cpy)	loc tr/wk	-	Overall alteration intensity decreasing slightly. Locally strong pyr in fractures and veinlets. Patchy fresh black biotite. Well prepared
69.4-72.9	Guichon	some slip surfaces	mod/stng, loc ckle bx	ser, chlr, carb (loc cly)	wk carb vnits; num qtz vnits w/ pyr & (cpy)	-	-	loc ser loc chlr bio? loc alb?	ser chlr carb (loc cly)	chlr?	-	-	patchy pyr loc cpy	loc pyr (cpy)	loc tr/wk	-	Strong pervasive alteration at top, decreasing with depth. Locally disseminated pervasive cpy usually within or near alteration envelope on fracts and veinlets, frequently associated with mafics. Cpy increasing but pyr >> cpy.
72.9-76.5	Guichon	some slip surfaces	wk/od, loc stng/bkn	ser, chlr, carb	wk carb vnits, num qtz/pyr vnits	-	-	loc ep loc ser chlr loc alb? bio?	ser chlr arb loc ep	chlr?	-	-	pyr loc cpy	pyr (cpy)	loc tr/wk	-	Generally well prepared. Bleached, siliceous/sericitic alteration envelope with chloritic selvage on pyr healed fracts and veinlets.

ROCK TYPE		FAULT GOUGE	STRUCTURE	FRACTURE SURFACES	VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)			FRACTURE INTENSITY			perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
									perv.	fract.		perv	fract	perv	fract			
76.5-80.2	Guichon	loc thin & some slip surfaces	mod/stng, loc ckle bx	ser, chlr, carb loc cly	num qtz/pyr heal'd fract wk carb vnits	-	-	-	(patchy ep) ser loc chlr (loc alb)	ser chl loc carb loc cly?	chl? (ep)	-	-	pyr (cpy)	pyr tr cpy	loc tr		Well developed bleached siliceous/ser alteration envelope on healed fract. Overall strong pervasive alteration, well prepared.
80.2-83.8	Guichon	loc 85.5 m	mod/stng, loc bkn/crushed	ser, carb, chl loc cly, loc qtz	wk carb vnits	-	-	-	ser chl loc carb loc cly?	ser carb chl loc cly loc qtz	chl? (ep)	-	-	tr cpy (pyr)	pyr tr cpy	loc tr		Pyr on fractures>disseminated pyr. Pyr appears quite brassy. Weak ep (probably deuteric) remaining where alteration intensity is weakest. Disseminated pervasive sulphides commonly occur with mafics.
83.8-87.5	Guichon wk fault zone	loc thin & num slip surfaces	stng/bkn, loc crushed	ser, carb, chl loc cly	wk/mod pyr vnits	-	-	-	ser loc carb chl	ser carb chl loc cly	-	-	-	(pyr) tr cpy	loc pyr tr cpy	loc tr		Well developed bleached, siliceous alteration envelope on veinlets and fract.
87.5-91.0	Guichon	some slip surfaces	mod/stng, loc bkn/crushed	ser, chl, carb loc cly	wk qtz/carb vnits w/pyr & (cpy), num qtz/chl heal'd fract w/cpy	-	-	-	ser chl (loc carb)	ser chl carb loc cly	-	-	-	tr cpy (pyr)	pyr (cpy)	wk		Overall alteration intensity decreasing. Locally strong pyr on fract. Bleached, siliceous alteration envelope on veinlets and fractures.
91.0-95-1	Guichon	loc thin & some slip	wk/mod	loc ser, chl, carb, loc cly	wk qtz/carb vnits w/pyr & (cpy)	-	-	-	loc ser chl (carb) bio?	loc ser chl carb loc cly	-	-	-	(patchy cpy) (cpy) (pyr)	(cpy) pyr	-		Disseminated pervasive cpy increasing. Pyr>cpy. Finely disseminated cpy also increasing. Overall mod/strong ser/chl alteration with locally strong pervasive ser. Locally mod/stng cpy disseminated pervasive and in fract where least altered.
95.1-98.7	Guichon	loc thin & some slip	wk/mod, loc stng/bkn	loc ser, chl, carb, loc cly	wk pyr vnits wk irreg carb vnits	loc hem stn ser & ep	-	-	patchy ep (carb) ser (chl)	loc ser chl carb loc cly	chl?	-	-	(pyr) tr cpy	(mo) (cpy) pyr	-		Patchy fresh, black biotite. Moderated to well developed alteration envelope on fract and veinlets.
98.7-100.6	Guichon	some slip	mod/stng, loc shatt	ser, (chl) carb, (loc cly)	wk qtz/carb vnits w/pyr & (mo)	loc hem stn ser & ep	loc hem stn ser	-	ser chl loc ep (loc carb)	(loc ep) ser (chl) carb (loc cly)	-	-	-	pyr tr cpy	tr mo pyr (cpy)	tr/wk		Disseminated/patchy ep near bottom of interval at porphyry contact.
100.6-102.8	Porphyry (prob crowded, grey Bethlehem)	loc thin	stng/bkn, loc shatt	ser, (chl) carb	wk carb vnits, vuggy	(loc hem stn alb)	-	-	carb chl ser loc sil	ser (chl) carb	-	-	-	(pyr)	pyr tr cpy	-		Possibly Guichon xenoliths, partially assimilated Weak hem stain margins on most bleached siliceous 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			
102.8-106.4	Porphyry Fault zone	several thin & num slip surfaces	int/crushed wk healed	ser, chlr, carb cly	wk/mod pyr vnlt, wk qtz & carb vnlt	loc hem stn ser			ser chl carb loc cly	ser chl carb cly				(pyr)	pyr (loc cpy)			Overall alteration intensity stronger than previous interval; quite bleached and sericitic. Locally very strong yr (veinlet frags?). Several strong altered Guichon xenoliths with cpy in fractures and disseminated pervasive.
106.4-110.8	Porphyry (Bethlehem) crowded, grey	some slip	stng/bkn, loc crushed	ser, (chl) carb, loc cly	wk carb vnlt				ser (chl) loc carb	ser (chl) carb loc cly				(pyr)	(loc cpy) pyr	loc tr		Well developed, bleached, siliceous alteration envelopes on fracts give an overall bleached appearance.
110.8-114.6	Porphyry (Bethlehem) crowded, grey wk fault zone	some slip	stng/int, loc crushed	ser, chl, carb cly	wk qtz vnlt w/pyr, wk irreg carb vnlt				loc cly loc ser chl (carb)	ser chl carb cly				loc pyr	pyr			Disseminated pyr in crushed zones.
114.6-118.3	Porphyry (Bethlehem) crowded, grey	some slip	stng/bkn, loc shatt/crushed	ser, chl, carb loc cly	wk qtz vnlt wk irreg carb vnlt				chl ser tr ep carb	ser chl carb loc cly				pyr (loc cpy) (loc cpy) (pyr)	(loc mo) (loc cpy) (pyr)			Guichon xenolith 117.3-118.0 m. Local strong pervasive chl/ser alteration, especially in Guichon xenolith. Pervasive primary mineralization concentrated in Guichon xenolith with minor sulphides in porphyry
118.3-122.3	Porphyry (Bethlehem) crowded, grey fault zone	119.0- 120.6 m ~ 10° C.A.	stng/int, loc crushed	ser, carb, cly chl	qtz vnlt frags, wk irreg carb vnlt + frags				ser chl carb	ser chl carb cly				loc pyr	loc pyr (mo)			Several fragments of Guichon.
122.3-126.2	Porphyry (Bethlehem) crowded, grey fault zone	122.3- 123.6 m	mod/stng, loc int/crushed	ser, carb, chl loc cly					loc carb ser chl	ser chl carb loc cly				(pyr)	(pyr)			
126.2-129.6	Porphyry (Bethlehem) crowded, grey wk fault zone	some slip	bkn/shatt, loc crushed	ser, carb, chl loc cly	wk qtz vnlt w/mo				ser chl loc carb	ser chl carb loc cly				loc mo (pyr) tr cpy	loc mo (cpy) loc pyr			Strong mo in fracts and qtz vnlt. 126.2-126.5 m
129.6-133.6	Porphyry (Bethlehem) crowded, grey fault zone	several sections	shatt/int, loc crushed/milled	ser, chl, carb cly	qtz vnlt frags, irreg carb vnlt & frags				ser loc cly loc carb chl	ser chl carb cly				(pyr)	loc pyr			~ 2 cm Guichon at bottom of interval--fault contact
133.6-137.1	Guichon	some slip	mod/stng, loc bkn/crushed	ser, chl, carb loc cly	wk irreg carb vnlt wk qtz vnlt				ser chl (loc carb)	ser chl carb loc cly				(pyr) (loc cpy)	(pyr)			Possible Bethlehem dykelet 124.0-135.6 m. Moderate to strong bleached alteration envelope on fracts and veinlets.

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
137.1-140.9	Guichon/ Bethlehem	loc & some slip surfaces	mod/stng, loc crushed	ser, carb, chl loc cly	wk carb vnits	-	-	-	ser chl (loc carb)	ser carb chl loc cly	-	-	-	pyr (loc cpy)	pyr (loc cpy)	-	Partially resorbed apite frags, strong, patchy epidote and locally mixed Guichon and Bethlehem textures suggest intrusion breccia 138.0-140.5 m	
140.9-144.2	Guichon wk fault zone	loc & some slip surfaces	mod/stng, loc bkn, loc milled	ser, chl, carb loc cly	wk qtz vnits cpy & mo wk irreg carb vnits	-	-	-	ser chl loc carb	ser chl carb loc cly	-	-	-	pyr patchy cpy	loc mo (pyr) (cpy)	-	Several sections of possible intrusion breccia as above. Locally strong mo in qtz veinlets and fractures. (strongest seen in this hole so far).	
144.2-148.05	Porphyry	some slip	mod/stng, loc bkn, loc crush	ser, chl, carb	loc qtz vnits wk irreg carb vnits	loc hem stns	-	-	loc ser fo csil (carb) chl	ser chl carb	-	-	-	pyr (cpy)	loc mo pyr (cpy)	-	Some of the thin qtz and arb vnits contain mo and cpy.	
148.05-151.9	Porphyry fault	fault zone 149.8- 151.5 m	faulted, fault bx, loc crush	ser, chl, carb	chl healed fracts	-	-	-	ser chl	ser chl carb	-	-	-	(cpy) (pyr)	pyr (mo)	-	Qtz ser alteration envelopes < 1 cm. Pervasive small pink flecks, hem stained alb? Cpy in small veinlets, fractures.	
151.9-155.2	Guichon/ Hybrid fault zone	154.8, 155.1 m	fault, crushed	ser, chl (carb)	carb vn frags, carb & ser, heal'd fract, qtz vein frags	loc hem stn alb	-	-	ser chl (carb) loc alb	ser chl (carb)	-	-	-	cpy pyr	cpy tr mo (pyr)	-	Pervasive cpy > pervasive pyr. Ser masking mineralization on fractures. Molybdenite occurring with qtz. Patchy Guichon and strongly chloritic Hybrid (Nicola?) textures, locally porphyritic-- intrusion bx?	
155.2-159.0	Guichon/ Hybrid fault zone	155.2- 155.9 m	mod/stng, loc crushed	ser, chl, (carb)	carb vnits frags, qtz vnits chl/ ser healed fracts	tr Fe	-	-	ser chl (carb)	ser chl (carb)	-	-	-	cpy pyr	tr mo (pyr) (cpy)	tr	Crystalline qtz and calcite on fracture surfaces; mo in crystalline qtz; ser masking mineralization on fractures. Mixed, irregular Guichon and loc porphyry--possible intrusion bx.	
159.0-162.5	Guichon/ Hybrid fault zone	gouge	gge/crushed loc competent	ser, (carb) chl	qtz & carb vnit frags	loc Fe hem stn alb	-	-	ser chl tr ep	ser (carb) chl	-	-	-	cpy pyr	tr mo (pyr) (cpy)	-	Locally strong solution cavities	
162.5-165.8	Porphyry/ Guichon	-	dis bx 164.2- 165.1 m stng	stng/mod carb, ser, chl	carb vnits, (qtz vnits)	(hem stn alb)	-	-	ser chl	carb ser chl	-	-	-	(cpy) (pyr)	(cpy) (pyr) tr mo	-	Ser alteration envelopes around fractures. Mostly strongly altered Guichon 162.5-164.6 m--tends to be patchy, sericitic (bleached) while porphyry is mostly chloritic.	
165.8-169.9	Porphyry	166.8 m < 3 cm	stng/bkn	ser, chl, carb	wk qtz vnits < 3 cm	loc hem stn ser & chl	-	-	ser chl (carb)	ser chl carb	-	-	-	(cpy)	(cpy) (mo)	tr	(mo) in qtz veinlets. Locally strong sericitic alter- ation envelope. Scattered xenoliths? of Guichon, strongly altered.	
169.9-173.7	Porphyry	loc < 2 cm	stng	ser, chl, (carb)	wk qtz vnits to 3 cm	-	-	-	ser chl (carb)	ser chl (carb)	-	-	-	(cpy)	(pyr) (cpy) (mo)	-	Cpy and (mo) in qtz veinlets.	

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		
173.7-177.3	Porphyry	loc	stng/bkn, loc crushed, loc ckle bx	ser, chlr (carb) cly	wk qtz vnits wk carb vnits	loc hem stn ser			ser chlr (carb)	ser chlr (carb) cly				cpy loc pyr (chalc?)	(pyr) (cpy) (mo)		Locally <u>mo</u> in broken qtz veinlets and alteration envelope. Strong cpy in mafic patches, much weaker in sericitized areas. Diffuse mo in several qtz vnits. Mottled/patchy pervasive alteration with bleached, strongly sericitized patches (usually fracture controlled) surrounded by green chlr/ser alteration.
177.3-180.2	Porphyry	loc thin	mod/stng, loc dis bx/crushed	ser, chlr, carb loc cly	wk irreg qtz vnits w/(mo) num irreg carb vnits & void filling	(loc hem stn ser)			ser chlr (loc carb)	ser chlr carb loc cly				(chalc) (cpy) (pyr)	cpy		Grey-green/dark green porphyry--not certain which variety: Qtz veinlets, commonly with (mo) selvages, postdate mineralized fractures. Guichon fragments---xenoliths?
180.2-184.3	Mixed Guichon/ Porphyry wk fault zone	loc	wk/mod, loc bkn/crushed	ser, chlr, carb loc cly	wk qtz vnits num irreg carb vnits & void filling	loc hem stn alb & ser			patchy chlr patchy ser (loc carb) bio?	ser chlr carb loc cly				cpy (pyr) (chalc)	cpy (mo) (pyr)		A real mess. Intermittent/patchy Guichon and porphyry Guichon is usually very strongly sericitic with stronger disseminated pervasive cpy than porphyritic section. Occasionally the two appear completely mixed. Several broken and healed qtz veinlets. Most qtz vnits carry cpy and mo. Patchy fresh, black biotite.
184.3-188.6	Mixed Guichon/ Porphyry	loc thin	mod/stng, loc bkn/crushed	ser, chlr, carb (loc cly)	wk qtz vnits w/(mo); num irreg carb vnits	(loc hem stn ser)			chlr patchy ser loc alb (loc carb)	ser chlr carb (loc cly)				cpy (pyr) (chalc)	cpy (mo)		Several rounded (partially resorbed?) aplitic porphyry xenoliths. Guichon sections tend to be most strongly sericitic. Generally continues as previous interval.
188.6-192.0	Guichon	loc thin & some slip	wkmod, loc stng/bkn	ser, chlr, carb loc cly	wk qtz vnits to 1 cm, wk irreg carb vnits & void fillings	patchy hem stn ser & alb			loc chlr loc ser (loc carb) loc ep (bio?)	ser chlr loc cly serp)				(cpy) (pyr)	(cpy) (mo)		Sudden decrease in sulphides. Overall, still very strongly altered. Possible intrusion--related shear at bottom of interval. Patchy fresh, black biotite. Possible picrite? dykelet at bottom.
192.0-196.1	Mixed Guichon/ Porphyry	loc thin	mod, loc stng/bkn	ser, carb, chlr (loc cly)	wk qtz vnits to 1 cm	patchy hem stn ser & chlr	loc hem		chl loc ser	ser chl carb (loc cly)				patchy cpy (pyr) (chalc)	cpy (mo) (pyr)		Aplite dykelet, ~ 4 cm, offset and healed, cuts porphyritic section. Chl/ser healed shear zone 192.3-193.0 m.
196.1-200.3	Mixed Guichon/ (Porphyry)	loc thin	wk/mod	ser, (chl), carb, loc cly	num qtz vnits to 1cm wk irreg carb vnits	patchy hem stn ser & chl			ser patchy chl	ser (chl) carb loc cly				patchy cpy (pyr) (chalc)	cpy (pyr) (chalc)		Patchy Guichon with vaguely porphyritic sections none with strong textural features fo either. Diffuse cpy along fractures and vienlets, occasionally with very fine grained chalc.
200.3-204.8	Guichon	loc thin	wk/mod, loc stng	ser, carb loc chl, cly in gge	wk qtz stkwk, num irreg carb vnits	hem stn ser	hem stn ser & carb		ser loc chl	ser loc chl carb cly in gge				patchy cpy (pyr) (chalc)	(cpy) (pyr) (mo)		Aplitic porphyry dyke, hem stained, 202.0-202.6 m Strong aplitic impregnation fo wallrock above and especially below dyke. Patchy pervasive cpy locally with fine grained sooty chalcocite. Becomes increasingly competent with depth. Check assays!!!

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
204.8-210.6	Guichon	206.1- 207.3 m & loc thin	wk/mod, loc crushed/milled	loc ser. (chlr) carb loc cly	num qtz vnits to > 3 cm	hem stn ser	-	-	loc carb ser loc sil cly?	loc ser (chlr) carb loc cly	-	-	(chalc?) (patchy cpy)	cpy (chalc) (pyr)	-	Start of NQ II core. Locally strong cpy in qtz veinlets. Little (if any) pervasive chlorite remaining, rock is bleached and white where not hem stained possible weak pervasive argillic alteration?		
210.6-216.0	Guichon	loc thin	wk/mod loc stng	ser, carb, (chlr) loc cly	wk irreg carb vnits, stkwk	hem stn ser	-	-	(loc carb) sil (loc chlr) cly?	ser (chlr) loc cly	-	-	(patchy cpy)	(cpy) (pyr)	-	Bleached, siliceous and hem stained as in previous interval.		
216.0-219.9	Guichon	loc thin	wk/mod, loc stng/bkn	ser, loc chlr carb, (qtz)	wk/mod qtz vnits	hem stn ser	-	-	ser sil (loc chlr) cly?	ser loc chlr (carb) loc cly (qtz)	-	-	(cpy) (pyr)	(cpy)	-	Several strong hem stained apilite dykelets. Few open fractures and dissolution cavities. Quite siliceous throughout—qtz flooded?		
219.9-225.8	Porphyry leucocratic, grey	loc thin	stng/bkn	(ser), chlr carb, loc cly	wk qtz vnits	-	-	patchy ser (chlr) alb?	(ser) chlr carb loc cly	-	-	-	cpy (pyr)	(pcy)	loc tr	Cpy occurs in mafic and chloritized mafic clots. Similar to grey porphyry at 112.0 m in DDH 95-18. Appears locally sheared/brecciated and healed—part of intrusion bx sequence?? Several rounded apilite fragments.		
225.8-231.5	Porphyry, leucocratic, crowded, grey	-	wk/mod, loc stng/bkn	ser, (chlr) carb, (loc cly)	wk qtz vnits w/cpy, vuggy; wk irreg carb vnits	-	-	patchy ser chlr (loc cly)	ser (chlr) carb (loc cly)	-	-	-	cpy (pyr)	cpy pyr (chalc?)	-	Weak apilite dykelets to 1.0 cm, frequently broken, irregular or discontinuous. Several sections with closely spaced, 0.5-1.0 cm, fracts with pyr, cpy (chalc?). Locally resembles crowded, grey Bethlehem porphyry.		
231.5-236.3	Porphyry crowded, grey	some slip	wk/mod, loc bkn/shatt	(ser), chlr carb	wk qtz vnits	-	-	patchy ser chlr (loc carb)	(ser) chlr carb	-	-	-	cpy (pyr)	(cpy) (pyr) (mo)	loc tr/wk	Several apilite dykelets, 2-4 cm with chalcidonic qtz margins and bent ("ptygmatic") qtz veinlets within the apilite. Some open spaces in fracts. Very fine grained disseminated pervasive cpy.		
236.3-241.1	Porphyry crowded, grey	loc thin	mod/stng, loc shatt/ crushed	ser, chlr, carb (loc cly)	wk qtz vnits to 3 cm	-	-	chlr patchy ser loc carb	ser chlr carb (loc cly)	-	-	-	(cpy) (pyr)	(cpy) tr pyr (mo)	-	Probably crowded, grey Bethlehem porphyry—pervasive strong alteration has obscured texture mineralization in mafic clots and feldspar size and distribution suggest same.		
241.1-245.4	Porphyry	loc thin	wk/mod, loc stng/bkn	(ser) chlr, carb, (loc cly)	wk irreg qtz vnits	loc hem stn ser	-	-	loc sil patchy ser loc chlr	(ser) chlr carb (loc cly)	-	-	(cpy) (pyr)	(cpy) (pyr) (chalc)	tr/wk	Locally weak chalc with peacock tarnish in fracts with cpy. Cpy>pyr. Bleached with stronger pervasive ser alteration where hem stained, elsewhere more chloritic.		
245.4-250.0	Porphyry	some slip	wk/mod, loc bkn/shatt	(ser) (chlr) carb	wk qtz vnits wk irreg carb vnits	loc hem stn ser & alb	-	-	chlr patchy ser sil? (carb)	(ser) (chlr) carb	-	-	(cpy) (loc chalc) (pyr)	(mo) (chalc) (cpy) tr pyr	tr/wk	Fracture intensity decreases with depth.		

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				
250.0-254.9	Porphyry crowded, grey	loc thin	mod, loc stng/ bkn, loc dis bx	(ser) (chlr) loc carb	wk qtz vnlt to 3 cm w/ (cpy) & (mo)	(loc hem stn alb & ser)	(loc hem stn ser)		loc ser chlr (loc carb) (alb?) loc sil (chlr)	(ser) (chlr)			(patchy cpy) (pyr) (pyr)	(pyr) (cpy) (chalc)	tr/wk	Aplite dykelet ~ 2.0 cm, hem stained. Weak chalc disseminated in mafic clots and within alteration envelope. Chalc is frequently peacock tarnished	
254.9-260.0	Porphyry crowded, grey (Bethlehem)	loc thin	wk/mod, loc stng/bkn	ser, carb (chlr)	wk qtz vnlt < 1.0 cm num carb vnlt & f.f				(chlr) (patchy ser) loc sil?	ser (chlr) carb	chlr		cpy (pyr)	(pyr) (cpy)	wk	Alteration intensity has decreased enough to easily identify as crowded grey porphyry. Phenos locally ghost-like. Locally strong ser on fracts. Local closely spaced fracts. Primary disseminated pervasive mineralization concentrated in mafic clots. Cpy>pyr.	
260.0-265.1	Porphyry crowded, grey (Bethlehem)	some slip	stng/bkn, loc shatt	carb, ser, chlr loc cly	wk qtz vnlt 2- > 3 cm num carb vnlt & f.f.	(loc hem stn alb & ser)			patchy ser (patchy chlr) loc sil?	carb ser chlr loc cly	chlr		(cpy) (pyr) tr chalc	cpy pyr (mo) (chalc)	loc tr	Qtz veinlets carry (mo), cpy and peacock tarnished chalc. Pervasive ser alteration increases with fract intensity. Phenos usually ghost-like. Disseminated cpy concentrated in chloritic mafic clots. Weak to moderate developed alteration envelope.	
265.1-269.9	Porphyry crowded, grey (Bethlehem)		stng/bkn, loc shatt	carb, ser, chlr	wk carb vnlt w/ (chalc), wk qtz vnlt > 2 cm, w/ (mo)	(patchy hem stn ser & alb)			loc sil chlr patchy ser	ser chlr carb			(patchy chalc) tr pyr cpy	cpy loc chalc tr pyr	tr	Local drusy clacite on open fracts. Hem stain margins on alteration envelope. Chalc usually with peacock tarnish. Cpy>>pyr.	
269.9-274.9	Porphyry crowded, grey (Bethlehem)	loc	stng/bkn loc shatt	chlr, ser, carb loc cly	wk qtz vnlt 2-10 cm w/ (mo) & (chalc), wk irreg carb vnlt & f.f.	loc hem stn ser	(loc hem stn ser)		chlr (loc carb) loc ser	chlr ser carb loc cly			patchy chalc cpy	chalc cpy	tr	Overall alteration intensity increasing but patchy. Diffuse fine grained peacock tarnished chalc and sooty chalc on fracts and disseminated in alteration envelope.	
274.9-280.4	Porphyry crowded, grey	loc thin	wk/mod, loc stng	chlr, ser, carb loc cly	wk carb vnlt & f.f wk/mod qtz vnlt < 3 cm	(loc hem stn ser & alb)			(chlr) loc ser loc sil	chlr ser arb loc cly			patchy chalc cpy tr pyr	(loc chalc) (cpy)	tr/wk	Disseminated chalc in alteration envelope and associated with qtz and carb veinlets.	
280.4-286.1	Porphyry crowded, grey (Bethlehem)		wk	loc ser, chlr, (loc cly), carb	qtz stkwk qtz vnlt > 6 cm				loc carb (chlr) loc ser loc alb sil	loc ser chlr (loc cly) carb			patchy chalc (cpy)	(chalc) cpy (mo) tr pyr	wk	Qtz stockwork, qtz flooded. Several sections of partially assimilated Guichon xenoliths. Primary mineralization appears similar in Guichon and porphyry. Disseminated pervasive cpy and chalc frequently with peacock tarnish.	
286.1-291.4	Guichon	loc thin	wk/mod	loc ser, chlr (loc cly) carb	num qtz vnlt to ~ 5 cm, wk aplite dyke- lets		(loc hem stn ser)		chlr sil loc ser	loc ser chlr (loc cly) carb			patchy chalc tr cpy	(chalc) cpy tr pyr (mo)	tr	Possibly stoped block of Guichon within porphyry, partially assimilated and siliceous.	

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
291.4-296.8	Porphyry crowded, grey (Bethlehem)	some slip	wk/mod loc bkn	ser, chlr, carb	wk qtz vnits w/(mo), wk apilite dykelets	-	-	-	loc ser (chlr) loc sil	ser chlr carb	-	-	(patchy chalch) tr cpy	(mo) (chalch)	tr/wk	Scattered, partially assimilated Guichon xenoliths Local ser on fract. several composite qtz/alb veinlets.		
296.8-302.0	Porphyry crowded, grey (Bethlehem)	-	mod, loc bkn/shatt	(ser), carb (chlr) (qtz)	mod qtz vnits to ~ 3 cm; wk apilite dykelets w/ (mo)	-	-	-	(chlr) (loc ser)	(ser) carb (chlr) (qtz)	chlr?	-	(cpy) (chalch) loc chalch (mo)	(cpy)	tr/wk	Several composite qtz/alb veinlets with (cpy). Chalc in fracts, usual with peacock tarnish. Chalc and cpy often disseminated around qtz veinlets and apilite dykelets. Weak mo and dpy in qtz veinlets. Overall alteration intensity has increased slightly.		
302.0-307.1	Porphyry crowded, grey (Bethlehem)	some slip	mod, loc bkn	(ser), chlr carb	wk qtz vnits to 0.5 cm wk carb vnits & f.f	-	-	-	(chlr)	(ser) chlr carb	chlr?	-	tr pyr (cpy) (chalch)	(mo) (cpy) (chalch)	wk	Some grain size variation. Cpy on fracts increas- ing. Disseminated pervasive cpy concentrated in mafic clots. Loc mod chalch in fract associated with strongest fracturing/shearing and carb veinlets and fracture filling		
307.1-312.3	Porphyry crowded, grey (Bethlehem)	-	mod/stng loc bkn/shatt	ser, chlr, carb	wk qtz/alb vnits	-	-	-	(loc ep) (chlr) (loc ser) (loc alb)	loc ep ser chlr carb	chlr?	-	tr chalch (cpy) (pyr) tr chalch	(mo) (cpy)	tr/wk	Weak sericitic alteration envelopes on fracts and veinlets. Weak mo and cpy in qtz veinlets. Several composite qtz/alb veinlets—qtz core with alb margins. Weak alb alteration envelope assoc- iated with local strong ser and epidote on fracts.		
312.3-317.2	Porphyry crowded, grey	-	mod/loc bkn/shatt	ser, chlr, carb (qtz)	wk qtz vnits to 1 cm, wk carb vnits & f.f	-	-	-	(chlr) (loc ser) loc sil alb?	loc ep ser chlr carb (qtz)	chlr? (ep?)	-	tr chalch tr pyr (cpy)	(pyr) (cpy)	wk	Local strong ep as fracture filling, crosscut qtz veinlet. Cpy decreased sharply. Weak sericitic alteration envelopes on fracts and veinlets. Possible sil impregnation, loc alb? T.S. required. This may be McMillan's "D3" hornblende-plag crowded porphyry.		
317.2-322.8	Guichon	-	wk loc bkn	carb (ser) (chlr)	wk carb vnits & f.f. num qtz/chlr heal'd fracts wk qtz vnits	(loc hem stn alb)	-	-	(loc chlr) loc sil (loc carb) loc alb?	carb (ser) (chlr)	chlr	-	cpy (loc chalch) tr pyr	(chalch) (cpy)	wk/ mod	Numerous well heal'd (qtz/chlr) fracts with chalch and cpy disseminated in and around fracts. Local weak foliation.		
322.8-327.9	Guichon	some slip	wk, loc mod	(ser) chlr, carb, loc qtz	wk irreg carb vnits & f.f., wk qtz vnits, num qtz/chlr heal'd fracts	loc hem stn alb	loc hem stn ser	-	loc sil loc alb? (loc chlr)	ser chlr carb loc qtz loc ep	chlr	-	(loc chalch) (cpy)	(chalch) (cpy)	wk	Locally strong ser/chlr on fracts.		
327.9-332.9	Guichon	loc thin & some slip	wk/mod, loc bkn/crushed	(ser), chlr, carb, cly in gge, (qtz)	wk qtz/carb vnits, qtz/ chlr healed fracts	loc hem stn alb & ser	loc hem stn ser & chlr	-	loc chlr loc ser loc sil alb?	loc ep (ser) chlr cly in gge (qtz)	chlr	-	loc chalch loc cpy	(cpy) (loc chalch)	loc tr/wk	Several hem stained plite eykelts 1-3 cm. Most disseminated pervasive chalch and cpy is in top 2 m of interval where not hem 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.
332.9-338.0	Guichon		wk	ser, chlr, carb	num irreg carb vnlt & f.f., wk qtz vnlt, num qtz/chlr heal'd fracts	loc hem stn alb & ser	(loc hem stn ser & carb)		loc chlr (loc ser) chl carb loc sil alb?	ser chl chl	chl		loc chal loc cpy	tr cpy	loc wk/ mod	Several stained aplite dykelets. Locally strong ser on fractures.		
338.0-341.8	Guichon (Hybrid) loc mafic rich		wk	(ser) chlr carb	wk irreg carb vnlt & f.f.	loc hem stn alb & ser		patchy chl	ser chl carb	chl			cpy patchy chal	(cpy)		Scattered partially assimilated xenoliths. Weak aplite dykelets.		
341.8-343.7	Porphyry crowded, grey (Bethlehem)		bkn	(ser) (chl) carb	wk irreg carb vnlt & microvns wk qtz vnlt		(loc hem stn carb)	(loc chl) alb?	(ser) (chl) carb	chl (ep)			(pyr) tr cpy	(pyr) (cpy)	tr	Pyr>>cpy. Sulphides concentrated in mafic clots, frequently with ep.		
343.7-348.0	Guichon Hybrid (w/Porphyry?)	some slip	bkn/shatt loc mod	ser, (chl) loc carb	wk qtz vnlt wk carb vnlt & f.f.	loc hem stn ser & alb	(loc hem stn ser & carb)	(patchy ser) (chl) loc carb	ser (chl) loc carb	chl			tr pyr tr cpy	(loc pyr) tr cpy	tr	Some textural variation--appears locally recrystallized, somewhat porphyritic. Locally mafic rich/chloritic. Possible gradational contact between Guichon and porphyry body.		
348.0-353.5	Guichon Hybrid (w/Porphyry)	loc 350.5- 350.7 m	wk	cly in gge, ser chl, (carb)	wk carb vnlt & void filling, wk irreg qtz vnlt, wk aplite dykelets	loc hem stn ser & alb		bio chl (ser) (carb)	ser chl (carb) cly in gge loc ep				tr pyr (cpy)	(cpy) (pyr) tr chal	tr/wk	Possibly gradation Guichon/porphyry contact--becomes locally quite strongly porphyritic. Local healed dislocation (intursion?) breccia with carb void filling (vuggy). Local fresh black biotite.		
353.5-357.9	Guichon Hybrid (w/Porphyry) loc mafic rich	osme slip	wk	ser, loc chl loc carb	wk qtz vnlt wk carb vnlt, wk/ mod qtz/chl heal'd fracts w/cpy	loc hem stn alb qtz & ser	loc hem stn ser	loc ser (chl) (carb)	loc ser chl loc carb				(patchy cpy) tr pyr	(pyr) loc cpy	loc tr/wk	Local carb "ladder" veinlets. Several hem stained aplite dykelets, 1-5 cm. Locally strong to complete ser alteration near contact with porphyry at bottom of interval. Continues with mixed Guichon and porphyry textures.		
357.9-360.4	Porphyry crowded, grey (Bethlehem)	some slip	mod/stng	ser, carb, chl	wk qtz & carb vnlt	hem stn ser & alb	(loc hem stn ser)	loc chl loc ser (carb)	ser chl carb				(pyr) (cpy)	(pyr)	tr	Broken/sheared contact with Guichon/Hybrid as seen above.		
360.4-364.6	Guichon Hybrid (w/Porphyry) mafic rich	loc	wk, loc stng/ bkn	ser, chl, carb cly in gge	wk carb vnlt, wk qtz vnlt			(loc ep) (carb) (chl) (bio?)	(loc ep) ser chl carb cly in gge	chl?			(cpy) tr pyr	tr pyr tr cpy	tr/wk	Patchy fresh, black biotite.		
364.6-369.9	Guichon Hybrid (w/Porphyry) mafic rich	some slip	wk, loc bkn	(ser) (chl) loc carb	wk irreg carb vnlt wk qtz vnlt	loc hem stn alb & ser		(bio) (carb) (chl) (loc ser) (cly?) loc sil	(bio) (ser) (chl) loc carb	chl?			loc cpy tr pyr	(cpy)	tr/wk	Check for pervasive clays--T.S. required. Hem locally with cpy.		

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.			
369.9-374.9	Guichon Hybrid loc mafic rich	some slip	wk	carb, (ser) loc chlr, loc cly	wk carb vnits & f.f.	loc hem stn ser & kaolin	-	-	kaolin (loc carb)	carb ser loc chlr loc cly loc sil bio	-	-	-	-	tr pyr (cpy)	loc tr/wk	becomes quite bleached, locally hem stained, 272.6-374.9 m, locally argillic altered. Locally strong ser/chlr on fract. Patchy fresh black biotite.	
374.9-380.0	Guichon	loc	wk	ser, loc chlr, carb, loc cly	wk carb vnits & f.f.	patchy hem stn ser & cly	loc hem stn ser	-	carb loc chlr ser kaolin loc sil	ser loc chlr carb loc cly	-	-	-	tr cpy (loc pyr)	tr cpy	-	Much of this interval appears to have been sheared or crushed (several sections with strong anastomosing fractures) and chlr/qtz healed. Still quite strongly argillic altered.	
380.0-385.4	Guichon Hybrid loc mafic rich	loc	wk, loc shear & dis bx	loc ser, loc chl, loc cly carb	wk/mod irreg carb vnits & f.f. wk qtz vnits	hem stn ser & cly	loc hem stn ser	-	(carb) loc sil loc chlr loc kaolin	loc ser loc chlr loc cly carb	-	-	-	(loc pyr) tr cpy	(pyr) tr/wk	loc	Alteration intensity decreasing with depth. Local sheared/crushed and qtz/chlr healed. Several strong hem stained aplite dykelets often broken or discontinuous. Mod/stng argillic altered at top of interval.	
385.4-390.6	Guichon Hybrid loc mafic rich	-	wk, sets at 30 + 60° C. A.	ser, chl, carb	wk qtz vnits wk irreg carb vnits & f.f.	(hem stn alb)	(loc hem)	-	loc chlr loc ser	chl	-	-	-	(cpy) tr pyr	(cpy) tr pyr	mod/ stng	Texture becomes gradually more Guichon-like with depth. Weak aplite dykelets < 1.0 cm. Alteration intensity decreasing with depth, relatively unaltered at bottom.	
390.6-396.3	Guichon	-	wk	ser, chl, carb	wk carb vnits & f.f. 1 qtz vnit	(hem stn alb)	-	wk/tr carb (chl)	ser chl carb	(chl) tr ep	-	-	-	(pyr) (cpy)	(pyr) (cpy)	mod, loc stng	Weak aplite dykelets at 1 cm thick. Alteration intensity decreasing with depth cpy/pyr in micro-fractures, and contractions of mafics. Qtz veinlet contains unaltered magnetite. End of interval almost fresh unaltered Guichon.	
396.3-401.7	Guichon	-	wk	ser, chl, carb	wk irreg carb vnits & f.f.; wk qtz vnits	-	(loc hem stn ser & chl)	-	(loc alb)	loc ep ser chl carb	(chl)	-	-	(cpy) (pyr)	(cpy) (pyr)	mod/ stng	Several irregular aplite dykelets 0.5-4 cm. Weak to moderate qtz/chlr healed fractures with (cpy) and (pyr). Pervasive alteration is quite local and associated with qtz veinlets and apites--alb alteration envelope on qtz veinlets.	
401.7-407.3	Guichon	-	wk	(ser), loc chl (carb)	wk qtz vnits	-	(loc hem stn chl)	-	(loc carb (loc alb)	loc ep (ser) loc chl (carb)	(chl)	-	-	(cpy) (pyr)	(cpy) (pyr)	mod/ stng	Competent Guichon, relatively unaltered. Numerous qtz/chlr healed fractures. Cpy occurs within diffuse chl/qtz healed fractures and alteration envelope	
407.3-412.9	Guichon	-	wk	(ser) (chl) (carb)	-	-	-	-	(loc chl) (loc sil)	(ser) (chl) (carb) (loc ep)	(chl)	-	-	(cpy) (pyr)	(cpy) (pyr)	mod/ stng	Very competent Guichon, fresh. Weak qtz/chlr healed fractures. Local weak foliated.	
412.9-418.1	Guichon	loc thin	wk, loc mod/stng	ser, (chl) carb	wk irreg carb vnits & void filling; wk qtz vnits	loc hem stn alb	(loc hem stn ser & chl)	-	(loc carb) loc alb (loc chl) (loc ser)	ser (chl) carb	(chl)	-	-	(cpy) tr pyr	(cpy) tr pyr	mod	Qtz/carb healed weak shear zone. Several partially assimilated mafic xenoliths. Sulphides associated with qtz/chlr healed fractures and veinlets. Staining and pervasive alteration intensity decreasing with depth.	

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
418.1-425.2	Guichon	-	wk	(ser) (chlr) (carb)	wk Qtz vnits < 1 cm, wk/ mod Qtz/chlr heal'd fracts	loc hem stn alb	(loc hem stn ser & chlr)	-	(loc carb)	loc ep (ser)	chlr	-	-	-	(pyr) (cpy)	mod	Locally foliated. Several mafic xenoliths.	
EOH 425.2 m																		

DDH 95-32

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
26957	46.0	47.5	0.12	-	0.1	<.01	5	0.001	
26958	47.5	49.0	0.16	0.14	0.2	0.01	5	0.001	
26959	49.0	50.5	0.15	-	0.3	0.01	5	0.003	
26960	50.5	52.0	0.12	-	0.3	0.01	5	0.002	
26961	52.0	53.5	0.15	-	0.2	0.01	5	0.003	
26962	53.5	55.0	0.15	0.12	0.2	0.01	5	0.007	
26963	55.0	56.5	0.16	-	0.2	0.01	5	0.002	
26964	56.5	58.0	0.06	-	0.1	<.01	5	0.001	
26965	58.0	59.5	0.08	-	0.1	<.01	5	0.001	
26966	59.5	61.0	0.12	-	0.2	0.01	5	0.002	
26967	61.0	62.5	0.15	-	0.3	0.01	5	0.002	
26968	62.5	64.0	0.14	0.12	0.3	0.01	5	0.002	
26969	64.0	65.5	0.11	-	0.2	0.01	5	0.002	
26970	65.5	67.0	0.12	-	0.2	0.01	5	0.001	
26971	67.0	68.5	0.12	-	0.2	0.01	5	<.001	
26972	68.5	70.0	0.09	-	0.2	0.01	5	0.002	
26973	70.0	71.5	0.08	-	0.2	0.01	5	0.001	
26974	71.5	73.0	0.11	-	0.2	0.01	5	0.001	
26975	73.0	74.5	0.14	-	0.1	<.01	5	<.001	
26976	74.5	76.0	0.12	0.13	0.1	<.01	5	0.001	
26977	76.0	77.5	0.16	-	0.1	<.01	5	0.004	
26978	77.5	79.0	0.14	-	0.1	<.01	5	0.001	
26979	79.0	80.5	0.14	-	0.1	<.01	5	0.002	
26980	80.5	82.0	0.10	-	0.1	<.01	5	0.001	
26981	82.0	83.5	0.12	-	0.1	<.01	5	0.001	
26982	83.5	85.0	0.17	0.19	0.1	<.01	10	0.003	
26983	85.0	86.5	0.12	-	0.1	<.01	5	0.002	
26984	86.5	88.0	0.15	-	0.1	<.01	5	0.001	
26985	88.0	89.5	0.45	-	0.5	0.02	5	0.004	
26986	89.5	91.0	0.34	-	0.4	0.01	5	0.007	
26987	91.0	92.5	0.24	-	0.2	0.01	5	0.002	
26988	92.5	94.0	0.20	0.32	0.1	<.01	5	0.004	
26989	94.0	95.5	0.69	-	0.8	0.02	10	0.017	
26990	95.5	97.0	0.53	-	0.9	0.03	5	0.003	
26991	97.0	98.5	0.23	-	0.3	0.01	10	0.006	
26992	98.5	100.0	0.46	-	0.6	0.02	5	0.015	
26993	100.0	101.5	0.18	-	0.1	<.01	5	0.009	
26994	101.5	103.0	0.22	-	1.4	0.04	5	0.098	
26995	103.0	104.5	0.58	-	2.6	0.08	5	0.123	
26996	104.5	106.0	0.61	0.36	0.1	<.01	10	0.004	
26997	106.0	107.5	0.43	-	0.1	<.01	5	0.005	
26998	107.5	109.0	0.27	-	0.1	<.01	5	0.002	
26999	109.0	110.5	0.20	-	0.1	<.01	5	0.003	
27000	110.5	112.0	0.34	-	0.1	<.01	5	0.098	

46.0 - 99.5 (0.127)
 99.5 - 350.5 (0.442)
 350.5 - 389.5 (0.201)
 389.5 - 425.5 (0.154)

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
27001	112.0	113.5	0.27	-	0.1	<.01	5	0.018	
27002	113.5	115.0	0.35	-	0.2	0.01	10	0.009	
27003	115.0	116.5	0.12	0.27	0.1	<.01	5	0.001	
27004	116.5	118.0	0.31	-	0.1	<.01	5	0.005	
27005	118.0	119.5	0.22	-	0.2	0.01	5	0.011	
27006	119.5	121.0	0.35	-	0.7	0.02	10	0.020	
27007	121.0	122.5	0.26	-	0.2	0.01	15	0.064	
27008	122.5	124.0	0.39	-	0.1	<.01	15	0.046	
27009	124.0	125.5	0.23	0.27	0.1	<.01	5	0.002	
27010	125.5	127.0	0.20	-	0.3	0.01	5	0.388	
27011	127.0	128.5	0.24	-	0.3	0.01	5	0.011	
27012	128.5	130.0	0.19	-	0.2	0.01	5	0.004	
27013	130.0	131.5	0.23	-	0.4	0.01	5	0.010	
27014	131.5	133.0	0.44	-	0.6	0.02	5	0.038	
27015	133.0	134.5	0.36	-	0.3	0.01	5	0.003	
27016	134.5	136.0	0.33	0.33	0.2	0.01	5	0.013	
27017	136.0	137.5	0.41	-	0.3	0.01	5	0.007	
27018	137.5	139.0	0.30	-	0.2	0.01	10	0.002	
27019	139.0	140.5	0.22	-	0.1	<.01	5	0.001	
27020	140.5	142.0	0.60	-	0.4	0.01	5	0.161	
27021	142.0	143.5	0.38	-	0.2	0.01	5	0.016	
27022	143.5	145.0	0.34	0.39	0.3	0.01	10	0.009	
27023	145.0	146.5	0.36	-	0.3	0.01	5	0.004	
27024	146.5	148.0	0.32	-	0.2	0.01	5	0.008	
27025	148.0	149.5	0.33	-	0.3	0.01	5	0.004	
27026	149.5	151.0	0.42	-	0.2	0.01	5	0.005	
27027	151.0	152.5	0.68	-	0.7	0.02	5	0.002	
27028	152.5	154.0	0.46	0.61	0.6	0.02	5	0.010	
27029	154.0	155.5	0.68	-	0.4	0.01	5	0.008	
27030	155.5	157.0	0.77	-	0.7	0.02	10	0.034	
27031	157.0	158.5	0.55	-	0.4	0.01	5	0.008	
27032	158.5	160.0	0.70	-	0.3	0.01	5	0.013	
27033	160.0	161.5	0.65	-	0.2	0.01	10	0.009	
27034	161.5	163.0	0.52	-	0.3	0.01	5	0.015	
27035	163.0	164.5	0.68	0.47	0.4	0.01	15	0.006	
27036	164.5	166.0	0.40	-	0.1	<.01	5	0.006	
27037	166.0	167.5	0.38	-	0.1	<.01	5	<.001	
27038	167.5	169.0	0.36	-	0.1	<.01	5	0.012	
27039	169.0	170.5	0.33	-	0.1	<.01	5	0.006	
27040	170.5	172.0	0.28	-	0.1	<.01	5	0.004	
27041	172.0	173.5	0.54	-	0.2	0.01	5	0.003	
27042	173.5	175.0	0.83	0.52	0.7	0.02	20	0.007	
27043	175.0	176.5	0.64	-	0.2	0.01	5	<.001	
27044	176.5	178.0	0.47	-	0.1	<.01	5	0.002	
27045	178.0	179.5	0.34	-	0.1	<.01	5	0.013	
27046	179.5	181.0	0.42	-	0.1	<.01	5	0.005	
27047	181.0	182.5	0.55	-	0.1	<.01	5	0.011	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
27048	182.5	184.0	0.69	-	0.3	0.01	5	0.018	
27049	184.0	185.5	0.68	-	0.6	0.02	5	0.005	
27050	185.5	187.0	0.87	0.62	0.6	0.02	5	0.019	
27051	187.0	188.5	0.65	-	0.7	0.02	5	0.006	
27052	188.5	190.0	0.45	-	0.2	0.01	5	0.005	
27053	190.0	191.5	0.49	-	0.5	0.02	5	0.001	
27054	191.5	193.0	0.40	-	0.2	0.01	5	0.004	
27055	193.0	194.5	0.33	-	0.1	<.01	5	0.003	
27056	194.5	196.0	0.44	0.41	0.1	<.01	5	0.003	
27057	196.0	197.5	0.29	-	0.3	0.01	5	0.012	
27058	197.5	199.0	0.54	-	0.7	0.02	5	0.004	
27059	199.0	200.5	0.35	-	0.4	0.01	5	0.009	
27060	200.5	202.0	0.35	-	0.1	<.01	5	0.010	
27061	202.0	203.5	0.24	-	0.3	0.01	5	0.013	
27062	203.5	205.0	0.10	0.27	0.1	<.01	5	0.015	
27063	205.0	206.5	0.36	-	0.7	0.02	5	0.004	
27064	206.5	208.0	0.38	-	0.3	0.01	5	0.021	
27065	208.0	209.5	0.21	-	0.1	<.01	5	0.011	
27066	209.5	211.0	0.17	-	0.1	<.01	10	0.033	
27067	211.0	212.5	0.24	-	0.2	0.01	10	0.005	
27068	212.5	214.0	0.27	0.35	0.1	<.01	5	<.001	
27069	214.0	215.5	0.22	-	0.1	<.01	10	0.007	
27070	215.5	217.0	0.32	-	0.2	0.01	5	0.001	
27071	217.0	218.5	0.44	-	0.9	0.03	10	0.001	
27072	218.5	220.0	0.82	-	1.3	0.04	10	0.002	
27073	220.0	221.5	0.69	-	0.9	0.03	5	0.011	
27074	221.5	223.0	0.45	-	0.5	0.02	5	0.001	
27075	223.0	224.5	0.46	-	0.5	0.02	5	0.003	
27076	224.5	226.0	0.34	0.52	0.1	<.01	5	0.003	
27077	226.0	227.5	0.47	-	0.4	0.01	5	0.001	
27078	227.5	229.0	0.55	-	0.5	0.02	5	0.003	
27079	229.0	230.5	0.71	-	0.8	0.02	15	0.001	
27080	230.5	232.0	0.44	-	0.4	0.01	5	0.003	
27081	232.0	233.5	0.67	-	1.2	0.04	5	0.003	
27082	233.5	235.0	0.53	0.53	0.8	0.02	5	0.033	
27083	235.0	236.5	0.50	-	0.7	0.02	50	0.011	
27084	236.5	238.0	0.53	-	0.4	0.01	30	0.022	
27085	238.0	239.5	0.52	-	0.4	0.01	10	0.003	
27086	239.5	241.0	0.43	-	0.3	0.01	5	0.001	
27087	241.0	242.5	0.55	-	0.4	0.01	5	0.001	
27088	242.5	244.0	0.57	0.53	1.2	0.04	10	0.004	
27089	244.0	245.5	0.37	-	0.3	0.01	5	0.004	
27090	245.5	247.0	0.54	-	0.8	0.02	5	0.003	
27091	247.0	248.5	0.50	-	1.0	0.03	10	0.002	
27092	248.5	250.0	0.73	-	1.3	0.04	10	0.002	
27093	250.0	251.5	0.34	-	0.4	0.01	5	0.001	
27094	251.5	253.0	0.53	-	0.7	0.02	5	0.005	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
27095	253.0	254.5	0.40	-	0.4	0.01	5	0.001	
27096	254.5	256.0	0.42	0.43	0.5	0.02	5	0.012	
27097	256.0	257.5	0.39	-	0.2	0.01	5	0.004	
27098	257.5	259.0	0.50	-	0.5	0.02	5	0.005	
27099	259.0	260.5	0.41	-	0.4	0.01	5	0.011	
27100	260.5	262.0	0.53	-	0.4	0.01	5	0.001	
27101	262.0	263.5	0.67	-	0.7	0.02	5	0.019	
27102	263.5	265.0	0.47	0.69	0.5	0.02	5	0.006	
27103	265.0	266.5	0.86	-	1.2	0.04	5	0.002	
27104	266.5	268.0	0.89	-	1.1	0.03	10	0.001	
27105	268.0	269.5	0.69	-	0.5	0.02	5	0.009	
27106	269.5	271.0	0.89	-	1.3	0.04	5	0.014	
27107	271.0	272.5	0.58	-	0.5	0.02	5	0.027	
27108	272.5	274.0	0.67	0.72	0.6	0.02	5	0.023	
27109	274.0	275.5	0.66	-	1.2	0.04	10	0.005	
27110	275.5	277.0	0.73	-	1.7	0.05	5	0.004	
27111	277.0	278.5	0.92	-	1.8	0.05	10	0.001	
27112	278.5	280.0	0.60	-	1.1	0.03	5	0.005	
27113	280.0	281.5	0.35	-	0.9	0.03	5	0.001	
27114	281.5	283.0	0.62	-	1.8	0.05	15	0.003	
27115	283.0	284.5	0.63	0.63	1.5	0.04	5	0.004	
27116	284.5	286.0	0.62	-	1.6	0.05	5	<.001	
27117	286.0	287.5	0.66	-	1.8	0.05	5	<.001	
27118	287.5	289.0	0.76	-	2.4	0.07	10	0.001	
27119	289.0	290.5	0.76	-	1.8	0.05	5	0.002	
27120	290.5	292.0	0.55	-	1.6	0.05	5	0.002	
27121	292.0	293.5	0.36	-	0.6	0.02	5	0.013	
27122	293.5	295.0	0.41	0.43	0.8	0.02	5	0.001	
27123	295.0	296.5	0.35	-	0.6	0.02	5	0.010	
27124	296.5	298.0	0.39	-	0.8	0.02	5	0.007	
27125	298.0	299.5	0.50	-	1.0	0.03	10	0.005	
27126	299.5	301.0	0.39	-	0.8	0.02	5	0.003	
27127	301.0	302.5	0.39	-	1.2	0.04	5	0.006	
27128	302.5	304.0	0.43	0.34	0.8	0.02	5	0.006	
27129	304.0	305.5	0.30	-	0.6	0.02	5	0.004	
27130	305.5	307.0	0.25	-	0.4	0.01	5	0.005	
27131	307.0	308.5	0.30	-	0.4	0.01	5	0.008	
27132	308.5	310.0	0.29	-	0.6	0.02	5	0.006	
27133	310.0	311.5	0.35	-	0.4	0.01	5	0.005	
27134	311.5	313.0	0.23	-	0.4	0.01	5	0.003	
27135	313.0	314.5	0.26	0.33	0.3	0.01	5	0.002	
27136	314.5	316.0	0.34	-	0.4	0.01	5	0.002	
27137	316.0	317.5	0.32	-	0.5	0.02	5	0.002	
27138	317.5	319.0	0.33	-	1.0	0.03	5	<.001	
27139	319.0	320.5	0.48	-	1.2	0.04	5	0.001	
27140	320.5	322.0	0.31	-	0.9	0.03	10	<.001	
27141	322.0	323.5	0.35	-	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							
27142	323.5	325.0	0.34	-	0.8	0.02	5	0.001	
27143	325.0	326.5	0.30	0.35	0.9	0.03	5	0.002	
27144	326.5	328.0	0.30	-	1.5	0.04	5	0.001	
27145	328.0	329.5	0.48	-	1.6	0.05	5	0.001	
27146	329.5	331.0	0.66	-	0.3	0.01	5	0.001	
27147	331.0	332.5	0.26	-	0.3	0.01	5	<.001	
27148	332.5	334.0	0.40	0.40	1.1	0.03	5	<.001	
27149	334.0	335.5	0.32	-	1.3	0.04	5	<.001	
27150	335.5	337.0	0.40	-	1.3	0.04	5	0.002	
27151	337.0	338.5	0.47	-	1.5	0.04	5	0.001	
27152	338.5	340.0	0.32	-	1.4	0.04	5	<.001	
27153	340.0	341.5	0.26	-	0.7	0.02	5	<.001	
27154	341.5	343.0	0.24	-	0.8	0.02	5	<.001	
27155	343.0	344.5	0.33	-	0.5	0.02	5	<.001	
27156	344.5	346.0	0.37	0.34	0.7	0.02	5	<.001	
27157	346.0	347.5	0.35	-	0.7	0.02	5	<.001	
27158	347.5	349.0	0.48	-	1.8	0.05	5	<.001	
27159	349.0	350.5	0.35	-	1.0	0.03	5	<.001	
27160	350.5	352.0	0.26	-	0.7	0.02	5	<.001	
27161	352.0	353.5	0.20	-	0.6	0.02	5	<.001	
27162	353.5	355.0	0.26	0.24	0.2	0.01	5	0.001	
27163	355.0	356.5	0.37	-	0.2	0.01	5	0.001	
27164	356.5	358.0	0.22	-	0.1	0.01	10	0.001	
27165	358.0	359.5	0.15	-	0.2	0.01	5	<.001	
27166	359.5	361.0	0.09	-	0.1	0.01	5	<.001	
27167	361.0	362.5	0.25	-	0.1	0.01	5	<.001	
27168	362.5	364.0	0.20	0.21	0.1	0.01	10	<.001	
27169	364.0	365.5	0.29	-	0.2	0.01	5	<.001	
27170	365.5	367.0	0.19	-	0.2	0.01	5	<.001	
27171	367.0	368.5	0.26	-	0.8	0.02	5	<.001	
27172	368.5	370.0	0.17	-	0.5	0.02	5	<.001	
27173	370.0	371.5	0.08	-	0.1	0.01	5	<.001	
27174	371.5	373.0	0.13	-	0.2	0.01	5	<.001	
27175	373.0	374.5	0.20	0.16	0.1	0.01	5	<.001	
27176	374.5	376.0	0.15	-	0.1	0.01	5	<.001	
27177	376.0	377.5	0.09	-	0.1	0.01	5	<.001	
27178	377.5	379.0	0.18	-	0.1	0.01	5	<.001	
27179	379.0	380.5	0.29	-	0.2	0.01	5	0.001	
27180	380.5	382.0	0.14	-	0.1	0.01	5	<.001	
27181	382.0	383.5	0.33	-	0.2	0.01	5	0.002	
27182	383.5	385.0	0.20	0.20	0.1	0.01	5	<.001	
27183	385.0	386.5	0.11	-	0.1	0.01	5	<.001	
27184	386.5	388.0	0.22	-	0.2	0.01	5	<.001	
27185	388.0	389.5	0.21	-	0.2	0.01	5	<.001	
27186	389.5	391.0	0.09	-	0.1	0.01	5	<.001	
27187	391.0	392.5	0.09	-	0.1	0.01	5	<.001	
27188	392.5	394.0	0.12	-	0.1	0.01	10	<.001	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
27189	394.0	395.5	0.13	-	0.1	0.01	5	<.001	
27190	395.5	397.0	0.06	} 0.12	0.1	0.01	5	<.001	
27191	397.0	398.5	0.22		-	0.2	0.01	5	<.001
27192	398.5	400.0	0.16		-	0.1	0.01	5	<.001
27193	400.0	401.5	0.19		-	0.2	0.01	5	<.001
27194	401.5	403.0	0.27	} 0.18	0.4	0.01	5	<.001	
27195	403.0	404.5	0.19		-	0.1	0.01	5	<.001
27196	404.5	406.0	0.20		-	0.2	0.01	5	<.001
27197	406.0	407.5	0.22		-	0.2	0.01	5	0.001
27198	407.5	409.0	0.12		-	0.1	0.01	5	0.002
27199	409.0	410.5	0.10		-	0.1	0.01	5	<.001
27200	410.5	412.0	0.16	} 0.17	0.1	0.01	5	<.001	
27301	412.0	413.5	0.15		-	0.1	0.01	5	<.001
27302	413.5	415.0	0.22		-	0.2	0.01	5	<.001
27303	415.0	416.5	0.11		-	0.1	0.01	5	<.001
27304	416.5	418.0	0.25		-	0.2	0.01	5	0.001
27305	418.0	419.5	0.12		-	0.1	0.01	5	<.001
27306	419.5	421.0	0.22		} 0.13	0.2	0.01	5	<.001
27307	421.0	422.5	0.15	-		0.1	0.01	5	0.001
27308	422.5	424.0	0.05	-		0.1	0.01	10	<.001
27309	424.0	425.5	0.11	-	0.2	0.01	5	<.001	

end of hole

DDH # 95-33		Date	9-Dec-95		Logged by		F, V											
Elevation	1710.3 m	Azimuth	225		UTM													
Inclination	-65	Length	285.3 m		Lat/Long													
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.				
0-11.0	Overburden	-	-	-	-	grn Cu-stn ser jar	Fe	-	-	-	-	(chrys)	-	-	-	-	-	Guichon pebbles boulders, volcanics.
11.0-12.6	Guichon	some slip	ckle/dis bx, loc stng	ser, (loc cly)	wk qtz vnlt to 1 cm	loc grn Cu-stn ser, (loc hem stn alb)	jar, (Mn)	Fe, cly	(loc chr)	ser	?	-	chrys	-	-	tr	Green Cu-stained ser in Bx matrix.	
12.6-16.5	Guichon (Hybrid?) loc mafic rich	-	ckle/dis bx loc comp	ser, (chlr)	wk qtz vnlt to 1 cm	loc grn Cu-stn ser (loc hem stn alb)	jar, Mn, loc grn Cu-stn ser	Fe, cly?	loc sil	ser (chlr)	-	loc chrys	loc chrys	-	-	-	A few of the fracture surfaces in the more strongly pervasively Cu stained Guichon have strong chrys as well as more pervasive chrys.	
16.5-20.1	Guichon (Hybrid?)	-	ckle bx	ser, (chlr)	wk qtz vnlt to 2 cm	(loc Cu stn) (loc jar)	(Mn), jar Cu-stn ser	Fe	(loc chr)	ser (chlr) (qtz)	(chlr)	-	(chrys)	-	-	tr/wk	Qtz veinlets contain chrys. Most of Cu stain ser on ckle bx fracture surfaces.	
20.1-24.2	Guichon (Hybrid?)	loc ?	strng ckle bx loc crushed	(qtz) ser (chlr)	wk qtz vnlt to 1 cm	(hem stn alb) loc Cu	grn Cu stn ser tr Mn, (jar)	(Fe) (cly)	loc sil (chlr) loc ser	ser (chlr) (qtz)	-	loc chrys	-	-	-	tr	Guichon locally mafic rich. Local qtz on fractures finely crystalline. Cu staining in bx matrix.	
24.2-28.3	Guichon (Hybrid?)	some slip	ckle bx	ser (chlr) loc qtz	wk qtz vnlt to 1 cm	loc jar loc grn Cu-stn ser	loc jar (Cu stn ser) tr Mn	Fe (cly?)	sil loc chlr loc ser	ser (chlr) loc qtz	(chlr?)	loc chrys	loc chrys	-	-	loc tr	Local secondary biotite. Pervasive ser in more brecciated areas. Pervasive chrys in bx matrix.	
28.3-32.0	Bethlehem	-	ckle/dis bx	(ser) (chlr)	wk qtz vnlt to 1 cm	loc Cu loc jar	(Mn) jar loc Cu stn ser	(Fe)	(loc ser) (chlr)	(ser) (chlr)	-	(chrys)	-	-	-	tr	Cu staining of ser in bx matrix. Pervasive ser at qtz veinlets.	
32.0-35.8	Guichon/ Hybrid loc mafic rich	-	ckle/dis bx	ser (chlr)	wk qtz vnlt to 1 cm	loc jar loc Cu	loc jar Cu stn ser (hem stn ser)	Fe	(ser) (loc chlr)	ser (chlr)	-	chrys	-	-	-	-	Fe staining covering up Cu staining. Locally partially assimilated xenoliths. Chrys in fractures bx matrix.	
35.8-39.7	Guichon	-	stng dis bx	ser, (loc chlr)	wk qtz vnlt < 1 cm	(Cu) loc jar	loc jar (loc hem) Cu stn ser	Fe	loc sil wk ser loc mod	ser (loc chlr)	-	loc chrys	-	-	-	-	Local jar filled fracture? veinlet? surrounding rock pervasive ser.	

GETTY NORTH PROJECT

Gower Thompson & Associates Ltd.

DDH # 95-33	Date	9-Dec-95	
Elevation	1710.3 m	Azimuth	225
Inclination	-65	Length	285.3 m

Logged by	F, V
UTM	
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	
39.7-43.6	Guichon (Hybrid?) fault zone	loc, in crushed/ milled zone	stng/int/loc ckle bx, loc crushed/milled at 40.9-42.2 m	ser (loc chr)	wk qtz vnlt < 1 cm wk carb vnlt	(Cu) loc Cu loc jar	Cu, jar loc jar	Fe, cly?	chr, ser loc ser			loc chrys	loc chrys			40.5-40.8 m possible Bethlehem dyke. Qtz fragments in crushed zone. Local pervasive jar stain in matrix of crushed zone. At 40.7 m appears to be fine crushed but extremely well healed with carb/jarosite veinlets.
43.6-47.2	Guichon		stng ckle bx/ loc shatt	ser, loc ser chr, tr carb	wk qtz < 1 cm vnlt	(loc jar) (loc Cu)	(loc jar) (loc Cu)	(Fe) (cly?)	loc chr loc ser chr tr carb			loc chrys	tr chalc tr cpy	tr pyr (cpy)	tr/wk	46.7--Hypogene/supergene boundary. Local chrys fracture filling in ckle bx.
47.2-50.8	Guichon		stng ckle bx shatt	cly, ser, chr	(qtz vnlt < 1 cm)		loc jar	cly	ser cly ser chr				(cpy)	(cpy)	wk/ mod	***XRD test for clays*** Hydrothermal or weathering? Local jar at top of box. Cpy in mafics and very fine fracture cpy > pervasive cpy.
50.8-54.6	Guichon	loc	ckle bx, loc healed dis bx	ser, chr, cly	(qtz vnlt) carb f.f.	loc hem stn alb		cly	ser ser chr cly					tr cpy (cpy)	wk loc mod	
54.6-58.1	Guichon	loc	ckle/dis bx loc shatt/ crushed	ser, chr, cly	(qtz vnlt < 1 cm)	loc hem stn alb	(loc hem stn ser)	cly	ser (chr) chr cly	chr?			(cpy)	(mo) (cpy)	tr	(mo) in qtz veinlets. Pervasive ser fracture controlled. 1 local 0.5 cm cpy discontinuous veinlets.
58.1-61.8	Guichon		bkn/shatt loc ckle dis bx	ser, chr	(qtz vnlt)	(loc hem stn alb)	loc hem stn ser	cly?	ser loc sil loc chr				(cpy)	wk/ mod cpy (pyr)	tr	Cly on fractures decreasing
61.8-65.0	Guichon	loc some slip	stng ckle dis bx, loc shatt	ser, chr (cly) loc carb	(qtz vnlt < 1 cm) (carb f.f.)	(hem stn alb)		cly?	ser (chr) chr (cly) loc carb				(cpy)	cpy (pyr)		Pervasive ser fracture controlled cpy association with qtz/chr healed fractures.
65.0-68.6	Guichon	some slip	stng ckle bx/ shatt, loc crushed	ser chr (cly) tr carb	(qtz vnlt < 1 cm)	(hem stn alb)		cly?	ser (chr) tr carb (cly) chr	chr?			(cpy)	cpy tr pyr?		Pervasive ser fracture controlled. Cpy associated with qtz/chr healed fractures. Mafics all green.
68.6-71.6	Guichon		bkn/shatt loc stng	ser, chr, (cly) (carb)	(qtz vnlt < 1 cm) (carb vnlt & f.f.)		loc hem stn ser	cly?	tr carb (ser) (chr) (carb)	chr?			(cpy) (pyr)	cpy (pyr)	wk loc mod	Patchy green stained transparent carb(?) on fractures. Weathered cly decreasing? Pyr increasing on fractures down hole.

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 95-33		Date		9-Dec-95						Logged by		F, V							
Elevation	1710.3 m	Azimuth	225							UTM									
Inclination	-65	Length	285.3 m							Lat/Long									
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			
71.6-75.6	Guichon	some slip	mod/loc bkn & shatt, loc ckle bx	ser, chl, carb	(qtz vnits) (carb vnits and f.f.)	-	loc hem stn ser	-	wk/mod ser (loc chl) (sil)	ser	chl?	-	-	(cpy)	(cpy)	tr	loc	mod	1 qtz veinlet has alb alteration envelope only have 0.5 of veinlet indicating movement perpendicular to C.A. Pervasive cpy increasing.
75.6-79.2	Guichon	-	mod/stng shatt, loc ckle bx	ser, chl, carb (cly?)	(qtz vnits) (carb vnits & f.f.)	(hem stn alb & ser)	(loc hem stn ser) loc jar stn ser	-	(loc sil) ser (loc chl)	ser	chl?	-	-	(pyr)	(cpy)	wk			Alb alteration envelopes 2 fractures appear to be hem/carb healed. Molybdenite in thin qtz veinlets core appears to be moderately fractured
79.2-83.1	Guichon (Hybrid--xenolith at 79.3-79.6)	some slip	mod/shatt loc ckle bx	ser, chl, carb (cly?)	qtz vnits to > 2 cm (carb vnits & f.f.)	(loc hem stn ser)	(loc hem stn ser)	-	ser (loc sil) (chl) (carb)	ser	(chl)	-	-	(cpy)	(cpy)	wk			Pervasive ser variable. Alb alteration envelopes Possible very weak pervasive mo?
83.1-87.4	Guichon (Hybrid--xenolith at 87.2 m)	some slip	mod/loc shatt	ser, chl, carb (cly?)	(qtz vnits to > 1.5 cm) (carb vnits & f.f.)	(hem stn alb & ser)	loc lim stn ser?	-	(ser) (chl)	ser	(chl)	-	-	(cpy)	loc mo (cpy) (loc chalc)	wk			Loc mo bearing qtz vnits. Cross cut by 1.5 cm barren qtz veinlet. Small brown flecks on fract surfaces with apple green alteration envelopes. Limonite? Pervasive ser fracture controlled and variable. Some cpy bearing qtz and carb veinlets
87.4-91.4	Guichon-Hybrid (loc mafic rich)	-	stng/shatt loc dis bx	ser, chl, carb (cly?)	(qtz vnits to 2 cm) (carb vnits & f.f.)	(hem stn alb)	loc hem stn ser	-	loc sil (ser) (chl)	ser	(cly?)	-	-	(cpy)	(cpy)	loc	tr	mod	Pervasive ser fracture controlled, local mo in thin qtz veinlets, thicker veinlets appear to be barren.
91.4-95.4	Guichon Hybrid	loc, some slip	stng/shatt loc dis and ckle bx	ser (cly?) chl, carb	qtz vnits to 6 cm (carb vnits and f.f.)	(hem stn alb/ser)	loc lim/lim stn ser	-	loc sil ser (chl)	ser	(cly?)	-	-	(cpy)	(cpy)	wk			Pervasive cpy occurs around fract and veins. Find pyr crystals on fract containing cly and crushed rock. Cpy and ser in fract in thick qtz vein.
95.4-99.6	Guichon Hybrid	thin loc	stng/loc bkn and shatt	ser, (cly?) loc chl?	(qtz vnits) (carb vnits and f.f.)	(hem stn alb/ser)	loc lim/lim stn ser	-	sil? (carb) (ser) (chl)	ser	(chl?)	-	-	(cpy)	(cpy)	wk			Very little qtz veining. Sil alteration or qtz rich (granodiorite)? Pervasive cpy only around fract. Pyr associated with clay and crushed rock.
99.6-103.6	Guichon Hybrid?	some slip	stng/ckle bx	cly, ser, chl, mod/stng carb loc sil	(qtz vnits to 1.5 cm) (carb vnits and f.f.)	(hem stn ser/alb)	loc lim/lim stn ser	-	(loc sil) (carb) ser (chl)	loc sil	(chl?)	-	-	tr/wk cpy	(cpy)	wk			Local pervasive mod carb. Pervasive chl increased a little. Cpy decreasing in fract and pervasively.

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 95-33		Date		9-Dec-95		Logged by		F, V		UTM		MAG.		FL		REMARKS			
Elevation	1710.3 m	Azimuth	225																
Inclination	-65	Length	285.3 m																
STRUCTURE				STAINING		ALTERATION			MINERALIZATION										
ROCK TYPE		FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal		deuteric		supergene		primary				
interval (m)	Gouge	INTENSITY	SURFACES						perv.	fract.			perv	fract	perv	fract			
103.6-108.2	Guichon Hybrid	some slip	stng/shatt bkn loc mod, loc well heal'd dis bx	ser, loc chlr (cly)	(qtz vnits to 3 cm) (carb f.f.)		loc hem stn ser		loc sil (carb) (chlr)	ser loc chlr (cly)	?				(cpy)	(cpy)	wk/ mod	This box and past 4 or 5 seem to have alternating intervals of strong ser pervasive alteration with more siliceous intervals with little or no pervasive ser alteration. Dis bx healed with carb/chlr.	
108.2-113.5	Guichon/ Hybrid	loc thin	wk/mod loc stng/bkn	(loc ser) ser chlr, loc carb cly in gge, qtz	loc abd qtz vnt frags	loc hem stn alb	loc hem stn ser and carb		loc sil loc chlr (loc ser) ser chlr (loc loc carb) carb cly in gge, qtz	(loc ser) ser chlr loc carb cly in gge, qtz				cpy (chalc) cpy	(chalc) cpy	wk/ mod loc stng	Start of NQ II core. ~ 50 % recovery 108.2-109.7m Very strong siliceous, abundant qtz veinlet fragments, probably stockwork. Local sil elsewhere. Chalc frequently occurs with cpy in mafics.		
116.5-118.9	Guichon (Hybrid?) loc mafic rich		wk, loc mod bkn/shatt at top	ser, chlr, loc carb	wk qtz stkwk	(loc hem stn alb)		chlr sil patchy alb (loc ser)	ser chlr loc carb	chlr?			(chalc) (cpy)	tr chalc tr cpy	mod/ stng	Weak qtz stockwork--qtz flooded. (Cpy) in qtz veinlets. Loc strong chlr patches			
118.9-124.1	Guichon	some slip	mod/stng, loc dis bx/crushed	ser, (chlr), loc cly, carb loc qtz	stng qtz vnits to 2.0 cm, wk carb vnits & f.f.	patchy hem stn alb	loc hem stn ser		(loc carb) (chlr) loc alb loc ser	ser (chlr) loc cly carb loc qtz	chlr?		(patchy chalc) patchy cpy (pyr)	(chalc) (cpy)	tr/wk	Grey crowded porphyry dyke 120.5 - 123.6 m with brecciated upper contact, lower melt contact. Qtz veinlets frequently with alb margins cut both Guichon and porphyry			
124.1-129.5	Guichon		wk, loc mod	ser, loc chlr carb, loc qtz	wk qtz vnits	(loc hem stn alb)		(loc ser) (chlr) loc alb	ser loc chlr carb loc qtz	chlr?			(patchy chalc) cpy (pyr)	loc cpy loc chalc)	wk	Fracture set at ~ 80° C.A. in both Guichon and porphyry mineralized with fine grained cpy. Upper contact is intrusion brecciated with loc strong concentration of cpy and (chalc). Numerous Guichon xenoliths with disseminated chalc and cpy near lower contact. Wallrock also enriched in chalc and cpy			
129.5-134.9	Guichon		wk, loc mod	(ser) (chlr) carb, loc cly	wk qtz vnits wk qtz/chlr heal'd fract's	(loc hem stn alb)	(loc hem stn ser)	(chlr) (loc alb)	(loc ep) (ser) (chlr) loc carb qtz	chlr			(cpy) tr chalc	tr chalc (cpy)	mod	Overall alteration intensity decreasing. Weak developed alteration envelope on fract's and veinlets.			

GETTY NORTH PROJECT

Gower Thompson & Associates Ltd.

DDH # 95-33		Date	9-Dec-95		Logged by		F, V										
Elevation	1710.3 m	Azimuth	225		UTM												
Inclination	-65	Length	285.3 m		Lat/Long												
ROCK TYPE		FAULT	STRUCTURE		STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS	
interval (m)	FAULT	FRACTURE	FRACTURE	VEINING	perv.	fract.	weath.	hydrothermal	deutenc	supergene		primary					
	GOUGE	INTENSITY	SURFACES					perv.	fract.		perv	fract	perv	fract			
134.9-139.6	Guichon	loc	wk/mod, loc fault bx/milled	ser, (chlr) carb, loc cly	wk qtz vnits & frags w/ (cpy) & (chalc), wk carb vnits & void filling	loc hem (loc hem stn ser & alb		loc chlr loc ser (chlr) (patchy carb alb) loc carb	ser (chlr)	chlr			(loc cpy) (loc chalc)	tr cpy tr chalc tr pyr	loc tr/wk		Carb/(chlr) healed shear/Fault bx. 137.0-138.7 m, coarse crystalline carb in vugs; local milled.
139.6-142.3	Guichon	loc htin	wk/mod loc stng	(ser) (chlr) carb, (loc cly)	wk qtz vnits w/(cpy), wk carb vnits & f.f.	loc hem (loc hem stn ser & alb		loc sil (chlr) loc ser loc carb	(ser) (chlr) carb loc cly				tr cpy tr chalc (cpy)	(loc chalc) (cpy)	loc tr/wk		Alteration intensity increases strongly with depth to sheared?/healed contact with grey, crowded porphyry at 142.3 m. Primary mineralization associated with fract.
142.3-144.7	Porphyry Hbde/plag		mod/stng	ser, carb (chlr) (loc cly)	wk qtz vns to 6 cm			sil (chlr) tr carb	ser carb (chlr) (loc cly)				cpy (pyr) (pyr)	(pyr) (cpy)	tr		Hornblende plagioclase porphyry. Probably McMillan's "D11" porphyry. Matrix and phenos quite siliceous--qtz and/or alb altered.
144.7-148.8	Porphyry hbde/plag	some slip	mod/loc bkn	ser, (chlr), carb, qtz	(qtz vnits to 1 cm) (carb f.f)			tr carb (chlr) (loc ser)	ser (chlr) carb qtz				cpy tr chalc	cpy tr pyr	tr		Weak local hem stain alb alteration envelopes
148.8-154.2	Guichon	some slip	wk/mod, loc stng/bkn	ser, (chlr) carb, (loc cly?)	wk qtz vnits < 1 cm, num qtz/chlr heal'd fract w/cpy & (chalc)	(loc hem stn alb)		loc sil patchy ser (chlr) alb? tr carb	ser chlr carb (loc cly?)				cpy (pyr) tr chalc	cpy (chalc) tr bo	tr/wk		Locally quite siliceous---qtz flooded. Porphyry dykes 149.8-150.3 m, 151.0-152.1 m, hornblende plagioclase as seen above. Intrusion bx at upper contact, scattered Guichon xenoliths throughout porphyry. Disseminated pervasive cpy greater in porphyry than in Guichon; chalc present in both.
154.2-156.7	Guichon/ Hybrid	some slip	wk/mod, loc stng/bkn	ser, (chlr) carb	wk qtz vnits wk carb vnits & f.f.	(loc hem stn alb)		patchy alb (chlr)	ser (chlr) carb	chlr			patchy cpy patchy chalc	(cpy) (chalc)	wk/ mod		Partially assimilated xenolith. Weak alb alteration envelope on qtz veinlets. Cpy and chalc concentration increase near xenolith and porphyry contacts. Loc mod/stng concentration of chalc in mafic xenolith.
156.7-159.2	Porphyry hbde/plag	some slip	wk/mod	carb, ser, chlr	wk carb microvns, f.f	(loc hem stn alb)		loc sil (chlr) (loc alb)	carb ser chlr				cpy (chalc) (cpy)	(loc pyr) (cpy)	tr		Porphyry appears to vary from previously seen hornblende-plagioclase to crowded, grey hornblende-plagioclase porphyry with few mafics.
159.2-164.6	Porphyry hbde/plag	some slip	mod/loc bkn shatt	ser, chlr, carb sil	(qtz vnits to 2 cm) (carb vnits & f.f.)	loc hem stn alb		(chlr) sil and/ or alb (loc ser)	ser chlr carb sil				cpy (chalc)	loc chalc (cpy)	tr		Pink apite porphyry crosscutting grey porphyry and qtz veinlets. Pink porphyry close to porphyry in 95-7, 149.2m. Possible D2 or D9 porphyry (see McMillan's list). Chalc on contact between the 2 porphyries. In pink porphyry pervasive chalc> pervasive cpy.

GETTY NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 95-33		Date		9-Dec-95						Logged by		F, V							
Elevation	1710.3 m	Azimuth	225					UTM											
Inclination	-65	Length	285.3 m					Lat/Long											
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				
164.6-166.7		Poprophy hbde/plag	wk	(ser) (chlr) (carb) sil	(qtz vnits) (carb f.f)				(chlr)	(ser)				cpy	(chalc)	tr		Porphyry contains few small Guichon xenoliths	
166.7-170.4		Poprophy qtz/plag (pink)	wk/mod	ser, loc chlr carb	(qtz vnits to 2 cm) (carb vnits & f.f.)	loc hem stn alb			(chlr)	ser				cpy	loc	tr		Chlr on ly on a few fractures; qtz/carb healed fractures almost // to C.A. +/- chalc and cpy 167.0-168.2: Mixed Guichon and grey porphyry 168.2-170.4: unknown porphyry. Possibly same as 95-24, 92.4 m. Possible D1 porphyry. **should be stained for K-spar chalc concentrated in mafic blotches.	
170.4-175.9		Poprophy qtz/plag (pink)	wk	(ser) (loc chlr) carb	num qtz microveins & vnits	loc hem stn alb			sil &/or alb	(ser) (loc chlr) carb				(chalc) (cpy)	tr cpy	tr/wk		1/4 Aplite, most ≥ 4 cm. apelite locally porphyritic **Should be stained for K-spar. Some alb alteration envelopes on fractures and veinlets	
175.9-181.4		Poprophy qtz/plag (pink)	some slip	wk, loc mod	(ser), (chlr) carb, (loc sil)	mod/stng qtz micro- vns & vnits contain chalc	loc hem stn alb		sil &/or alb	(ser) (loc chlr) carb (loc sil)	chlr?			(patchy chalc) tr cpy	loc cpy	tr/wk		Aplite locally porphyritic. Alb alteration envelopes on fracts and veinlets. 70 and 0-5° C.A. fracts preferentially mineralized with cpy.	
181.4-187.0		Poprophy qtz/plag (pink/ mottled)	loc thin (suspect some lost)	mod/loc, stng & shatt/bkn	(ser) (chlr) carb, (loc sil)	mod/stng qtz micro- vnits and vnits < 1cm	patchy hem stn alb		sil &/or alb	(ser) (chlr) carb (loc sil)				(chalc) (loc cpy)	(chalc) tr mo (loc pyr) tr cpy	tr/wk		185.1-197.0--Intrusion bx with qtz/plag porphyry and Guichon clasts. Matrix is hbde/plag porphyry clast boundaries relatively unaltered. Aplite at end of box.	
187.0-192.3		Poprophy qtz/plag, (pink)	wk/mod loc shatt	loc ser, (loc chlr), (loc sil?) carb	wk/mod qtz vnits & microvns <1 cm. qtz chlr healed fracts	hem stn alb			loc ser	loc ser				(patchy chalc) (cpy)	(chalc) (loc pyr) tr cpy	tr		Increase in hem stained alb and/or K-spar. Aplite dyke 187.5-188.7 m, healed fracts contain chalc and (cpy)	
192.3-197.1		Poprophy qtz/plag (same porph- y as last boxes but cream colour or hem stained	mod/stng loc bkn	(loc ser) (loc chlr) carb	wk/mod qtz microvns & vnits. Loc vuggy carb vnits	hem stn alb			loc ser	(loc ser)				tr/wk cpy & chalc	(chalc) (cpy)			Drusy calcite in bugs. Less pervasive mineraliza- tion, more fract controlled mineralization, loc apelite dykes. ***Loc trace crystalline chalcocite example in office.	

GETT, NORTH PROJECT				Gower Thompson & Associates Ltd.													
DDH # 95-33		Date	9-Dec-95		Logged by							F, V					
Elevation	1710.3 m	Azimuth	225		UTM												
Inclination	-65	Length	285.3 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.			
197.1-201.4	Porphyry qtz/plag		mod/stng loc bkn & shatt	ser, loc chl (loc ser) carb	(qtz vnlt & microvns)	loc hem stn alb	loc hem stn ser		sil &/or alb (loc chl (loc ser)	ser loc chl (loc serp) carb ser)			tr cpy tr chalc	(loc chalc) tr cpy			Local aplite dykes. Local trace crystalline chalc.
201.4-205.8	Porphyry qtz/plag	loc thin some slip	mod/stng, loc bkn & shatt	(ser) (loc chl) carb, sil	(qtz vnlt & (carb vnlt)	loc hem stn alb			(loc chl sil &/or alb sil	(ser) (loc chl (carb) sil			tr cpy tr chalc	(pyr) tr cpy			Local aplite dykes. Local pervasive and fract ser through broken and shattered core.
205.8-210.9	Porphyry qtz/plag		mod/stng, loc bkn & shatt loc healed dis bx	ser, loc chl (sil) carb	(qtz vnlt)	(loc hem stn alb)			sil &/or alb	ser loc chl (sil) carb			(cpy) (chalc)	tr cpy (loc chalc)			Disseminated breccia healed with qtz. Local strong alb alteration envelopes. Local weak crystalline calcite on fractures. Shear zone (?) containing vuggy qtz vnlt that contain local strong cpy and chalcocite along margin of veinlets, fracures // to veinlet
210.9-216.2	Guichon (gradational contact into Guichon) wk fault zone	loc thin, some slip 210.9-211.7 m, wk fault 10° C.A.	wk/loc bkn & crushed	(ser), chl carb, (loc sil)	(irreg qtz vnlt < 0.5 cm) loc carb f.f.	(loc hem stn alb)			sil &/or alb patchy chl loc ser	(ser) chl carb (loc sil)			chalc tr bo (cpy)	tr bo (chalc) (cpy)	loc tr		Local ser in broken core. Chalc in fract // to C.A.
216.2-221.4	Guichon	some slip	wk/mod	(ser), loc chl (loc sil) carb	(qtz micro- vns & vnlt to 1 cm)	(loc hem stn alb)			(loc chl	(ser) loc chl (loc sil) carb			tr bo tr cpy (patchy chalc)	loc mo tr bo (chalc) (cpy)	tr/wk		Guichon texture jore evident qtz/chl helaed fracture set at // to C.A. containing cpy and chalc. **Stain for K-spar**. Molybdenite coating on a slip surface with carb chatter marks blobs of cpy -chalc in 1 cm qtz veinlet.
221.4-227.0	Guichon		wk/mod	(loc ser) loc chl, carb	(qtz vnlt & microveins) (carb vnlt and f.f.)	(loc hem stn alb)			(chl) loc alb (loc ser)	(loc ser) loc chl carb			(patchy chalc) tr cpy	(loc chalc) (cpy)	tr/wk		(Alb) and (ser) alteration envelopes. Qtz/alb veinlet with pyr. Mag picking up.
227.0-232.4	Guichon		wk/mod/loc stng and bkn	ser, chl, carb	(qtz vnlt) (carb vnlt and f.f.)	(loc hem stn ser & chl)			(chl) loc ser (loc alb)	ser chl carb			tr chalc tr cpy	(loc chalc) tr pyr (loc cpy)			

GETTY NORTH PROJECT				Gower Thompson & Associates Ltd.													
DDH # 95-33		Date	9-Dec-95	Logged by								F, V					
Elevation	1710.3 m	Azimuth	225	UTM													
Inclination	-65	Length	285.3 m	Lat/Long													
ROCK TYPE		FAULT	FRACTURE	FRACTURE	VEINING	STAINING		ALTERATION			MINERALIZATION				MAG.	FL	REMARKS
interval (m)	GOUGE	INTENSITY	SURFACES		perv.	fract.	weath.	hydrothermal	deuteric	supergene		primary					
								perv.	fract.		perv	fract	perv	fract			
232.4-237.7	Guichon	some slip	wk, loc ckle bx	ser, carb cly? (chlr)	(qtz vnits to 2 cm) (carb f.f.)	loc hem stn chlr	-	(loc ser) loc alb (chlr)	loc ep	-	-	-	tr cpy tr chalc (cpy) (chalc)	tr bo (mo) (cpy) (chalc)	loc tr		Pervasive ser fracture controlled, weak to mod qtz chlorite healed fractures with sericitic enve- lopes ser has more powderly look--cly?
237.7-242.9	Guichon	some slip	mod/stng/loc bkn, set at 20° C.A.	ser, loc chlr carb, cly?	(qtz vnits) (carb vnits & f.f)	(hem stn alb)	-	(chlr) loc sil? (loc ser) loc alb	loc chlr carb cly?	-	-	-	(chalc) tr cpy (cpy) loc pyr tr chalc	tr bo loc mo (cpy) loc pyr tr chalc	tr		**XRD for clay**. Local crystalline clacite on fracts Local hem stained alb alteration envelopes. Ser- icitic alteration envelope intensity increasing.
242.9-248.1	Guichon	loc, some lost	mod/stng/loc bkn	ser, (chlr) carb, cly	(carb vnits & f.f) (qtz vnits)	loc hem stn ser & alb	-	loc ser chlr loc sil? loc carb	ser (chlr) carb cly	-	-	-	tr bo (chalc) tr cpy	tr bo tr cpy	tr		Overall alteration intensity increasing. Sharp change in alteration occurs 1/2 into box. Fracture ser loc stng. Molybdenite in qtz veins.
248.1-253.3	Guichon	loc, 1 cm thick	mod/stng/loc bkn	ser, chlr, carb cly? loc ep	(qtz vnits to 1 cm) (carb vnits & f.f.)	(loc hem stn ser)	loc hem stn ser	(patchy carb) loc sil loc ser (chlr)	ser (chlr) carb cly loc ep	-	-	-	(cpy) tr chalc tr chalc loc mo	loc bo (cpy) tr chalc loc mo	tr/wk		Ep in carb veinlets and fracture filling. Alteration from last box ends 20 cm into box. Pervasive cpy increasing. Cpy, loc chalc and bo in qtz veinlets, mo on qtz veinlet margins. (Alb) alteration envelopes.
253.3-258.2	Guichon	some slip (along ep veinlets)	wk/mod, loc stng and bkn	(ser) chlr, carb, cly? loc ep	ep vnits (qtz vnits) (carb vnits and f.f.)	(loc hem stn alb)	loc hem stn ser	tr carb (patchy ser) (chlr) loc sil?	loc ep (ser) chlr carb cly?	-	-	-	tr cpy tr chalc	tr cpy tr chalc	tr/wk		10-20° C.A. qtz and chlr healed fracts. Local moderate/stain ser on fracts. Moderate chalc in and around qtz/chlr healed fracts (5-20° C.A.)
258.2-263.7	Guichon	-	wk/mod	chlr, ser, (carb)	(carb vnits & f.f.)	-	loc hem stn ser & chlr	(carb) (patchy ser) (chlr)	chlr ser (carb)	-	-	-	(cpy) tr chalc	tr cpy tr chalc	tr/wk		Well healed shear zone with pale mauve-beige fine grained clasts. Possible shear in partial melt/hot rock, 260-263.7 m--Guichon with large mafic blotches---some just chlr, the larger blotches army green with inner brown spots and dark chlorite green edges. Cpy in shear zone, healed fractures, mafic blotches concentration of carb in shear zone.
263.7-267.8	Guichon fault zone	loc 265.8- 267.2 m/ shear zone	mod/stng/bkn /loc crush and milled	ser, chlr, carb	(qtz vnits) (carb vnits & f.f.)	(loc hem stn alb)	-	carb loc chlr loc ser	ser chlr carb	-	-	-	tr chalc tr pyr tr wk cpy	tr cpy tr chalc	-		Chlr/carb healed gouge. Alteration intensity increasing with depth. Carb/chlorite healed fracts.

GETT, NORTH PROJECT										Gower Thompson & Associates Ltd.									
DDH # 95-33		Date		9-Dec-95						Logged by		F, V							
Elevation	1710.3 m	Azimuth	225							UTM									
Inclination	-65	Length	285.3 m							Lat/Long									
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.	(ep?)	perv	fract	perv	fract				
267.8-272.6		Porphyry crowded, grey	bkn & shatt loc stng set at 0° C.A. with cpy & chalc	(ser) (cly?) (loc chlr)	(qtz vnlt) carb f.f. qtz vnlt contain cpy & chalc	hem stn mafics	loc hem		(ep) (chlr) alb?	(ser) (cly?) (loc chlr)	(ep?)			(cpy) tr chalc	(cpy) tr chalc	tr/wk		Sharp contact between Guichon and Porphyry. Local plagioclase/qtz pink porphyry with cpy. Loc crystalline chalc. Hem stain appears to be from weak fracture coating of hem. Crystalline calcite on fract. Possible dykelet fo pink porphyry cross- cutting grey porphyry? Mafic patches: locally centers hematized (pale pink centres)	
272.6-276.8		Porphyry crowded, grey	bkn & shatt /loc stng	(ser) (chlr) carb	(qtz vnlt) to 1 cm (carb f.f.)		loc hem stn ser		alb? (loc chlr)	loc ep (cly?)	tr ep			tr chalc tr cpy tr pyr	loc mo tr chalc tr cpy	wk		(Alb and ser) alteration envelopes on fract and qtz veinlets.	
276.8-281.0		Porphyry crowded, grey	some slip bkn & shatt	mod/stng loc carb	(ser) (chlr) carb	(loc hem stn alb)	loc hem stn ser		alb? (loc chlr)	(ser) (chlr) carb				tr cpy tr chalc	(cpy) tr chalc loc pyr loc mo	tr/wk			
281.0-285.3		Porphyry crowded, grey	loc, suspect some lost	mod/stng loc bkn & shatt	loc ser, chlr carb	(carb f.f.)	(loc hem stn alb)	(loc hem stn ser)	loc alb (chlr) (loc sil)	loc ser chlr carb					loc pyr loc mo loc cpy	tr/wk		Sharp increase in pyr.	
EOH 285.3																			

DDH 95-33									
Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
27310	10.7	12.2	0.69	0.64	-	-	-	-	
27311	12.2	13.7	1.41	1.39	-	-	-	-	
27312	13.7	15.2	0.97	0.94	-	-	-	-	
27313	15.2	16.7	0.69	0.66	-	-	-	-	
27314	16.7	18.2	0.57	0.51	-	-	-	-	
27315	18.2	19.7	0.66	0.58	-	-	-	-	
27316	19.7	21.2	0.69	0.60	-	-	-	-	
27317	21.2	22.7	0.82	0.80	-	-	-	-	
27318	22.7	24.2	0.66	0.56	-	-	-	-	
27319	24.2	25.7	0.64	0.52	-	-	-	-	
27320	25.7	27.2	0.57	0.50	-	-	-	-	
27321	27.2	28.7	0.48	0.32	-	-	-	-	
27322	28.7	30.2	0.79	0.62	-	-	-	-	
27323	30.2	31.7	0.52	0.34	-	-	-	-	
27324	31.7	33.2	0.71	0.64	-	-	-	-	
27325	33.2	34.7	0.83	0.82	-	-	-	-	
27326	34.7	36.2	0.57	0.46	-	-	-	-	
27327	36.2	37.7	0.69	0.66	-	-	-	-	
27328	37.7	39.2	0.51	0.42	-	-	-	-	
27329	39.2	40.7	0.49	0.45	-	-	-	-	
27330	40.7	42.2	0.53	0.52	-	-	-	-	
27331	42.2	43.7	0.77	0.75	-	-	-	-	
27332	43.7	45.2	0.98	0.97	-	-	-	-	
27333	45.2	46.7	0.93	0.72	-	-	-	-	
27334	46.7	48.2	0.66	0.03	-	-	-	-	
27335	48.2	49.7	0.82	-	1.7	0.05	10	0.031	
27336	49.7	51.2	0.77	-	1.6	0.05	5	0.003	
27337	51.2	52.7	0.73	-	1.4	0.04	10	0.032	
27338	52.7	54.2	0.47	-	0.7	0.02	10	0.031	
27339	54.2	55.7	0.73	-	1.1	0.03	5	0.058	
27340	55.7	57.2	0.59	-	0.6	0.02	10	0.005	
27341	57.2	58.7	0.76	-	0.9	0.03	10	0.003	
27342	58.7	60.2	0.62	-	0.1	0.01	5	0.018	
27343	60.2	61.7	0.73	-	0.4	0.01	5	0.030	
27344	61.7	63.2	0.88	-	1.0	0.03	5	0.008	
27345	63.2	64.7	0.58	-	0.7	0.02	5	0.004	
27346	64.7	66.2	0.59	-	0.7	0.02	5	0.004	
27347	66.2	67.7	0.63	-	0.6	0.02	10	0.005	
27348	67.7	69.2	0.55	-	0.6	0.02	10	0.009	
27349	69.2	70.7	0.61	-	1.0	0.03	5	0.006	
27350	70.7	72.2	0.71	-	0.9	0.03	5	0.006	
27351	72.2	73.7	0.86	-	1.5	0.04	5	0.002	
27352	73.7	75.2	0.51	-	1.1	0.03	5	0.004	
27353	75.2	76.7	0.57	-	0.8	0.02	5	0.004	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
27354	76.7	78.2	0.55	-	0.9	0.03	5	0.005	
27355	78.2	79.7	0.52	-	0.9	0.03	5	0.005	
27356	79.7	81.2	0.52	-	0.8	0.02	5	0.011	
27357	81.2	82.7	0.73	-	1.5	0.04	10	0.011	
27358	82.7	84.2	0.49	0.52	1.2	0.04	10	0.003	
27359	84.2	85.7	0.71	-	1.2	0.04	10	0.006	
27360	85.7	87.2	0.36	-	0.6	0.02	5	0.005	
27361	87.2	88.7	0.36	-	0.6	0.02	5	0.026	
27362	88.7	90.2	0.48	-	0.8	0.02	5	0.006	
27363	90.2	91.7	0.45	-	0.8	0.02	10	0.003	
27364	91.7	93.2	0.44	-	0.6	0.02	5	0.005	
27365	93.2	94.7	0.40	-	0.3	0.01	5	0.002	
27366	94.7	96.2	0.58	0.44	1.1	0.03	10	0.003	
27367	96.2	97.7	0.57	-	1.0	0.03	5	0.002	
27368	97.7	99.2	0.28	-	0.6	0.02	10	0.002	
27369	99.2	100.7	0.37	-	0.7	0.02	5	0.001	
27370	100.7	102.2	0.33	-	0.3	0.01	5	0.001	
27371	102.2	103.7	0.35	-	0.7	0.02	5	<.001	
27372	103.7	105.2	0.65	0.41	1.5	0.04	15	0.002	
27373	105.2	106.7	0.27	-	0.6	0.02	10	0.001	
27374	106.7	108.2	0.51	-	1.0	0.03	5	0.001	
27375	108.2	109.7	0.37	-	0.9	0.03	5	0.001	
27376	109.7	111.2	0.43	-	1.2	0.04	5	0.001	
27377	111.2	112.7	0.41	-	1.0	0.03	5	0.004	
27378	112.7	114.2	0.36	-	1.1	0.03	5	0.002	
27379	114.2	115.7	0.32	0.37	1.0	0.03	5	0.001	
27380	115.7	117.2	0.44	-	1.2	0.04	5	<.001	
27381	117.2	118.7	0.31	-	0.8	0.02	5	0.003	
27382	118.7	120.2	0.35	-	0.8	0.02	5	0.001	
27383	120.2	121.7	0.25	-	0.6	0.02	5	<.001	
27384	121.7	123.2	0.15	-	0.4	0.01	5	<.001	
27385	123.2	124.7	0.29	-	0.8	0.02	5	<.001	
27386	124.7	126.2	0.28	0.27	0.9	0.03	5	<.001	
27387	126.2	127.7	0.18	-	0.2	0.01	5	<.001	
27388	127.7	129.2	0.23	-	0.7	0.02	5	0.001	
27389	129.2	130.7	0.48	-	1.5	0.04	5	0.001	
27390	130.7	132.2	0.47	-	1.2	0.04	5	<.001	
27391	132.2	133.7	0.43	-	1.2	0.04	5	<.001	
27392	133.7	135.2	0.42	0.39	1.3	0.04	5	0.001	
27393	135.2	136.7	0.39	-	1.2	0.04	5	<.001	
27394	136.7	138.2	0.27	-	0.9	0.03	5	0.001	
27395	138.2	139.7	0.36	-	0.9	0.03	5	<.001	
27396	139.7	141.2	0.22	-	0.7	0.02	5	<.001	
27397	141.2	142.7	0.28	-	0.6	0.02	5	<.001	
27398	142.7	144.2	0.43	0.45	0.8	0.02	5	0.001	
27399	144.2	145.7	0.60	-	1.2	0.04	5	<.001	
27400	145.7	147.2	0.46	-	0.8	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							
27401	147.2	148.7	0.53	-	0.8	0.02	5	0.001	
27402	148.7	150.2	0.65	-	1.3	0.04	5	0.001	
27403	150.2	151.7	0.56	-	1.2	0.04	5	0.001	
27404	151.7	153.2	0.59	-	1.4	0.04	5	0.001	
27405	153.2	154.7	0.54	-	1.3	0.04	5	<.001	
27406	154.7	156.2	0.37	0.50	1.0	0.03	5	<.001	
27407	156.2	157.7	0.48	-	0.9	0.03	5	0.001	
27408	157.7	159.2	0.46	-	1.0	0.03	5	0.002	
27409	159.2	160.7	0.48	-	0.7	0.02	5	<.001	
27410	160.7	162.2	0.42	-	1.2	0.04	5	<.001	
27411	162.2	163.7	0.48	-	1.8	0.05	5	<.001	
27412	163.7	165.2	0.52	0.43	1.3	0.04	5	<.001	
27413	165.2	166.7	0.44	-	0.8	0.02	5	0.003	
27414	166.7	168.2	0.44	-	1.2	0.04	5	<.001	
27415	168.2	169.7	0.26	-	0.8	0.02	5	0.001	
27416	169.7	171.2	0.26	-	0.8	0.02	5	0.001	
27417	171.2	172.7	0.37	-	1.1	0.03	5	0.001	
27418	172.7	174.2	0.24	-	0.5	0.02	5	0.004	
27419	174.2	175.7	0.24	0.34	0.6	0.02	5	0.001	
27420	175.7	177.2	0.44	-	1.1	0.03	5	0.002	
27421	177.2	178.7	0.39	-	1.0	0.03	5	0.003	
27422	178.7	180.2	0.46	-	1.4	0.04	5	0.001	
27423	180.2	181.7	0.33	-	0.9	0.03	5	<.001	
27424	181.7	183.2	0.28	-	0.9	0.03	5	0.001	
27425	183.2	184.7	0.35	-	1.0	0.03	5	0.001	
27426	184.7	186.2	0.57	0.35	1.5	0.04	5	0.002	
27427	186.2	187.7	0.32	-	0.8	0.02	5	0.002	
27428	187.7	189.2	0.26	-	0.6	0.02	5	0.003	
27429	189.2	190.7	0.32	-	0.9	0.03	5	0.002	
27430	190.7	192.2	0.45	-	1.6	0.05	5	0.004	
27431	192.2	193.7	0.3	-	0.8	0.02	5	0.002	
27432	193.7	195.2	0.56	0.33	2.1	0.06	5	0.001	
27433	195.2	196.7	0.26	-	1.0	0.03	5	0.001	
27434	196.7	198.2	0.24	-	0.7	0.02	5	0.003	
27435	198.2	199.7	0.15	-	0.6	0.02	5	0.001	
27436	199.7	201.2	0.21	-	0.8	0.02	5	0.009	
27437	201.2	202.7	0.26	-	1.3	0.04	5	<.001	
27438	202.7	204.2	0.26	-	1.1	0.03	5	0.002	
27439	204.2	205.7	0.27	0.30	1.1	0.03	5	0.001	
27440	205.7	207.2	0.35	-	1.2	0.04	5	0.005	
27441	207.2	208.7	0.37	-	1.1	0.03	5	<.001	
27442	208.7	210.2	0.37	-	1.2	0.04	5	0.003	
27443	210.2	211.7	0.66	-	3.0	0.09	5	0.001	
27444	211.7	213.2	0.44	-	1.8	0.05	5	0.002	
27445	213.2	214.7	0.71	0.63	2.1	0.06	5	<.001	
27446	214.7	216.2	0.81	-	2.4	0.07	5	0.001	
27447	216.2	217.7	0.61	-	1.7	0.05	5	<.001	

Sample Number	Interval (m)		% Total Cu	% Non-Sulphide Cu	Ag (g/t)	Ag (oz/t)	Au (ppb)	% Mo	Lithology
	From	To							
27448	217.7	219.2	0.60	-	1.8	0.05	5	0.004	
27449	219.2	220.7	0.57	-	1.7	0.05	5	<.001	
27450	220.7	222.2	0.29	-	0.8	0.02	5	<.001	
27451	222.2	223.7	0.31	-	1.1	0.03	5	0.001	
27452	223.7	225.2	0.38	0.35	1.4	0.04	5	0.004	
27453	225.2	226.7	0.36	-	1.0	0.03	5	0.006	
27454	226.7	228.2	0.42	-	1.4	0.04	5	<.001	
27455	228.2	229.7	0.35	-	1.2	0.04	5	0.002	
27456	229.7	231.2	0.56	-	1.3	0.04	5	0.021	
27457	231.2	232.7	0.24	-	0.6	0.02	5	0.003	
27458	232.7	234.2	0.41	0.44	1.4	0.04	5	<.001	
27459	234.2	235.7	0.42	-	1.8	0.05	5	0.001	
27460	235.7	237.2	0.42	-	1.2	0.04	5	0.005	
27461	237.2	238.7	0.47	-	1.3	0.04	5	0.003	
27462	238.7	240.2	0.57	-	1.8	0.05	5	0.001	
27463	240.2	241.7	0.64	-	2.1	0.06	5	0.001	
27464	241.7	243.2	0.61	-	2.0	0.06	5	0.013	
27465	243.2	244.7	0.64	-	2.2	0.06	5	0.004	
27466	244.7	246.2	0.53	0.55	2.0	0.06	5	0.002	
27467	246.2	247.7	0.45	-	1.8	0.05	5	0.022	
27468	247.7	249.2	0.44	-	0.7	0.02	5	0.017	
27469	249.2	250.7	0.53	-	1.2	0.04	5	0.003	
27470	250.7	252.2	0.66	-	2.1	0.06	5	<.001	
27471	252.2	253.7	0.66	-	2.3	0.07	5	0.001	
27472	253.7	255.2	0.59	0.67	2.2	0.06	5	<.001	
27473	255.2	256.7	0.67	-	2.3	0.07	5	0.001	
27474	256.7	258.2	0.52	-	1.7	0.05	5	<.001	
27475	258.2	259.7	0.90	-	2.3	0.07	5	0.001	
27476	259.7	261.2	1.01	-	2.4	0.07	5	0.001	
27477	261.2	262.7	0.62	-	1.5	0.04	5	0.001	
27478	262.7	264.2	0.64	-	1.1	0.03	5	0.002	
27479	264.2	265.7	1.01	0.83	2.8	0.08	5	0.001	
27480	265.7	267.2	0.86	-	2.3	0.07	5	0.002	
27481	267.2	268.7	1.14	-	1.4	0.04	5	0.003	
27482	268.7	270.2	0.54	-	1.0	0.03	5	0.003	
27483	270.2	271.7	0.53	-	1.3	0.04	5	0.003	
27484	271.7	273.2	0.42	-	0.8	0.02	5	0.001	
27485	273.2	274.7	0.35	0.35	0.6	0.02	5	0.001	
27486	274.7	276.2	0.28	-	1.1	0.03	5	0.001	
27487	276.2	277.7	0.27	-	1.0	0.03	5	<.001	
27488	277.7	279.2	0.19	-	0.5	0.02	5	<.001	
27489	279.2	280.7	0.44	-	0.7	0.02	5	0.002	
27490	280.7	282.2	0.26	-	0.6	0.02	5	0.005	
27491	282.2	283.7	0.15	0.16	0.3	0.01	5	0.001	
27492	283.7	285.3	0.06	-	0.2	0.01	5	0.013	
end of hole									