GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

29,011

TAKLA - REDTON PROJECT

2006 ASSESSMENT REPORT

Appendix 7

Redton Project 2006 Drill Logs

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VANCOUVER, B.C.

29011
Vol. 3

Geoinformatics Exploration Inc

Collar

Hole ID	RB06_01	*Hole type*	DD		*Drilling company*		*Grid ID*	NAD83_UTM_10	
DataSet	GXL_REDTON_2006	*Depth*	365.46	m	*Geologist*		*Easting*	354920.00	*RL* 1635.00 m
Prospect	Rainbow	*Commenced*	7/09/2006		*Survey Method*		*Northing*	6171210.00	
Tenement		*Completed*	11/09/2006		*Notes*				

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
91.14	m	4.6	NAD83_UTM	-75.1	CAMERA	
182.58	m	7.3	NAD83_UTM	-75.5	CAMERA	
274.02	m	8.3	NAD83_UTM	-75.7	CAMERA	
365.45	m	15.5	NAD83_UTM	-75.8	CAMERA	

Lithology

Logged by: Gemma_Cryan

		Lith 1						*Lith 2*						
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	12.54	CASE												
12.54	26.95	IIO	F		im	eq								
26.95	27.78	IFO	M		fp	eq								
27.78	29.57	IIO	F		im	eq								
29.57	33.20	IFO	M		fp	eq								
33.20	39.80	IIO	F		im	eq								
39.80	43.75	IIP	F		pp	pp								
43.75	51.75	IIDP	M		pp	pp								
51.75	100.28	IIO	F		im	eq								
100.28	123.50	IIP	F		pp	pp								
123.50	125.38	IIO	F		im	eq								
125.38	134.85	IIP	F		pp	pp								
134.85	135.50	IIO	F		im	eq								
135.50	163.35	IIP	F		pp	pp								

163.35	172.95	IIO	F	im	eq
172.95	190.85	IIP	F	pp	pp
190.85	205.80	IIO	F	im	eq
205.80	244.80	IIP	F	pp	pp
244.80	247.25	IIO	F	im	eq
247.25	281.63	IIP	F	pp	pp
281.63	282.30	IIO	F	im	eq
282.30	365.46	IIP	F	pp	pp

Lithology

Logged by: Gemma_Cryan

From	To m	Description
0.00	12.54	
12.54	26.95	equigranular intermediate intrusive, with variable high levels of chloritisation and clay alteration
26.95	27.78	medium grained intrusive with an increase in feldspar material from the previous unit
27.78	29.57	equigranular intermediate intrusive, strong chloritisation alteration
29.57	33.20	medium grained intrusive with an increase in feldspar material from the previous unit
33.20	39.80	equigranular intermediate intrusive, strong localised chloritisation, heamatitic and clay alteration
39.80	43.75	Feldspar phenocrysts in a fine grained intermediate intrusive
43.75	51.75	medium grained diorite with subrounded feldspar phenocrysts and angular k-feldspar phenocrysts . The relatively unaltered state would suggest a late stage intrusive
51.75	100.28	equigranular intermediate intrusive, locally altered with epidote and k-spar veining. Unit is weakly magnetic incresing in magnetism down hole.
100.28	123.50	Feldspar phenocrysts in a fine grained intermediate intrusive altered by epidote and k-spar with minor haematite
123.50	125.38	equigranular intermediate intrusive, locally altered with epidote and k-spar veining. Unit is magnetic
125.38	134.85	Feldspar phenocrysts in a fine grained intermediate intrusive altered by epidote and k-spar
134.85	135.50	equigranular intermediate intrusive, alterted by epidote and k-spar at various localised zones. Unit is magnetic
135.50	163.35	Feldspar phenocrysts in a fine grained intermediate intrusive; various alteration zones.
163.35	172.95	equigranular intermediate intrusive, various localised alteration zones. Unit is magnetic
172.95	190.85	Feldspar phenocrysts in a fine grained intermediate intrusive; various alteration zones.
190.85	205.80	equigranular intermediate intrusive, various localised alteration zones. Unit is locally magnetic
205.80	244.80	Feldspar phenocrysts in a fine grained intermediate intrusive; various alteration zones.
244.80	247.25	equigranular intermediate intrusive. Unit is weakly magnetic
247.25	281.63	Feldspar phenocrysts in a fine grained intermediate intrusive;weak epidote alteration.
281.63	282.30	equigranular intermediate intrusive. Unit is weakly magnetic
282.30	365.46	Feldspar phenocrysts in a fine grained intermediate intrusive;weak epidote alteration with local zones of clay, k-spar and haematite alteration also.

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
12.54	26.95	STG	CH	pv	STG	HM	ff	WK				Strong chlorite alteration has obliterated original lithology. Alteration alters slightly at the bottom 30cm of the unit with possible influence from the underlying alteration zone.
26.95	27.78	INT	CY	pv	INT	KF	pv	MOD				Potassic alteration is followed by intense clay alteration
27.78	29.57	INT	CY	pv	INT	CH	pv	INT	HM	ff	WK	Strong pervasive chloritisation was followed by intense clay alteration
29.57	33.20	STG	CY	pv	STG	KF	pv	MOD				Potassic alteration is followed by clay alteration which is slightly weaker than in the overlying unit
33.20	36.46	STG	CY	pv	STG	CH	pv	STG	HM	fsel	WK	Choritisation is followed by moderate clay alteration , with haematite seen on current fracture surfaces and as fracture selvage
36.46	38.38	INT	HM	pv	INT	CH		STG				influenced by a fault zone with gouge and breccia present. Haematite appears to be later than the chloritisation in the zone
38.38	39.86	STG	CY	pv	STG	KF	vsel	WK	CH	pv	WK	Zone is highly fractured, dominated by clay alteration with weak vein related k-feldspar, haematite and trace chloritisation present
39.86	43.75	STG	CH	pv	STG	KF	vsel	WK	HM	vsel	WK	Zone of chloritisation with weak vein related k-feldspar and haematite present
43.75	51.75	MOD	CY	pv	MOD							Plagioclase phenocrysts have been clay altered, matrix has also undergone some clay alteration and is very soft.
51.75	111.72	MOD	EZ	fsel	MOD	KF	fsel	MOD	HM	ff	WK	Epidotisation is seen in patches related to fracturing and often in association with k-spar fracture selvage alteration. Haematite is seen on open fracture surfaces
111.72	112.64	MOD	EZ	pv	MOD							Increase in epidote relative to overlying unit
112.64	117.99	MOD	EZ	fsel	MOD	KF	fsel	MOD	HM	ff	WK	Epidotisation is seen in patches related to fracturing and often in association with k-spar fracture selvage alteration. Haematite is seen on open fracture surfaces
117.99	119.15	MOD	CY	pv	MOD	CH	rep	WK	KF		WK	unit is clay altered with trace k-spar alteration at the start of the unit. Plagioclase phenocrysts have been altered to chloirte in localised areas
119.15	120.30	MOD	EZ	pat	MOD	HM	pv	MOD	CH	rep	WK	Unit displays alternative haematite and epidote alteration with plagioclase phenocrysts replaced by chlorite
120.30	143.80	WK	EZ	pv	WK							Weak to moderate epidote alteration
143.80	147.20	MOD	BZ	rep	MOD	KF	pat	WK	CH	pat	WK	Unit displays varying localised alteration zones of various hardness and colouration. Ubiquitous to the unit appears to be secondary biotite. K-spar alteration and chloitization are seen in localised areas.
147.20	155.50	MOD	CH	rep	MOD	CY	rep	MOD	KF	vsel	WK	unit displays a pale grey mottled appearance with black (chlorite?) replacement of hornblend-gone to biotite. Plagioclase phenocrysts have been replaced with clays and K-spar alteration is seen in association with k-spar veining
155.50	163.30	MOD	CH	pv	WK	HM	vsel	WK	KF	vsel	WK	unit is a continuation of the previous but with less chlorite replacement and the introduction of haematite vein selvages
163.30	172.90	WK	EZ	pat	WK	KF	blb	TR				While epidote is found in only small patches in this unit it does have sulphides associated with it.
172.90	176.15	MOD	CH	pv	WK	HM	vsel	WK	KF	vsel	WK	Unit shows localised zones of stronger clay alteration of the groundmass. Plagioclase alteration to clays appears ubquitous
176.15	183.35	WK	EZ	pv	WK							
183.35	190.40	MOD	CY	rep	MOD	HM	fsel	MOD	KF	pat	TR	Unit shows potassic alteration at the top with a decreases down hole. Haematite fracture related alteration is localised and clay replacement of the plagioclase phenocrysts is ubiquitous. Trace k-spar alteration and haematite vein selvage alteration also occuring.
190.40	200.25	MOD	CY	pv	MOD	CH	pat	WK	KF	pat	TR	Unit is pale in appearance with clay alteration dominanting. Chlorite is present in patches with some vein selvage and replacement also occuring. Localised trace k-sapr alteration is also evident.

200.25	203.42	MOD	CH	rep	MOD	CY	rep	MOD	MT	pv	WK	unit displays a pale grey mottled appearance with black (chlorite?) replacement of hornblend-gone to biotite. Plagioclase phenocrysts have been replaced with clays and are extremely soft
203.42	207.60	WK	EZ	fsel	WK	CH	rep	WK				Unit displays epidote alteration the majority of which is fracture selvage but also appears in patches and as vein selvage. Unit may also have some chlorite alteration of the groundmass and is magnetic.
207.60	208.93	MOD	CH	rep	MOD	CY	rep	MOD	MT	pv	WK	unit displays a pale grey mottled appearance with black (chlorite?) replacement of hornblend-gone to biotite. Plagioclase phenocrysts have been replaced with clays and are extremely soft
208.93	225.15	WK	EZ	fsel	WK	CH	rep	WK	KF	pv	TR	Unit displays epidote alteration in patches and as vein selvage. Localised zones of k-spar alteration are present. Unit may also have some chlorite alteration of the groundmass and is magnetic.
225.15	226.85	MOD	KF	pv	MOD	CY	rep	WK				Unit displays an overall pink hue with k-spar alteration dominating. Some plagioclase phenocrysts show clay alteration
226.85	229.25	WK	EZ	fsel	WK	CH	rep	WK				Unit displays epidote alteration in patches and as vein selvage. Unit may also have some chlorite alteration of the groundmass and is magnetic.
229.25	232.12	MOD	CY	rep	WK	KF	pv	WK	CH	rep	WK	Unit has a slight pink hue due to k-spar alteration. Plagioclase phenocrysts have been partialy altered to clays and mafic material appears to have gone to chlorite.
232.12	253.30	WK	EZ	fsel	WK	CH	rep	WK				Unit displays varying epidote alteration in patches and as vein selvage. Unit may also have some chlorite alteration of the groundmass and is magnetic.
253.30	254.59	WK	KF	pv	WK	MT	rep	WK	HM	vein	TR	Potassic alteration occurs with patches of k-spar visible. Epidote alteration is absent from this unit.Unit is magnetic and shows minor haematite veins also
254.59	267.25	WK	EZ	fsel	WK	CH	rep	WK				Unit displays varying epidote alteration in patches and as vein selvage. Unit may also have some chlorite alteration of the groundmass and is magnetic.
267.25	268.45	WK	KF	pv	MOD	CH	pv	MOD				Potassic alteration occurs with patches of k-spar visible. Epidote alteration is absent from this unit but chlorite is common in vein selvage and as replacement
268.45	289.80	WK	EZ	fsel	WK	CH	rep	WK				Unit displays varying epidote alteration in patches and as vein selvage. Unit may also have some chlorite alteration of the groundmass and is locally magnetic.
289.80	301.70	WK	EZ	fsel	WK	KF	pat	WK				Unit is similar to the overlying alteration zone but with discrete local patches of k-spar alteration.
301.70	303.75	WK	EZ	fsel	WK	CH	rep	WK				Unit displays varying epidote alteration in patches and as vein selvage. Unit may also have some chlorite alteration of the groundmass and is locally magnetic.
303.75	305.95	MOD	CY	pv	MOD	CH	pat	MOD	KF	rep	WK	Unit dispalys a gradational alteration from a more chlorite rich area into a clay altered area and back to chlorite. Patchs of k-spar alteration are found in association with the clay altered area and some haematite veining is also present.
305.95	326.30	WK	EZ	vsel	WK	CH	rep	WK				Unit displays varying epidote alteration in patches and as vein selvage. Unit may also have some chlorite alteration of the groundmass and is locally magnetic.
326.30	334.85	WK	CH	pv	WK	EZ	vsel	TR	KF	vein	TR	Unit shows a sharp decrease in the epidote alteration seen in the previous unit. Chlorite alteration dominates with the unit relativley soft. K-spar is present in veins in trace amounts.
334.85	341.60	WK	EZ	vsel	WK	CH	rep	WK	KF	vein	TR	Unit displays varying epidote alteration in patches and as vein selvage. K-spar appears in veins in trace amounts. Unit may also have some chlorite alteration of the groundmass and is locally magnetic.
341.60	344.40	MOD	CH	pv	MOD	KF	vsel	TR	MT	vsel	TR	Unit displays chlorite altertion in varing degrees with minor k-spar and magnetite veining.
344.40	354.15	WK	EZ	vsel	WK	CH	pv	WK	KF	rep	TR	Unit is charcaterised by epidote vein selvage alteration. K-spar replacement of plagioclae phenocrysts is present in trace amounts and the groundmass may host chorite alteration.
354.15	355.64	STG	KF	pv	STG	CH	vsel	TR	CY	rep	WK	K-spar alteration dominated the unit with a few chlorite veins and some replacement of plagioclase phenocrysts to clays.

355.64	361.57	WK	EZ	vsel	TR	KF	pat	TR	CH	pv	WK	Unit shows patchs of weak-trace k-spar replacement of plagioclase phenocrysts. Epidote is present in vein selvages and the groundmass displays weak chlorite alteration
361.57	362.45	WK	KF	pv	WK	CY	pv	TR	HM	fsel	TR	
362.45	365.46	WK	EZ	vsel	WK	KF	rep	TR				Unit has numerous irregular epidote veins with epidote vein selvage alteration. K-spar replaces plagioclase phenocrysts in local patches

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
12.54	29.57		ZVC	IRR	3	0.5		ZVO	IRR	3	0.1							Irregular carbonate veins dominate the zone with trace magnetite veining (haematite association).
29.57	33.25		ZVC	IRR	4	0.1		ZVO	IRR	4	0.1							Irregular carbonate veins are dominant in the zone with trace irregular chlorite veining.
33.25	38.38		ZVO	FTV	15	0.3	50	ZVC	FRV	15	0.3							Haematite veins related to faulting dominate the zone with earlier trace carbonate veining also present
38.38	42.31		ZVC	IRR	2	0.2		ZVO	FRV	2	0.1	42	ZVO	IRR	2	0.1		Carbonate veins are often rimmed by haematite while irregular haematite only veins are also present as are K-spar veins (alpha angle 42)
42.31	53.20		ZVO	IRR	2	0.2		ZVQ	FRV	2	1.5	32						Feldspar veining dominates with trace quartz veins also present
53.20	57.44		ZVC	IRR	8	0.3		ZVQC	IRR	8	0.2							Carbonate and quartz-carbonate veins network this unit with trace haematite (also found on open fracture surfaces) rimming some of the older veins
57.44	75.60		ZVO	IRR	10	0.5		ZVC	FRV	10	1	38	ZVO	IRR	4	0.2		Epidote veining dominates this unit mostly related to fracturing as is the k-spar veining present. Fracture related carbonate (some with haematite, some pink carbonate) are present also.
75.60	99.31		ZVC	FRV	1	0.1		ZVO	IRR	1	0.05							Carbonate veins dominate this unit with trace epidote veining still present. Veins are often assoicated with vein selvage sulphides
99.31	102.00		ZVQC	FRV	1	1	50	ZVO	IRR	1	0.1							Irregular epidote veins are still present in this unit with an introduction of late stage quartz-carbonate veins distinguishing the unit.
102.00	108.75		ZVC	HLN	0.5	0.05				0.5								Iregular hairline carbonate veining is present throughout the unit
108.75	114.10		ZVC	FRV	0.5	0.5		ZVC	HLN	0.5	0.1							Larger carbonate veining, some with haematite rimming are found in this unit along with irregular hairline carbonate veins
114.10	144.45		ZVC	HLN	0.5	0.05		ZVQC	FRV	0.5	0.8		ZVC	IRR	0.1	0.2		Irregular hairline carbonate veins are ubiquitous with quartz-carbonate veins scatterd throughout the unit, some with sulphide association. Irregular carbonate veins are also present with some haematite rimming. Rare magnetite veins are also present with no regular orientation

144.45	160.30	ZVO	IRR	2	0.2		ZVQC	FRV	2	1		ZVO	IRR	0.4	0.1	Feldspar veins (some altered to soft clays) are present with irregular chlorite veins often with sulphide assoication and rare late stage quartz fracture veins
160.30	163.75	ZVQ	FRV	0.5	1.5				0.5							This unit is similar to the overlying unit but with an increase in the quartz veining.
163.75	172.90	ZVC	HLN	2	0.05		ZVO	IRR	2	0.1						Unit consists of hairline irregular carbonate veining and irregular epidote veining with some sulphide association
172.90	176.25	ZVO	IRR	0.5	0.2		ZVO	FRV	0.5	0.5						feldspar veining along with irregular haematite veining are present
176.25	183.60	ZVC	HLN	2	0.05		ZVO	IRR	2	0.1						Unit consists of hairline irregular carbonate veining and irregular epidote veining with some sulphide association
183.60	190.25	ZVO	FRV	1	0.5		ZVO	IRR	1	0.2		ZVO	IRR	0.5	0.2	Unit consists of irregualr haematite veining, chlorite veining and younger fracture related feldspar veining
190.25	203.50	ZVO	FRV	3	0.5	47	ZVQ	FRV	3	1	44					unit consists of multiple phases of fracture related feldspar and quartz veins
203.50	207.60	ZVC	HLN	2	0.05		ZVO	FTV	2	0.2		ZVO	IRR	1	0.1	Unit consists of numerous hairline carbonate fractures with late stage fault related epidote veining and irregular chlorite veins.
207.60	209.00	ZVO	FRV	15	5				15							Large felspar fracture related vein dominated this small unit
209.00	215.57	ZVC	HLN	2	0.05		ZVO	FTV	2	0.2		ZVO	IRR	1	0.1	Unit consists of numerous hairline carbonate fractures with later stage fault related epidote veining and irregular chlorite veins.
215.57	225.65	ZVC	HLN	1	0.05		ZVQ	FRV	1	0.4						Quartz fracture veins are present with earlier irregular hairline carbonate veining.
225.65	230.00	ZVO	IRR	0.5	0.05		ZVQ	FRV	0.5	0.2						Irregular haematite veins and rare quartz veins are present
230.00	232.10	ZVO	IRR	0.5	0.1		ZVO	IRR	0.5	0.05						Feldspar veins are present along with irregular chlorite veining
232.10	286.91	ZVC	HLN	2	0.05		ZVO	FTV	2	0.2		ZVO	IRR	1	0.1	Unit consists of numerous hairline carbonate fractures with later stage epidote veining and local irregular chlorite veins. Trace amounts of quartz carbonate fracture veins are also present
286.91	302.50	ZVO	IRR	3	0.2		ZVQC	IRR	3	0.5		ZVC	IRR	0.5	0.8	Unit consists of late stage epidote veining. Quartz-carbonate and carbonate (with heamatite staining) irregular veins are also present
302.50	306.00	ZVO	IRR	0.5	5		ZVC	IRR	0.5	1		ZVO	IRR	0.1	0.5	Unit is characterised by the presence of feldspar veins (altered to clay) and irregular haematite veining. Carbonate veins are still present.
306.00	316.30	ZVC	HLN	1	0.05		ZVO	IRR	1	0.4						Unit displays hairline carbonate veining and irregular later stage epidote veins.

316.30	325.20	ZVC	HLN	1	0.05	ZVO	IRR	1	0.4	ZVO			Same as above unit but with the introduction of irregular k-spar veins
325.20	338.55	ZVQ	FRV	1	0.5	ZVO	IRR	1	0.8				Quartz veins and older localised feldspar (some clay altered) veins are found in this unit. Sulphides are often associated.
338.55	354.15	ZVC	HLN	2	0.05	ZVC	IRR	2	0.2	ZVO	IRR	3	0.2 Unit displays both larger irregular and hairline carbonate veining with irregular later stage epidote veins.
354.15	355.64	ZVO	FRV	40	3			40					Feldspar veining related to fracturing.
355.64	365.46	ZVC	HLN	2	0.05	ZVC	IRR	2	0.2	ZVO	IRR	3	0.2 Unit displays both larger iregular and hairline carbonate veining with irregular later stage epidote veins.

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
12.54	42.00	Overall the unit is barren of sulphides; however, rare blebs of chalcopyrite are present at 26.40m, 38.5m and at 42.10m.	CCP	blb	0.01
42.00	43.80	Blebs of chalcopyrite scattered throughout the section	CCP	blb	0.05
43.80	51.75	Disseminated pyrite seen in this unit usually associated with mafic components.	PY	diss	0.1
62.25	75.25	Scattered vein related pyrite and chalcopyrite are present in association with epidote and carbonate veins. Blebs of chalcopyrite are also present usually in association with epidote also.	CCP	blb	0.05
			CCP	vein	0.05
			PY	vein	0.05
75.25	84.35	Pyrite is present on open fracture where haematite has coated the surface. It is also present in association with epidote veining/alteration, as are the rare blebs of chalcopyrite found in the unit.	PY	ff	0.1
			CCP	blb	0.05
			PY	vein	0.05
84.35	93.00	Sulphides are associated with epidote alteration and vein selvage and are disseminated throughout the unit. Some more heavily sulphidised patches are pyrite dominant while others are chalco dominant.	CCP	diss	0.4
			PY	diss	0.4
			PY	vsel	0.4
			CCP	vsel	0.2
			PY	blb	0.2
93.00	94.60	sulphides are found on the surface of open fractures with rare blebs of pyrite in the unit	PY	blb	0.01
			PY	ff	0.01
			CCP	ff	0.005
94.60	97.93	sulphides are still present on open fractures but are also found as blebs in association with epidote alteration.	CCP	blb	0.02
			PY	blb	0.02
			PY	ff	0.01
97.93	114.00	Rare pyrite is present on open fractures and blebs and in association with a few small carbonate veins	PY	vsel	0.005
			PY	blb	0.0025
			PY	ff	0.0025
114.00	135.25	Sulphides are rare in this unit but when seen present themselves in association with quartz-carbonate fracture veins.	CCP	vsel	0.025
			PY	vsel	0.025

135.25	164.75	Unit has minor blebs and some vein associated sulphides but is overall barren .	CCP	blb	0.001
164.75	173.00	Sulphides are associated with epidote alteration patches as well as vein selvage (quartz veins mostly) with some sulphide veins also.	CCP	pat	0.2
			PY	pat	0.2
			PY	vsel	0.15
			PY	vein	0.1
			CCP	ff	0.05
195.35	199.05	trace amounts of sulphides associated with quartz veins	PY	vsel	0.03
			CCP	vsel	0.02
209.20	215.76	blebs/patches of sulphides are found in association with epidote as well as elongated mafic rich patches	CCP	blb	0.2
			PY	blb	0.15
			PY	vein	0.1
			CCP	vein	0.05
215.76	239.70	pyrite is found in or haloing quartz veins in this unit.	PY	vein	0.1
239.70	252.10	sulphide minerals are found in association with epidote veins in this unit	CCP	vein	0.5
			PY	vein	0.15
252.10	257.05	blebs of sulphides are found often in association with epiodote alteration or altered mafics	CCP	blb	0.025
			PY	blb	0.025
257.05	260.00	Increase in suphides associated with epidote alteration patches and some hosted in minor veins also.	CCP	blb	0.2
			PY	blb	0.2
			CCP	vein	0.1
			PY	vein	0.1
260.00	266.45	major decrease in sulphides relative to the overlying unit with trace amounts found in association with minor (hairline) epidote veins	PY	vein	0.015
			CCP	vein	0.01
266.45	273.90	sulphides are found in or haloing quartz and quartz-carbonate veins in this unit.	CCP	vein	0.05
			PY	vein	0.05
273.90	297.50	sulphides are found in association with both epidote and carbonate veining in this unit.	PY	vein	0.04
			CCP	vein	0.02
297.50	339.00	While sulphides are still found in association with epidote and carbonate veining, in this unit they are also found in association with patches of epidote alteration (usually vein selvage) and also with quartz veining. A particulary pyrite rich quartz veins is present at 337m)	CCP	vein	0.3
			CCP	rep	0.2
			PY	vein	0.2
			PY	rep	0.05
341.56	348.50	Chalcopyrite is more abundant in this zone with suphides commonly found in association with epidote.	CCP	blb	0.5
			CCP	vsel	0.5
			PY	blb	0.5
352.90	359.80	Sulphides are found in association with quartz-carbonate, carbonate and epidote veining either within the vein or as vein selvage.	CCP	vein	0.5
			PY	vein	0.5
			CCP	fsel	0.25
			PY	fsel	0.25
359.80	365.46	Sulphides are absent from this unit with the one exception of a quartz-carboante vein at 365.23m which shows chalcopyrite 20% of vein) and pyrite within the vein or on the margins.	CCP	vein	0.01

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
12.54	24.00		ZRO	STG								Strong open fractures are present with fracture heeling also evident
24.00	24.25		ZFG	INT								Fault gouge
24.25	27.00		ZRO	STG								Multiple sets of open fractures are present along with heeled fracturing
27.00	29.57		ZFG	INT								Intense clay alteration in this zone may be due to a fault??
29.57	36.46		ZRO	STG								Multiple sets of open fractures are present along with heeled fracturing
36.46	38.38		ZFG	INT								Intensely faulted zone with the fault centered at 37m and fault breccia present below this
38.38	43.75		ZRO	STG								Multiple sets of healed fractures and open fractures present in this unit.
43.75	51.75		ZRO	MOD								Multiple sets of open fractures with minor veining present.
51.75	53.35		ZFG	STG								Fault zone with strong alteration on either side of the gouge.
53.35	57.25		ZRO	STG								Multiple sets of healed fractures and open fractures present in this unit.
57.25	62.00		ZFG	STG								Strong open fractures are present with fracture heeling also evident. Localiised fault gouge is present at several intervals in the unit (57.44m, 59.90m, 61.75m)
62.00	97.93		ZRO	STG								Multiple sets of healed fractures and open fractures present in this unit.
97.93	102.80		ZRO	MOD								Multiple sets of fractures are still present with less open fractures than the previous unit
102.80	105.70		ZRO	STG								Multiple sets of healed fractures and open fractures present in this unit.
105.70	112.05		ZRO	MOD								Multiple sets of fractures are still present with less open fractures than the previous unit
112.05	114.15		ZRO	STG								Multiple sets of healed fractures and open fractures present in this unit. Open fractuers dominating.
114.15	145.65		ZRO	WK								Heeled and open fractures are present but to a far lesser extent then previous units.
145.65	160.00		ZRO	MOD								Increase in veining related to heeled fractures and an increase in open fractures relative to the previous unit.
160.00	173.10		ZRO	WK								Open fractures are decreased relative to the previous unit
173.10	176.05		ZRO	MOD								Open fracturing and heeled fracture veining are present
176.05	181.85		ZRO	WK								Open fractures are present with few heeled fractures evident
181.85	186.93		ZRO	MOD								Open fracturing and heeled fracture veining are present
186.93	190.70		ZRO	STG								numerous open fracture sets, core is very broken up with older heeled fracture veining also evident
190.70	196.25		ZRO	WK								Less open fractures than the previous unit.
196.25	200.85		ZRO	STG								Numerous open fractures and multiple heeled fractures present
200.85	203.43		ZRO	MOD								Heeled fractures dominate with some open fractures also present
203.43	203.61		ZFG	INT								Fault gouge with limited extent of impact
203.61	205.00		ZRO	WK								Heeled fractures dominate with some open fractures also present
205.00	205.60		ZFG	INT								Fault gouge with limited extent of impact
205.60	216.20		ZRO	WK								Few open fractures and no evident heeled fracturing
216.20	221.24		ZRO	MOD								Core is shattered by multiple open fracturing but no heeled fractures are evident
221.24	224.35		ZRO	WK								Fewer open fractures than the previous unit and again no evidence of heeled fractures
224.35	226.20		ZRO	MOD								numerous open and heeled fractures are present
226.20	235.88		ZRO	WK								Both open fractures and heeled fracture veining are eveident in moderation.
235.88	244.30		ZRO	TR								Minor fracture veining is present along with open fracturing for a trace to weak structural zone.
244.30	246.60		ZRO	MOD								Open fracturing increases in this unit

246.60	301.45	ZRO	TR	Minor fracture veining is present along with open fracturing for a trace to weak structural zone.
301.45	307.26	ZRO	MOD	Heeled fractures are more previlant in this unit
307.26	329.00	ZRO	TR	Minor fracture veining is present along with open fracturing for a trace to weak structural zone.
329.00	334.92	ZRO	MOD	Heeled fractures are more previlant in this unit than in the previous with several phases apparent
334.92	341.78	ZRO	WK	Few open fractures and minor evidence of heeled fracturing
341.78	342.40	ZFX	STG	Rock appears brecciated but no fault gouge is evident
342.40	348.00	ZRO	TR	Few open fractures and no evident heeled fracturing
348.00	351.59	ZRO	WK	Increase in open fracturing
351.59	355.64	ZRO	STG	Open fractures are common and large fracture related veins are present
355.64	362.00	ZRO	WK	Open fractures and fracture related veins decrease dramatically relative to the previous unit.
362.00	362.40	ZRO	STG	Zone has a high percentage of open fractures
362.40	365.46	ZRO	WK	Open fractures and fracture related veins decreased dramatically relative to the previous unit with little evidence of heeled fractures.

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
131.09	ZVQC	0.4	38.0	210.0		40	44	High	Quartz-carbonate vein with pyrite crystals, part of a locallised set
132.83	ZVC	0.1	30.0	312.0		70	143	High	Carbonate vein withblack/purple staining
132.94	ZVE	0.2	32.0	62.0		66	241	High	Epidote vein
134.52	ZVQC	1	44.0	218.0		35	56	High	Quartz-carbonate vein with pyrite crystals
135.85	ZVC	0.4	33.0	208.0		44	40	High	Carbonate vein with sulphide association both within the carbonate and haloing it. One of a localised set
137.02	ZRO	0.001	52.0	98.0		38	265	High	One of a localised set of open fractures.
139.24	ZVC	2.5	46.0	237.0		38	79	High	Carbonate vein with pyrite associated both within the vein and haloing it. One a localised set.
152.55	ZVO	0.2	12.0	50.0		88	235	High	Chlorite vein
154.05	ZVO	0.05	89.0	17.0		16	188	High	one of a set of localised chlorite veins
154.25	ZVS	0.05	79.0	102.0		16	228	High	Sulphide vein, chalco dominant
163.39	ZVS	0.05	70.0	63.0		30	225	High	Sulphide vein, chalco dominant
163.58	ZVQ	1	25.0	338.0		79	166	High	one of a local set of quartz veins
165.35	ZRO	0.001	42.0	75.0		53	251	High	One of a localised set of open fractures.
165.68	ZVC	0.1	49.0	242.0		36	86	High	one of a set of localised carbonate veins
165.75	ZVQ	0.3	46.0	248.0		40	91	High	one of a set of localised quartz veins with sulphide association.
167.58	ZVE	0.05	56.0	308.0		44	148	High	one of a set of localised epidote veins
168.44	ZVQ	1	37.0	244.0		48	82	High	one of a local set of quartz veins
169.67	ZVF	0.2	39.0	236.0		44	75	High	Feldspar vein, part of a similarly oriented set.
171.63	ZRO	0.001	64.0	250.0		25	108	High	Fracture set.
171.85	ZVE	0.5	56.0	227.0		26	76	High	Late vein.
172.15	ZVE	0.1	57.0	40.0		45	217	High	Epidote vein with sulphides
191.88	ZVF	0.75	30.0	345.0		74	174	High	One of a set of local feldspar veins.
192.93	ZVQ	1	56.0	64.0		42	236	High	

194.19	ZVF	0.6	25.0	329.0	78	159	High	One of a set of local feldspar veins.
210.19	ZVE	0.1	60.0	52.0	40	225	High	One of a set of local epidote veins.
210.23	ZVE	0.1	63.0	208.0	16	60	High	Epidote vein with sulphide associated
210.37	ZRO	0.001	26.0	230.0	55	64	High	Open fracture with quartz-feldspar veining and associated sulphides
211.38	ZVE	0.1	71.0	354.0	33	184	High	epidote vein with sulphide associated
213.54	ZVQ	1	56.0	43.0	45	220	High	quartz vein with sulphides
213.96	ZVE	0.1	47.0	11.0	57	197	High	One of a set of local epidote veins.
238.89	ZVC	0.2	34.0	312.0	66	146	High	One of a set of local feldspar veins.
239.07	ZRO	0.001	44.0	208.0	34	45	High	one of a set of localised fractures
239.16	ZVE	0.1	71.0	250.0	19	120	High	One of a set of local epidote veins.
239.82	ZRO	0.001	43.0	43.0	58	224	High	one of a set of localised fractures
242.35	ZVC	0.05	85.0	262.0	15	168	High	One of a set of hairline carbonate veins in the area
242.77	ZVE	0.2	29.0	267.0	61	103	High	Epidote vein with sulphides associated
242.98	ZRO	0.001	26.0	68.0	70	250	High	one of a set of localised fractures
247.03	ZVC	0.8	41.0	332.0	62	164	High	Large carbonate vein
247.57	ZVE	0.2	51.0	261.0	39	107	High	Epidote vein with sulphides associated
248.84	ZRO	0.001	56.0	70.0	41	241	High	One of a set of localised fractures
250.51	ZVE	0.3	39.0	283.0	56	121	High	One of set of localised epidote veins
252.24	ZVC	1.5	54.0	291.0	43	134	High	Larger carbonate vein
253.08	ZVQ	1	28.0	222.0	52	57	High	quartz vein on an open fracture
275.85	ZVC	3	34.0	298.0	64	134	High	Large carbonate vein, one of several with similar orientation in the area
280.05	ZVE	0.1	61.0	94.0	31	258	High	One of set of localised epidote veins
280.75	ZVE	0.1	56.0	90.0	37	259	High	One of set of localised epidote veins
290.52	ZVC	0.1	63.0	37.0	39	215	High	One of a local set of parallel carbonate veins
290.57	ZVE	0.2	74.0	38.0	29	210	High	One of a local set of parallel epidote veins
293.58	ZVF	0.4	21.0	238.0	62	74	High	Feldsapr vein with sulphide associated
295.41	ZVE	0.5	27.0	122.0	56	305	High	One of a local set of parallel epidote veins
295.68	ZRO	0.001	26.0	251.0	60	88	High	Quartz vein on an open fracture. One of a localised set of fractures
296.10	ZRO	0.001	24.0	243.0	60	80	High	One of a set of localised open parallel fractures
297.32	ZVC	1	24.0	328.0	78	161	High	One of a local set of parallel carbonate veins
298.45	ZVO	0.8	31.0	281.0	63	119	High	Chlorite vein with sulphides
301.15	ZVE	0.3	34.0	296.0	63	134	High	One of a local set of parallel epidote veins
303.10	ZVQC	1	39.0	222.0	41	63	High	One of a set of local parallel quartz-carbonate veins with sulphides associated
303.61	ZVQC	1	36.0	208.0	42	45	High	One of a set of local parallel quartz-carbonate veins with sulphides associated
303.96	ZVQC	1.5	34.0	190.0	42	23	High	One of a set of local parallel quartz-carbonate veins with sulphides associated
305.63	ZRO	0.001	29.0	264.0	61	103	High	One of a set of localised open parallel fractures
308.28	ZVQC	1	27.0	223.0	53	60	High	One of a set of local parallel quartz-carbonate veins with sulphides associated
308.42	ZRO	0.001	28.0	220.0	52	57	High	One of a set of localised open parallel fractures
310.38	ZVE	0.2	15.0	47.0	85	236	High	Epidote vein with sulphide associated
312.17	ZVE	4	37.0	261.0	52	103	High	Epidote alteration zone with sulphide associated
314.25	ZVE	0.8	77.0	87.0	20	233	High	One of a local set of parallel epidote veins
315.18	ZVE	0.3	34.0	83.0	59	266	High	One of a local set of parallel epidote veins

316.25	ZRO	0.001	36.0	246.0	49	88	High	One of a set of localised open parallel fractures
317.20	ZVF	0.5	45.0	300.0	53	142	High	One of alocal set of parallel feldspar veins
319.17	ZRO	0.001	29.0	226.0	52	65	High	One of a set of localised open parallel fractures
322.75	ZVQ	0.7	21.0	43.0	80	232	High	Quartz vein on an open fracture. One of a localised set of fractures
325.00	ZVC	0.2	27.0	274.0	65	113	High	Carbonate vein with k-spar and sulphides
325.79	ZVE	0.1	36.0	239.0	48	82	High	One of a localised set of epidote veins, some with sulphides associated.

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
3.35	6.00	410436	CORE_HALF	1141.66	202	15.32	4.13	54.3	34.9	0.759	4100	-0.005	0.3	0.48	0.13
6.00	8.00	410437	CORE_HALF	1353.43	88.8	21.72	4.41	56.1	18.3	0.971	5800	-0.005	0.99	0.42	0.16
8.00	13.00	410438	CORE_HALF	1786.66	127.6	32.85	5.1	53.3	7.1	1.101	4700	-0.005	0.84	0.39	0.18
13.00	15.00	410439	CORE_HALF	3037.46	121	10.58	4.61	102.5	7.6	2.132	4200	0.011	0.71	0.76	0.46
15.00	17.00	410441	CORE_HALF	553.74	75.6	2.67	2.3	66.3	6.7	0.357	3900	-0.005	0.31	0.59	0.04
17.00	19.00	410442	CORE_HALF	636.05	58.3	28.44	2.74	81.6	6.1	0.534	4500	-0.005	0.12	0.84	0.06
19.00	21.00	410443	CORE_HALF	134.47	23.4	0.39	2.4	75.1	6.5	0.173	4900	0.006	0.08	0.89	0.01
21.00	23.00	410444	CORE_HALF	823.36	51.7	16.56	4.3	105.5	6.5	0.525	4900	0.008	1.45	0.84	0.09
23.00	25.00	410445	CORE_HALF	1394.6	126	19.22	3.44	110.6	8.2	1.289	3000	-0.005	0.46	0.61	0.14
25.00	27.00	410446	CORE_HALF	1563.6	172.9	6.11	4.49	117.7	12.2	1.284	4100	0.005	0.42	0.34	0.12
27.00	29.00	410447	CORE_HALF	2059.47	230.6	7.45	7.61	85.9	139.8	2.002	3300	0.026	0.6	1.47	0.2
29.00	31.00	410448	CORE_HALF	3789.61	1093.4	13.29	12.49	57.8	27.6	4.122	3000	0.012	1.49	1.85	0.42
31.00	33.00	410449	CORE_HALF	2669.63	386.1	21.47	12.71	43.9	24.8	1.935	2600	0.01	0.26	1.5	0.3
33.00	35.00	410450	CORE_HALF	845.09	118	5.98	7.4	79.2	14.7	0.569	3400	0.007	0.25	0.3	0.07
35.00	37.00	410451	CORE_HALF	537.16	72.3	2.88	11.02	95.3	16.2	0.447	4200	-0.005	0.17	0.58	0.05
37.00	39.00	410452	CORE_HALF	903.83	44.6	7.83	6.05	93.9	74	0.755	1900	0.029	0.36	2.92	0.14
39.00	41.00	410453	CORE_HALF	1827.93	85.9	50.06	6.82	108.7	204.5	2.139	5800	0.036	0.46	6.57	0.17
41.00	43.00	410454	CORE_HALF	3306.17	122.7	41.38	7.29	115.7	280.6	2.202	8100	0.039	1.24	7.08	0.37
43.00	44.00	410455	CORE_HALF	3610.07	176.3	300.95	11.84	95.4	395.5	2.528	8200	0.103	0.67	10.4	0.66
44.00	46.00	410456	CORE_HALF	218.34	9.4	5.14	4.63	49	30.8	0.185	6200	0.025	0.48	1.78	0.23
46.00	48.00	410457	CORE_HALF	82.66	5.5	9.02	4.33	32.1	32.3	0.143	5100	0.023	0.51	1.1	0.32
48.00	50.00	410458	CORE_HALF	17.25	11.6	3.56	4.98	35.1	26.8	0.037	4800	0.012	0.34	0.78	0.2
50.00	52.00	410459	CORE_HALF	476.33	21	7.31	3.5	41.9	23.6	0.329	6900	-0.005	0.38	0.78	0.21
52.00	54.00	410461	CORE_HALF	3828.67	152.3	178.08	6.17	90.6	106.2	2.595	12800	0.014	0.49	1.55	0.4
54.00	56.00	410462	CORE_HALF	1819.93	77.7	11.26	4.28	94.9	38	1.282	15600	0.012	0.77	1.11	0.24
56.00	58.00	410463	CORE_HALF	1862.17	101.2	48.22	3.78	85.5	16.2	1.313	11100	0.006	0.28	0.4	0.27
58.00	60.00	410464	CORE_HALF	259.17	27.2	19.72	3.74	76.1	12.1	0.317	7400	-0.005	0.16	0.48	0.05
60.00	62.00	410465	CORE_HALF	747.22	40.7	26.92	60.71	79.9	16.2	0.658	10100	-0.005	0.23	0.42	0.19

62.00	63.00	410466	CORE_HALF	1242.21	238.1	55.43	8.15	86.4	10.2	1.005	9200	-0.005	0.25	0.35	0.13
63.00	65.00	410467	CORE_HALF	1106.4	40	46.02	3.05	66.2	12.4	0.851	6800	-0.005	0.2	0.61	0.24
65.00	67.00	410468	CORE_HALF	897.8	37.6	10.98	3.18	77.8	11.3	0.8	9700	-0.005	0.3	0.43	0.32
67.00	69.00	410469	CORE_HALF	633.6	26.7	29.46	3.35	68.6	14	0.7	9500	-0.005	0.25	0.65	0.15
69.00	71.00	410470	CORE_HALF	399.24	15.6	38.49	2.53	63.7	13.2	0.382	12300	0.009	0.25	0.76	0.12
71.00	73.00	410471	CORE_HALF	1549.09	69.4	47.39	3.21	74.5	13.1	1.335	8300	-0.005	0.5	0.56	0.16
73.00	75.00	410472	CORE_HALF	1941.38	73.2	63.94	3.68	79.2	14.6	1.486	10200	-0.005	0.65	0.83	0.26
75.00	77.00	410473	CORE_HALF	2180.99	91.5	28.87	2.9	86	12.7	1.698	19800	-0.005	0.44	0.35	0.28
77.00	79.00	410474	CORE_HALF	1905.79	74.6	34.4	4.02	82.6	10.5	1.576	15800	-0.005	0.44	0.29	0.45
79.00	81.00	410475	CORE_HALF	1357.79	60.2	24.45	4.05	78.7	10.7	1.226	14800	-0.005	0.37	0.4	0.21
81.00	82.00	410476	CORE_HALF	2424.82	116.1	8.81	4.56	80.5	10.4	1.882	14600	-0.005	0.26	0.36	0.3
82.00	83.00	410477	CORE_HALF	3753.04	158.5	173.08	4.26	93.3	10	3.026	23100	-0.005	0.41	0.28	0.6
83.00	84.00	410478	CORE_HALF	3772.11	163.2	20.22	4.02	93.8	10.5	3.134	24500	-0.005	0.35	0.26	0.51
84.00	85.00	410479	CORE_HALF	5533.96	222.4	53.28	3.37	104.5	10.1	4.603	22700	0.008	0.57	0.22	1
85.00	86.00	410481	CORE_HALF	7108.44	329.8	84.68	3.69	107.5	8.9	6.762	10200	0.016	0.72	0.36	1.25
86.00	88.00	410482	CORE_HALF	2642.57	116.2	62.01	3.02	87.5	9.3	2.658	8900	0.007	0.56	0.49	0.6
88.00	90.00	410483	CORE_HALF	2323.41	101.8	16.96	4.77	73	12.4	1.905	10100	0.012	0.45	0.67	0.32
90.00	92.00	410484	CORE_HALF	1323.11	54.4	13.54	2.63	69.1	15.8	1.021	6200	-0.005	0.28	0.8	0.19
92.00	93.00	410485	CORE_HALF	1670.07	79.5	3.24	3.24	72.6	11.7	1.41	7900	-0.005	0.15	0.58	0.16
93.00	95.00	410486	CORE_HALF	1211.47	44.8	9.7	5.08	87.2	11.3	0.992	11100	-0.005	0.29	0.54	0.3
95.00	97.00	410487	CORE_HALF	608.96	24.7	6.36	2.5	104.7	11.5	0.544	6800	-0.005	0.16	0.42	0.09
97.00	99.00	410488	CORE_HALF	905.14	33.1	3.81	3.23	92.9	12.5	0.793	15900	-0.005	0.27	0.36	0.2
99.00	100.00	410489	CORE_HALF	856.82	30	11.49	2.94	88.9	11.6	0.741	22200	-0.005	0.68	0.11	0.23
100.00	102.00	410490	CORE_HALF	206.06	11.1	5.84	94.38	43.4	8.3	0.313	7900	0.006	0.65	0.47	0.17
102.00	104.00	410491	CORE_HALF	58.71	10.8	2.3	10.22	39.2	10.9	0.081	4700	-0.005	0.13	0.63	0.04
104.00	106.00	410492	CORE_HALF	136.13	556.4	1.66	95.24	36.9	10.5	0.795	3400	0.008	0.34	0.57	0.05
106.00	108.00	410493	CORE_HALF	63.3	0.5	1.73	4.36	41.8	10.1	0.103	4900	0.008	0.05	0.6	0.01
108.00	110.00	410494	CORE_HALF	38.6	7.1	2.88	3.61	35.5	11.4	0.072	3200	-0.005	0.05	0.55	-0.02
110.00	112.00	410495	CORE_HALF	155.12	5.7	6.33	5.31	42.1	10.1	0.148	4400	-0.005	0.16	0.7	0.03
112.00	114.00	410496	CORE_HALF	2489.94	118.9	26.76	7.42	69.6	13.4	1.973	8100	-0.005	0.26	0.66	0.32
114.00	116.00	410497	CORE_HALF	938.65	46.6	26.58	6.23	81.4	15	0.822	12000	-0.005	0.67	0.39	0.26
116.00	118.00	410498	CORE_HALF	236.53	10.6	2.78	4.05	45.7	9.1	0.239	2400	-0.005	0.08	0.47	0.04
118.00	120.00	410499	CORE_HALF	188.32	7.6	4.88	4.41	50.8	46.1	0.143	6300	-0.005	0.12	2.02	0.04
120.00	122.00	411001	CORE_HALF	80.37	2.7	9.05	3.98	47.4	14.1	0.099	6300	-0.005	0.06	1.07	0.01
122.00	124.00	411002	CORE_HALF	501.65	16.5	10.96	2.62	58.3	14.2	0.399	14400	-0.005	0.33	0.52	0.15
124.00	126.00	411003	CORE_HALF	322.07	20.9	4.57	2.44	84	16.2	0.439	11000	-0.005	0.18	0.41	0.17

126.00	128.00	411004	CORE_HALF	255.65	7.8	1.75	2.06	61.5	10.7	0.225	9800	-0.005	0.06	0.52	0.1
128.00	130.00	411005	CORE_HALF	285.83	8.8	9.49	3.09	56.7	13.4	0.214	8800	-0.005	0.3	0.52	0.25
130.00	132.00	411006	CORE_HALF	870.21	26.1	35.2	2.34	76.2	17.6	0.469	10100	-0.005	0.11	0.45	0.31
132.00	134.00	411007	CORE_HALF	517.06	20.8	5.5	2.08	63.9	17.8	0.292	7300	-0.005	0.04	0.6	0.16
134.00	136.00	411008	CORE_HALF	766.75	37.6	7.31	3.12	83.3	16	0.476	16900	-0.005	0.31	0.33	0.31
136.00	138.00	411009	CORE_HALF	876.85	46	9.46	4.1	87.1	14.5	0.639	16700	-0.005	0.5	0.29	0.56
138.00	140.00	411010	CORE_HALF	189.86	16.4	3.36	3.63	54.6	9.7	0.164	7800	-0.005	0.45	0.32	0.15
140.00	142.00	411011	CORE_HALF	81.88	74.4	2.42	3.14	61	9.4	0.172	5600	-0.005	0.12	0.41	0.04
142.00	144.00	411012	CORE_HALF	28.63	38.1	2.03	3.85	58.7	9.8	0.123	6500	-0.005	0.08	0.51	0.01
144.00	146.00	411013	CORE_HALF	87.55	3.6	3.08	4.47	47.4	9.2	0.09	6400	-0.005	0.41	0.98	0.1
146.00	148.00	411014	CORE_HALF	80.62	9.4	2.09	4.09	47.7	9	0.093	8000	-0.005	0.22	1.06	0.06
148.00	150.00	411015	CORE_HALF	55.99	6.6	2.65	4.38	60.9	12.5	0.074	6600	-0.005	0.15	3.18	0.04
150.00	152.00	411016	CORE_HALF	45.54	17.7	2.36	4.23	59.4	16.5	0.065	5200	0.007	0.33	2.62	0.15
152.00	154.00	411017	CORE_HALF	84.92	17.3	45.4	3.49	46.7	16	0.148	4500	0.008	0.42	2.11	0.28
154.00	156.00	411018	CORE_HALF	665.79	17	36.43	4.66	55.5	61.7	0.535	5200	0.011	0.46	9.66	0.16
156.00	158.00	411019	CORE_HALF	273.26	10.4	11.96	5.48	44.8	30.1	0.254	4100	0.005	0.08	2.27	0.03
158.00	160.00	411021	CORE_HALF	102.6	5.3	9.15	4.9	49	12.4	0.105	3600	-0.005	0.14	1.2	0.06
160.00	162.00	411022	CORE_HALF	51.62	15.1	3.12	2.98	42.8	13.2	0.081	3800	-0.005	0.34	0.76	0.13
162.00	164.00	411023	CORE_HALF	475.59	23.7	5.35	2.89	52	20.3	0.426	5000	-0.005	0.1	0.91	0.08
164.00	166.00	411024	CORE_HALF	506.6	29.4	6.25	4.51	74.3	12.5	0.479	9500	-0.005	0.36	0.33	0.13
166.00	168.00	411025	CORE_HALF	1332.71	49.7	93.32	1.65	63.6	12.4	1.163	5500	0.005	0.17	0.39	0.16
168.00	170.00	411026	CORE_HALF	2807.74	87.9	177.15	5.51	82.6	13	2.792	9500	0.008	0.46	0.58	0.43
170.00	172.00	411027	CORE_HALF	2668.71	86.3	52.13	3.85	71.2	14.2	2.445	10000	-0.005	0.8	0.63	0.72
172.00	173.00	411028	CORE_HALF	1454.01	50.8	19.28	2.41	59.5	14.3	1.284	9800	-0.005	0.34	0.43	0.3
173.00	175.00	411029	CORE_HALF	63.03	5.3	2	2.59	50.6	10	0.074	6300	-0.005	0.1	0.4	0.05
175.00	177.00	411030	CORE_HALF	67.26	96.4	3.16	6.8	44.5	8.9	0.248	6300	-0.005	0.38	0.57	0.13
177.00	179.00	411031	CORE_HALF	100.75	4	2.89	3.47	42.7	8.2	0.123	4800	-0.005	0.12	0.58	0.03
179.00	181.00	411032	CORE_HALF	74.69	2.7	4.13	3.93	47.2	8.2	0.083	6300	-0.005	0.19	0.62	0.05
181.00	183.00	411033	CORE_HALF	87.39	3.7	2.79	3.78	42.6	7	0.093	6200	-0.005	0.31	0.52	0.08
183.00	185.00	411034	CORE_HALF	114.83	38.5	2.55	5.64	49	12.6	0.172	5700	0.006	0.16	1.55	0.07
185.00	187.00	411035	CORE_HALF	48.7	15.9	3	4.11	51.8	13.3	0.079	7100	-0.005	0.2	2.35	0.07
187.00	189.00	411036	CORE_HALF	79.37	6.2	3.64	4.23	48.3	12.6	0.071	4900	-0.005	0.1	1.38	0.03
189.00	191.00	411037	CORE_HALF	273.13	9.8	11.02	3.63	48.9	63.8	0.239	5300	0.008	0.15	2.55	0.04
191.00	193.00	411038	CORE_HALF	1024.16	40.3	24.22	2.85	65.2	99	0.638	7100	-0.005	0.37	1.1	0.1
193.00	195.00	411039	CORE_HALF	2142.32	47.1	52.98	3.25	55.9	221.9	1.071	6700	0.038	0.37	3.21	0.15
195.00	197.00	411041	CORE_HALF	2110.46	52.9	69.81	4.57	74.4	240.1	1.039	6700	0.007	0.25	8.47	0.21

197.00	199.00	411042	CORE_HALF	1867.35	56.1	105.74	3.86	67.5	119.4	1.014	9800	0.006	0.32	8.22	0.21
199.00	201.00	411043	CORE_HALF	1388.53	88.2	38.33	4.77	86.7	183.9	1.153	10200	0.011	1.49	10.43	0.6
201.00	203.00	411044	CORE_HALF	1251.72	72	5.21	4.41	100.9	103.3	1.175	9600	-0.005	0.32	4.03	0.13
203.00	205.00	411045	CORE_HALF	736.58	78.2	1.78	4.45	70.5	46	0.81	4600	-0.005	0.42	2	0.08
205.00	207.00	411046	CORE_HALF	783.98	134.3	5.54	3.98	54.1	12.5	0.633	1800	-0.005	0.54	1.22	0.06
207.00	209.00	411047	CORE_HALF	799.25	41.2	6.17	3.39	60.3	52.6	0.427	6100	0.005	0.28	1.96	0.09
209.00	210.00	411048	CORE_HALF	4994.72	210.2	117.72	3.75	93.6	30.3	2.852	6300	-0.005	0.29	0.84	0.64
210.00	212.00	411049	CORE_HALF	751.3	47.6	5.34	2.58	80.5	12.9	0.579	7500	-0.005	0.21	0.73	0.15
212.00	213.00	411050	CORE_HALF	1756.91	88.4	7.54	4.36	76.7	12.9	1.342	7500	0.005	0.47	0.74	0.22
213.00	214.00	411051	CORE_HALF	2876.9	134.2	18.65	6.68	70.9	11	2.108	11000	0.005	0.22	0.43	0.35
214.00	216.00	411052	CORE_HALF	270.36	59.7	3.8	2.95	51.9	9	0.278	8700	-0.005	0.58	0.53	0.17
216.00	218.00	411053	CORE_HALF	47.59	22.9	0.71	13.71	45.8	11.8	0.098	6200	-0.005	0.18	0.72	0.09
218.00	220.00	411054	CORE_HALF	48.99	77.4	6.95	5.23	38.3	10.7	0.161	2800	0.005	0.26	0.57	0.09
220.00	222.00	411055	CORE_HALF	28.6	62.9	2.24	13.43	88.6	10.3	0.263	3700	0.012	0.33	0.79	0.15
222.00	224.00	411056	CORE_HALF	61.38	52.7	1.88	9.28	55	9.6	0.224	2600	-0.005	0.16	0.71	0.02
224.00	226.00	411057	CORE_HALF	32.51	5.2	2.46	5.66	59.1	11.5	0.112	4600	-0.005	0.14	1.02	0.05
226.00	228.00	411058	CORE_HALF	41.25	22.1	4.29	6.53	55.1	10.4	0.143	2600	-0.005	0.1	0.83	0.05
228.00	230.00	411059	CORE_HALF	38.16	5.9	2.74	6.72	55.7	11.8	0.095	5700	-0.005	0.69	1.28	0.03
230.00	232.00	411061	CORE_HALF	9.13	3.6	3.11	4.64	65.3	11.4	0.068	3200	-0.005	0.1	1.1	0.04
232.00	234.00	411062	CORE_HALF	10.25	26.4	12.01	2.87	55.8	8.4	0.078	3100	-0.005	0.22	0.43	0.09
234.00	236.00	411063	CORE_HALF	14.99	19	2.69	2.68	61.7	7.5	0.072	3300	-0.005	0.34	0.39	0.1
236.00	238.00	411064	CORE_HALF	26.51	6.7	2.09	2.47	62.1	8.7	0.065	4700	-0.005	0.14	0.45	0.08
238.00	240.00	411065	CORE_HALF	1097.34	71.7	6.63	5.08	81.1	13.2	0.799	10000	-0.005	0.6	0.68	0.24
240.00	242.00	411066	CORE_HALF	1798.25	106.6	23.05	5.88	65.8	13.8	1.231	4900	-0.005	0.1	0.79	0.2
242.00	244.00	411067	CORE_HALF	2310.7	114.2	30.74	3.5	74.4	13.9	1.241	13400	0.006	0.1	0.58	0.26
244.00	246.00	411068	CORE_HALF	1515.24	120.2	10.87	4.54	77.4	13.6	1.099	12300	-0.005	0.13	0.49	0.25
246.00	248.00	411069	CORE_HALF	1053.3	67	11.8	4.62	62.8	15.1	0.56	9200	-0.005	0.1	0.75	0.11
248.00	250.00	411070	CORE_HALF	1982.93	78.3	7.93	3.41	51.8	17.2	0.548	6100	0.005	0.08	0.79	0.22
250.00	252.00	411071	CORE_HALF	2379.72	215.2	15.59	3.5	55.9	14	0.782	7100	-0.005	0.09	0.7	0.24
252.00	254.00	411072	CORE_HALF	1727.8	113.9	22.95	3.53	72	19.5	0.727	4900	0.005	0.14	0.42	0.21
254.00	256.00	411073	CORE_HALF	1557.63	165.6	4.06	2.68	73.3	13.2	0.823	7400	-0.005	0.12	0.43	0.21
256.00	258.00	411074	CORE_HALF	1980.35	419.4	3.81	3.96	70	13.2	0.719	4800	-0.005	0.08	0.65	0.22
258.00	260.00	411075	CORE_HALF	4673.44	732.2	10.08	4.16	76	14.2	1.865	10500	-0.005	0.13	0.55	0.47
260.00	262.00	411076	CORE_HALF	1991.72	194.7	11.13	3.79	69.7	14.8	0.958	10500	-0.005	0.45	1.19	0.23
262.00	264.00	411077	CORE_HALF	1858.87	190	14.41	3.36	87.3	13.3	1.046	17700	-0.005	0.17	0.44	0.26
264.00	266.00	411078	CORE_HALF	1581.16	125	16.05	4.16	87.7	12.3	0.916	11300	-0.005	0.09	0.62	0.17

Geoinformatics Exploration Inc

Collar

Hole ID	RB06_02	*Hole type*	DD		*Drilling company*	*Grid ID*	NAD83_UTM_10		
DataSet	GXL_REDTON_2006	*Depth*	273.41	m	*Geologist*	*Easting*	355090.00	*RL*	1680.00 m
Prospect	Rainbow	*Commenced*	12/09/2006		*Survey Method*	*Northing*	6171200.00		
Tenement		*Completed*	16/09/2006		*Notes*				

Survey

At		Azimuth	AzimuthID	Dip	Method	Comments
0.00	m	360.0	NAD83_UTM	-60.0	COMPASS	
37.00	m	353.7	NAD83_UTM	-61.0	CAMERA	
128.04	m	359.3	NAD83_UTM	-61.9	CAMERA	

Lithology

Logged by: Gemma_Cryan

			Lith 1					Lith 2					
From	To	m	Code	GSize	Qual	Text1	Text2	%	Code	GSize	Qual	Text1	Text2	%	Comments
0.00	7.93		CASE					100							
7.93	16.50		IIDP	M	pp	pp		100							
16.50	18.48		IIDM	F	im	eq		100							
18.48	145.50		IIDM	M	im	eq		100							
145.50	201.38		IIP	F	pp	pp		100							
201.38	214.22		IIDM	F	im	eq		100							
214.22	214.70		IIP	F	pp	pp		100							
214.70	220.15		IIDM	F	im	eq		100							
220.15	254.52		IIDM	M	im	eq		100							
254.52	257.37		IIDM	F	im	eq		100							
257.37	273.41		IIDM	M	im	eq		100							

Lithology

Logged by: Gemma_Cryan

From	To	m	Description
0.00	7.93		

7.93	16.50	medium grained diorite with subrounded feldspar phenocrysts and angular k-feldspar phenocrysts . The relatively unaltered state (weak clay alteration) is suggestive of a late stage intrusive
16.50	18.48	equigranular intermediate intrusive, alterted by chlorite. Unit is magnetic
18.48	145.50	Medium grained intermediate intrusive. Alteration is dominated by epidotisation with chlorite; weak k-spar and weak clay alteration is localised. Local heamtite alteration zones also present.
145.50	201.38	Feldspar phenocrysts in a fine grained intermediate intrusive. Strong alteration by clays in particular with other various localised zones.
201.38	214.22	equigranular intermediate intrusive, alterted by chlorite and epidote. Unit is magnetic
214.22	214.70	feldspar phenocrysts in a fine grained intermediate intrusive. Alteration is dominated by chlorite. Upper contact shows a possible cooling margin.
214.70	220.15	equigranular intermediate intrusive, alterted by chlorite and epidote. Unit is magnetic
220.15	254.52	Core grades into a medium grained intermediate intrusive. Epidote alteration with lesser k-spar alteration are present. Unit displays less magnetism where epidote alteration increases.
254.52	257.37	equigranular intermediate intrusive. Trace alteration is evident. Unit is magnetic
257.37	273.41	Medium grained intermediate intrusive. Alteration is dominated by epidotisation. Magnetism of the rock decreases where epidote alteration shows an increase.

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
7.93	16.50	WK	CY	pv	WK							Unit is weakly altered with clays. Minor amounts of plagioclase phenocrysts have partial clay alteration and the groundmass is relativley soft, suggesting weak altertion of some of the goundmass material also
16.50	40.55	WK	EZ	pat	WK	KF	pat	TR	CH	pv	WK	Weak alteration is founsd with patchy epidote alteration throughout the unit. Trace localised k-spar altertion has occurred of the plagioclase and chlorite alteration may have occurred int eh groundmass.
40.55	49.85	MOD	EZ	vsel	MOD	KF	pat	WK	CH	vsel	TR	Epidote alteration increases in this unit with most of the altertaion stemming from vein or fracture selvage. K-spar is again localised with altertiaon of the plagioclaseand chloirte is present in trace amount inveins and possibly again in the finer grained groundmass.
49.85	103.75	WK	EZ	vsel	WK	KF	pat	TR	HM	ff	TR	Epidote alteration is related to veining and increases in local patches. Haematite is found on open fracture surfaces and k-spar alteration is present in local patches where plagioclase is replaced. The unit is somewhat soft and this may also suggest chlorite alteration.
103.75	108.67	MOD	CH	pv	WK	KF	pat	MOD	EZ	vsel	WK	Unit displays chlorite alteration throughout with localised k-spar alteration (k-spar is orange indicating a possible haematite infiuence). Epidote alteration is also localised and vein related. Unit is weakly magnetic in patches.
108.67	121.31	MOD	CH	pv	WK	KF	pat	TR	EZ	vsel	MOD	Unit has similar alteration to the previous but the potassic alteration shows a decrease while epidotisation shows an increase.
121.31	124.25	STG	CH	pv	STG	EZ	vsel	MOD	HM	fsel	MOD	Unit is softer than the previous indicating an increase in chlorite alteration. Epidote alteration is still found in loclaised xones where it is vein related and haematite is present on open fractures and as fracture selvage. There is a possible faoult gouge at the bottom of the unit which shows intense heamatite staining .
124.25	126.50	INT	CY	pv	INT	CH	pv	TR	HM	fsel	TR	Unit is extremely broken up and soft displaying intense clay alteration. Trace chlorite alteration may still be present and haematite is found in association with fracturing whereit is still evident.
126.50	145.50	INT	CY	pv	INT	HM	fsel	MOD	KF	pat	TR	Unit is similar to the above but with an increase in localised haematitic alteration. K-spar (or possible albite with haematite staining) alteration is found in a discrete patch at the top of the unit and is not as soft as surrounding rock.

145.50	153.80	STG	CY	pv	STG	CH	pv	MOD	HM	fsel	MOD	Unit shows strong clay altertaion in the groudmass and of the plagioclase phenocrysts. Chlorite alteration is found in localised zones where it has altered some of the mafic components and fracture related haematite alteration is also found localised.
153.80	159.50	STG	CY	pv	STG	CH	rep	MOD	HM	ff	TR	Unit show similar clay altertaion to the one above with strong pervasive clay alteration and localized areas of chlorite replacing mafics but haematite altertion has dramatically decreased with only trace evidence on open fractures.
159.50	162.80	STG	CY	pv	STG	CH	pv	MOD	HM	fsel	MOD	Unit shows strong clay altertaion in the groudmass and of the plagioclase phenocrysts. Chlorite alteration is found in localised zones where it has altered some of the mafic components and fracture related haematite alteration has reentered the system and is also found localised.
162.80	169.66	STG	CY	pv	STG	KF	vsel	MOD	HM	fsel	WK	Unit is defined by the introduction of vein selvage pink feldspar altertion. Pervasive clay and localised haematite altertion are still present although the haematite altertaion has decreased relative to the previous unit. Chlorite alteration is still present also and increases toward the bottom of the unit while haematite decreases.
169.66	188.47	STG	HM	pv	STG	CY	pv	STG	CH	pat	MOD	Unit is dominated by prevasive haematite alteration. Discrete patches are less haematitic and here chlorite alteration occurs of the groundmass. The unit is soft indicating clay alteration and this is clearly visible in the alteration of plagioclase phenocrysts to greenish clays.
188.47	190.80	INT	CY	pv	INT	CH	pv	MOD	HM	ff	WK	Unit is intensly altered by clays with a green colouration stemming from prevasive chlorite alteration also. Haematite is confined to fracture surfaces.
190.80	198.70	STG	KF	pv	STG	CH	vsel	WK	HM	vsel	MOD	Unit is strongly altered pervasivley by pink/orange feldspar. Local zones of haematite (vein related) are also found and may be responsible for the orange colouration of the feldspar. Chlorite is present in veins as is quartz.
198.70	200.25	INT	SL	fsel	INT	CH	pat	MOD	KF	pat	MOD	Unit is dominated by quartz fracture related veining. Discrete zones of chlorite and orange feldspar are present where they show pervasive alteration (zones approx 25cm each) the feldspar zone possibly stemming from a fracture.
200.25	220.00	WK	EZ	vsel	WK	KF	pat	WK	HM	fsel	TR	Epidote veining and vein selvage is present throughout the unit. Local patches of orange feldspar are found, often in association with haemaite viens (which may have coloured the feldspar) Where plagioclase phenocrysts are present in a small section of porphyry the phenocrysts have been altered to the orange feldspar.
220.00	254.52	WK	EZ	vsel	WK	KF	pat	WK				Unit is similar to the above but haematite is no longer present except on rare open fracture faces.
254.52	257.37	TR	EZ	rep	TR	HM	fsel	TR	KF	vsel	TR	Unit may show a change in altertioan due to the differing lithology. Altertaion that is observed is trace epidotisation of felsic materials, haematite on open and heeled fracture surfaces and k-spar vein selvage.
257.37	273.41	WK	EZ	vsel	WK	KF	pat	WK				unit shows the same alteration as occurs before the lithological change. Epidote veining and vein selvage is present throughout the unit. Local patches of orange feldspar occur as vein selvage alteration and trace haematite veining is present.

Veining

From	*To*	*m*	*Vein1*	*Style*	*Int.*	*Av. thick (mm)*	*Av. Angle*	*Vein2*	*Style*	*Int.*	*Av. thick (mm)*	*Av. Angle*	*Vein3*	*Style*	*Int.*	*Av. thick (mm)*	*Av. Angle*	*Comments*
7.93	18.64		ZVC	HLN	1	0.05		ZVQC	FRV	1	0.8		ZVC	FRV	0.5	0.5		irregular carbonate hairline viens are ubiquitous with larger carbonate and quartz-carbonate fracture veins scattered throuout the unit.
18.64	33.00		ZVE	IRR	1	0.05		ZVQC	FRV	1	0.5		ZVC	HLN	1	0.05		Unit is defined by the introduction of late stage epidote veining, usually at a high angle to the core axis (60-80 degrees). 50%of the quartz-carboante veins show a pink-carbonate content

33.00	46.15	ZVE	FRV	0.5	0.3	ZVC	HLN	0.5	0.05	ZVC	FRV	0.5	0.5	Unit is differenciated by the introduction of irregular chlorite veining. Epidote, carbonate and quartz-carbonate veins are still present.
46.15	55.35	ZVE	IRR	0.5	0.05	ZVQC	FRV	0.5	0.5	ZVC	HLN	0.5	0.05	Chlorite veining is now absent and there is a slight decrease in intensity of both epidote and hairline carbonate veining.
55.35	91.60	ZVE	IRR	0.3	0.05	ZVC	HLN	0.3	0.05	ZVO	IRR	0.1	0.2	Similar to the above unit this one now shows an introduction of irregular trace magnetite veining. The majority of veins in the unit run at high angles to the core axis with the exception of several larger (1cm wide) carbonate veins which run at a low angle. (approx 15 degrees)
91.60	103.85	ZVC	HLN	1	0.05	ZVO	IRR	1	0.1	ZVQC	FRV	0.5	0.5	Unit show hairline irregular carbonate viening with fracture related quart-carbonate (often with chlorite and sulphides associated) as well as an introduction of irregular haematite veining into the system. One vein at 90.1m shows strong chalcopyrite associatied with chlorite found traped in the vein.
103.85	121.60	ZVO	FRV	2	0.8	ZVQC	FRV	2	0.5	ZVCL	IRR	0.5	0.1	Introduction of irregular chlorite veining and k-spar fracture related veins defines this unit. Hairline carbonate and fracture related quartz-carbonate (withsulphide asociation) are still present.
121.60	124.15	ZVC	HLN	1	0.05	ZVCL	IRR	1	0.1	ZVQC	FRV	0.5	0.5	Unit is distinguished from the above by the loss of k-spar veining.
124.15	127.90	ZVO	FRV	15	0.5	ZVO	IRR	15	0.05	ZVO	IRR	0.5	0.05	Hairline irregular haematite and feldspar(gone to clay) veins are present. Larger feldspar fracture related veining dominated the unit.
127.90	134.45	ZVE	IRR	1	0.5	ZVC	HLN	1	0.05					small unit with carbonate irregular hairline veins and irregualr epidote veining.
134.45	140.30	ZVC	HLN	2	0.05	ZVQ	FRV	2	1	ZVO	FRV	0.5		hairline carbonate veins are still present. A feldspar fracture vein is present and a fracture related late stage vein with sulphide association.
140.30	145.50	ZVC	HLN	1.5	0.05	ZVO	FRV	1.5	0.2					hairline carbonate veins and feldspar veining still remain but no quartz veins are evident.
145.50	155.90	ZVO	IRR	5	0.3	ZVO	IRR	5	0.05					Unit is dominated by irregular multiple phases of feldspar veining some cut by haematite hairline veins.
155.90	169.66	ZVO	IRR	12	0.7	ZVO	HLN	12	0.05	ZVCL	HLN	0.1	0.05	Unit is dominated by multiple phases of feldspar veining with trace chorite sometimes associated with the thicker earlier veins. Haematite veins are still present also in trace amounts and a single late stage fracture related quartz vein with sulphides is present at 166.15m
169.66	193.50	ZVO	IRR	5	0.1	ZVQ	FRV	5	0.5	ZVCL	HLN	0.1	0.05	Unit is dominated by multiple feldspar veining episodes. Hairline chlorite veins and late stage quartz veins are also present but are rare. Vein intensity increases down this unit

193.50	200.25	ZVQ	FRV	10	3	ZVO	FRV	10	0.1	ZVCL	HLN	0.5	0.05	Quartz veining dominates the unit with large fracture related veins throughout and a concentration of silica between 199 and 200.5m. Other veining in the unit consits of haematite, chlorite and some feldspar.
200.25	217.50	ZVC	HLN	0.5	0.05	ZVO	IRR	0.5	0.2	ZVE	FRV	0.5	0.2	This unit sees the introduction of epidote veins, sometimes with sulphides associated with the epidote vein selvage alteration.. Hairline carbonate veins are found throughout and late stage gypsum veins are present. Trace amounts of haematite veining is also present.
217.50	254.52	ZVC	HLN	0.5	0.05	ZVO	IRR	0.5	0.2	ZVQC	FRV	1	0.5	Epidote veins (sometimes rimed by orange feldspar) are seen. Late stage quartz-carbonate and carbonate veins are present often with sulphide association. Hairline carbonate veins are still present throughout the unit. Late stage irregular gypsum veins are also present
254.52	257.37	ZVC	HLN	0.5	0.01	ZVO	IRR	0.5	0.2	ZVO	FRV	0.1	0.01	Unit displays haematite veins on open fracture faces, hairline carbonate veins and iregular late stage gypsum veining.
257.37	273.41	ZVC	HLN	0.5	0.05	ZVO	IRR	0.5	0.2	ZVQC	FRV	1	0.5	Epidote veins (sometimes rimed by orange feldspar) are seen. Late stage quartz-carbonate and carbonate veins are present often with sulphide association. Late stage irregular gypsum veins are present and hairline carbonate veins are still locally present.

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
7.93	18.25	Pyrite only is found in quartz-carbonate fracture vein.	PY	vein	0.1
18.25	39.00	Chalcopyrite is introduced into the system in this unit and is related to quartz-carbonate veins and selvage. One such vein (1cm thick) at 21.47m is note worthy with approx.30% chalco	PY	vein	0.06
			CCP	vein	0.04
			PY	vsel	0.03
			CCP	vsel	0.02
39.00	74.00	Overall sulphides are less than .01% but rare blebs of suphides are present in association with epidote alteration and quartz veining.	CCP	blb	0.01
74.00	74.50	Sulphides are found disseminated in this small section. Late stage carbonate veining which may have remobilised the sulphides appears to concentrate the minerals round them.	CCP	vsel	0.5
			CCP	diss	0.2
			PY	diss	0.2
			PY	vsel	0.1
74.50	89.00	Overall sulphides are less than .01% but rare blebs of suphides are present in association with epidote alteration	CCP	blb	0.005
			PY	blb	0.005
89.00	91.50	A quartz-carbonate-chlorite vein host the majority of the sulphides in the zone with about 5% overall sulphides. Outside of this sulphide is seen as vein selvage on other quartz-carbonate veins.	CCP	vein	0.2

			PY	vein	0.1
91.50	103.00	Sulphides are rare in this unit but where encountered are associated with epidote veins and one large quartz-carboante vein at 102.05m (dominated by pyrite)	PY	vein	0.008
			CCP	vein	0.002
106.00	107.30	Sulphides are found in association with pink/orange feldsapr alteration zones	CCP	vein	0.01
			PY	vein	0.01
115.60	115.80	chalcopyrite blebs are found with in a chlorite vein rimmed by carbonate and pink/orange feldspar.	CCP	vein	0.16
			PY	vein	0.04
166.15	170.30	Both pyrite and chalcopyrite are found within and haloing a late stage quartz vein	CCP	vein	0.005
			PY	vein	0.005
177.50	179.25	Pyrite found in quartz and feldspar late stage veins.	PY	vein	0.01
192.45	193.00	Sulphids found in association with chlorite vein and quartz vein rimmed by chlorite.	PY	vsel	0.02
			CCP	vsel	0.01
198.75	200.20	Both chalco and pyrite arefound with in large late stage quartz fracture vein with pyrite also found in more mafic components.	CCP	vein	0.01
			PY	blb	0.01
			PY	vein	0.01
203.15	205.60	Sulpides are found in association with epidote alteration and veins and chalco with quartz-carbonate vein	CCP	vein	0.02
			CCP	pat	0.01
			PY	pat	0.01
216.00	216.85	Sulphides are found in association with epidote alteration zone stemming from epidote veins.	PY	vsel	0.035
			CCP	vsel	0.015
216.85	243.50	Sulphides are found haloing carbonate veins and within quartz-carbonate late stage veins.	PY	vein	0.03
			CCP	vein	0.013
			PY	vsel	0.005
			CCP	vsel	0.002
243.50	245.80	A small zone of more epidote altered core shows sulphide mineralisation related to a late stage carbonate fracture vein and disseminated within the epidote replacement (often in the vacinity of haematite hairline veins)	CCP	diss	0.2
			PY	diss	0.15
			PY	vein	0.1
			CCP	vein	0.05
251.30	251.35	Sulphides present in a quartz-carbonate vein(vein is cut by a later non-sulphide-bearing quartz vien).	CCP	vein	0.005
			PY	vein	0.005
258.80	259.00	Pyrite is present in fracture selvage and disseinated in an epidote alteration zone.	PY	fsel	0.006
			PY	blb	0.004
259.00	263.32	sulphides are found in association with epidote veins rimmed by orange feldspar.	CCP	vein	0.01
			PY	vein	0.01
263.32	273.41	sulphides are found in asocition with a blue hued clay and chlorite alteration. Veining is hairline with a haematitic associatin nad also in one late stage quartz fracture vein.	PY	vein	0.6
			CCP	vein	0.2
			PY	blb	0.15
			CCP	blb	0.05

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
7.93	16.50		ZRO	STG								High density of open fractures
16.50	18.25		ZRO	INT								Rubble
18.25	21.30		ZRO	MOD								Open fractures and several sets of heeled fractures are present
21.30	22.90		ZRO	STG								An increase in open fractures compared to the previous unit
22.90	31.40		ZRO	MOD								Open fractures and several sets of heeled fractures are present
31.40	31.80		ZRO	STG								Rock is broken up and open fractures have increased relative to the previous unit
31.80	49.80		ZRO	MOD								Open fractures and several sets of heeled fractures are present
49.80	50.90		ZFG	INT								Fault gouge is present for a short interval(meterage suggests approx. 80cm of missing core length possibly due to the fault zone encountered here)
50.90	54.07		ZRO	MOD								Open fractures and several sets of heeled fractures are present
54.07	54.60		ZRO	STG								Large carbonate fracture vein present with some a concentration of open fractures also
54.60	56.90		ZRO	MOD								open fractues with haematite on the surface are present . Few heeled fractures are evident.
56.90	60.30		ZRO	STG								Rock is strongly fragmented due to open fractures with an increase in heeled fracture veining
60.30	68.30		ZRO	MOD								multiple sets of open fractures are present with haematite staining on the majority. Heeled fractures are not in obvious abundance.
68.30	70.10		ZRO	STG								multiple phases of fracturing are present. The rock is strongly fragmented by open fractures and heeled fracture veining is also common. A possible fault breccia zone has been reactivated by current fractures
70.10	72.20		ZRO	WK								unit does not show heeled fracturing and current fracturing is weak.
72.20	72.80		ZRO	STG								Unit is broken by extensive open fraturing
72.80	76.75		ZRO	MOD								Curent fracturing dominated the unit with only minor evidence of heeled fracturs
76.75	77.40		ZRO	STG								Current fracturing had broken the unit extensively and heeled fractures are present with quartz and carbonate (with some chlorite rimming) fracture veins dominating
77.40	81.67		ZRO	MOD								Current fracturing dominated the unit with only minor evidence of heeled fracturs
81.67	115.40		ZRO	WK								Current fractures are evident but low in abundance and few heeled fracture veins are present
115.40	118.26		ZRO	STG								Numerous open fractures have broken the core and evidence of heeled fractures is also present
118.26	122.45		ZRO	MOD								Unit shows a decrease in open fractures relative to the previous unit but several parallel sets do still remain
122.45	145.50		ZFG	INT								Intensely altered and broken up sore. Possible fault zone where the intense clay alteration has aided in the soft and gouge like characteristic of the core.
145.50	156.00		ZRO	STG								Core is broken up by numerous open fractures and displays multiple veins indicative of heeled fractures. A possible fault gouge is present at 153.80-154.60m
156.00	161.30		ZRO	MOD								Core shows the same multiple veining indicative of heeled fractures but is more competent with less current fracturing
161.30	161.40		ZFG	INT								possible fault gouge zone
161.40	163.20		ZRO	STG								Numerous open fractures have broken the core and evidence of numereous phases of heeled fractures is also present
163.20	163.80		ZFG	INT								possible fault gouge zone
163.80	174.40		ZRO	STG								Core is broken up by numerous open fractures and displays multiple veins indicative of heeled fractures.
174.40	177.72		ZRO	MOD								Core shows less open fractures than the previous unit but still displays multiple heeled fracture veins

177.72	177.96	ZFG	INT	Possible fault gouge.
177.96	179.90	ZRO	MOD	same as above moderate zone befroe the intersection of the possible fault gouge.
179.90	188.37	ZRO	STG	Unit shows strong veining indicative of multiple phases of heeled fractures. Open fractures are alos numerous and stronger or more common in localised areas.
188.37	191.45	ZFG	INT	Rubbly core which may be due to a fault or in part due to the intense clay altertion found in the area also.
191.45	200.50	ZRO	STG	Open fractures are not common but the unit is strongly veined with multiple phases indiciative of heeled fracturing. Unit is dominated by large fracture related quartz veining
200.50	233.00	ZRO	WK	unit shows a dramatic decrease in heeled fracture veining compared to the previous unit.
233.00	234.50	ZRO	MOD	Increase in open fracturing
234.50	247.13	ZRO	WK	Current fractures are evident but low in abundance and few heeled fracture veins are present
247.13	247.20	ZFG	INT	Possible fault gouge. Extremely friable core
247.20	255.42	ZRO	WK	Current fractures are evident but low in abundance and few heeled fracture veins are present
255.42	257.50	ZRO	TR	Rare open fractures are apparent. No evidence of heeled fracture veining.
257.50	264.00	ZRO	WK	Current fractures are evident but low in abundance and few heeled fracture veins are present
264.00	265.55	ZFG	STG	Unit has several possible fault gouge zones and increase in open fractures and an increasein veining related to heled fractures
265.55	269.10	ZRO	MOD	Unit shows several heeled fracture vein phases and has numerous open fractures with haematite coating the surfaces of most.
269.10	272.65	ZRO	TR	Open fractures some with gypsum coatings are present but evidence os heeled fracture veining is absent.
272.65	272.75	ZRO	WK	Smallunit with multiple veins indicative of heeled fractures.
272.75	273.41	ZRO	TR	Open fractures some with gypsum coatings are present but evidence os heeled fracture veining is absent.

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
109.78	ZVCL	0.4	51.0	343.0		66	167	High	chlorite fracture, with gypsum and carbonate
110.02	ZRO	0.001	60.0	118.0		29	243	High	fracture, chlorite on surface
111.05	ZVE	0.1	45.0	110.0		42	258	High	epidote veinlet. One of a series similarly orientated localised epidote veins
111.52	ZVQC	0.3	57.0	75.0		48	224	High	one of a series of localised parallel carbonate vein with quartz, and minor chlorite,
112.00	ZVCL	0.1	40.0	105.0		49	258	High	gypsum and chlorite, possible displacement
113.08	ZVF	1.2	42.0	347.0		76	168	High	vein of k feldspar, carbonate, spotty chlorite
114.63	ZRO	0.001	52.0	320.0		62	152	High	open fracture with hematite and gypsum on the surface
115.00	ZVF	0.4	46.0	307.0		64	140	High	pink spar vein
195.11	ZVQC	0.3	45.0	182.0		17	4	High	quartz carbonate vein with hematite selvage
195.63	ZVC	0.2	72.0	124.0		23	220	High	carbonate vein, anastomozing
196.39	ZVQ	0.7	7.0	19.0		70	19	High	quartz vein, pink on selvage
196.89	ZVC	0.3	15.0	152.0		51	324	High	carbonate gypsum (?) vein on fracture surface with chlorite on selvage
203.61	ZRO	0.001	30.0	15.0		87	192	High	chlorite coated fracture
203.94	ZVO	0.02	42.0	102.0		48	255	High	gypsum on fracture with chlorite and hematite staining
204.41	ZVO	0.02	31.0	85.0		65	249	High	gypsum vein with chlorite and carbonate on selvage
204.72	ZVC	0.02	49.0	122.0		34	264	High	carbonate veinlet

206.33	ZVE	0.01	32.0	157.0	33	322	High	epidote-carbonate veinlet
207.69	ZVE	0.02	27.0	320.0	85	144	High	epidote veinlet
207.70	ZVE	0.01	50.0	127.0	31	267	High	epidote veinlet
207.97	ZRO	0.001	65.0	287.0	42	142	High	hackley fracture
211.77	ZVQC	2	45.0	331.0	71	158	High	carbonate - quartz kspar and chlorite, brecciated zone?
211.89	ZVC	0.01	44.0	144.0	28	293	High	carbonate -epidote vein
213.68	ZVQC	0.7	43.0	57.0	66	222	High	quartz-carbonate on fracture
214.92	ZRO	0.001	55.0	49.0	57	210	High	hematite and epidote on fracture
215.37	ZVQC	1	30.0	322.0	83	147	High	quartz-carbonate vein with chlorite selvage
215.97	ZVE	0.5	27.0	42.0	85	216	High	pyrite and epidote with pink in selvage
216.95	ZVC	0.02	40.0	78.0	61	239	High	carbonate vein
218.22	ZVE	0.02	59.0	117.0	30	246	High	epidote stringer
222.15	ZVC	0.8	78.0	100.0	28	205	High	carbonate vein with epidote and gypsum rimming. Sulphides associateed
222.34	ZVE	0.2	74.0	117.0	25	215	High	one of a local set of similarly orientated epidote veins
222.71	ZVO	0.2	38.0	73.0	64	236	High	gypsum vein on an open fracture with some pink staining
222.79	ZVO	0.3	55.0	65.0	53	220	High	late stage gypsum vein with probable chlorite alteration haloing the vein
223.80	ZVE	0.2	32.0	20.0	85	196	High	one of a local set of similarly orientated epidote veins
225.03	ZVE	0.1	75.0	55.0	39	199	High	one of a local set of similarly orientated epidote veins
225.82	ZVQC	1	44.0	62.0	63	225	High	pyrite with a quartz-carbonate vein (carbaonte has some pink staining)
226.18	ZVQC	0.5	30.0	210.0	37	45	High	quartz-carbonate vein with selvages of chlorite and heamatite.
234.77	ZRO	0.001	35.0	82.0	63	245	High	one of a localised set of open fractures with gypsum coating.
235.32	ZVQ	0.4	41.0	79.0	59	239	High	Late stage quartz vein with sulphide associated
236.93	ZRO	0.001	49.0	82.0	51	235	High	one of a local set of similarly orientated fractures, gypsum on surface
239.70	ZVQC	2	47.0	225.0	29	80	High	late stage quartz-carbonate vein with sulphides
239.82	ZVC	0.2	55.0	66.0	52	221	High	carbonate vein with sulphieds
244.37	ZVE	1	26.0	118.0	54	281	High	carbonate vein with sulphides
245.57	ZRO	0.001	42.0	49.0	69	216	High	one of a local set of similarly orientated fractures, gypsum on surface
249.67	ZVC	0.1	29.0	218.0	41	54	High	Carbonate vein with haematite and sulphide selvage
250.50	ZRO	0.001	38.0	208.0	29	48	High	One of s set of local similarly orientated fractures with haematite on the surface
251.33	ZVQC	0.4	34.0	228.0	41	69	High	Quartz-carbonate vein with sulphides
251.34	ZVQC	0.5	56.0	258.0	38	117	High	Quartz-carboante vein cross cutingthe previous with no sulphides

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
7.50	8.00	411134	CORE_HALF	13.14	6.8	11.18	4.04	13.6	1.1	0.034	4800	0.013	2.76	0.17	0.6
8.00	10.00	411135	CORE_HALF	12.9	9.5	2.41	3.22	20.5	0.8	0.05	5600	-0.005	1.09	0.17	0.3
10.00	12.00	411136	CORE_HALF	16.67	1.4	1.27	2.56	33.9	0.6	0.021	5600	-0.005	0.19	0.09	0.09
12.00	14.00	411137	CORE_HALF	15.02	0.7	7	2.46	26.8	0.6	0.039	5300	-0.005	0.46	0.12	0.21
14.00	16.00	411138	CORE_HALF	23.6	1.1	0.83	2.67	27.5	0.5	0.031	4700	-0.005	0.17	0.22	0.11
16.00	18.00	411139	CORE_HALF	483.08	12.8	29.18	3.39	88.4	4.9	0.36	16100	-0.005	0.74	0.2	0.35
18.00	20.00	411141	CORE_HALF	289.46	20	8.13	3.61	107	10.6	0.309	16500	0.006	0.32	0.35	0.14

20.00	22.00	411142	CORE_HALF	679.87	30.8	9.91	4.2	88.4	9	0.525	12100	-0.005	2.83	0.52	0.22
22.00	24.00	411143	CORE_HALF	458.29	36.7	11.32	5.33	75.9	11	0.383	10700	-0.005	0.41	0.65	0.08
24.00	26.00	411144	CORE_HALF	586.64	77.1	7.57	3.39	91.6	9.1	0.545	10000	-0.005	0.58	0.29	0.18
26.00	28.00	411145	CORE_HALF	710.19	126.1	3.08	2.92	85.7	9.4	0.471	11400	-0.005	0.2	0.28	0.07
28.00	30.00	411146	CORE_HALF	1012.2	524.7	5.8	4.76	82.6	8.9	1.109	8700	0.012	1.96	0.33	0.34
30.00	32.00	411147	CORE_HALF	774.71	104.6	3.55	5.35	89.5	6.2	0.532	5300	-0.005	0.34	0.26	0.1
32.00	34.00	411148	CORE_HALF	777.51	96.8	9.19	5.57	94.5	5	0.775	10000	-0.005	1.68	0.34	0.43
34.00	36.00	411149	CORE_HALF	222.6	37.8	3.59	4.8	77.4	7.1	0.271	3600	-0.005	0.69	0.33	0.08
36.00	38.00	411150	CORE_HALF	474.66	61.6	5.53	5.37	80.1	6.2	0.452	3800	-0.005	0.16	0.31	0.03
38.00	40.00	411151	CORE_HALF	324	33.8	1.91	13.2	70.7	6.2	0.387	6900	-0.005	0.2	0.37	0.04
40.00	42.00	411152	CORE_HALF	638.66	92.6	2.34	7.25	82.3	6.9	0.63	7000	-0.005	0.07	0.4	0.05
42.00	44.00	411153	CORE_HALF	291.12	133.5	1.56	31.66	73.4	7.4	0.899	1800	-0.005	0.15	0.45	0.01
44.00	46.00	411154	CORE_HALF	285.28	31.9	2.32	5.51	72.4	6.2	0.28	2200	-0.005	0.11	0.35	0.02
46.00	48.00	411155	CORE_HALF	141.22	35.7	2.47	2.76	94	6.8	0.139	4900	-0.005	0.16	0.25	0.04
48.00	49.80	411156	CORE_HALF	354.66	32.9	2.03	2.44	110.9	7.5	0.27	7400	-0.005	0.17	0.3	0.04
50.50	52.00	411157	CORE_HALF	254.25	25.7	1.26	3.68	63.7	6.9	0.391	7500	-0.005	0.23	0.56	0.08
52.00	54.00	411158	CORE_HALF	351.37	30.3	1.54	4.68	75.9	7.9	0.283	6800	-0.005	0.08	0.55	0.04
54.00	56.00	411159	CORE_HALF	767.6	108.8	13.44	4.54	79.7	7.4	0.943	6000	-0.005	0.23	0.37	0.09
56.00	58.00	411161	CORE_HALF	426.5	35.5	2.6	4.55	69.1	7.8	0.467	9800	-0.005	0.29	0.4	0.06
58.00	60.00	411162	CORE_HALF	194.54	32.1	4.01	3.46	80.5	9	0.249	12600	0.007	0.18	0.25	0.17
60.00	62.00	411163	CORE_HALF	282.1	17.2	2.04	3.44	68.4	6.6	0.245	7100	-0.005	0.07	0.47	0.02
62.00	64.00	411164	CORE_HALF	322	58	2.99	4.06	69.2	5.9	0.314	11800	-0.005	0.1	0.41	0.05
64.00	66.00	411165	CORE_HALF	387.09	39.6	2.3	4.59	65.5	7.1	0.315	9600	-0.005	0.05	0.4	0.05
66.00	68.00	411166	CORE_HALF	602.3	71.9	14.3	3.9	78.7	8.3	0.453	5500	-0.005	0.39	0.53	0.06
68.00	70.00	411167	CORE_HALF	881.2	82.2	5.01	4.25	68.7	17.4	0.587	5800	-0.005	0.6	1.29	0.15
70.00	72.00	411168	CORE_HALF	254.14	27.9	1.71	3.19	70.4	8.6	0.241	11900	-0.005	0.47	0.4	0.02
72.00	74.00	411169	CORE_HALF	561.98	54.9	12.9	4.17	79.1	17.7	0.444	7100	-0.005	0.47	1.24	0.05
74.00	76.00	411170	CORE_HALF	614.79	84.2	16.68	3.26	74.4	8.5	0.421	3200	-0.005	0.37	0.5	0.05
76.00	78.00	411171	CORE_HALF	283.63	29.9	4.09	4.01	85.9	7.9	0.263	4900	-0.005	0.12	0.44	0.03
78.00	80.00	411172	CORE_HALF	709.03	43.4	5.26	3.8	83.5	7.4	0.63	6600	0.005	0.16	0.34	0.08
80.00	82.00	411173	CORE_HALF	450.06	27.1	16.18	3.66	75.2	8.1	0.616	8100	-0.005	0.08	0.36	0.46
82.00	84.00	411174	CORE_HALF	834.33	47.7	16.98	4.25	90.8	7.9	0.817	6500	-0.005	0.2	0.33	0.25
84.00	86.00	411175	CORE_HALF	256.31	18.4	1.68	2.53	109.1	7.3	0.21	19300	-0.005	0.48	0.24	0.23
86.00	88.00	411176	CORE_HALF	533.84	58.5	2.21	4.41	88.5	8.6	0.362	12300	0.008	0.22	0.44	0.26
88.00	90.00	411177	CORE_HALF	1080.33	88.6	16.18	3.79	66.6	7.9	0.618	8800	-0.005	0.26	0.4	0.37
90.00	92.00	411178	CORE_HALF	2548.69	74.4	11.06	7.16	75.9	8.5	1.96	10400	-0.005	0.5	0.45	0.7

92.00	94.00	411179	CORE_HALF	1568.08	76.5	10.75	5.01	68.3	7.7	0.595	7700	-0.005	0.08	0.33	0.79
94.00	96.00	411181	CORE_HALF	330.97	17.8	2.17	5.66	73.1	8.9	0.305	10100	-0.005	0.29	0.46	0.21
96.00	98.00	411182	CORE_HALF	357.98	14.8	4.26	3.67	87.1	7.8	0.213	9800	-0.005	0.1	0.39	0.2
98.00	100.00	411183	CORE_HALF	135.37	13.9	3.1	4.78	74.4	9.8	0.126	7000	-0.005	0.12	0.71	0.18
100.00	102.00	411184	CORE_HALF	347.16	12	22.45	2.83	71.7	8.1	0.194	7200	0.006	0.09	0.38	0.12
102.00	104.00	411185	CORE_HALF	431.45	15.5	1.83	4.2	68.4	8.8	0.346	8200	-0.005	0.27	0.67	0.21
104.00	106.00	411186	CORE_HALF	185.01	29.1	1.6	4.37	68	7.9	0.172	9000	-0.005	0.06	0.37	0.09
106.00	108.00	411187	CORE_HALF	757.41	44.5	15.78	6.29	71.6	8.7	0.404	5200	-0.005	0.46	0.63	0.25
108.00	110.00	411188	CORE_HALF	243.21	19.6	2.39	4.95	72.7	8.5	0.188	4000	-0.005	0.1	0.55	0.15
110.00	112.00	411189	CORE_HALF	369.85	15.9	2.7	3.73	66.6	8	0.229	6600	-0.005	0.07	0.32	0.12
112.00	114.00	411190	CORE_HALF	462.86	25.3	15.31	4.93	67.4	9	0.259	7700	-0.005	0.06	0.5	0.22
114.00	116.00	411191	CORE_HALF	523.75	93	4.41	3.31	72.1	7	0.545	5900	-0.005	0.09	0.23	0.24
116.00	118.00	411192	CORE_HALF	341.84	14.8	3.5	4.16	63.9	12.5	0.183	8200	-0.005	0.11	0.6	0.25
118.00	120.00	411193	CORE_HALF	541.87	64.8	10.22	3.01	66.7	9.6	0.271	5800	-0.005	0.13	0.31	0.31
120.00	122.00	411194	CORE_HALF	304.06	12.4	3.09	5.11	62.5	8.8	0.214	5500	-0.005	0.17	0.58	0.17
122.00	124.00	411195	CORE_HALF	388.28	14	1.5	2.59	77.5	10.3	0.197	5600	-0.005	0.17	0.33	0.03
124.00	126.00	411196	CORE_HALF	900.74	38.3	16.47	6.11	88.1	47.4	0.68	9100	-0.005	0.25	1.09	0.06
126.00	128.00	411197	CORE_HALF	929.17	34.7	18.24	6.3	79.4	102.8	0.562	6400	-0.005	0.22	1.96	0.07
128.00	130.00	411198	CORE_HALF	941.86	43.8	11.27	8.42	74.3	85.1	0.683	5700	-0.005	0.37	3.73	0.05
130.00	132.00	411199	CORE_HALF	1092.96	35.7	9.7	8.3	87.1	39.8	0.708	8500	-0.005	0.21	1.45	0.06
132.00	134.00	411201	CORE_HALF	415.28	13.2	7.28	5.99	76.9	18	0.353	6100	-0.005	0.44	0.76	0.08
134.00	136.00	411202	CORE_HALF	292.79	18.7	17.62	5.57	72.2	11.6	0.202	4800	0.008	0.14	0.91	0.02
136.00	138.00	411203	CORE_HALF	940.34	28.3	5.98	5.34	81.6	15.1	0.578	13400	-0.005	0.23	0.56	0.14
138.00	140.00	411204	CORE_HALF	272.76	12.2	4.13	6.11	76.2	12.6	0.241	6800	-0.005	0.19	0.76	0.02
140.00	142.00	411205	CORE_HALF	390.04	9.8	6.87	5.88	75.9	13.5	0.309	6000	-0.005	0.2	1.09	0.04
142.00	144.00	411206	CORE_HALF	471.3	14	17.18	6.85	69	11.4	0.475	5200	-0.005	0.17	1.1	0.04
144.00	146.00	411207	CORE_HALF	182.79	11.1	5.85	5.09	61.7	10.3	0.17	4200	-0.005	0.18	1.26	0.02
146.00	148.00	411208	CORE_HALF	109.21	6.6	5.03	4.54	55.8	7.5	0.111	3500	-0.005	0.4	0.66	0.02
148.00	150.00	411209	CORE_HALF	432.19	8.2	4.88	4.32	54.3	8.2	0.26	6600	0.02	0.44	1.03	0.05
150.00	152.00	411210	CORE_HALF	1076.61	23.3	6.18	6.27	51.6	9.4	1.557	4200	0.124	1.24	0.86	0.21
152.00	154.00	411211	CORE_HALF	45.12	2.9	3.3	5.06	41.1	8.9	0.035	2300	0.008	0.13	0.56	0.1
154.00	156.00	411212	CORE_HALF	72.28	7.4	3.88	6.56	48.3	14	0.136	4800	0.01	0.26	0.36	0.23
156.00	158.00	411213	CORE_HALF	64.93	3.7	1.88	6.77	51.5	6.4	0.063	2100	-0.005	0.12	0.49	0.02
158.00	160.00	411214	CORE_HALF	48.02	3.1	1.77	6.26	51.2	6.6	0.034	2100	-0.005	0.08	0.45	0.01
160.00	162.00	411215	CORE_HALF	22.1	1.6	1.31	5.55	44	6.6	0.016	2400	-0.005	0.11	1.01	0.01
162.00	164.00	411216	CORE_HALF	132.45	4.5	2.32	4.45	55.4	10.1	0.095	3000	-0.005	0.18	1.27	0.02

164.00	166.00	411217	CORE_HALF	89.28	4.7	3.86	3.97	54.4	7.7	0.063	3900	-0.005	0.11	0.74	0.02
166.00	168.00	411218	CORE_HALF	69.12	7.1	2.21	4.57	54	7.9	0.081	4000	-0.005	0.12	0.95	0.03
168.00	170.00	411219	CORE_HALF	191.85	8.2	5.41	5.48	60.7	7.4	0.17	2100	-0.005	0.19	0.97	0.02
170.00	172.00	411221	CORE_HALF	94.95	6.2	4.61	4.89	47.2	10.3	0.117	2900	-0.005	0.16	1.69	0.08
172.00	174.00	411222	CORE_HALF	58.92	4.9	3.11	4.92	58.4	8.4	0.119	2800	-0.005	0.15	1.36	0.03
174.00	176.00	411223	CORE_HALF	51.09	7.4	3.45	4.66	45.7	11.1	0.092	3100	-0.005	0.14	2.18	0.02
176.00	178.00	411224	CORE_HALF	72.16	1.7	4.34	5.02	51.2	10.8	0.077	4500	-0.005	0.18	1.23	0.02
178.00	180.00	411225	CORE_HALF	265.74	8.8	4.9	6.08	62.6	12.9	0.213	5100	-0.005	0.13	0.84	0.02
180.00	182.00	411226	CORE_HALF	1118.07	105	3.25	6.19	63.8	18.3	0.485	3200	-0.005	0.67	1.9	0.14
182.00	184.00	411227	CORE_HALF	272.73	21.7	3.49	5.55	59	10.4	0.262	4100	-0.005	0.16	0.98	0.07
184.00	186.00	411228	CORE_HALF	240.27	7.4	2.38	5	61.2	10.4	0.183	5000	-0.005	0.22	0.95	0.11
186.00	188.00	411230	CORE_HALF	260.26	11.5	1.94	5.6	53.4	9.8	0.269	2800	-0.005	0.25	0.83	0.05
188.00	190.00	411231	CORE_HALF	914.46	209.6	6.34	6.73	75.2	26.3	0.546	2200	0.007	0.17	0.89	0.05
190.00	192.00	411232	CORE_HALF	588.95	22.8	6.3	7.94	86.8	35.8	0.394	3000	0.006	0.24	1.51	0.12
192.00	194.00	411233	CORE_HALF	118.6	16.4	8.05	7.03	51.4	7.2	0.148	3200	0.009	0.56	0.28	0.36
194.00	196.00	411234	CORE_HALF	48.98	5	1.95	8.29	65.7	8.8	0.096	1900	0.005	0.12	0.58	0.1
196.00	198.00	411235	CORE_HALF	97.13	10.5	14.92	8.03	62.8	8.2	0.18	3100	0.006	0.41	0.38	0.17
198.00	200.00	411236	CORE_HALF	254.02	47.6	39.59	8.09	63.5	8.2	0.342	6400	0.007	1.64	0.34	0.51
200.00	202.00	411237	CORE_HALF	750.34	18.4	34.7	6.58	65.1	10	0.476	7300	-0.005	1	0.78	0.24
202.00	204.00	411238	CORE_HALF	612.53	17.7	19.32	3.52	70.2	11.1	0.347	12600	0.005	0.24	0.75	0.4
204.00	206.00	411239	CORE_HALF	350.99	7.9	4.87	3.39	57.1	8	0.195	13900	-0.005	0.05	0.37	0.47
206.00	208.00	411241	CORE_HALF	323.46	8.9	8.13	4.29	60.6	6.9	0.187	14400	-0.005	0.11	0.36	0.42
208.00	210.00	411242	CORE_HALF	345.24	9.2	6.03	2.79	45.4	12	0.185	6700	0.005	0.1	0.66	0.28
210.00	212.00	411243	CORE_HALF	252.66	9.6	13.58	2.15	57.2	9.9	0.135	10200	-0.005	0.08	0.33	0.27
212.00	214.00	411244	CORE_HALF	349.41	12.5	13.76	2.55	50.8	9.3	0.237	11300	-0.005	0.06	0.44	0.35
214.00	216.00	411245	CORE_HALF	214.53	6.9	10.67	3.5	52.5	10.8	0.128	9900	0.005	0.08	0.43	0.28
216.00	218.00	411246	CORE_HALF	471.9	16.6	10.4	2.72	54.8	10	0.258	12200	0.006	0.08	0.39	0.36
218.00	220.00	411247	CORE_HALF	493.34	33.6	13.81	3.18	76.2	10.2	0.404	16100	0.006	0.21	0.15	0.26
220.00	222.00	411248	CORE_HALF	212.27	15.3	12.41	3.97	63.6	8.7	0.133	14700	0.013	0.18	0.39	0.22
222.00	224.00	411249	CORE_HALF	213.42	7	1.92	3.21	50.3	9.4	0.133	9400	0.007	0.11	0.59	0.18
224.00	226.00	411250	CORE_HALF	644.51	29.6	9	3.35	56.7	10.1	0.292	11500	-0.005	1.24	0.31	0.31
226.00	228.00	411251	CORE_HALF	383.69	17	1.74	4.25	52.8	9.5	0.239	9600	0.006	0.32	0.4	0.16
228.00	230.00	411252	CORE_HALF	1275.04	53.9	10.29	5.08	63.8	10	0.832	11300	0.006	1.32	0.34	0.64
230.00	232.00	411253	CORE_HALF	258.41	10.6	2.23	3.22	64.5	6.6	0.167	12900	-0.005	0.09	0.26	0.15
232.00	234.00	411254	CORE_HALF	447.77	14	5.53	3.73	62.8	7.3	0.206	9900	-0.005	0.08	0.3	0.18
234.00	236.00	411255	CORE_HALF	1600.64	54.4	18.61	4.05	70.4	10.2	0.797	12000	0.009	0.09	0.33	0.58

236.00	238.00	411256	CORE_HALF	414.04	11.5	59.59	3.75	72.8	10.8	0.246	13100	-0.005	0.09	0.39	0.29
238.00	240.00	411257	CORE_HALF	952.58	47.1	6.15	3.05	63.6	10.5	0.609	11600	-0.005	0.09	0.32	0.39
240.00	242.00	411258	CORE_HALF	257.45	12	4.25	3.81	68	8.6	0.173	14100	0.005	0.07	0.3	0.21
242.00	244.00	411259	CORE_HALF	629.28	21.3	8.98	3.65	66.1	10.5	0.409	6800	-0.005	0.17	0.4	0.39
244.00	246.00	411261	CORE_HALF	1054.21	43.3	21.25	3.93	59.2	8.8	0.64	6400	0.007	0.1	0.4	0.38
246.00	248.00	411262	CORE_HALF	228.08	7.5	1.33	3.03	52.2	10	0.138	6500	0.005	0.09	0.66	0.11
248.00	250.00	411263	CORE_HALF	355.31	7.6	2.62	3.81	48.9	12.2	0.229	2200	-0.005	0.16	0.75	0.14
250.00	252.00	411264	CORE_HALF	238.68	6.3	7.55	3.91	61.9	10.4	0.162	4600	-0.005	0.3	0.48	0.17
252.00	254.00	411265	CORE_HALF	288.02	14.6	5.75	4.84	54.4	10.6	0.188	1300	0.005	0.17	0.45	0.22
254.00	256.00	411266	CORE_HALF	229.56	4.6	0.56	1.98	45.2	6.2	0.193	3800	-0.005	0.06	0.33	0.09
256.00	258.00	411267	CORE_HALF	207.69	5.7	4.32	1.95	51.3	5.9	0.171	4900	0.007	0.09	0.33	0.18
258.00	260.00	411268	CORE_HALF	1352.05	31.7	16.72	3.81	58.4	8.8	0.734	7000	-0.005	0.16	0.51	0.55
260.00	262.00	411269	CORE_HALF	1082.8	29	38.9	4.41	56.3	10.4	0.623	7800	-0.005	0.24	0.51	0.56
262.00	264.00	411270	CORE_HALF	1404.44	47.5	8.95	4.9	53.5	10.8	0.636	5000	-0.005	0.1	0.58	0.41
264.00	266.00	411271	CORE_HALF	526.81	13	6.46	5.62	77.8	12.3	0.341	8300	0.005	0.13	0.79	0.31
266.00	268.00	411272	CORE_HALF	325.05	10.1	1.85	3.7	52.8	10.2	0.187	7500	-0.005	0.13	0.57	0.26
268.00	270.00	411273	CORE_HALF	560.21	10.2	2.35	3.89	52	8.6	0.265	4400	0.005	0.08	0.55	0.33
270.00	272.00	411274	CORE_HALF	1066.08	28.2	10.49	3.75	65	7	0.565	8900	0.005	0.18	0.39	0.43
272.00	273.41	411275	CORE_HALF	429.02	12.3	1.31	3.58	58.1	6.7	0.249	12900	-0.005	0.46	0.38	0.4

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DRILL HOLE LOG

RZ06_01

Collar

Hole ID	RZ06_01	*Hole type*	DD		*Drilling company*	*Grid ID*	NAD83_UTM_10		
DataSet	GXL_REDTON_2006	*Depth*	273.71	m	*Geologist*	*Easting*	354010.00	*RL*	1583.00 m
Prospect	Red Zone	*Commenced*	28/06/2006		*Survey Method*	*Northing*	6171695.00		
Tenement		*Completed*	8/07/2006		*Notes*				

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
17.60	m	108.3	NAD83_UTM	-50.8	CAMERA	1/10th mag field - 16.5 NT
90.80	m	107.0	NAD83_UTM	-51.6	CAMERA	1/10th mag field - 14.1 NT
212.75	m	107.9	NAD83_UTM	-52.1	CAMERA	1/10th mag field - 12.5 NT

Lithology

Logged by: Mclean_Trott

			Lith 1					*Lith 2*						
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	3.66	CASE												
3.66	5.57	IID	M		eq		100							
5.57	9.32	IIQP	C	pp	pp	xe	100							
9.32	15.90	IID	M		eq		100							
15.90	18.30	VIAP	M	pp	pp		100							
18.30	50.72	IID	M		eq		100							Bleach zone 32-33 metres.
50.72	52.37	VFRD	M	pp	pp		100							
52.37	55.04	IID	M	at	eq		100							
55.04	56.96	VIAP	M	pp	pp		100							
56.96	62.33	VIB	F	at	ma	mx	60	IID	M	at	eq		40	
62.33	66.54	VIAP	M	at	pp		100							
66.54	90.73	IID	M		eq	xe	90	VIA	F	bs	ap	ma	10	
90.73	94.90	IIIP	M	qf	eq	cr	100							
94.90	102.75	IID	M		eq	xe	90	VIA	F	bs	ap	ma	10	

102.75	127.01	IIIP	M	qf	cr	pp	100	Abundant fine to medium grained feldspar laths in quartz matrix-creates the appearance of a crowded porphyry.
127.01	128.78	IIDP	C	pp	pp	xe	100	
128.78	144.12	IID	M	at	cr		100	
144.12	213.44	IIIP	M	at	pp	xe	100	
213.44	260.25	IIIP	M	qf	pp	eq	100	
260.25	268.22	IFD	M	pp	pp	cr	100	
268.22	273.71	IIIP	M	at	pp		100	

Lithology

Logged by: Mclean_Trott

From	*To m*	*Description*
0.00	3.66	
3.66	5.57	weakly weathered on fractures, med grained diorite, weakly epidote altered, moderately fractured with trace py/cpy in rare qz veinlets.
5.57	9.32	strongly weathered/altered, ferruginous - limonitic replacement of phenos and groundmass. Some qz-goethite(after py) veins/fractures. Strongly carbonated
9.32	15.90	weakly weathered on fractures, med grained diorite, weakly epidote altered, moderately fractured with trace py/cpy in rare qz veinlets.
15.90	18.30	Feldspar-porphyritic rock in a dark, fine-grained matrix. Phenocrysts replaced by epidote. Fine grained disseminations of pyrite associated with epidote.
18.30	50.72	Diorite, variably epidote/k-feldspar altered. Pyrite common in fractures and veins, trace to weak chalcopyrite.
50.72	52.37	Feldspar-porphyritic rock in a reddish-brown, fine-grained matrix. Feldspar phenos have generally been altered to epidote. A subtle fabric is present in this unit (flow banding?). Unit is very similar to interval from 15.9 to 18.3, however has a more altered appearance. Unit appears to be sulphide-poor. Silicic andesite/rhyolite?
52.37	55.04	Diorite, variably epidote/k-feldspar altered. Pyrite common in fractures and veins, trace to weak chalcopyrite. Unit contains an interval from 53.76 to 54.20 of fine-grained, dark material, possibly a raft/xenolith.
55.04	56.96	Feldspar-porphyritic rock in a dark, fine-grained matrix. Phenocrysts replaced by epidote. Variably epidote veined, as well as quartz-carbonate veined.
56.96	62.33	Interval appears to be a mixed zone, dominated by fine-grained, black, heavily epidote altered material, with subordinate amounts of dioritic material. The bottom 0.6 m of the interval is epidotized to the extent that it has the appearance of being a matrix-supported breccia, wherein the breccia fragments are comprised of the fine-grained black material. It is unclear whether the finer-grained material is merely a form of altered diorite, or if it represents several xenoliths suspended in dioritic material.
62.33	66.54	Feldspar-porphyritic rock in a dark, fine-grained matrix. Variably altered, ranging from relatively low grade epidotization of feldspar phenocrysts to heavy hematization and/or brecciation.
66.54	90.73	Predominantly dioritic interval, with occasional rafts/xenoliths of fine-grained, black material (andesite/basaltic andesite?). Lower contact of interval is characterized by a goethite-cemented breccia approximately 10 cm wide.
90.73	94.90	A leucocratic quartz monzodiorite, displaying a subtle fabric locally. Has a greenish tint, possibly due to chloritic alteration. Rock may represent a chlorite-albite-altered diorite. Lower contact is highly gradational, with mafic mineral content increasing gradually until the rock has a dioritic appearance.
94.90	102.75	Predominantly dioritic interval, with occasional rafts/xenoliths of fine-grained, black material (andesite/basaltic andesite?). Lower contact is gradational, with dioritic material gradually becoming more leucocratic/albitic.
102.75	127.01	A leucocratic quartz monzodiorite, displaying a subtle fabric locally. Has a greenish tint, possibly due to chloritic alteration. Rock may represent a chlorite-albite-altered diorite. This rock is generally nonmagnetic, in contrast to the diorite seen previously, which is generally moderately magnetic. Beginning at 112.5 m depth, the rock gradually becomes more potassic, whilst maintaining its textural continuity, representing a gradual change from albitic to potassic alteration with depth. Black, anastomozing veinlets are seen locally, probably representing microcrystalline hydrothermal tourmaline veining (nonmagnetic).
127.01	128.78	A strongly porphyritic, dark gray unit with coarse phenocrysts (plagioclase-dominant) and fine grained groundmass. Unit is similar to overlying porphyritic units (VIAP) but is lighter in colour, and displays a possible chilled margin at the lower contact, suggesting it is a shallow-level dyke rather than a rafted volcanic.
128.78	144.12	A variably altered dioritic unit, displaying a variety of alteration assemblages and veining styles.

144.12	213.44	Interval is a strongly, heterogeneously altered sequence of monzodioritic rocks. Alteration has proceeded to the extent where determination of protolith is difficult in places- other lithologies may be present in this sequence, but for lack of clearly defined textural/mineralogical boundaries this interval has been grouped as a monzodioritic sequence. It remains to be seen whether the monzodioritic rocks and dioritic rocks in this hole represent two distinct igneous lithologies, or are merely altered variations of the same material. The gradational nature of observed contacts, and some textural similarities suggest that the latter is the case. Portions of the monzodioritic material which are least altered display a texture reminiscient of a crowded porphyry, with medium grained plagioclase laths bound in a fine-grained quartzofeldspathic matrix. Some finer-grained intervals are present in the core, likely in some cases to represent rafted, altered volcanic rocks, although several of these finer-grained sequences contain relict plagioclase phenocrysts, suggesting a highly altered monzodiorite in which the majority of larger crystals have been broken down into finer-grained counterparts. These fine-grained, altered rocks are particularly prevalent in the lower portion of the interval.
213.44	260.25	Interval is dominated by albitic quartz monzodiorite, resembling a crowded porphyry, with medium-grained plagioclase laths bound in a quartzofeldspathic matrix. This interval most likely represents a less altered equivalent to the overlying unit, wherein the dominant alteration style is albitic. The unit is generally sulphide-poor, although sulphides (mainly pyrite) are present locally, generally associated with veining.
260.25	268.22	Interval represents the least altered version of the previously referenced monzodiorite and quartz monzodiorite. Texturally, these two lithologies are quite similar, evoking the appearance of a crowded plagioclase porphyry. However, this particular rock type is more mafic in character, with a darker matrix (contains fine-grained mafic minerals), and occasional irregular amphibole phenocrysts. Mafic minerals in the albitized equivalent of this rock type have been obliterated by alteration processes, creating a deceptively felsic-looking rock. This interval is representative of a more protolithic mineralogical equivalent for the potassic and albitic monzodioritic rock types.
268.22	273.71	This unit is an albitically altered monzodiorite, likely to be the albitic equivalent of the overlying granodiorite. Local potassic alteration

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
0.00	5.57	WK	EZ	vsel	TR	CN	ana	TR				Interval displays trace epidote along fractures/veins, as well as networks of calcitic veining, +/- quartz
5.57	9.32	MOD	CN	diss	MOD							moderate to strong disseminated carbonate- resulting in increased weather (near surface iron oxides)
9.32	15.90	STG	EZ	fsel	MOD	KF	fsel	WK	MT	ff	MOD	moderate epidote, k-feldspar, pyrite/chalcopyrite, magnetite in fractures and fracture selvages.
15.90	18.30	MOD	EZ	rep	MOD							epidote replacing feldspar phenocrysts
18.30	31.60	STG	EZ	fsel	MOD	KF	fsel	MOD	MT	ff	MOD	moderate epidote, k-feldspar, pyrite/chalcopyrite, magnetite in fractures and fracture selvages.
31.60	33.00	STG	BLE	pv	STG							bleached, altered material, relict diorite texture still present.
33.00	34.30	STG	KF	pv	MOD	MT	ff	MOD	EZ	vsel	WK	increased k-feldspar on margin of fault.
34.30	50.72	MOD	EZ	vsel	MOD	MT	ff	MOD	KF	fsel	WK	overall slightly less altered than intervals above
50.72	52.37	MOD	KF	pv	MOD	EZ	vsel	WK	EZ	rep	WK	Unit has a pinkish-brown tinge, suggesting pervasive K-feldspar alteration. Minor epidote is present in the form of veins/selvages. A small portion of the feldspar phenocrysts have been replaced by epidote, although many phenos appear to remain as feldspar. Interval is siliceous in appearance.
52.37	55.04	MOD	EZ	vsel	WK	KF	vsel	WK	MT	ff	WK	Alteration of this unit is generally very low grade, consisting predominantly of epidote veins/selvages, occasionally hosting pyrite/chalcopyrite. A couple of thicker veins are present, up to 7 cm thick, wherein the assemblage consists of epidote, K-feldspar, minor carbonate, and chalcopyrite.
55.04	56.46	MOD	EZ	rep	MOD	EZ	vsel	MOD				Porphyritic lithology wherein the feldspar phenocrysts have been replaced almost entirely by epidote. Additionally, epidote veins/selvages are present.
56.46	61.33	STG	EZ	vsel	MOD	KF	pv	WK	MT	ff	WK	Interval of varying levels of epidote alteration/veining. Some of the more dioritic portions of the interval have an overall pinkish tinge, suggesting weak pervasive K-feldspar alteration. Minor magnetite present in healed fractures.
61.33	62.33	INT	EZ	vsel	INT							Interval of intense epidote alteration. Degree of alteration appears to increase with depth, resulting in a brecciated appearance toward the bottom of the interval..

62.33	63.30	STG	HM	pv	STG	KF	pv	WK	BLE	pv	WK	Interval is intensely hematized locally. The upper portion of the interval has the appearance of a hematitic matrix breccia that grades upward rapidly into the overlying epidote matrix breccia. Other portions of the core appear less hematitic and more potassic, with possibly some minor bleaching.
63.30	64.04	WK	EZ	rep	WK							Alteration of this unit is very weak, in comparison with surrounding units, consisting of replacement of feldspar phenocrysts with epidote.
64.04	66.14	STG	HM	pv	STG	BLE	pv	WK	OX	fsel	MOD	Alteration seen in this interval is similar to interval from 62.33 to 63.3 m, consisting of local pervasive hematization of protolith, with occasional hematitic "breccia" intervals. Minor amounts of bleaching are present, particularly at the bottom of the unit. Goethitic/limonitic intervals are present, generally associated with fractures.
66.14	66.54	WK	EZ	rep	WK							Alteration of this unit is very weak, particularly in comparison with overlying unit, consisting of replacement of feldspar phenocrysts with epidote.
66.54	90.73	MOD	EZ	vsel	MOD	KF	fsel	WK	MT	ff	MOD	Epidote vein selvages seen sporadically throughout, as well as minor K-feldspar alteration along fractures. Magnetite fracture-fill in healed fractures is observed.
90.73	94.90	MOD	AL	pv	MOD	CH	pv	WK				Although this may be a primary rock, gradational contacts with surrounding diorite suggest that this rock type was derived by albite-chlorite alteration of primary diorite. Interestingly, this unit contains little or no epidote or carbonate alteration, although minor quartz veinlets are present.
94.90	102.75	MOD	EZ	vsel	MOD	KF	fsel	WK	MT	ff	WK	Epidote vein selvages seen sporadically throughout, as well as minor K-feldspar alteration along fractures. Minor magnetite fracture-fill in healed fractures is observed.
102.75	112.46	MOD	AL	pv	MOD	CH	pv	WK				Although this may be a primary rock, gradational contacts with surrounding diorite suggest that this rock type was derived by albite-chlorite alteration of primary diorite. Interestingly, this unit contains little or no epidote or carbonate alteration, although minor quartz veinlets are present.
112.46	120.03	MOD	KF	pv	MOD	AL	pv	WK	CH	pv	WK	This interval seems to be a more potassic variation of the overlying albitic material. The upper boundary of this unit is demarcated by a gradational change from albitic to potassic alteration with depth. Interestingly, this unit contains little or no epidote or carbonate alteration, although minor quartz veinlets are present.
120.03	127.01	MOD	KF	pv	STG	AL	pv	WK				This interval represents a strongly potassically altered version of the overlying material. The extent of the kspar alteration seems to subtly increase with depth.
127.01	128.78	WK	BLE	pv	WK							Unit is relatively unaltered suggesting late stage emplacement.
128.78	130.50	STG	KF	pv	MOD	HM	vsel	MOD				Unit features irregular haematitic/K-spar alteration both pervasively and as vein selvage.
130.50	134.17	MOD	KF	pv	WK	EZ	vsel	WK	MT	fsel	MOD	Unit is a variably altered diorite in which alteration is dominated by magnetite with subordinate amounts of k-spar and epidote
134.17	135.22	STG	EZ	vsel	MOD	KF	vsel	MOD	CN	ana	WK	Unit is strongly altered by epidote and k-spar and is characterised by the presence of carbonate in anastomosing micro-fractures
135.22	144.12	MOD	EZ	vsel	WK	KF	pv	WK				weak to moderately altered diorite
144.12	144.54	MOD	AL	pv	MOD	CH	vsel	WK	KF	pv	WK	Interval dominated by albitization, with minor chlorite and trace k-feldspar alteration. Epidote absent.
144.54	156.15	STG	KF	pv	MOD	HM	vsel	WK	CH	vsel	WK	Similar lithology to the above interval, however the dominant alteration style has become potassic, with local, vein-related patches of earthy hematite, and minor chlorite-quartz veining. Epidote absent.
156.15	158.49	MOD	AL	pv	MOD	HM	vsel	WK	CH	pv	WK	Pervasive albitization of protolith has created a leucocratic rock, with a greenish tinge caused by weak pervasive chloritic alteration. Earthy hematite present as vein selvage and fracture-fill. Epidote absent.
158.49	164.95	MOD	KF	pv	MOD	HM	vsel	WK	EZ	vsel	WK	Interval dominated by pervasive K-feldspar alteration, with minor hematite as vein selvage, and trace epidote as vein selvage. Interval contains minor patches of albitization rather than k-spar.
164.95	166.96	MOD	AL	pv	MOD	CH	pv	WK	HM	vsel	WK	Alteration in this interval dominated by albite, with minor amounts of chloritization, lending it a pale green hue. Local hematite along veins.

166.96	168.09	STG	KF	pv	MOD	HM	vsel	MOD	EZ	vsel	WK	Interval of relatively strong alteration, dominated by a mixture of hematitic and potassic alteration, lending the core a dark brownish-red tint. Minor epidote veining.
168.09	168.36	STG	KA	pv	STG	HM	pv	WK				Interval of kaolinitization of protolith. Local hematitic staining.
168.36	171.08	MOD	KF	pv	MOD	HM	pv	MOD	EZ	vsel	WK	Interval of moderate to strong potassic and hematitic alteration. Minor epidote veining, particularly in the lower portion of the interval.
171.08	175.93	MOD	AL	pv	MOD	HM	vsel	WK	KF	vsel	WK	Unit is dominated by albitization. Hematite locally relatively common in microfractures, with vein selvages of k-feldspar/hematite. Minor chloritization (pervasive), and minor local epidote, fracture-related.
175.93	180.84	STG	HM	vsel	MOD	KF	pv	MOD	EZ	vsel	WK	Heterogeneously altered unit, generally dominated by hematitic and potassic alteration, although several styles are observed to a lesser degree, including chloritic veining, epidotization, and local albitization. Interval is altered to the extent that protolith is indeterminate, although assumed to be diorite/monzodiorite. Most primary texture and mineralogy has been overprinted by multiple phases of alteration, reducing the rock to a fine-grained, altered hodgepodge.
180.84	183.72	MOD	AL	pv	MOD	KF	pv	WK	CH	vsel	WK	Another heterogeneously altered interval, altered to a lesser degree than the overlying material. Dominant alteration is albitic, although patches of potassically altered material are present, as well as chloritic veining.
183.72	195.21	STG	KF	pv	MOD	HM	vsel	MOD	AL	pv	WK	Heterogeneous interval, dominated by potassic/hematitic alteration. Contains several small zones of albitic-altered material. Alteration has proceeded to the extent that determination of protolith is problematic, although some relict igneous textures have been preserved locally, generally in the albitic material.
195.21	202.45	STG	EZ	vsel	MOD	HM	vsel	MOD	MT	pv	MOD	Fine-grained, highly epidotized zone, with frequent hematite, generally along microfractures. Unit is moderately magnetic.
202.45	213.44	MOD	KF	pv	WK	CH	vsel	MOD	AL	pv	MOD	Heterogeneous interval, generally dominated by albitic alteration. Contains several small zones of potassic material. Chloritic veining is commonplace. Hematitic alteration and epidote seen in minor amounts.
213.44	260.25	MOD	AL	pv	MOD	CH	vsel	WK	CH	pv	WK	Unit is a large sequence of pervasively albitic igneous rocks. Chlorite (+/- quartz) veining is relatively commonplace. The interval commonly has a greenish tint, attributed to weak pervasive chloritization. Other alteration features are present in minor amounts, however albite and chlorite are by far the most prevalent alterations noted. The lower portion of the unit shows a greater proportion of potassic alteration.
260.25	268.22	WK	KF	pv	WK	HM	fsel	WK				Unit is relatively unaltered, seemingly most representative of protolith for the variously altered igneous suite observed in this drillhole. The most significant alteration in this interval is potassic, although this is relatively minor. The potassic (kspar) alteration seems most prevalent at the top and bottom of the interval.
268.22	273.71	STG	AL	pv	STG	CH	pv	MOD	KF	pv	WK	Interval is dominated by albite and chlorite altered rocks. Minor potassic alteration.

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
3.66	5.40		ZVQC	WS	1	2				1								Thin, wispy quartz-carbonate veinlets, no dominant orientation.
5.40	26.00		ZVQ	STR	1	5	20	ZVO	FRV	1	1	40	ZVE	STR	0.5	5	80	high angle qz-py-cpy veins, broadly spaced. Weathered near surface to qz-goeth
26.00	31.60		ZVE	STR	1	3		ZVO	FRV	1	1	40						Randomly oriented epidote +/- quartz veinlets, occasionally with pyrite, ranging from very thin (<1 mm to thicker, more substantial veinlets (5 mm)). Fracture-fill magnetite veinlets also seen.

33.00	48.92	ZVO	FRV	2	1	40	ZVE	STR	2	3						Randomly oriented epidote +/- quartz veinlets, occasionally with pyrite, ranging from very thin (<1 mm to thicker, more substantial veinlets (5 mm)). Fracture-fill magnetite veinlets also seen.
48.92	49.40	ZVE	STR	5	3	30	ZVQC	STR	5	2	10					This interval represents a strongly epidote +/- quartz -veined intersection, with subordinate amounts of quartz-carbonate veining, locally mineralized.
49.40	50.72	ZVE	STR	0.5	3		ZVQC	STR	0.5	2	10	ZVO	FRV	0.5	1	A relatively weakly veined interval, characterized by rare epidote, in patchy stringers, rare magnetite veins, and rare quartz-carbonate veins, locally mineralized.
50.72	52.37	ZVE	STR	0.5	3		ZVC	STR	0.5	1						Weakly veined interval, similar to overlying interval, except for the absence of magnetite veining. Thin, dark-coloured veins are present, similar to the magnetite veining seen previously, however this material is weakly magnetic to nonmagnetic.
52.37	55.04	ZVQC	STR	1	2	10	ZVE	STR	1	60	45	ZVO	FRV	0.5	1	Interval is characterized by the presence of 2 thick veins of ep-qtz-kspar-carb-cpy.
55.04	56.96	ZVE	STR	1	2		ZVC	STR	1	1	25					Interval is characterized by the absence of magnetite veining. Thin carbonate veins occasionally are accompanied by hematite.
56.96	58.68	ZVE	STR	0.5	1	80	ZVC	STR	0.5	1		ZVO	FRV	0.5	1	Narrow epidote veinlets occasionally mineralized with flecks and blebs of chalcopyrite.
58.68	62.33	ZVE	STK	6	4		ZVC	STR	6	1						Zone of intense epidote veining. Rare chalcopyrite. Minor carbonate veining, crosscutting the epidote.
62.33	66.14	ZVQC	STR	1	2		ZVO	STK	1	4						Zone is characterized by absence of epidote, aside from a small segment of porphyrytic material. Hematite veining is presence, locally very strongly.
66.14	90.73	ZVO	FRV	2	1	45	ZVE	STR	2	3						Randomly oriented epidote +/- quartz veinlets, occasionally with pyrite, ranging from very thin (<1 mm to thicker, more substantial veinlets (5 mm)). Fracture-fill magnetite veinlets also seen.
90.73	94.90	ZVQ	WS	1.5	1				1.5							Interval is relatively unveined. Veining consists of quartz (with possible microcrystalline feldspar), in random orientations. Unmineralized.
94.90	102.75	ZVO	FRV	1	1	45	ZVE	STR	1	3		ZVQC	STR	1	2	38	Interval features randomly oriented quartz-epidote veining, magnetite veining, and a few copper mineralized quartz-carbonate veins.

102.75	127.01	ZVT	STR	1.5	3	53	ZVQ	STR	1.5	5	27	ZVCL	WSP	0.5	1.5	31	Interval is characterized by the presence of black, nonmagnetic, anastomozing veinlets of what is probably microcrystalline tourmaline. These veins are in some cases mineralized with pyrite +/- chalcopyrite. Interval displays thin local quartz veins, locally with greenish selvages (chlorite?). Some veinlets of greenish material, possibly chlorite, are also present in the rock. A well-defined set of quartz veins is seen, at roughly 27 degrees to the core axis. These quartz veins locally contain pyrite, and are seen roughly between 109 and 112.46 m depth.
127.01	128.78	ZVQ	STR	1	1				1								Interval is characterised by thin quartz veinlets
128.78	130.45	ZVT	STR	0.5	2		ZVC	WSP	0.5	1.5		ZVO	STR	0.5	2		Unit is more strongly veined than surrounding units. No prefered orientation apparent.
130.45	134.18	ZVQ	WS	0.5	1		ZVO	FRV	0.5	2							Unit is characterised by magnetite fracture veining.
134.18	135.56	ZVE	STR	2	3		ZVT	STR	2	1.5							Unit is more strongly veined than surrounding units. No prefered orientation apparent.
135.56	143.81	ZVQ	STR	1	4		ZVT	STR	1	2		ZVO	STR	0.5	1		Unit is veined by multiple vein phases. Mineralisation dominated by pyrite is present in several phases.
143.81	156.15	ZVT	STR	1	3		ZVQ	STR	1	2		ZVQC	STR	2	1		Unit is veined by multiple vein phases, predominated by quartz-carbonate. Black, aphanitic tourmaline veins are present, as are quartz-chlorite veins. Local hematite veining.
156.15	162.00	ZVQ	STR	0.5	2		ZVQC	STR	0.5	1		ZVO	FRV	0.5	3		Unit is characterised by lack of tourmaline or magnetite veining. Commonplace quartz-carbonate veining, with subordinate amounts of hematitic and chloritic veining.
162.00	167.34	ZVT	STR	1	3		ZVQ	STR	1	2		ZVQC	STR	2	1		Unit is veined by multiple vein phases, predominated by quartz-carbonate. Black, aphanitic tourmaline veins are present, as are quartz-chlorite veins. Local hematite veining.
167.34	170.28	ZVO	WS	4	0.5		ZVQC	STR	4	1							Interval is pervasively veined by tiny hematitic veins. Minor quartz-carbonate veining.
170.28	183.72	ZVT	STR	1	3		ZVQC	STR	1	1							Unit is veined by multiple vein phases, predominated by quartz-carbonate. Black, aphanitic tourmaline veins are present. Local hematite veining, and quartz-chlorite veining.
183.72	202.45	ZVO	WS	3	0.5		ZVQC	STR	3	1							Interval is pervasively veined by tiny hematitic veins, although intervals of lesser-veined material are present. Minor quartz-carbonate veining.

202.45	273.71	ZVQ	STR	1.5	3	ZVT	STR	1.5	3	ZVQ	WSP	0.5	1

Interval is generally less veined than the overlying unit. Chlorite-quartz veinlets are most common, with occasional tourmaline and quartz-feldspar veinlets observed. The upper portion of the interval is more intensely veined than the rest. Other vein styles are observed in lesser amounts, including minor quartz veins +/- sulphides.

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
3.66	5.57		MAL	ff	1
			PY	ff	1
			CCP	ff	0.5
			PYOX	ff	0.5
5.57	9.32		PYOX	ff	1
9.32	15.90	Py/Cpy in quartz veinlets with some disseminated and fracture-filling pyrite.	PY	vein	1
			CCP	vein	0.5
			PY	diss	0.5
15.90	18.30	Trace fine-grained disseminated pyrite.	PY	diss	0.2
18.30	31.60	Py/Cpy in quartz veinlets with some disseminated and fracture-filling pyrite.	PY	vein	1
			PY	diss	0.5
			CCP	vein	0.3
33.00	34.40	Mineralization appears to be associated with K-feldspar altered material.	PY	vein	1
			CCP	vein	0.5
			PY	diss	0.5
34.40	39.36	sulphides seen as noted previously, however, there is a decreased density of mineralized fractures/veinlets	PY	vein	0.5
			CCP	vein	0.2
			PY	diss	0.2
41.77	55.04	Sulphides as noted previously. The lower portion of the interval features a quartz-carbonate vein with sizable blebs of chalcopyrite.	PY	vein	0.5
			CCP	vein	0.3
			PY	diss	0.2
55.04	56.96	Fine-grained blebs of sulphide found hosted by epidote-quartz veins. Little or no disseminations seen, perhaps due to less permeable nature of country rock lithology.	CCP	vein	0.2
			PY	vein	0.2
56.96	90.63	Zone of variable mineralization. The common theme appears to be fracture/vein control, with disseminations present in the rock, but generally in close proximity to mineralized fractures/veins. A subtle trend toward decreasing sulphide content with depth may be present. A 1.5 cm wide stringer of chalcopyrite cuts the core nearly at right angles at 79.10 m depth, apparently hosted by a quartz-epidote vein.	PY	vein	0.3
			CCP	vein	0.2
			PY	diss	0.2
94.15	100.19	Zone of variable mineralization. The common theme appears to be fracture/vein control, with disseminations present in the rock, but generally in close proximity to mineralized fractures/veins.	PY	vein	0.3
			CCP	vein	0.2

			PY	diss	0.2
100.19	102.75	Zone of somewhat higher sulphide content- common disseminated and vein-related pyrite, with subordinate amounts of chalcopyrite.	PY	diss	0.5
			PY	vein	0.5
			CCP	vein	0.3
102.75	127.01	Zone of poor mineralization. Sulphides observed are generally found in tourmaline veins.	CCP	vein	0.2
			PY	diss	0.2
			PY	vein	0.2
127.01	128.78	Porphyritic dyke is poorly mineralised. Sulphides are disseminated but probably fracture controlled.	PY	diss	0.2
128.78	133.85	The strongest mineralisation in this interval appears to be hosted by quartz veins, although disseminated mineralisation is also present, generally in conjunction with mineralised veins or fractures	PY	vein	0.3
			CCP	diss	0.2
			PY	diss	0.2
133.85	144.12	Zone of more pervasive mineralization, dominated by disseminated pyrite.	PY	diss	0.7
			PY	vein	0.5
			CCP	diss	0.3
144.12	202.08	Poorly mineralized zone. Rare, trace pyrite in fractures and/or disseminated. Occasional blebs of pyrite with intergrowths of chalcopyrite seen in veins. In general, it seems that the rocks referred to as "monzodiorite" contain less sulphides than their dioritic counterparts.	PY	diss	0.2
			PY	vein	0.2
			CCP	vein	0.1
202.08	205.44	Zone of stronger mineralisation generally associated with veins. Possible molybdenite.	PY	diss	0.5
			PY	vein	0.5
			CCP	vein	0.3
205.44	231.90	Zone of moderate mineralization, wherein the dominant mineralization is disseminations of very fine grained pyrite (these may actually be mineralized microfractures). Minor veining present. Trace chalcopyrite.	PY	diss	0.5
			CCP	diss	0.2
			PY	vein	0.2
231.90	240.50	zone mineralized to a slightly greater extent than the overlying zone. Pyrite>>chalcopyrite.	PY	diss	0.4
			PY	vein	0.4
			CCP	diss	0.3
240.50	246.00	Zone of relatively high chalcopyrite:pyrite tenor. Cpy is almost equal to pyrite.	CCP	diss	0.5
			PY	diss	0.3
			PY	vein	0.2
246.00	273.71	Zone of weak mineralization. Trace sulphides.	CCP	diss	0.2
			PY	vein	0.2

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
3.66	15.90		ZRO	MOD	55							Moderate to strong fracturing, most fractures well healed. Often contain magnetite. Generally >20 fractures per metre.
15.90	18.30		ZRO	WK	55							Porphyritic material- somewhat less fractured than the surrounding dioritic material.
18.30	32.10		ZRO	MOD	55							Moderate to strong fracturing, most fractures well healed. Often contain magnetite. Generally >20 fractures per metre.

32.10	32.50	ZFG	WK	40							Fault zone- contains some clayey gouge material.
32.50	47.64	ZRO	MOD	55							Moderate to strong fracturing, most fractures well healed. Often contain magnetite. Generally >20 fractures per metre.
47.64	47.88	ZRO	STG	47							Small interval of strongly fractured rock, fractures generally coated with iron oxides.
47.88	50.72	ZRO	MOD	55							Moderate to strong fracturing, most fractures well healed. Often contain magnetite. Generally >20 fractures per metre.
50.72	52.37	ZRO	WK	57							Low density of open, relatively clean fractures. No magnetitic fractures present.
52.37	55.04	ZRO	MOD	30							Moderate fracturing, most fractures well healed. Often contain magnetite or quartz-carbonate. Generally >15 fractures per metre.
55.04	56.96	ZRO	MOD	40							Moderate fracturing, some fractures healed with quartz-carbonate (no obvious magnetite).
56.96	61.33	ZRO	MOD	50							Moderate to strong fracturing, most fractures well healed. Often contain magnetite. Generally >20 fractures per metre.
61.33	62.86	ZFC	INT	58							Zone of cataclasis and brecciation. Healed with epidote and/or hematite.
62.86	64.04	ZRO	WK	60							Interval of relatively structurally sound porphyritic material, bounded by intensely structurally impacted rocks.
64.04	66.14	ZFC	STG	60							Zone of cataclasis and brecciation. Less intense than the previous cataclastic zone. Healed with hematite locally, locally displaying goethitic/limonitic alteration.
66.14	90.35	ZRO	MOD	55							Moderate to strong fracturing, most fractures well healed. Often contain magnetite. Generally >20 fractures per metre.
90.35	90.73	ZFC	STG	45							Zone of cataclasis and brecciation. Upper portion of unit displays a fabric (mylonitic?) while the lower portion of the interval consists of a cataclastic breccia, cemented with goethitic/limonitic material.
90.73	94.90	ZRO	MOD	31							Interval of weakly to moderately fractured rock. Open fractures, generally containing iron oxide.
94.90	102.75	ZRO	MOD	28	ZRO	MOD	37	ZRO	WK	44	Interval of moderately fractured core, sometimes healed with magnetite. Open fractures are generally coated with iron oxides.
102.75	116.81	ZRO	MOD								Interval of weak to moderate fracturing. Dominant lithology is quartz monzodiorite- the implication is that this lithology is more structurally sound than the dioritic lithologies. Incipient magnetite-filled fractures absent, in contrast with the diorite.
116.81	127.05	ZRO	STG								Interval displays moderate to strong fracturing, with multiple sets of healed fractures, commonly displaying offsets and displacements.
127.05	128.78	ZRO	WK								Porphyritic material, substantially less fractured than the surrounding material (younger?).
128.78	130.40	ZRO	INT								Intensely fractured zone, dominated by several episodes of healed fractures, showing complex offsetting relationships.
130.40	165.46	ZRO	MOD								Zone of moderate to strong fracturing. Multiple phases of healed fractures.
165.46	165.70	ZFX	INT								Zone of quartz-infilled breccia. Cataclastic/hydrothermal?
165.70	165.80	ZFC	INT								Zone of goethitic/limonitic altered rocks- likely somehow related to the overlying zone of cataclasis/silicification.
165.80	167.40	ZRO	MOD								Zone of moderate to strong fracturing. Multiple phases of healed fractures.
167.40	168.09	ZRO	STG								Strong interval of microfractures healed with hematite.
168.09	168.36	ZFG	STG								Strongly kaolinitized rock, possibly fault-related.
168.36	170.40	ZRO	MOD								Moderately fractured zone characterized by the abundance of hematite-sealed microfractures. Several fracture sets at work, in varying orientations.
170.40	175.93	ZRO	MOD								Moderately fractured zone featuring multiple fracture orientations.
175.93	202.45	ZRO	STG								Moderately to strongly fractured interval, characterized by irregular intervals of strongly hematitic microfractured material. Multiple fracture sets, showing various interrelationships at work.

202.45	211.76	ZRO	MOD	Moderately fractured unit, featuring multiple annealed fracture sets, often lined with chloritic material and/or quartz.
211.76	225.38	ZRO	WK	Weak to moderate fracturing, featuring several phases of annealed fractures, often with chloritic, quartzose, or tourmalinitic fracture fill.Local open goethitic fractures.
225.38	231.19	ZRO	STG	Interval is dominated by open goethitic/limonitic fractures, generally randomly oriented. Multiple healed fracture sets are also present.
231.19	231.48	ZFG	STG	Interval is highly kaolinitised, and may represent clay fault-gouge.
231.48	252.31	ZRO	WK	Weak to moderate fracturing, featuring several phases of annealed fractures, often with chloritic, quartzose, or tourmalinitic fracture fill.Local open goethitic fractures.
252.31	252.55	ZFC	STG	Fractured, brecciated zone. Most likely represents minor faulting.
252.55	253.66	ZRO	WK	Weak to moderate fracturing, featuring several phases of annealed fractures, often with chloritic, quartzose, or tourmalinitic fracture fill.Local open goethitic fractures.
253.66	258.73	ZRO	STG	Core in this interval displays sections of intense open fracturing, with local clay alteration (possible fault gouge).
258.73	273.71	ZRO	WK	Weak to moderate fracturing, featuring several phases of annealed fractures, often with chloritic, quartzose, or tourmalinitic fracture fill.Local open goethitic fractures.

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
100.53	ZRO	0.5	47.0	280.0		60	236		open fracture, unmineralized, appears to be part of a minor set.
100.61	ZVC	3	30.0	198.0		25	146		quartz-carbonate-chalcopyrite vein
101.47	ZVC	4	42.0	62.0		72	331		Quartz-carbonate-pyrite vein
104.62	ZVC	3.5	20.0	245.0		59	190		quartz-goethite-carbonate vein
109.30	ZVS	0.5	61.0	12.0		67	293		tourmaline +/- chalcopyrite vein
109.99	ZVQ	2	26.0	170.0		27	87		quartz vein, pyrite mineralized. Several similarly-oriented veins seen in this area of the core.
111.69	ZVQ	0.5	23.0	325.0		81	75		quartz vein, unmineralized, part of a repeating set (some of which contain pyrite), offset by chloritic-hematitic veining.
116.10	ZVQ	0.5	8.0	310.0		73	55		quartz-pyrite vein
117.82	ZVO	2	26.0	63.0		85	341		tourmaline-hematite vein, +/- sulphides
127.01	SCI	0.2	42.0	5.0		86	291		contact between quartz monzodiorite and porphyritic dyke
128.78	SCI	0.2	52.0	165.0		9	10		Contact between porphyritic dyke and underlying material.
136.71	ZVO	3	58.0	310.0		63	260		Magnetite-epidote vein, +/- sulphides
137.62	ZVQ	1.5	58.0	73.0		55	325		quartz-pyrite vein
144.12	SCI	0.2	27.0	32.0		84	136		contact (?) between dioritic and monzodioritic material.
144.78	ZVQ	0.5	22.0	306.0		88	59		Early quartz vein (multiple offsets) with trace sulphide mineralization.
148.74	ZVO	0.3	46.0	297.0		68	246		Tourmaline +/- carbonate vein- part of a set.
150.45	ZVO	0.3	50.0	105.0		45	349		pyrite-mineralized tourmaline vein
152.04	ZVO	0.4	55.0	255.0		43	233		pyrite-mineralized chlorite vein
154.65	ZVO	0.1	37.0	48.0		82	324		thin set of tourmalinitic veins.
156.15	ZVO	4	28.0	34.0		85	137		Thick vein/conduit of quartz, calcite, and chlorite
158.78	ZVO	0.1	55.0	265.0		48	237		thin quartz-carbonate vein, part of a set with multiple similar veins.
161.79	ZVO	2.5	34.0	325.0		89	259		chlorite-hematite-carbonate veined zone, with large blebs of pyrite.
165.50	ZFC	24	55.0	235.0		32	225		Quartz-healed cataclastic breccia
171.40	ZVO	5	22.0	260.0		67	204		quartz-carbonate-hematite veined zone

174.05	ZRO	0.1	35.0	170.0	18	81	hematite-healed microfracture. Part of a set.
177.74	ZVO	3	33.0	250.0	53	206	quartz-carbonate-hematite veined zone
180.84	SCO	0.01	18.0	235.0	55	181	alteration contact?
184.29	ZVO	1.5	35.0	140.0	33	33	pyrite-mineralized quartz vein
187.97	ZVO	2	31.0	30.0	87	133	hematite vein
193.47	ZVO	1	46.0	278.0	60	235	quartz, feldspar, heamatite vein with trace pyrite
197.42	ZVO	0.3	54.0	276.0	53	241	thin quartz vein. Similarly oriented vein/fractures in the vacinity
200.10	ZVO	0.4	60.0	272.0	48	245	quartz-pyrite vein
200.96	ZVS	1	62.0	15.0	65	295	sulphide stringer; pyrite trace chalcopyrite & possible molybdenum
202.20	ZVO	0.2	49.0	285.0	61	241	quartz-feldspar vein with trace sulphides and heamatitic selvage
203.90	ZVO	0.8	78.0	80.0	41	306	chalcopyrite stringer - orientation uncertain due to discontinuous nature
208.21	ZVO	3	58.0	30.0	67	305	haemtitic vein with trace pyrite
209.91	ZVS	2	25.0	295.0	84	232	altered pyritic zone
213.44	SCO	0.01	20.0	52.0	85	156	alteration contact?
214.26	ZVO	2.5	48.0	312.0	72	256	chloritic vein with minimal hematite and potassic selvage
216.94	ZVO	0.1	66.0	185.0	14	280	chlorite vein with potassic selvage and is part of several similarlly oriented veins within the vacinity
218.91	ZVO	0.1	59.0	268.0	47	243	chlorite vein with potassic selvage and is part of several similarlly oriented veins within the vacinity.Probably from the same set as the previous measurement
221.28	ZVO	1.5	30.0	355.0	82	104	chloritic vein with minor sulphides
223.64	ZVO	0.5	55.0	255.0	42	233	cholitic vein with significant amounts of chalcopyrtie and pyrite
225.05	ZVO	0.8	59.0	275.0	50	246	chloritic vein with potassic selvage
231.47	ZFC	0.001	32.0	355.0	84	104	fault margin
232.28	ZVS	1.5	34.0	5.0	86	112	sulphide rich zone; pyrite dominated
234.57	ZVS	14	56.0	334.0	70	273	sulphide rich zone;higher proportion of chalcopyrite than previous zone
235.08	ZVQ	0.8	31.0	193.0	23	137	quartz vein with trace sulphides
237.73	ZRO	0.001	43.0	335.0	82	270	talcy-chloritic fracture
243.38	ZVO	0.5	52.0	350.0	76	282	chloritic vein/fracture with trace pyrite
266.48	SCO	0.001	55.0	355.0	73	285	Alteration front with trace pyrite associated.

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
3.66	5.40	408001	CORE_HALF	1115.96	65.2	7.87	3.24	40.8	14.6	0.797	11500	0.006	0.26	2.79	0.14
5.40	7.00	408002	CORE_HALF	331.8	10	21.59	3.62	56.5	8.7	0.106	5900	0.465	0.16	6.65	0.02
7.00	9.35	408003	CORE_HALF	232.55	75.5	17.81	5.17	39.1	4.8	0.222	3500	0.242	0.54	1.25	0.17
9.35	11.00	408004	CORE_HALF	1053.94	50.1	5.38	3.76	33.7	8	0.602	3000	-0.005	0.12	0.46	0.09
11.00	13.00	408005	CORE_HALF	2334.9	160.5	4.03	3.54	32.8	8.1	1.274	4200	0.006	0.16	0.54	0.35
13.00	15.00	408006	CORE_HALF	5381.67	522.2	4.31	4.82	38	8.5	2.548	4100	0.012	0.22	0.46	0.7
15.00	15.90	408007	CORE_HALF	2350.29	188.7	5.55	4.09	33.9	8.7	1.076	3700	-0.005	0.12	0.48	0.34
15.90	17.00	408008	CORE_HALF	230.62	19.2	3.92	1.88	38	8	0.201	8100	-0.005	0.13	0.34	0.1
17.00	18.00	408009	CORE_HALF	749.6	56.5	3.18	2.36	43	8.2	0.411	8200	-0.005	0.05	0.38	0.12

18.00	19.00	408010	CORE_HALF	1281.88	76.6	3.29	2.34	50.3	7.7	0.718	12200	0.016	0.1	0.23	0.14
19.00	21.00	408011	CORE_HALF	1708.56	91.5	3.36	3.62	38.7	9.8	0.794	5200	-0.005	0.08	0.38	0.23
21.00	23.00	408012	CORE_HALF	2682.06	158.9	2.4	4.1	31.2	9.3	1.295	5300	0.007	0.11	0.45	0.37
23.00	25.00	408013	CORE_HALF	360.16	18.3	3.95	3.6	32.3	7.5	0.213	4900	0.01	0.08	0.4	0.12
25.00	27.00	408014	CORE_HALF	900.3	45.5	9.59	5.2	37	7.6	0.518	8700	0.047	0.24	0.32	0.31
27.00	29.00	408015	CORE_HALF	1256.82	61	4.51	3.76	39.6	10	0.672	8900	0.006	0.14	0.39	0.34
29.00	31.00	408016	CORE_HALF	915.68	36.3	12	2.96	39.1	7.8	0.608	8300	0.006	0.14	0.35	0.31
31.00	31.90	408017	CORE_HALF	1089.28	37.3	3.68	2.57	36.5	6.7	0.835	7200	0.018	0.11	0.91	0.23
31.90	32.80	408018	CORE_HALF	357.27	11.2	9.2	5.55	49.6	28.2	0.341	1600	2.349	0.11	38.2	0.06
32.80	34.35	408019	CORE_HALF	2833.38	92.1	4.23	5.13	30.2	6.5	1.851	1300	0.106	0.14	1.32	0.39
34.35	36.00	408020	CORE_HALF	750.33	25.2	4.89	4.5	28.2	7.3	0.531	1600	0.016	0.07	0.69	0.1
36.00	38.00	408022	CORE_HALF	730.36	69.6	4.31	4.12	31.7	7.5	0.516	1200	0.005	0.09	0.65	0.1
38.00	40.00	408023	CORE_HALF	641.4	24.5	1.99	4.5	41.6	8.8	0.385	3200	0.007	0.11	0.46	0.21
40.00	42.00	408024	CORE_HALF	1132.78	79.2	2.06	4.97	31.5	7.6	0.577	2200	-0.005	0.08	0.53	0.15
42.00	44.00	408025	CORE_HALF	1219.61	81.6	3.5	5.44	33.7	9.6	0.655	3300	0.006	0.1	0.55	0.23
44.00	46.00	408026	CORE_HALF	1338.96	42	2.81	5.63	40.8	9.4	0.8	3400	-0.005	0.13	0.41	0.29
46.00	48.00	408027	CORE_HALF	1105.16	24.4	2.31	5.02	42.5	9.8	0.698	5700	0.009	0.11	0.53	0.15
48.00	50.00	408028	CORE_HALF	839.15	23.8	10.2	4.81	38.3	8.3	0.602	4300	0.007	0.14	0.39	0.18
50.00	50.70	408029	CORE_HALF	1312.06	35.7	10.07	4.72	47.6	8.9	0.862	9700	-0.005	0.12	0.3	0.16
50.70	52.40	408030	CORE_HALF	178	6.1	12.17	2.5	21.9	4.3	0.138	1700	0.006	0.06	0.53	0.03
52.40	53.00	408031	CORE_HALF	756	11.1	6.17	5.82	42.6	8.7	0.445	2100	0.013	0.14	0.44	0.1
53.00	54.00	408032	CORE_HALF	1334.08	32.8	5.99	3.67	49.7	7.3	0.814	10300	0.009	0.14	0.4	0.17
54.00	55.00	408033	CORE_HALF	9450.04	256.2	6.23	2.22	55.7	7.3	4.956	14300	0.022	0.17	0.33	0.91
55.00	57.00	408034	CORE_HALF	116.98	3	15.63	27.87	55	8	0.404	19900	-0.005	0.05	0.36	0.01
57.00	58.35	408035	CORE_HALF	1498.15	33.9	11.42	2.73	42	9.7	0.9	14200	0.014	0.09	0.29	0.17
58.35	60.00	408036	CORE_HALF	1131.57	29.6	65.13	2.61	37.7	7.6	0.765	7700	0.016	0.15	0.78	0.16
60.00	61.30	408037	CORE_HALF	38.4	2.4	24.97	2.13	63.2	8.1	0.032	19600	-0.005	0.08	0.29	0.02
61.30	62.30	408038	CORE_HALF	207.92	4.9	34.43	2.64	46.8	7.9	0.128	6000	-0.005	0.15	1.16	0.03
62.30	63.30	408039	CORE_HALF	284.66	17.7	12.94	4.07	51.1	13.2	0.203	4200	0.02	0.31	7.24	0.26
63.30	64.00	408040	CORE_HALF	130.93	5.4	1.89	1.96	71.1	4.3	0.104	8000	-0.005	0.07	1.15	0.02
64.00	65.00	408042	CORE_HALF	720.55	21.4	64.74	7.48	70.2	36.3	0.451	3600	0.089	0.53	17.87	0.17
65.00	66.15	408043	CORE_HALF	661.99	20.7	34	7.39	58.8	31.8	0.539	6000	1.772	0.18	17.9	0.1
66.15	68.00	408044	CORE_HALF	383.36	13.9	9.25	3.52	40	8	0.29	5100	0.005	0.1	0.58	0.11
68.00	69.00	408045	CORE_HALF	855.41	29.8	31.83	3.35	40	7.1	0.675	4500	0.017	0.13	0.58	0.42
69.00	70.00	408046	CORE_HALF	1723.06	54.7	105.4	3.91	46	7.5	1.283	3100	0.01	0.48	0.54	0.39
70.00	72.00	408047	CORE_HALF	1187.83	39.7	6.25	4.29	47.1	9.9	0.933	5600	0.007	0.15	0.3	0.3

72.00	74.00	408048	CORE_HALF	377.54	21.1	8.72	4.21	45.9	8.4	0.384	11100	-0.005	0.23	0.24	0.3
74.00	76.00	408049	CORE_HALF	445.02	23.5	6.11	3.98	41.2	8.4	0.358	6800	0.007	0.08	0.37	0.15
76.00	78.00	408050	CORE_HALF	382.61	13.3	4.62	4.03	39.7	8.8	0.327	6400	-0.005	0.09	0.32	0.21
78.00	79.00	408051	CORE_HALF	43.08	4.6	12.67	2.71	41.9	8.4	0.076	2300	-0.005	0.15	0.53	0.02
79.00	80.00	408052	CORE_HALF	871.77	11.6	13.59	3.11	42.8	7.6	0.536	7300	-0.005	0.1	0.32	0.11
80.00	82.00	408053	CORE_HALF	305.81	21.2	6.81	2.61	39.4	8	0.197	3700	-0.005	0.08	0.4	0.07
82.00	84.00	408054	CORE_HALF	902.23	45	3.83	3.24	54	8.1	0.667	9100	-0.005	0.21	0.34	0.3
84.00	86.00	408055	CORE_HALF	2081.57	125.8	4.46	4.4	38.4	7.6	1.188	5400	0.012	0.14	0.42	0.46
86.00	88.00	408056	CORE_HALF	2031.35	87.1	4.72	4.01	37.5	8.5	1.26	4400	0.011	0.11	0.38	0.42
88.00	89.30	408057	CORE_HALF	1343.83	72	1.85	2.15	39.4	8.8	0.847	9000	0.008	0.09	0.29	0.3
89.30	90.35	408058	CORE_HALF	1305.34	59.7	2.4	2.87	33.1	15.3	0.804	6800	0.025	0.06	0.9	0.21
90.35	92.00	408059	CORE_HALF	1020.79	36.9	9.2	7.46	41.1	60.4	0.689	4300	6.702	0.15	27.45	0.19
92.00	94.00	408060	CORE_HALF	771.45	25.8	4.41	3.04	39.4	56.8	0.508	3100	0.172	0.08	12.58	0.07
94.00	96.00	408062	CORE_HALF	1317.32	36.5	4.34	2.96	34.3	77	0.89	4900	0.038	0.09	1.28	0.19
96.00	98.00	408063	CORE_HALF	2115.66	85.5	3.76	3.14	39.9	7.7	1.657	8800	0.015	0.13	0.34	0.44
98.00	100.00	408064	CORE_HALF	1721.54	75	3.08	3.86	44.2	10.1	1.415	7900	0.036	0.18	0.3	0.59
100.00	102.00	408065	CORE_HALF	2504.6	98.9	2.34	3.12	49.2	12.1	1.538	10600	0.021	0.31	0.34	1.24
102.00	103.00	408066	CORE_HALF	1892.81	63.2	3.61	3.31	36.7	6.4	1.186	4800	0.024	0.16	0.28	0.43
103.00	105.00	408067	CORE_HALF	589.39	18	8.4	3.14	23.6	87.6	0.513	2600	0.13	0.16	9.14	0.3
105.00	107.00	408068	CORE_HALF	78.93	3.7	13.21	1.81	17	18.4	0.107	1800	0.02	0.1	4	0.12
107.00	109.00	408069	CORE_HALF	56.85	6.9	3.61	3.07	18.6	12.4	0.086	2300	0.017	0.1	1.26	0.12
109.00	111.00	408070	CORE_HALF	280.95	26.6	32.24	3.38	17.9	25.9	0.249	1900	0.02	0.13	2.43	0.2
111.00	113.00	408071	CORE_HALF	111.08	8.6	6.49	4.03	22.8	11.7	0.149	1900	0.057	0.19	2.26	0.13
113.00	115.00	408072	CORE_HALF	153.48	6.2	2.92	4.53	22.8	12.4	0.179	1700	0.574	0.09	4.88	0.11
115.00	117.00	408073	CORE_HALF	194.47	8	12.58	4.94	24.4	13.7	0.205	2500	0.022	0.14	0.49	0.17
117.00	119.00	408074	CORE_HALF	1106.9	30	52.01	4.11	29.8	53.8	0.765	3000	0.09	0.09	1.11	0.12
119.00	121.00	408075	CORE_HALF	183.19	8.7	5.05	3.11	17.5	6.2	0.201	2400	0.07	0.05	0.88	0.1
121.00	123.00	408076	CORE_HALF	194.77	15.2	5.71	3.99	19	14.8	0.291	2000	0.032	0.27	0.58	0.2
123.00	125.00	408077	CORE_HALF	772.95	42.1	2.88	8	34.1	23.1	0.642	2400	0.01	0.31	0.49	0.56
125.00	127.00	408078	CORE_HALF	147.48	11.1	3.88	7.23	34.3	12.5	0.206	1300	0.022	0.21	0.25	0.19
127.00	128.80	408079	CORE_HALF	41.32	11.8	0.65	4.28	48.2	4.2	0.056	7600	-0.005	0.21	0.09	0.2
128.80	131.00	408080	CORE_HALF	124.47	3.8	5.97	3.93	33.4	11.9	0.116	4600	-0.005	0.13	0.65	0.06
131.00	133.00	408082	CORE_HALF	147.3	6.2	3.62	5.69	35.4	9.3	0.148	4400	-0.005	0.09	0.58	0.09
133.00	135.00	408083	CORE_HALF	290.03	11.9	5.23	3.22	37.8	10.1	0.305	7400	-0.005	0.26	0.58	1
135.00	137.00	408084	CORE_HALF	533.13	21.9	9.61	4.28	33.9	15.4	0.515	6300	0.005	0.32	0.43	1.34
137.00	139.00	408085	CORE_HALF	409.05	16.4	258.27	4.3	38.7	11.7	0.36	2600	0.011	0.28	0.33	0.94

139.00	141.00	408086	CORE_HALF	571.66	22.3	4.92	3.9	36.6	10.9	0.488	6100	0.01	0.26	0.43	0.86
141.00	142.00	408087	CORE_HALF	322.47	12.3	59.05	3.51	32.8	11.9	0.286	1200	0.009	0.18	0.27	0.59
142.00	144.10	408088	CORE_HALF	314.08	10.7	8.62	4.83	35.8	9.3	0.316	3500	0.006	0.25	0.99	0.82
144.10	146.00	408089	CORE_HALF	299.99	11.4	18.52	9.68	35.9	12.4	0.339	1800	0.349	0.24	6.58	0.35
146.00	148.00	408090	CORE_HALF	366.2	11.6	13.96	8.33	35.9	12.7	0.355	1700	0.006	0.27	0.57	0.38
148.00	150.00	408091	CORE_HALF	189.41	8.3	17.66	5.05	44.2	19.1	0.192	2500	-0.005	0.16	0.42	0.31
150.00	152.00	408092	CORE_HALF	250.76	8.9	34.7	5.02	30.1	26.1	0.268	2200	-0.005	0.18	0.42	0.44
152.00	154.00	408093	CORE_HALF	142.3	12	8.17	4.67	29.3	12.4	0.194	2300	0.011	0.13	0.71	0.43
154.00	156.10	408094	CORE_HALF	191.28	9.3	17.62	4.63	25.1	13.3	0.197	2700	0.156	0.13	2.71	0.1
156.10	158.50	408095	CORE_HALF	434.8	18.4	3.47	2.92	35	13.6	0.363	3200	0.18	0.06	1.18	0.19
158.50	160.00	408096	CORE_HALF	270.87	8.3	4.05	3.05	28	17.7	0.18	3000	0.043	0.08	1.3	0.02
160.00	162.00	408097	CORE_HALF	268.51	11.6	2.54	3.5	32.2	23.9	0.193	3800	-0.005	0.09	0.63	0.13
162.00	164.00	408098	CORE_HALF	346.93	15	2.53	3.37	31.8	16.2	0.283	4500	0.005	0.11	0.5	0.06
164.00	166.00	408099	CORE_HALF	458.31	14.6	3.51	2.68	38.2	12.1	0.266	6700	0.253	0.03	1.69	0.03
166.00	168.00	408100	CORE_HALF	878.04	26.1	4.04	4.86	34.5	45.7	0.535	4700	0.03	0.18	18.25	0.1
168.00	170.00	408102	CORE_HALF	49.95	5.7	2.03	4.32	36.3	16.5	0.082	7000	0.031	0.13	23.41	0.01
170.00	172.00	408103	CORE_HALF	356.8	14.1	8.19	4.27	33.7	13.1	0.206	6900	0.041	0.11	10.85	0.02
172.00	174.00	408104	CORE_HALF	334.23	13.2	9.15	4.44	32.8	14	0.203	2700	0.04	0.13	13.32	0.02
174.00	175.90	408105	CORE_HALF	387.19	21.4	5.62	5.12	43.6	16	0.327	3800	0.06	0.18	14.08	0.11
175.90	178.00	408106	CORE_HALF	426.48	19.2	5.27	3.52	30.9	17.6	0.311	6000	-0.005	0.14	1.76	0.08
178.00	180.00	408107	CORE_HALF	155.37	7.9	3	4.84	35.7	12.3	0.242	5600	0.008	0.16	1.08	0.06
180.00	182.00	408108	CORE_HALF	67.66	8.2	4.78	3.89	26	14.5	0.077	5800	0.02	0.13	1.75	0.04
182.00	184.00	408109	CORE_HALF	203.3	6.6	6	4.86	30.7	22.9	0.159	6800	0.014	0.17	3.75	0.09
184.00	186.00	408110	CORE_HALF	50.11	76.5	33.28	6.02	20.6	26.1	0.059	6600	0.049	1.04	11.01	0.56
186.00	188.00	408111	CORE_HALF	38.84	5.6	8.28	5.76	32.8	18.7	0.049	8200	0.023	0.25	15.71	0.13
188.00	190.00	408112	CORE_HALF	85.27	3.9	6.78	4.47	39.4	14.4	0.06	4600	0.046	0.23	9.94	0.02
190.00	192.00	408113	CORE_HALF	12.15	3.6	8.06	5.11	34.5	24.3	0.06	3600	0.04	0.33	14.49	0.01
192.00	194.00	408114	CORE_HALF	16.82	38.3	8.93	5.23	39.7	18.6	0.227	5900	0.018	0.33	15.35	0.07
194.00	196.10	408115	CORE_HALF	28.89	5.2	72.21	4.87	35.2	18.7	0.052	3600	0.015	0.26	4.84	0.03
196.10	198.00	408116	CORE_HALF	13.48	1.9	40.67	3.58	29.7	14.2	0.032	2300	0.005	0.23	1.68	0.01
198.00	200.00	408117	CORE_HALF	108.43	2.3	24.86	3.25	56	15	0.052	2700	0.032	0.66	1.43	0.01
200.00	202.10	408118	CORE_HALF	1271.7	25.6	27.06	4.4	27.6	13.7	0.898	2600	0.04	0.49	2.26	0.2
202.10	204.00	408119	CORE_HALF	3945.61	57.7	27.61	4.35	31.1	49.3	3.368	2700	0.08	1.33	5.93	0.74
204.00	205.50	408120	CORE_HALF	2447.78	41.1	63.05	8.98	23.7	40.1	2.219	3500	0.198	1	119.55	0.54
205.50	207.00	408122	CORE_HALF	702	10.8	37.97	3.35	12.9	11.3	0.401	3700	0.115	0.26	24.65	0.69
207.00	209.00	408123	CORE_HALF	458.57	12.4	67.33	3.71	8.6	18.4	0.514	3800	0.791	0.47	61.97	1

209.00	211.00	408124	CORE_HALF	49.22	3	64.65	2.09	4.7	4.8	0.103	3200	0.22	0.3	3.36	0.43
211.00	213.00	408125	CORE_HALF	20.73	-0.2	51.4	1.19	3	4.2	0.117	3000	0.175	0.16	2.8	0.12
213.00	215.00	408126	CORE_HALF	97.15	7.6	26.06	1.93	13.9	12.5	0.114	2500	0.405	0.21	12.64	0.45
215.00	217.00	408127	CORE_HALF	49.05	3.7	36	1.6	8.7	6.8	0.074	3100	0.055	0.19	2.69	0.41
217.00	219.00	408128	CORE_HALF	517.97	14.5	15.35	3.52	16.9	53.2	0.335	3200	0.061	0.16	9.91	0.45
219.00	221.00	408129	CORE_HALF	319.09	11.2	28.63	3.96	15.5	29.8	0.298	2500	0.245	0.25	15.64	0.37
221.00	223.00	408130	CORE_HALF	633.31	18	70.4	3.9	10.3	82.1	0.436	2800	0.063	0.18	26.63	0.36
223.00	225.00	408131	CORE_HALF	1023.49	29.5	24.96	4.31	13.6	90.4	0.711	2600	0.083	0.26	18.27	0.51
225.00	227.00	408132	CORE_HALF	914.89	36.8	44.67	2.86	19.3	31	1.004	3800	4.707	0.44	24.17	0.49
227.00	229.00	408133	CORE_HALF	615.43	16.2	21.94	3.25	22.4	26.7	0.609	3100	3.818	0.12	17.61	0.1
229.00	231.00	408134	CORE_HALF	289.28	11	77.49	3	16.1	15.8	0.355	3800	0.674	0.24	4.76	0.13
231.00	233.00	408135	CORE_HALF	1026.18	74.5	14.54	6.36	14.4	13.1	1.119	2500	1.187	0.51	5.85	1.99
233.00	235.00	408136	CORE_HALF	2244.24	52	13.43	4.62	20.2	17.9	1.423	2500	0.072	0.51	2.8	1.23
235.00	237.00	408137	CORE_HALF	1699.8	76.5	22.66	3.44	19.2	54.5	0.975	2000	0.217	0.1	1.76	0.24
237.00	239.00	408138	CORE_HALF	909.74	42.8	4.28	4.04	27.7	32.3	0.819	2100	9.613	0.26	27.48	0.39
239.00	240.50	408139	CORE_HALF	2188.35	148.2	26.76	4.12	25.8	23.3	1.111	1900	9.074	0.12	22.67	0.33
240.50	241.50	408140	CORE_HALF	3031.56	254	12.33	4.24	24.5	16.8	1.27	2000	0.057	0.14	7.95	0.41
241.50	242.50	408142	CORE_HALF	2170.85	123.3	9.51	4.14	28.7	16.7	1.094	2100	0.01	0.15	7.05	0.23
242.50	243.50	408143	CORE_HALF	3501.93	118.6	6.61	5	35.5	23.3	2.19	2100	0.226	0.35	13.29	0.76
243.50	244.50	408144	CORE_HALF	3506.47	70.2	5.48	4.08	51.2	69.2	2.179	2100	74.049	0.45	197.86	0.36
244.50	246.00	408145	CORE_HALF	3256.52	176.9	14.31	4.61	39.1	33.6	2.117	2000	5.116	0.26	63.17	0.41
246.00	248.00	408146	CORE_HALF	861.2	58.8	10.62	7.79	34	38.5	0.559	1700	0.752	0.15	93.86	0.11
248.00	250.00	408147	CORE_HALF	609.87	49.7	13.85	5.27	30.7	36.5	0.439	2000	0.201	0.15	29.9	0.26
250.00	252.00	408148	CORE_HALF	767.23	44.1	9.61	4.91	39.9	40.6	0.543	2100	8.191	0.29	62.5	0.4
252.00	254.00	408149	CORE_HALF	2038.89	71.9	4.19	6.23	57.4	96.9	1.341	2200	37.178	0.22	249.67	0.28
254.00	256.00	408150	CORE_HALF	2356.25	90.9	2.31	5.92	36.1	49.8	1.533	2200	2.596	1.44	35.75	0.34
256.00	258.00	408151	CORE_HALF	942.45	79.8	2.45	4.59	36.7	27.6	0.51	2300	1.943	0.16	26.03	0.2
258.00	260.00	408152	CORE_HALF	333.35	31.7	3.53	3.9	24.1	14.2	0.287	1900	0.657	0.36	10.27	0.26
260.00	262.00	408153	CORE_HALF	960.42	67.2	27.87	3.37	24.7	10.9	0.43	2300	0.036	0.15	0.8	0.15
262.00	264.00	408154	CORE_HALF	1005.23	54.6	25.34	2.9	28	3.6	0.609	3300	0.052	0.17	0.74	0.36
264.00	266.00	408155	CORE_HALF	288.61	18.3	3.22	1.67	20.3	2.8	0.15	3700	-0.005	0.12	0.18	0.06
266.00	268.00	408156	CORE_HALF	386.14	29.5	1.58	1.72	19.4	2.8	0.252	2500	-0.005	0.24	0.24	0.09
268.00	270.00	408157	CORE_HALF	231.53	19	7.11	2.45	23.2	6.2	0.378	2900	0.262	0.1	5.06	0.04
270.00	272.00	408158	CORE_HALF	335.06	20.9	2.13	2.39	19.4	7.7	0.218	2600	0.03	0.07	3.44	0.05
272.00	273.71	408159	CORE_HALF	885.65	38.5	12.06	2.76	13.4	25.6	0.678	3300	0.086	0.19	2.64	0.14

Geoinformatics Exploration Inc

GEOINFORMATICS EXPLORATION
DRILL HOLE LOG

RZ06_02

Collar

Hole ID	RZ06_02	*Hole type*	DD		*Drilling company*	*Grid ID*	NAD83_UTM_10		
DataSet	GXL_REDTON_2006	*Depth*	408.13	m	*Geologist*	*Easting*	354290.00	*RL* 1624.00	m
Prospect	Red Zone	*Commenced*			*Survey Method*	*Northing*	6171663.00		
Tenement		*Completed*			*Notes*				

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
0.00	m	270.1	NAD83_UTM	-60.0	CAMERA	
42.37	m	268.9	NAD83_UTM	-60.1	CAMERA	
103.33	m	269.9	NAD83_UTM	-60.3	CAMERA	
164.29	m	271.0	NAD83_UTM	-60.5	CAMERA	
225.25	m	272.1	NAD83_UTM	-60.5	CAMERA	
286.21	m	274.5	NAD83_UTM	-60.2	CAMERA	
347.17	m	278.6	NAD83_UTM	-60.5	CAMERA	
408.13	m	281.2	NAD83_UTM	-60.5	CAMERA	

Lithology

Logged by: Gemma_Cryan

			Lith 1					*Lith 2*					
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	7.31	CASE												
7.31	14.23	IIQP	C	pp	pp	xe	100							
14.23	91.70	IIIP	C	pp	pp		60							
91.70	93.15	III	F	im	eq		100							
93.15	154.83	IIIP	C	pp	pp		60							
154.83	155.03	III	F		eq	xe	100							
155.03	160.96	IIIP	C	im	pp		100							
160.96	161.25	VIB	F		eq		100							
161.25	228.47	IIIP	C	im	pp		100							
228.47	229.02	IIDP	M		pp		100							

229.02	308.80	IIIP	C	im	pp	100					
308.80	311.75	IID	M		pp	100					
311.75	318.95	IMD	F	im	eq	80	IMD	M	im	eq	20
318.95	321.50	IIDP	M		eq	100					
321.50	322.85	VIB	F		eq	100					
322.85	323.25	IIDP	M		eq	100					
323.25	369.00	VIB	F		eq	100					
369.00	371.90	IIMP		pp		60					
371.90	377.90	VIB	F		eq	100					
377.90	378.25	IIIP	M	pp	pp	60					
378.25	382.60	VIB	F		eq	100					
382.60	383.63	IIIP	M	pp	pp	60					
383.63	389.72	VIB	F		eq	100					
389.72	390.85	IIIP	M	pp	pp	60					
390.85	402.50	VIB	F		eq	100					
402.50	405.50	IID	F		eq	100					
405.50	408.13	VIB	F		eq	100					

Lithology

Logged by: Gemma_Cryan

From	*To m*	*Description*
0.00	7.31	
7.31	14.23	a porphyritic-quartz diorite with xenoliths; silicification and sericitization has occurred in parts and slight weathering with iron oxidation evident
14.23	91.70	porphyritic monozdiorite with quartz phenocrysts and varying alterations of albitiztion, k-spar, chlorite and disseminated sulphides
91.70	93.15	Fine grained monzodiorite. Weak chlorite alteration and quartz-carbonate veining. Possible dyke.
93.15	154.83	porphyritic monozdiorite with quartz phenocrysts and varying alterations of albitiztion, k-spar, chlorite and disseminated sulphides
154.83	155.03	dyke of fine grained equigranular monzodiorite with xenoliths of the surrounding porphyritic monzodiorite. Contacts are irregular with no apparent chilled margins. Potassic alteration is evident in parts
155.03	160.96	porphyritic monozdiorite with quartz phenocrysts and varying alterations of albitiztion, k-spar, chlorite and disseminated sulphides
160.96	161.25	dyke of fine grained equigranular basaltic andesite with a networking of quartz-carbonate veins. Contacts are irregular with no apparent chilled margins..
161.25	228.47	porphyritic monozdiorite with quartz phenocrysts and varying alterations of albitiztion, k-spar, chlorite and disseminated sulphides
228.47	229.02	medium grained, porphyritic (plag phenocrysts) diorite.
229.02	308.80	porphyritic monozdiorite with quartz phenocrysts and varying alterations of albitiztion, k-spar, chlorite and disseminated sulphides
308.80	311.75	microdiorite
311.75	318.95	a fine grained equigranular dolerite/diabase. Locally there are segregations of medium grained more feldspar rich material (dioritic). Unit appears to be magnetic (could change to basaltic andesite)
318.95	321.50	medium grained equigranular diorite
321.50	322.85	Strongly sheared and altered interval restricting the recognitionof the protolith. Basaltic andesite
322.85	323.25	equigranular medium grained diorite

323.25	369.00	basaltic andesite
369.00	371.90	monzonite porphyry. strongly altered and fractured. Plagioclase phenocrysts 1-2mm
371.90	377.90	basaltic andesite
377.90	378.25	subrounded phenocrysts 2-3mm in this quartz-monzodiorite
378.25	382.60	basaltic andesite
382.60	383.63	quartz monzodiorite porphyry subtle variations in texture and feldspar content differentiate the lithologies. Contacts are irregular and gradational.
383.63	389.72	subtle variations in texture and feldspar content differentiate the lithologies. Contacts are irregular and gradational.
389.72	390.85	quartz monzodiorite porphyry.subtle variations in texture and feldspar content differentiate the lithologies. Contacts are irregular and gradational.
390.85	402.50	
402.50	405.50	microdiorie
405.50	408.13	

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
7.31	14.23	MOD	SL	rep	MOD	SR	rep	WK	OX	fsel	MOD	Silicification and minor seritization is seen throughout the zone; with oxidation in patches, usually associated with fracturing
14.23	18.95	MOD	KF	pv	WK	OX	fsel	WK				Zone has irregular k-feldspar alteration with iron staining associated with fractures
18.95	20.36	STG	SL	pv	STG	SR	pv	MOD	CH	mat	MOD	Original lithological features have been completely odliterated; silicification, likely seritization and minor chlorite are present.
20.36	29.27	MOD	AL	pv	MOD	CH	blb	WK	SL	pv	MOD	Original lithological featuresare visible. Distruction of mafics, minor chlorite, albitisation and silification occurred.
29.27	39.29	MOD	KF	pv	WK	KF	vsel	MOD	CH	blb	WK	Potassic alteration in the zone is locally pervasive and often associated with fractures. Blebs of epidote and chlorite are also found with albite repalcement also occuring.
39.29	40.74	MOD	SL	pv	MOD	AL	pv	MOD	CH	blb	MOD	Original lithlogical features are preserved but silicifation is evident, with alditization. Chlorite is associated with disseminated sulphides.
40.74	44.93	STG	KF	pv	STG	CH	vsel	WK	TOUR	blb	WK	Potassic alteration is perasive but the original lithological features are still evident. Minor chlorite and heamatite are also present in veins. Trace amounts of tourmaline are scattered in the unit
44.93	47.00	STG	SL	pv	STG	SR	pv	MOD	CH	vsel	MOD	silicification, likely seritization and minor chlorite are present. In parts the original lithological features are still visible
47.00	50.10	STG	KF	pv	MOD	CH	vsel	Wk				Potassic alteration is pervasive but moderate with little alteration to the oirginal lithological features. Chlorite
50.10	53.79	MOD	AL	pv	STG	CH	pv	WK	CH	vsel	WK	Albite alteration is dominanting this zone with minor amounts of chloritein veins and trace amounts in the matrix giving a weak green hue. K-spar is also stille vident but in minor amounts.
53.79	59.14	STG	SL	pv	STG	CH	pv	MOD	SR	pv	MOD	Original lithological features have been completely odliterated in the upper part of this unit but gradually appears toward the bottom; silicification with likely seritization and chlorite is present and strong in parts with heamatite present in veins.
59.14	62.28	MOD	SL	pv	MOD	SR	pv	MOD	CH	pv	WK	Original lithological features are apparent but mafic destruction has occurred and silicification with probable seritisation has occurred. Chlorite is present in lesser amounts than te previous unit but still gives a slight green hue to the unit.
62.28	65.15	MOD	KF	pv	WK	AL	pv	MOD	EZ	blb	WK	Moderate K-spar and albite alteration has occurred but the original lithology is still visible. Patchs of epidote are found in association with fractures (some healed)

65.15	66.75	STG	CH	pv	WK	KF	pv	MOD	HM		MOd	Only remnant original lithological features are left. Chlorite is pervasive and strong at the top of the unit but gives way to k-spar alteration which increases down the unit.
66.75	67.96	MOD	AL	pv	MOD	KF	pv	WK	CH	blb	WK	Albite and K-spar alteration are aparent but weak to moderate and minor patches if chlorite are also present
67.96	69.51	WK	KF	pv	WK	CH	pv	WK				K-spar alteration dominantsthis unit but is weak. Minro chlorite is also seen as repalcement in the groundmass.
69.51	70.35	STG	SL	pv	STG	CH	blb	WK				Strong alteration with deformation of th eoriginal lithological features in most parts.Silicification and chlorite alteration dominate.
70.35	71.25	TR	KF	pv	TR	KF	vsel	TR				Potassixc alteration is present in both the groundmass and as vein selvage. Original lithological features are clearly visible.
71.25	80.63	STG	SL	pv	STG	KF	pv	MOD	CH	pv	WK	Original features are lost and silicification has occurred pervasively and as vein selvage. Moderate potassic alteration has also occure din both the groundmass and as vein selvage. Chlorite is also present in minor amounts through the section.
80.63	83.89	MOD	SL	pv	STG	CH	pv	MOD	KF	vsel	TR	Silicification and chloritzation has occurred but left the original lithological features; botht minerals occurr as veins also. K-spar is seen in veins only.
83.89	88.11	STG	KF	pv	WK	CH	pv	MOD	SL	vsel	MOD	Original lithological features are lost. Potassic and chloritic alteration dominate with minro quartz vein selvage.
88.11	91.70	MOD	KF	pv	TR	SL	pv	MOD	CH	pv	WK	Potasic alteration is found in the groundmass with chlorite and silic alteration also occurring in parts. Haematitie in blebs
91.70	93.15	MOD	CH	pv	MOD	SL	vsel	WK	KF	vsel	WK	Chlorite dominates the alteration in this unit with complete destruction of the original lithogical features occuring. Quartz in present in minor amounts as vein selvage
93.15	95.28	MOD	AL	pv	MOD	KF	pv	WK	CH	pv	WK	Moderate alteration with albitisation dominating and minor potasic alteration eveloping lower downin the unit. Chlorite alteration also occurrign nteh groundmass
95.28	97.04	STG	KF	pv	STG	CH	pv	MOD	SL	vsel	WK	Potasic alteration is dominant destroying most of the original texture. Chlorite alteration also occurs pervasively in lesser amounts along with quarts veining.
97.04	101.48	MOD	AL	pv	MOD	CH	pv	MOD				Albite alteration dominantes this unit with chlorite alteration also pervasive. Original textures are still evident and trace amounts of potassic alteration with blebs of epidote are asio present.
101.48	109.56	MOD	AL	pv	MOD	CH	pv	TR	SL	pv	MOD	Albitisation, silicification and chloritisation occurs with some of the original texture being lost, but the mafic component of the original lithology is relativley unaltered.
109.56	112.91	MOD	AL	pv	MOD	SL	pv	MOD				unit shows moderate albitisation and silicification while the original texture is peserved. Hypergene alteration my have ocured as the core is 'chalky' to the touch.
112.91	117.59	MOD	AL	pv	MOD	CH	vsel	WK	SL	pv	MOD	This unit shows the same altration as the overlying unit but with an slight increase in chlorite entering into the alteration assemblage and less alteration of the original mafic componet.
117.59	117.93	STG	AL	pv	MOD	SL	pv	MOD				unit shows albitisation and silicification with the gradual loss of the original texture towards the bottom of the unit.
117.93	118.28	STG	CH	pv	STG							Unit has strong chlorite alteration obliterating the original lithological features.
118.28	119.25	MOD	CH	vsel	MOD	AL	pv	MOD	SL	pv	MOD	unit has a high concentraion of chlorite veins at the top, lessening down the unit. Albitisation and silicification are still evident.
119.25	120.72	MOD	SL	vsel	MOD	SL	pv	MOD	CH	vsel	WK	unit has several large parallel running quartz veins. Chlorite veins are also evident but less abundant than in the previous unit and is also present in the groundmass. Chalky feel again apparent form possible hypergene alteration.
120.72	125.81	MOD	SL	pv	MOD	AL	pv	MOD	KF	pat	WK	unit shows silicification and albitisation with patches of pervasive chlorite also
125.81	126.48	MOD	CH	Vsel	MOD	SL	pv	MOD	AL	pv	MOD	section has a high density of chlorite veining.
126.48	129.76	MOD	SL	pv	MOD	AL	pv	MOD	CH	pv	MOD	similar to the unit above but with an increase in chlorite.
129.76	130.40	MOD	SL	pv	MOD	CH	blb	WK	KF	vsel	WK	unit shows the introduction of scazttered blebs of chlorite and minor veining of k-spar
130.40	131.11	MOD	SL	pv	MOD	CH	pv	MOD	KF	vsel	WK	unit shows silicification and chloritisation with almost complete destruction of the original textures.

131.11	133.67	MOD	AL	pv	MOD	SL	pv	MOD	CH	pv	WK	albitisation ans silification occur with pervasive and bleds of chlorite.
133.67	136.51	MOD	AL	pv	MOD	SL	pv	MOD	CH	pv	MOD	similar to the previous unit but with an icrease in pervasive chlorite and minor k-spar and haematite
136.51	139.45	STG	CH	pv	MOD	SL	pv	MOD	AL	pv	STG	while silificiation and chloritisation are stillmoderate in this unit the silification dominates this unit as opposed to chlorite dominating the previous. Parts of the unit show al;teration to very claylike material.
139.45	141.00	MOD	CH	vsel	MOD	SL	pv	MOD	AL	pv	MOD	silicification occurs while numerous chlorite veins network the unit
141.00	142.95	STG	SL	pv	STg	AL	pv	STG	SL	vsel	MOD	unit is silicified and albitised with mior quartz veining also occuring
142.95	145.37	STG	CH	pv	MOD	SL	pv	MOD	KF	blb	Wk	unit is silicified with patches of chlorite, k-spar and heamatite scattered through out, often these minerls are found together in patches.
145.37	146.72	STG	SL	pv	STG	AL	pv	STG	CH	pv	WK	Albitisation and silification occur with patches of the unit so altered they have gone to a claylike material. Chlorite appears towards the bottom of the unit.
146.72	152.15	MOD	KF	pv	WK	CH	pv	MOD	SL	pv	MOD	Chlorite alteration through out the unit with potasic alteration ocuring to a lesser degree and sometimes as vein selvage
152.15	152.78	STG	SL	pv	STG	AL	pv	STG				Albitisation and silification occur. Claylike feel to core again apparent.
152.78	154.38	MOD	HM	pv	MOD	CH	vsel	MOD	SL	pv	MOD	Alteration in the zone has resulted in the destruction of the original lithological features.
154.38	155.03	MOD	KF	pv	MOD	KF	vsel	WK				potasic alteraiton occurs in patches of the unit and minor veins of k-spar are also evident
155.03	158.46	MOD	CH	pv	MOD	KF	pv	MOD	SL	vsel	WK	original textures are almost completely detroyed with chlorite and potasic alteration. Quartz veining also occurs throughout the unit.
158.46	160.96	MOD	SL	pv	MOD	AL	pv	MOD	CH	vsel	WK	Albitisation and silification occur with minor chlorite veining. The original lithological features are retained
160.96	161.25	WK	CH	pv	Wk	SL	vsel	WK				Chlorite alteration has occurred in the matrix. A network of quartz-carbonate veining showing several stages of fracturing also occurs.
161.25	162.11	MOD	AL	pv	MOD	SL	pv	MOD	CH	pv	WK	Unit shows albitisation and silicification with minor chlorite alteration. Original lithological features are preserved.
162.11	162.36	STG	SL	pv	STG	SL	vsel	STG	CH	vsel	WK	Unit is strongly altered with silicification occuring pervasively and as veining. The majority of the original texture has been destroyed and minor chlorite veins are also present.
162.36	166.24	MOD	AL	pv	MOD	SL	pv	MOD	CH	pv	WK	Unit maintians the original lithological features through the albitisation and silicification. Two strong zones (20cm wide) appear in the section with haematite, k-spar and chlorite dominating them.
166.24	167.64	MOD	CH	pv	MOD	SL	pv	MOD	HM	pat	MOD	Unit still maintains original textures but alterattion is more strongly chloritic than the previous unit. Patches rich in chlorite and haematite with some tourmaline are present and quartz veining has trace sulphides.
167.64	169.10	MOD	KF	pv	MOD	SL	pv	MOD				Unit shows pervasive potassic (increasing down the unit) and silicic alteration, with a decline in original textures.
169.10	170.67	MOD	CH	pv	MOD	SL	pv	MOD	KF	blb	TR	Unit had chlorite and silicic alteration throughout with patches of K-spar alteration also affecting the goundmass.
170.67	171.24	MOD	KF	pat	MOD	SL	pv	MOD	CH	vsel	WK	K-Spar alteration is patchy but increasing in intensity relative to the previous unit. Silicificatin is dominant in the other patches, with chlorite veining throughout.
171.24	172.28	STG	KF	pv	STG	CH	pat	MOD	SL	vsel	MOD	Unit shows strong potassic altertion throughout with patches of chloritic alteration and quartz-carbonate veining. Heamatite is often found in conjunction with chlorite veining.
172.28	174.30	STG	SL	pat	STG	KF	pat	WK	CH	pat	MOD	Alteration has destroyed original lithological features. Silicification, potassic and chlorite alteration occur in patches through the unit . Quartz-carbonate and chlorite veinign also occur. A Large patch of tourmaline also presents on either side of a

174.30	175.62	MOD	CH	pv	MOD	CH	vsel	WK	SL	pv	MOD	Chloritization is the dominant alteration mineral in this unit with some minor chlorite veins. Silicification is also present to a lesser extent. Original lithological features are maintained.
175.62	175.96	MOD	KF	pv	STG	TOUR	vsel	MOD	CH	vsel	WK	original textures have been destroyed by potassic alteration. Tourmaline and chlorite veins are present with trace sulphides.
175.96	176.26	Wk	CH	pv	MOD	AL	pv	MOD				original texture has been preserved while albitization and chloritization has occur.
176.26	180.37	MOD	CH	pv	MOD	SL	pv	MOD	KF	pat	MOD	Alteration is dominaated by chloritization and silicification in the groundmass. An area of 32cm has potassic alteration leading from quartz veining.
180.37	181.75	MOD	KF	pv	MOD	EZ	pat	WK				Potassic alteration increases in this unit relative to the previous. Quartz and chlorite veining is present and epidote occures in patches.
181.75	193.13	MOD	CH	pv	MOD	KF	pat	WK	EZ	vsel	WK	Mafic minerals are more prominent int hisz unit with some alteration to chlorite. Patches of more potassic alteration are scattered throughout the unit . Haematite in found in minor veins and epidote in patches. The original lithological texture is well p
193.13	197.00	MOD	KF	pv	MOD	CH	pv	WK	AL	pat	MOD	Potassic alteration dominants the unit; in patches (related to quartz-carb veins) destroying the original texture. Small patches of albite-rich alteration exist in the unit also as do veins of tourmaline.
197.00	197.47	STG	CH	pat	STG	SL	vsel	STG				Highly altered zone dominated by a quartz vein (20cm), chlorite patch (25cm), vein of pyrite and at the topo fht eunit a zone of multiple healed fractures in various orientations.
197.47	203.67	MOD	CH	pv	WK	KF	pat	WK	SL	pv	MOD	Zone shows residual original textures but alteration is variable over the length, with slicification and potassic alteration in patches stemming from quartz veining. Chloritic alteration is more constant throughout and haematite is also found in small pat
203.67	204.48	STG	CH	pv	STG	HM	pv	MOD				Zone is strongly altered by chloite and haematite with no remnants of the original lithological features present.
204.48	206.68	WK	SL	pv	MOD	CH	pv	WK	KF	pat	WK	unit maintians the original textures. Ssilicificationand albitisationlesser chloritzation occur with patchy potasic alteration and minor haematite.
206.68	210.00	MOD	CH	pv	MOD	KF	pat	WK	EZ	pat	WK	unit show progressive increase in potassic alteration down the unti. Chlorite alteration is maintained throughout as are the original lithological features. Epidote presents as patchy in a zone about 50cm wide.
210.00	215.00	MOD	SL	pv	MOD	KF	pat	WK	CH	pat	WK	Uniform moderate silicifaction.
215.00	216.90	WK	SL	pv	WK	AL	pv	WK	KF	pat	WK	K-sapr concentrated in vein selvages with quartz veins.
216.90	218.00	STG	CH	pat	MOD	KF	pat	MOD	SL	pat	MOD	locally strong tourmaline alteration in fracture zones.
218.00	221.25	MOD	AL	pv	WK	SL	pv	WK	KF	pat	WK	k-spar alteration associated and concentratedin quartz veinlets and veins
221.25	225.00	MOD	AL	pv	MOD	SL	pat	WK	CH	pv	TR	uniformly albitised with patchy silicification
225.00	226.90	STG	AL	pv	MOD	KF	pat	STG	CH	pat	WK	k-spar associated with concentrated quatrz veining, crosscutting albitic alteration
226.90	228.50	MOD	AL	pv	MOD	SL	pv	MOD	KF	pat	WK	uniform albeitisation and silicification. K-sapr associated with fractures, crosscutting earlier alteration.
228.50	229.02	WK	CH	pv	WK	EZ	pv	TR				chlortization of mafic component and very waek epidote alteration over feldspars.
229.02	229.81	MOD	SL	pv	MOD	AL	pv	WK	CH	pat	TR	uniformly altered and locally epidote-albite alteration on quartz vein selvage
229.81	234.00	STG	AL	pv	MOD	EZ	pv	MOD	SL	pv	MOD	fine intergrowth of albite and epidote. Pale greenish-blue appearance.
234.00	234.50	MOD	AL	pv	Wk	SL	pv	MOD	EZ	pat	WK	
234.50	236.40	STG	AL	pv	WK	EZ	pat	WK	KF	pat	WK	zone is silicified also
236.40	238.30	STG	AL	pv	MOD	SL	pv	WK	CH	pat	WK	contians spots of dark black material9assumed chlorite) associated with sulphide. Localized zone of chlorite fractures
238.30	240.80	STG	AL	pv	MOD	SL	pv	WK	CH	pat	WK	similar to above with haematitic fractures
240.80	243.95	STG	KF	pat	MOD	SL	pv	MOD	EZ	pat	WK	chloritic fractures associated with sulphides, k-spar locally intense
243.95	248.40	MOD	AL	pv	MOD	SL	pv	WK	CH	pv	WK	locally weak patches of k-spar, minor chloritic fractures
248.40	248.80	INT	SL	pv	STG	CN	pv	MOD	CH	pv	WK	fault/breccia zone

248.80	250.50	MOD	SL	pv	MOD	KF	pat	MOD	CH	fsel	tr	k-spar locally increases around quartz veins and fractures
250.50	253.95	MOD	AL	pv	MOD	SL	pv	WK	KF	pat	WK	
253.95	257.15	MOD	AL	pv	MOD	KF	pat	MOD	SL	pv	WK	minor chloritic fractures
257.15	259.50	MOD	AL	pv	MOD	SL	pv	WK	CN	pat	WK	locally weak k-spar alteration
259.50	259.75	STG	CH	vsel	MOD	CN	vsel	WK	SL	vsel	WK	fault/shear
259.75	261.20	STG	KF	pv	MOD	SL	pv	MOD	CN	pv	WK	highly fractured chloritic veinlets
261.20	261.70	MOD	AL	pv	WK	SL	pv	MOD	CN	pv	WK	bleached zone
261.70	267.80	MOD	AL	pv	Wk	KF	pv	WK	SL	pv	MOD	Locally patches of chloritic alteration.
267.80	268.95	STG	AL	pv	MOD	SL	pv	MOD	CH	pv	WK	patchy chlorite alteration
268.95	269.90	STG	AL	pv	MOD	SL	pv	MOD	CH	pv	MOD	chlorite alteration is fracture controlled, complex fracture network hostingchlorite throughout, overprints albitic alteration and associated quartz veins.
269.90	272.48	MOD	AL	pv	Wk	SL	pv	MOD	CH	pv	WK	homogenous alteration zone.
272.48	274.30	MOD	SL	pv	MOD	KF	pv	WK	CH	pv	WK	K-spar alteration is patchy
274.30	277.15	STG	AL	pv	MOD	SL	pv	MOD	CH	pv	WK	
277.15	277.43	STG	TOUR	fsel	STG	SL	fsel	STG	CN	fsel	WK	strongly fractured and sulphidised
277.43	279.00	MOD	SL	pv	MOD	AL	pv	WK	CH	pv	TR	
279.00	279.50	STG	SL	pv	STG	KF	pv	TR	CH	pv	TR	strongly silicified zone with textural destruction
279.50	280.80	STG	SL	pv	STG	KF	pv	WK	TOUR	fsel	MOD	tourmaline in complex fracture network
280.80	283.80	MOD	SL	pv	MOD	AL	pv	WK	KF	pv	WK	minor patchy chlorite, locally minor touramline in fractures
283.80	286.50	STG	KF	pv	STG	SL	pv	STG	CH	fsel	WK	minor tourmaline in fractures
286.50	287.70	STG	KF	pv	MOD	SL	pv	STG	CH	pv	MOD	locally patches of epidote associated with chlorite.
287.70	289.00	STG	SL	pv	STG	KF	pv	STG	CH	fsel	WK	
289.00	290.15	STG	KF	pv	STG	CH	fsel	MOD	SL	pv	MOD	Strong chlorite along fracture zones and also occur discretely in patches.
290.15	294.50	STG	KF	pv	STG	SL	pv	MOD	CH	fsel	TR	
294.50	296.50	STG	KF	pat	MOD	AL	pv	WK	SL	pv	MOD	Haematitic microfracture
296.50	297.25	STG	KF	pv	STG	SL	pv	STG	CH	pat	WK	
297.25	300.40	STG	AL	pv	MOD	SL	pv	STG	KF	pat	WK	minor chlorite veinlets and patches. Minor haematitie also
300.40	303.20	STG	CH	pat	MOD	KF	pv	MOD	SL	pv	STG	
303.20	304.70	MOD	CH	pat	WK	AL	pv	MOD	SL	pv	MOD	minor patches of k-spar
304.70	307.30	MOD	AL	pv	MOD	SL	pv	MOD	KF	pat	MOD	
307.30	308.40	STG	SL	pv	STG	KF	pv	MOD	HM	vsel	MOD	
308.40	309.00	STG	CH	pv	MOD	AL	pv	MOD	SL	pv	WK	patches of haematitie and minor k-spar also present.
309.00	310.40	MOD	AL	pv	MOD	CH	pv	MOD	KF	pat	WK	
310.40	310.80	STG	KF	pat	WK	AL	pv	MOD	SL	pv	WK	weak chlorite also present
310.80	312.10	WK	CH	pv	WK							
312.10	316.15	MOD	MT	fsel	MOD	EZ	fsel	MOD	CN	pv	WK	Trace Kspar ,, local zones of haematisation along fractures and weak patchy magnetite also evident in the unit.Patchy epidote is fractured controlled
316.15	318.50	WK	EZ	pat	TR	MT	fsel	TR	CN	vsel	WK	
318.50	319.00	WK	EZ	pat	TR	MT	fsel	WK	CN	fsel	WK	MT is locally fracture controled and strong
319.00	320.50	MOD	SL	pv	MOD	KF	pat	WK	CH	fsel	WK	
320.50	321.30	WK	KF	fsel	WK	CH	fsel	WK				
321.30	323.25	STG	CH	fsel	MOD	CN	pat	WK	SR	pat	WK	sheared and locally silicified. Also local patchy k-spar evident
323.25	325.00	WK	EZ	pat	TR	MT	pat	WK	CN	fsel	WK	

325.00	328.30	STG	EZ	pat	MOD	SL	pv	MOD	MT	pat	WK	fracture controlled carbonate
328.30	335.10	MOD	MT	pat	MOD	EZ	pat	WK	CN	pv	WK	
335.10	337.70	MOD	EZ	pat	STG	MT	fsel	TR	CH	pat	WK	locally minor k-spar evident with trace pervasive carbonate
337.70	338.95	WK	EZ	pat	WK	MT	pat	WK	CN	pv	TR	
338.95	341.65	STG	EZ	pat	STG	MT	fsel	MOD	CN	fsel	WK	
341.65	343.40	MOD	EZ	pat	WK	MT	pat	WK	CN	pat	WK	
343.40	345.20	STG	EZ	pat	STG	MT	pat	MOD	CN	fsel	TR	
345.20	348.00	WK	EZ	pat	WK	MT	fsel	WK	CN	fsel	TR	
348.00	351.80	MOD	EZ	pat	MOD	MT	fsel	TR	CN	pv	WK	
351.80	353.30	WK	MT	pat	WK	EZ	pat	WK	CN	fsel	TR	
353.30	356.60	STG	EZ	pat	STG	KF	pat	WK	SL	pv	WK	fracture controlled carbonate, weak patchy magnetite
356.60	358.00	MOD	EZ	pat	MOD	MT	pat	WK	CN	pv	TR	
358.00	359.80	MOD	CN	pv	MOD	EZ	pat	TR	CH	fsel	WK	
359.80	365.50	MOD	EZ	pat	MOD	MT	pat	WK	CN	pv	WK	Epidote is locally strong
365.50	366.50	STG	SL	pat	MOD	SR	pat	WK	CN	fsel	MOD	
366.50	370.25	MOD	KF	pat	MOD	EZ	fsel	WK	SL	pv	WK	Patchy epidote also evident
370.25	371.35	STG	SL	pv	MOD	SR	pat	WK	CN	fsel	MOD	Weak patchy epidote alteration, minor patchy k-spar
371.35	371.80	INT	KF	pat	MOD	SL	pv	MOD	SR	pv	WK	minor haematite and chlorite veinlets
371.80	373.00	INT	EZ	pv	STG	MT	ff	STG	SL	pv	MOD	Magnetite as breccia matrix(fracture fill)
373.00	374.20	STG	EZ	pat	STG	MT	ff	MOD	CN	pv	WK	
374.20	375.15	WK	EZ	pat	WK	MT	ff	WK	CN	ff	TR	
375.15	377.80	STG	EZ	pat	MOD	MT	ff	MOD	SL	pv	WK	fracture controlled carbonate alteration also
377.80	382.50	WK	EZ	ff	WK	CN	ff	WK	MT	pat	WK	
382.50	383.60	STG	MT	ff	WK	SL	pv	WK	SR	pv	WK	patchy chlorite alteration throughout and also weak fracture controlled k-spar. Zone is highly fractured and altered
383.60	385.50	WK	MT	diss	WK	EZ	ff	WK	CN	ff	WK	
385.50	388.75	MOD	EZ	ff	MOD	MT	ff	MOD	CN	ff	WK	
388.75	389.75	WK	EZ	ff	TR	MT	diss	WK	CN	pv	WK	
389.75	391.00	MOD	AL	pv	WK	CH	pv	MOD	KF	pat	WK	locally minor sericite alteration
391.00	398.00	WK	EZ	ff	WK	MT	ff	WK	CN	ff	WK	
398.00	402.80	MOD	EZ	pat	WK	MT	ff	MOD	CN	ff	WK	epidote locally stonge, weak patches of sericite alteration
402.80	405.80	MOD	CH	pv	WK	KF	pat	WK	MT	ff	MOD	
405.80	407.30	WK	EZ	pat	Wk	CN	ff	WK	MT	ff	WK	
407.30	408.13	MOD	EZ	pat	MOD	MT	ff	MOD	CN	ff	WK	

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
14.23	17.42		ZVQ	HLN	0.5	1		ZVO	WSP	0.5	1							Quartz veins (fracture healing) of less than 1 mm are rare in this unit with no dominant orientation. Oxidized veins are also present and pyrite is found in several of these.

17.42	31.35	ZVQ	STR	5	2		ZVCL	HLN	5	1							quartz veining is stronger than in previous unit with veins up to 3mm. chlorite veining (1mm) occurs in parts. Majority of veining is fracture healing
31.35	41.30	ZVCL	FRV	2	15	53	ZVQ	STR	2	1	38						quartz veining is slightly thicker in this unit than the pervious; with thicker veins of chlorite and associated heamatite also.
41.30	47.70	ZVO	FRV	2	15		ZVO	STR	2	2		ZVQC	STR	5	1		heamaitite with sulphide veins are found through out the unit with tourmaline also present in the veins lower in the section. Quartz-carbonate veins (fracture healing) are also present but no sulphides are assocaited with these Core is unoirentated so it is not possible to determine if a dominant orientation is present.
47.70	59.25	ZVQC	FRV	5	5	54	ZVCL	STR	5	1	76	ZVO	STR	5	1	47	chlorite veins (fracture healing) dominate the upper section of the unit while quartz-carbonate veins strengthen toward the bottom. Centrally veins of sulphide are almost parallel with the core. (Core unoriented)
59.25	60.48	ZVQC	FRV	5	5	54	ZVCL	STR	5	1	76	ZVO	STR	5	1	47	chlorite veins (fracture healing) dominate the upper section of the unit while quartz-carbonate veins strengthen toward the bottom. Centrally veins of sulphide are almost parallel with the core. (Core unoriented)
60.48	63.30	ZVO	FRV	2	2		ZVQ	FRV	2	4	42	ZVQ	STR	2			fracture healing pyrite veins are present in parallel sets. Thicker quartz veins are also present in the unit again associated with fracture healing
63.30	65.46	ZVQ	FRV	2	2	75	ZVCL	FRV	2	1							Weak veining comprising of quartz and chlorite veins
65.46	66.14	ZVCL	FRV	5	1	46	ZVQC	STR	5								Increasing density of chlorite veining associated with fracture healing
66.14	69.47	ZVQ	FRV	2	2		ZVCL	FRV	2	1		ZVQ	FRV	5	1	44	Weak veining comprising of quartz and chlorite veins
69.47	70.35	ZVQ	STR	20	1	51	ZVQ	FRV	20	5		ZVCL	FRV	5	1		network of quartz veining showing a strong fracturing history. Younger thicker quartz veingin healing fractures and chlorite fracture healing veins also present with some containing sulphides.
70.35	76.53	ZVQ	FRV	2	2	33	ZVCL	FRV	2	1							Weak veining comprising of quartz and chlorite veins
76.53	80.66	ZVO	FRV	5	4	63	ZVQ	FRV	5	1							This unit contains several phases of sulphide selvage veining with one set having been overprinted by later alteration. Fracture healing quartz veining also occurs.
80.66	91.18	ZVQC	FRV	5	3	62	ZVCL	FRV	5	1							Quartz-Carbonate veining dominates this unit (some have trace haematite or k-spar alos associated) with minor chlorite veins also present.

91.18	93.18	ZVQC	FRV	5	2		ZVO	FRV	5	1							Quartz-carbonate veining is present with disseminated sulphides and minor k-spar veining is also present in the unit coincident with the K-spar veining along the contact between this possible dyke and the host.
93.18	98.60	ZVQC	STR	2	1		ZVQ	FRV	2		67						A combination of quartz-carbonate and quartz only veining is seen in this unit with some veins showing traces of sulphides associated.
98.60	104.60	ZVCL	FRV	5	7		ZVQC	STR	5	1		ZVQ	FRV	2	2	48	Chlorite veins appear as healing fractures.
104.60	117.74	ZVT	FRV	2	2	36	ZVQC	STR	2	1	66	ZVQ	FRV	2	2	50	Tourmaline veining with associated pyrite is present in this unit.
117.74	119.90	ZVQ	FRV	20	40	60	ZVCL	FRV	20	1	46						Large quartz veins with sulphide run parallel and chlorite veins in dense groups are also present; material is very black finegrained (possible weathered chlorite) postdating the quartzvein with a clear crosscutting relationship
119.90	126.56	ZVQ	FRV	2	4	60	ZVQ	FRV	2	2	57	ZVT	STR	2	1	54	Quartz and tourmaline veining is found as fracture healing.
126.56	128.90	ZVQ	FRV	2	2	57	ZVQ	FRV	2	3	5						Several phases of veining with quartz-chlorite veins cutting earlier quartz veins
128.90	136.86	ZVO	STR	2	2	45	ZVC	STR	2	3	57	ZVQ	FRV	5	3	10	K-spar veins are present but not common, carbonate with haematite sometimes associated are present as are quartz vens with trace sulphides sometimes associated.
136.86	139.80	ZVCL	STR	2	1	56	ZVQ	FRV	2	3							chlorite veining is present in this unit along with quartz fracture healing
139.80	139.91	ZVQC	STR	2	3	56	ZVCL	STR	2	1	57						Chlorite veining is moderate at the top of this unit but lesens downhole. Carbonate veining does not change density. (core unoriented - no dominant direction available)
139.91	141.67	ZVCL	STR	20	3		ZVQC	FRV	20	5							Majority of veining is chlorite with thicker less common quartz-carbonate veining
141.67	147.32	ZVQ	FRV	20	35	25	ZVQ	FRV	20	5	48						several parallel sets of fracture healing quartz veins are present and 3 parallel veins of quartz-haematitie-sulphide dominate
147.32	150.15	ZVQC	FRV	5	3	15	ZVCL	STR	5	1	54						Quartz-carbonate veins dominate this unit wth minor chlorite veining
150.15	152.21	ZVC	FRV	5	2	68	ZVQ	FRV	5	2	45	ZVQC	FRV	5	6	45	Overall veining is strong in this unit with minor chlorite veins also present
152.21	154.17	ZVCL	STR	5	2	32	ZVQC	FRV	5	3	42						Potassic veining has disappeared in this unit
154.17	155.12	ZVCL	FRV	2	5	25	ZVQC	FRV	2	2	40						Overall veining is weak in this unit but sulphides are assoicated with veining
155.12	158.46	ZVC	STR	2	2	15	ZVCL	FRV	2	4	45	ZVCL	FRV	5	3	52	Several thicker chlorite veins have trace sulphides associated
158.46	159.25	ZVQ	FRV	5	35	35	ZVCL	FRV	5								Several parallel quartz veins are present and dominate the unit

159.25	160.96	ZVC	STR	2	2	15	ZVCL	FRV	2	4	45	ZVCL	FRV	5	3	52	Several thicker chlorite veins have trace sulphides associated
160.96	161.25	ZVQC	STR	5					5								unit has 2 distinct phases of veining with thicker quartz-carbonate veins (of common perpendicular to core axis orientation) post-dating the smaller veins.
161.25	162.11	ZVCL	STR	0.5	1	45			0.5								trace veining of chlorite occurs.
162.11	162.38	ZVQ	FRV	5	50	50			5								Short unit dominated by fracture controlled quartz veining.
162.38	167.67	ZVO	FRv	5	80	43	ZVC	STR	5	4	40	ZVCL	STR	2	2	65	unit is dominated by wide veins of haematite-chlorite veins. Carbonate veins network the unit as do chlorite veins.
167.67	171.16	ZVC	STR	5	2	46	ZVQ	FRV	5	6	15	ZVCL	FRV	2	4	54	Trace sulphides are found inassociation with the quartz veins and chlorite veins. Quartz veins are again running just off perpendicular to the core axis as seen in previous units.
171.16	174.05	ZVQC	FRV	5	9	12	ZVO	STR	5	1		ZVCL	FRV	5	10		Veining is dominated by fracture healing and sulphisdes are found in association with the quartz-carbonate veining. Fault - gague zone of very black fine grained material, sheared claylike material resulting on the fracture surface
174.05	175.43	ZVC	STR	2	2	24	ZVCL	STR	2	1	2	ZVQ	FRV	2	4	70	quartz veins running in parallel sets shallow to core axis dominate the ult.
175.43	178.30	ZVQ	FRV	2	2	75	ZVC	STR	2	2	24	ZVCL	STR	2	1	2	unit has similar veinin gto the previous but the quartz veins are now sulphide bearing.
178.30	178.60	ZVQ	FRV	50	5	68	ZVQC	FRV	50	3	72						unit of high quartz fracture veining density. Potassic alteration stemming from the quartz veining.
178.60	183.65	ZVQ	FRV	2	2	75	ZVC	STR	2	2	24	ZVCL	STR	2	1	2	unit has similar veinin gto the previous but the quartz veins are now sulphide bearing.
183.65	195.00	ZVC	STR	2	1		ZVQ	FRV	2	5	80	ZVO	STR	2			unit has weak veining of networking carbonates. 2 quartz veins of similar orientation to previous units are present one with sulphides, one without. Haematite veining also present
195.00	197.20	ZVC	STR	2	2	12	ZVE	FRV	2	3	27	ZVT	FRV	0.5	2	22	unit has a slight increase in carbonate vein thickness and minor tourmaline and epidote veining.
197.20	202.06	ZVQ	FRV	5	20	78	ZVC	STR	5	2	30	ZVCL	FRV	2	2	60	unit is defined by the presence of sulphide bearing quartz veins which run perpendicular to the core axis similar to previous units. Carbonate and chlorite veining network the unit predating the quartz veins.
202.06	204.60	ZVO	FRV	5	15	48	ZVCL	FRV	5	3	45	ZVC	STR	2	1		unit is dominated by the introduction of hematite veins often associated with chlorite. Carbonate veins still network the unit predating the hematite and chlorite.
204.60	208.43	ZVC	STR	2	1		ZVCL	FRV	2	2	43						trace veining of carbonate and chlorite

208.43	209.10	ZVE	FRV	2	7	40	ZVC	STR	2	2						unit is defined by epidote veining; in conjunction with chlorite and minor haematite. Carbonate network vining is still present and predates the epidote veining episode.
209.10	216.20	ZVC	FRV	0.5	0.5	40			0.5							
216.20	216.50	ZVQ	STR	2	3	30			2							k-spar selvages
216.50	217.00	ZVCL	HLN	0.5	0.5				0.5							
217.00	218.00	ZVQ	FRV	5	100	30	ZVQ	BRX	5	100		ZVQC	FRV	2	1	30	gouge/breccia zone
218.00	220.20	ZVQ	TEN	0.5	5	80	ZVQC	STR	0.5	1	30	ZVQC		0.5			
220.20	221.00	ZVQ	TEN	2	5	70			2								contain pyrite +/- chalco
221.00	225.50	ZVQ	TEN	0.5	2.5	80			0.5								contain minor pyrite +/- chalco
225.50	226.50	ZVQ	FRV	2	2	25	ZVQ	TEN	2		80						strong k-spar selvageon the veins
226.50	229.40	ZVQC	FRV	0.5	0.5	25	ZVQ	TEN	0.5	1	80						
229.40	231.05	ZVQ	IRR	5	10	12.5			5								contain chalco and associated with strong epidote alteration
231.05	234.50	ZVQ	IRR	2	10	12.5	ZVQ	TEN	2	2	70						regular veins contain chalco and associated with strong epidote alteration
234.50	236.40	ZVQ	TEN	2	2	75	ZVCL	FRV	2	1	20	ZVQ	FTV	2	40	40	quartz veins contain minor pyrite +/- chalcopyrite, fault vein is a one off in a fault/shear and contains minor molybdenum.
236.40	238.30	ZVCL	FRV	0.5	0.5	30	ZVQ	FRV	0.5	2	30						at 237.4 narrow zone of moderate chlorite-quartz veining
238.30	240.30	ZVQC	TEN	0.5	2	85	ZVCL	FRV	0.5	0.5	15	ZVO	FRV	0.5	0.5	10	
240.30	241.50	ZVQ	TEN	0.5	3	30	ZVQC	HLN	0.5	0.25							
241.50	243.10	ZVQ	TEN	2	10	20	ZVQC	HLN	2	0.5	45	ZVQ	IRR	0.5	3	7.5	
243.10	248.40	ZVQ	TEN	0.5	2	80	ZVQ	FRV	0.5	2	40						cpy vein is a one off
248.40	248.90	ZVQC	FTV	50			ZVQ		50	5	40						contains minor toumaline fragments. Massive fragment and breccia material
248.90	254.00	ZVQ	TEN	0.5	4	70	ZVCL	HLN	0.5	0.5	30	ZVT	FRV	0.5	2	15	quartz veins are broadly spaced. Only one tourmaline vein
254.00	257.20	ZVQ	FRV	0.5	2	50	ZVCL	FRV	0.5	1	40	ZVQC	HLN	0.5			
257.20	267.80	ZVQ	TEN	0.5	4	75	ZVQC	FRV	0.5	2	40	ZVQC	HLN	0.5			Chloritic hairline fractures also . At 259.6m there is a shear vein approx.5cm in width (Chlorite-carbonate)
267.80	268.95	ZVCL	FRV	0.5	0.5	35	ZVQC	FRV	0.5	5	40						only one quartz-carb vein in the unit
268.95	269.90	ZVCL	FRV	5	1	20			5								locally greater than 1cm
269.90	272.40	ZVQ	FRV	0.5	1	75	ZVQC	HLN	0.5	0.5							
272.40	274.30	ZVCL	FRV	0.5	0.5	45	ZVQC	HLN	0.5	0.5		ZVQC	TEN	0.5	4	45	one only contains chalcopyrite
274.30	275.20	ZVQ	TEN	2	4	60	ZVCL	HLN	2	0.5	20						quartz vein contains pyrite

275.20	277.00	ZVCL	HLN	0.5	0.5		ZVC	HLN	0.5	0.5							
277.00	277.43	ZVQ	FRV	20	30	15			20								highly fractured fault gouge/zone
277.43	279.00	ZVQ	TEN	0.5	2	65	ZVT	HLN	0.5	0.5	40						
279.00	280.20	ZVT	STR	2	2	5			2								
280.20	280.80	ZVT	FRV	0.5	1	40	ZVQC	STR	0.5	0.5							
280.80	282.80	ZVQC	TEN	0.5	2	80	ZVQ	IRR	0.5	2							
282.80	286.80	ZVQC	HLN	0.5	0.5		ZVQ	IRR	0.5	2		ZVCL	HLN	0.5	2	35	sulphides are pyrite and chalcopyrite
286.80	290.20	ZVQ	IRR	0.5	2		ZVQC	HLN	0.5	1		ZVCL	HLN	0.5	0.5	70	
290.20	290.80	ZVCL	FRV	2	3	45	ZVQC	HLN	2	0.5							
290.80	293.50	ZVCL	IRR	0.5	2		ZVQ	TEN	0.5	2.5	60						
293.50	294.30	ZVCL	TEN	2	2	30	ZVQ	FRV	2	10	10						open spaced quartz crystals growing in to cavity
294.30	295.20	ZVQ	TEN	2	4	75	ZVCL	HLN	2	0.5	15						
295.20	297.30	ZVQC	HLN	0.5	0.5		ZVCL	HLN	0.5	0.5							
297.30	299.50	ZVCL	HLN	0.5	0.5	45	ZVQC	HLN	0.5	0.5		ZVQ	TEN	0.5	3	70	quartz veins contain sulphides
299.50	306.50	ZVQC	HLN	0.5	0.5		ZVO	FRV	0.5	0.5		ZVCL	FRV	0.5	1	60	
306.50	307.00	ZVQ	IRR	5	10	60			5								minor pyrite and chalcopyrite in quartz veins
307.00	308.80	ZVQC	STR	0.5	1	15	ZVCL	HLN	0.5	0.5		ZVO	FRV	0.5	0.5		
308.80	310.90	ZVQC	IRR	2	5				2								
310.90	312.05	ZVQC	STR	0.5	2	70	ZVQ	TEN	0.5	3	80						
312.05	316.15	ZVQC	STR	0.5	1		ZVE	FRV	0.5	2	50	ZVQ	TEN	0.5	4	40	one quartz-k-spar-epidote sulphide bearing vein
316.15	318.50	ZVQC	FRV	2	1	25	ZVQC	TEN	2	5	70						quartz-carb angle is dominant angle but there are multiple sets, pyritic selvage ont eh tension veins
318.50	320.50	ZVC	HLN	0.5	0.5		ZVCL	FRV	0.5	0.5		ZVQ	HLN		1	65	
320.50	321.30	ZVC	HLN	0.5					0.5								very minor veins
321.30	323.25	ZVQC	TEN	2	10	75	ZVC	FRV	2	2	70						
323.25	325.00	ZVC	FRV	0.5	1	70	ZVQC	HLN	0.5	1	60	ZVO	FRV	0.5	1	60	
325.00	327.00	ZVQC	FRV	0.5	4	50	ZVC	FRV	0.5	1	70	ZVE	FRV	0.5	1	40	
327.00	335.10	ZVC	HLN	0.5	0.5		ZVQ	TEN	0.5	5	45	ZVO	FRV	0.5	1	40	quartz vein contains pyrite + chlorite (a one off),
335.10	339.50	ZVQC	HLN	0.5	1	60	ZVE	HLN	0.5	1	60	ZVO	FRV	0.5	1.5	60	epidote - fractures associated with patchy epidote alteration
339.50	341.65	ZVO	HLN	0.5	1	70	ZVE	FRV	0.5	4	25	ZVQC	BRX	2	12	25	irregular pyrite veins
341.65	343.40	ZVC	FRV	0.5	0.5	15	ZVO	FRV	0.5	1	60						
343.40	344.50	ZVE	FRV	2	2	40	ZVC	HLN	2	0.5							epidote veins associated with extensive epidote alteration
344.50	357.50	ZVQC	FRV	0.5	1	35	ZVO	FRV	0.5	1	50	ZVE	HLN	0.5	0.5		epidote veins associated with extensive epidote alteration

357.50	359.00	ZVQC	TEN	2	5	70	ZVQC	BRX	2	2	70	ZVQ		0.5	30	25	quartz-carb vine has pyritic selvages, quartz vein is a one off with open space crystal growth
359.00	369.00	ZVC	HLN	0.5	0.5	40	ZVE	HLN	0.5	1	40	ZVQC	FRV	0.5	2	30	epidote veins associated with extensive epidote alteration
369.00	370.00	ZVO	HLN	0.5	0.5	15	ZVC	HLN	0.5	0.5	15						
370.00	371.30	ZVC	HLN	2					2								
371.30	372.80	ZVO	BRX	5	60		ZVE	BRX	5	50		ZVQ	IRR	2	3		Weak irregualr k-spar veins (approx 2mm thick)
372.80	377.75	ZVO	FRV	2	2	30	ZVQC	FRV	2	1		ZVE	IRR	2	1		
377.75	378.30	ZVC	STR	20	2	20	ZVQC	STR	20	4							
378.30	382.00	ZVQC	HLN	0.5	0.5	35	ZVE	FRV	0.5	2	35	ZVO	HLN	0.5	0.5		
382.00	383.20	ZVQ	IRR	2	8	10	ZVO	FRV	2	2	20	ZVO	IRR	0.5	5		
383.20	383.80	ZVC	IRR	0.5	1		ZVO	HLN	0.5	2	30						
383.80	388.90	ZVQ	IRR	2	5		ZVC	HLN	2	0.5	40	ZVE	FRV	2	1	35	trace magnetite veinlets also.
388.90	408.13	ZVC	HLN	0.5			ZVQC	TEN	0.5	4	30	ZVO	HLN	2	0.5	45	trace chlorite veinlets 35 degrees to core, trace epidote veinlets

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
7.31	15.57	trace disseminated pyrite scattered throughout the unit	PY	diss	0.1
15.57	23.17	pyrite associated with veining either within quartz veins or within veining oxidised at the edges. Trace disseminated pyrite is also still found in the unit	PY	diss	0.2
			PY	vein	0.2
23.17	28.66	trace disseminated pyrite scattered throughout the unit. Suplhi.dation appears to be associated with the mafic component of the rock	PY	diss	0.1
28.66	30.19	pyrite is found disseminated through the unit and also within quartz and heamatite veins.	PY	diss	0.2
			PY	vein	0.1
30.19	34.64	trace disseminated pyrite scattered throughout the unit	PY	diss	0.1
34.64	37.00	disseminated and vein realted pyrtie are present; a trace amount of chalcopyrite is also present in bled form.	PY	diss	0.1
			PY	vein	0.1
			CCP	diss	0.05
37.00	41.30	trace disseminated pyrite scattered throughout the unit associated with mafic components, pyrite also found in tourmaline, fracture related veins	PY	diss	0.1
			PY	vein	0.1
41.30	45.77	trace disseminated pyrtie is present. Veins of pyrite associated with heamatite and tourmaline are are strong in the unit and veining appears to be fracture related.	PY	vein	0.5
			PY	diss	0.2
45.77	52.16	trace disseminated pyrite scattered throughout the unit associated with mafic components.	PY	diss	0.2
52.16	55.30	pyrite is found associated in haematite and quartz veins relating to fracturing. Other disseminated pyrite is also present in the unit. Weak local disseminations of chalcopyrite, locally quartz vein-hosted (B veins?).	PY	vein	0.4
			PY	diss	0.2
			CCP	diss	0.15

			CCP	vein	0.15
55.30	57.43	disseminated pyrite and chalcopyrite are found in this unit, assocition with mafic material and disseminated haematite is evident.	CCP	diss	0.1
			PY	diss	0.1
57.43	64.80	Pyrite is found most often as infill of healed fractures in this unit but is sometimes assoicated with haematite or in association with quartz infill.	PY	vein	0.2
			CCP	vein	0.1
64.80	65.36	trace disseminated pyrite present. Haematitie often present with it.	PY	diss	0.1
			CCP	diss	0.05
65.36	66.35	no visible sulphides	CCP	diss	0.25
			PY	diss	0.2
			PY	vein	0.2
66.35	70.10	trace disseminated pyrite is present and associated with the mafic minerals in the groundmass. Veins appear to be minor healed fractures. Chalcopyrite is observed as weak disseminations, as well as early vein/fracture hosted.	CCP	vein	0.5
			PY	diss	0.25
			PY	vein	0.25
70.10	77.21	Increasing amounts of disseminated pyrite (associated with mafic material in the groundmass) and the introduction of trace chalcopyrite. Minor veining of pyrite is also present. Haematite association with the sulphides is evident.	PY	diss	0.4
			PY	vein	0.3
			CCP	diss	0.2
			CCP	vein	0.1
77.21	80.66	Further increases of pyrite and chalcopyrite in this unit compared to the previous unit. Veins at less than 1mm thick and appear to be related to fracture healing	PY	diss	0.6
			PY	vein	0.5
			CCP	diss	0.2
			CCP	vein	0.2
80.66	91.80	Slight decrease in both disseminated and vein sulphides occurs in this unit but sulphides present are associated with mafic material. The decrease continues down the unit.	PY	diss	0.4
			CCP	diss	0.2
			PY	vein	0.2
			CCP	vein	0.1
93.18	103.95	trace disseminated sulphides are found in the groundmass of this unit; associated with the mafic material. Minor grains of magnetite are present.	CCP	diss	0.1
			PY	diss	0.1
			PY	vein	0.1
103.95	119.26	trace disseminated pyrite associated with mafic material is present; as are trace amounts of pyrite held in quartz veining	CCP	vein	0.2
			PY	diss	0.2
			PY	vein	0.1
119.26	120.84	The majority of pyrite is found in large quartz veins, with trace disseminations in the rest of the unit. Chalcopyrite observed in early quartz veins (B veins).	CCP	vein	0.35
			PY	vein	0.2
			PY	diss	0.15
			MOL	vein	0.05
120.84	126.00	Trace disseminated sulphides re present but not in any appreciable amounts	PY	diss	0.05
126.00	129.75	Sulphides in this unit are associated with quartz and carbonate veins	PY	vein	0.2

			CCP	diss	0.1
			CCP	vein	0.1
			PY	diss	0.1
129.75	136.58	Trace disseminated sulphides re present but not in any appreciable amounts	PY	diss	0.05
147.00	147.40	sulphides are found in association with quartz and haematite veins	PY	vein	0.6
			CCP	vein	0.4
			PY	diss	0.1
147.40	154.39	sulphides are found in blebs throughout the unit and associated with mafic materials	PY	diss	0.3
			CCP	diss	0.1
154.39	157.53	sulphides disseminated in the unit are associated with the mafic material.	PY	diss	0.2
			CCP	diss	0.1
157.53	160.96	scattered disseminated sulphides associated with mafic components of the unit.	CCP	diss	0.2
			PY	diss	0.2
			CCP	vein	0.1
			PY	vein	0.1
161.25	162.65	sulphides are associated with mafic material in both the groudmass and the veining	PY	diss	0.2
			CCP	diss	0.1
			CCP	vein	0.1
			PY	vein	0.1
162.65	163.70	sulphides are concentrated in veins of chlorite and haematitie but disseminated sulphides have also increased relative to the previous unit.	PY	vein	0.4
			PY	diss	0.3
			CCP	diss	0.2
			CCP	vein	0.2
163.70	166.66	sulphides are associated with mafic content in the groundmass. Alteration here is highly silisic and albitised.	CCP	diss	0.1
			PY	diss	0.1
166.66	176.85	sulphides are associated with mafic material when found disseminated and trace sulphides are found in quartz veining. Albitization and silicification prevail for most of the unit.	PY	diss	0.2
			CCP	diss	0.1
			CCP	vein	0.1
			PY	vein	0.1
176.85	183.70	disseminated sulphides are assoicated with mafic material in the groudmass while vein sulphides are found in quartz fracture veins and earlier weaker chlorite veins.	PY	diss	0.2
			PY	vein	0.2
			CCP	diss	0.1
			CCP	vein	0.1
183.70	197.23	trace patches of sulphides are present but not in any discernible amounts	CCP	diss	0.05
			CCP	vein	0.05
			PY	diss	0.05
			PY	vein	0.05
197.23	201.90	one strongly pyritic quartz vein dominates the unit b ut the rest shows only trace dissemination of sulphides.	CCP	diss	0.1
			PY	diss	0.1
			PY	vein	0.1

201.90	204.75	sulphides present in veins of quatz and in association with chlorite veins or patches of chlorite and mafics.	PY	diss	0.2
			PY	vein	0.2
			CCP	diss	0.1
204.75	209.35	Sulphides are scattered and patchy but associated with mafic materials.	CCP	diss	0.1
			PY	diss	0.1
			PY	vein	0.1
209.35	215.00	irregularly spaced sulphide bearing fracture surfaces	PY	vein	0.1
			CCP	diss	0.05
			CCP	vein	0.05
			PY	diss	0.05
215.00	216.90	pyrite concentrated in selvage of chlorite -k-spar assemblages.	PY	vsel	0.2
			PY	diss	0.1
			CCP	diss	0.05
216.90	218.00		PY	vsel	0.2
			PY	fsel	0.05
218.00	221.25	sulphides associated with quartz veins	PY	vsel	0.15
			PY	vein	0.1
221.25	225.00		PY	diss	0.3
			CCP	fsel	0.1
225.00	226.90		CCP	fsel	0.05
			PY	diss	0.05
226.90	228.50		PY	fsel	0.05
228.50	229.02	chalcopyrite ofund in quartz vein and epidote-albite selvage	CCP	vsel	0.2
			PY	diss	0.15
			PY	vein	0.05
229.02	229.81	chalco associated with albite-epidote veins.	CCP	vsel	0.3
			CCP	vein	0.2
			PY	vein	0.05
229.81	234.00	quartz veinlets hosting sulphides	CCP	vein	0.4
			CCP	vsel	0.3
			PY	diss	0.1
234.00	234.50	Chalcopyrite observed in milky quartz veins (comb veins?) and related fractures.	CCP	vein	0.2
			PY	diss	0.15
			PY	vein	0.15
234.50	236.40		PY	diss	0.4
			CCP	vein	0.2
			PY	vein	0.2
			MOL	vein	0.05
236.40	238.30		PY	diss	0.15
			PY	ff	0.05
238.30	240.80		PY	vein	0.4
			PY	diss	0.3

			CCP	vein	0.05
240.80	243.95		CCP	vein	0.05
			PY	diss	0.05
243.95	248.40		PY	vein	0.05
			CCP	vein	0.025
248.40	248.80	Chalcopyrite primarily hosted in quartz-tourmaline-haematite vein within zone	PY	diss	0.4
			CCP	vein	0.2
248.80	250.50		PY	vein	0.05
			CCP	vein	0.025
250.50	253.95		PY	diss	0.025
253.95	257.15	Associated with fine dark material	PY	diss	0.05
257.15	259.50	sulphides concentrated in discrete patches	CCP	diss	0.05
			PY	diss	0.05
259.50	259.75	concentrated in k-spar alteration on edge of zone. Chalcopyrite associated with possible patchy chlorite/biotite alteration.	CCP	diss	0.2
			PY	diss	0.2
259.75	261.20	sulphides mostly concentrated in zones of high fracture density	PY	diss	0.3
			CCP	diss	0.1
			PY	vein	0.1
261.70	267.80	mostly devoid of sulphide except for rare patches	PY	pat	0.05
			CCP	pat	0.02
267.80	268.95		PY	ff	0.2
			PY	diss	0.1
268.95	269.90		CCP	ff	0.2
			PY	ff	0.2
			PY	diss	0.1
269.90	272.48	Chalcopyrite associated with possible chlorite/biotite veining.	CCP	vein	0.2
			PY	diss	0.2
272.48	274.30		PY	ff	0.1
			CCP	ff	0.05
274.30	277.15		PY	ff	0.1
277.15	277.43	abundant pyrite no visible chalcopyrite	PY	diss	2
277.43	279.00		PY	vein	0.2
			PY	diss	0.1
			CCP	diss	0.05
279.00	279.50		PY	diss	0.75
			CCP	diss	0.05
279.50	280.80		PY	diss	0.5
			CCP	diss	0.1
280.80	283.80		CCP	pat	0.15
			PY	pat	0.15
282.40	383.70		PY	diss	0.3
283.80	284.60		PY	diss	0.4

			CCP	vein	0.1
			PY	vein	0.1
284.60	286.50		CCP	vein	0.5
			PY	vein	0.4
			PY	diss	0.3
286.50	287.70	Chalcopyrite seen in early fractures/microfractures. Locally in tourmaline veinlets (remobilized?).	CCP	vein	0.3
			PY	diss	0.3
287.70	291.00		PY	diss	0.5
			CCP	vein	0.2
291.00	291.70		PY	pat	0.5
			CCP	pat	0.2
			CCP	vein	0.2
			PY	diss	0.2
291.70	293.40		PY	diss	0.4
			CCP	vein	0.3
293.40	294.80		PY	diss	0.3
			CCP	vein	0.2
			PY	vein	0.2
294.80	297.20		PY	diss	0.3
			PY	vein	0.3
			CCP	vein	0.2
			CCP	diss	0.1
297.20	299.40	Replacement/associated with biotite/chlorite blebs-- disseminated.	CCP	vein	0.35
			PY	diss	0.3
			PY	vein	0.3
299.40	301.80		CCP	diss	0.3
			PY	diss	0.2
			PY	vein	0.2
301.80	303.50		PY	diss	0.3
			PY	vein	0.2
			CCP	pat	0.1
			CCP	vein	0.1
303.50	304.40		CCP	diss	0.3
			PY	diss	0.3
			PY	vein	0.3
			CCP	vein	0.1
304.40	307.30		PY	diss	0.1
			PY	pat	0.1
			CCP	vein	0.05
307.30	308.90		PY	pat	0.2
			PY	vein	0.1
			CCP	pat	0.05

308.90	310.80		PY	vein	0.1
310.80	312.00		PY	vein	0.1
			CCP	vein	0.05
312.00	313.30	local patches of abundant pyrite associated with epidote alteration	PY	pat	0.5
			PY	vein	0.5
313.30	317.70		PY	vein	0.5
			PY	pat	0.2
317.70	318.90		PY	diss	0.5
			PY	ff	0.5
			PY	vsel	0.5
318.90	320.50		PY	diss	1
			PY	ff	0.5
320.50	323.25	local high concentrations of pyrite in quartz-sericite altered zones.	PY	pat	1
			PY	ff	0.5
323.25	328.20		PY	diss	1.5
			PY	ff	0.5
328.20	331.00		PY	diss	1.5
331.00	332.00		PY	diss	0.4
			PY	vein	0.2
332.00	336.80		PY	pat	1
336.80	342.00		PY	diss	0.5
			PY	ff	0.5
			PY	fsel	0.5
342.00	343.30		PY	pat	2
			PY	ff	1
			PY	fsel	0.5
343.30	344.60	patchy pyrite associated with strong epidote alteration	PY	pat	4
			PY	diss	1
			PY	ff	1
344.60	345.80		PY	diss	1.5
			PY	pat	1
			PY	ff	0.5
345.80	346.90		PY	diss	0.5
			PY	ff	0.5
346.90	348.90		PY	diss	1.5
348.90	350.00		PY	diss	1.5
			PY	ff	1
350.00	351.60		PY	diss	1.5
351.60	353.00		PY	diss	3
			PY	ff	1.5
353.00	354.50		PY	pat	1.5
354.50	356.60		PY	diss	1.5

			PY	pat	1.5
			PY	ff	0.5
356.60	358.00		PY	ff	1
			PY	diss	0.5
358.00	359.00		PY	diss	0.5
			PY	vsel	0.5
359.00	365.50		PY	diss	1
			PY	ff	0.5
365.50	369.10		PY	diss	0.8
			PY	ff	0.5
			PY	vein	0.3
369.10	369.70		PY	ff	1.5
			PY	diss	0.5
369.70	370.30		PY	diss	1
370.30	370.70		PY	pat	1
			PY	ff	0.3
370.70	371.05		PY	pat	2
			PY	ff	1
			CCP	pat	0.3
371.05	371.40		PY	pat	4
			CCP	pat	1
371.40	371.90	Fracture/microfracture-hosted chalcopyrite, with associated iron oxides (goethite).	CCP	diss	2
			PY	diss	2
371.90	372.70		CCP	diss	2
			PY	pat	2
			PY	ff	1
372.70	374.00		PY	diss	2
			PY	ff	1
374.00	382.00		PY	diss	1
			PY	ff	1
382.00	382.40		PY	vein	4
383.70	388.20		PY	diss	1
			PY	ff	0.5
			PY	vsel	0.5
388.20	388.60	sulphides associated with quartz, magnetite, chlorite fracture zone.	CCP	ff	1.5
			PY	ff	1.5
388.60	389.60		PY	diss	1
			PY	ff	0.5
			PY	vsel	0.5
389.60	391.00		PY	diss	0.1
391.00	400.00		PY	diss	1
			PY	ff	0.5

400.00	402.70	PY	diss	1
		PY	pat	1
		PY	vsel	0.5
402.70	405.60	PY	diss	1.5
405.60	408.13	PY	diss	3

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
7.31	15.39		ZRO	WK								Weak fracturing highlighted by oxidation along fractures
15.39	17.47		ZRO	MOD								Oxidation along current fractures with quartz fracture veining present having healed older fractures
17.47	20.11		ZRO	STG								Healed fractures with veining quartz and chlorite as well as unhealed fractures with oxidation.
20.11	24.08		ZRO	MOD								Oxidation along current fractures with quartz fracture veining present having healed older fractures
24.08	24.46		ZRO	STG								Fracturing unit is highly weathered with possible fault gouge
24.46	40.22		ZRO	MOD								Unhealed fractures show k-keldspar mineralisation, while healed fractures contain predominantly quartz
40.22	48.25		ZRO	STG								Fractures are healed by haematite-pyrite veining, tourmaline and quartz-carbonate veins. Current open fractures show minor oxidation on the fracture surfaces
48.25	50.40		ZRO	MOD								Quartz and chlorite healing of fractures with weak oxidation of current open fracture faces
50.40	52.07		ZRO	WK								Little evidence of the healed fractures present in the overlying units. Fractures have quartz and chlorite veining associated with them.
52.07	54.04		ZRO	MOD								Fracture healing with pyrite is evident in this unit, along with minor quarts-cardbonate and chlorite fracture associated veins
54.04	59.14		ZRO	MOD								Current fracturing has some fe-oxidation on the surfaces; while healed fractures are associated with quartz-carbonate, haematite and chlorite fracture veining.
59.14	69.00		ZRO	WK								Current fracturing shows oxidation in the upper part of the unit. No previous (headled) fractures are evident.
69.00	70.37		ZRO	STG								Multiple headed fracture sets are evident in this unit. Veins of fracture healing are dominately quartz and quartz-carbonate with some chlorite veins also.
70.37	76.08		ZRO	MOD								Current fracturing surfaces show oxidation. Healed fractures are moderate in intensity and infilled with quartz.
76.08	80.66		ZRO	STG								current fracturing shows carbonate-chlorite on the surfaces while multiple phases of healed fractures are present infilled with quartz and often sulphides.
80.66	87.78		ZRO	MOD								Current fracturing is weak with minro oxidation on the surfaces. Healed fractures show veins of quartz and quartz-carbonate and chlorite dominantely.
87.78	87.85		ZFG	MOD								Fault gouge - highly friable material
87.85	89.57		ZRO	MOD								Current fracturing is weak with minor oxidation on the surfaces. Healed fractures show veins of quartz and quartz-carbonate and chlorite dominantely.
89.57	90.00		ZRO	STG								Current fracturing is highly concentrated in this unit
90.00	90.34		ZRO	MOD								Current fracturing is weak with minor oxidation on the surfaces. Healed fractures show veins of quartz and quartz-carbonate and chlorite dominantely.
90.34	92.50		ZRO	WK								quartz-carbonate filled healed fractures are rare and the unit is generally unfractured
92.50	92.80		ZRO	MOD								Current fracturing is highly concentrated in this unit
92.80	94.10		ZRO	WK								quartz-carbonate filled healed fractures are rare and the unit is generally unfractured
94.10	94.54		ZRO	MOD								Several phases of healed fractures are evident in this unit. Vein fills consist of carbonate and quartz.

94.54	98.35	ZRO	WK	Fracturing of this unit is weak is healed fractures of quartz and carbonate.
98.35	101.60	ZRO	MOD	Several phases of heald fractures are present with quartz, quartz-carbonate or chlorite infill.
101.60	112.90	ZRO	WK	Fracturing of the unit is weak is healed fractures of quartz and chlorite.
112.90	113.43	ZRO	MOD	numerous healed fracutres are represented by chlorite and quartz veining.
113.43	117.96	ZRO	WK	Fracturing of this unit is weak is healed fractures of quartz and chlorite.
117.96	120.70	ZRO	MOD	fractures healed with chlorite and quartz veining dominate. Several phases of fracturing are evident and oxidation has occurred on some.
120.70	126.00	ZRO	WK	Fracturing of this unit is weak with current fracturing showing oxidation on the surfaces. Falut gague .
126.00	126.70	ZRO	MOD	Several phases of fracturing have occurred in this unit with chlorite forming the majority of healed fractures.
126.70	133.63	ZRO	WK	Fracturing is weak in this unit with quartz-carbonate healing of old fractures.
133.63	137.18	ZRO	MOD	Several phases of fracturing occurred with microfracturing healed with carbonate
137.18	153.16	ZRO	WK	Fracturing is weak in the area with a few healed fractures of quartz-carbonate.
153.16	153.93	ZRO	MOD	Fracture healing of this unit comprises quartz-carbonate veining and chlorite veining. Several phase are apparent.
153.93	156.05	ZRO	WK	Fracturing is weak in the area with a few healed fractures of quartz-carbonate.
156.05	158.46	ZRO	MOD	Fracture healing of this unit comprises quartz-carbonate veining and chlorite veining. Several phase are apparent.
158.46	159.25	ZRO	WK	Quartz fractrure veining dominates the unit
159.25	160.96	ZRO	MOD	Fracture healing of this unit comprises quartz-carbonate veining and chlorite veining. Several phase are apparent.
160.96	161.25	ZRO	MOD	Quartz-carbonate veining occurs with several phses of fracture healing
161.25	166.18	ZRO	WK	Fracture healing of this unit comprises quartz-carbonate veining and chlorite veining. Several phase are apparent.
166.18	168.89	ZRO	MOD	An increase in fracture healing with prodominantly quarzt-carbonate veining
168.89	170.65	ZRO	WK	fracture healing is still evident but to a lesser extent.
170.65	172.30	ZRO	STG	higher intensity of healed fracture veining (carbonates) and a set of parallel quartz fracture veins.
172.30	176.28	ZRO	WK	fracture healing is still evident but to a lesser extent.
176.28	178.76	ZRO	MOD	intensity of fracture heaing has increased relative to the previous unit. Quartz fracture veining has potasic alteration stemming from it.
178.76	186.10	ZRO	WK	only minor traces of healed fractures are evident
186.10	195.00	ZRO	MOD	several phases of healing fractures are evident and current fracturing has increased in intensity in this unit compared to previous units but structure is weak to moderate in intensity
195.00	196.46	ZRO	WK	only minor traces of healed fractures are evident
196.46	197.23	ZRO	MOD	Several phases of fracture healing are evident. Structures are moderate to strong in intensity
197.23	199.15	ZRO	WK	Healing fractures have decreased in intensity and few current fractures are seen.
199.15	201.16	ZRO	MOD	healing fractures are more abundant and show several phases of past fracturing.
201.16	207.09	ZRO	WK	healed fracture veining is weak.
207.09	216.00	ZRO	MOD	veining and healed fractures increase in intensity relative to the previous unit showing several phases of past fracturing
216.00	216.90	ZRO	WK	
216.90	217.90	ZRO	STG	multiphase alteration in zoneof high fracture density and fault brecciation
217.90	220.30	ZRO	WK	
220.30	221.20	ZRO	MOD	

221.20	225.50	ZRO	WK	
225.50	226.90	ZRO	MOD	
226.90	228.42	ZRO	WK	
228.42	229.02	IID		
229.02	229.80	ZRO	WK	
229.80	231.10	ZRO	MOD	
231.10	232.10	ZRO	WK	
232.10	234.50	ZRO	MOD	
234.50	236.40	ZRO	STG	high fracture density in sheared altered rock
236.40	238.30	ZRO	WK	quartz chlorite fault breccia at 237.6
238.30	240.20	ZRO	MOD	
240.20	240.90	ZRO	WK	
240.90	243.50	ZRO	MOD	
243.50	248.00	ZRO	WK	
248.00	249.00	ZRO	MOD	locally intense fracturing and fault breccia
249.00	255.50	ZRO	WK	
255.50	259.50	ZRO	MOD	
259.50	260.90	ZRO	STG	k-spar and sulphide mineralization correlates with zone of high fracture density
260.90	265.50	ZRO	WK	
265.50	268.90	ZRO	MOD	
268.90	269.90	ZRO	STG	
269.90	272.50	ZRO	WK	
272.50	274.30	ZRO	MOD	
274.30	275.30	ZRO	MOD	moderate tension fractures of consistant orientation and regularly spaced
275.30	277.10	ZRO	WK	
277.10	277.43	ZRO	INT	Fault/breccia
277.43	279.50	ZRO	WK	
279.50	280.80	ZRO	MOD	
280.80	284.00	ZRO	WK	
284.00	285.00	ZRO	MOD	
285.00	287.00	ZRO	STG	
287.00	289.00	ZRO	MOD	
289.00	290.20	ZRO	WK	
290.20	293.40	ZRO	MOD	
293.40	294.20	ZRO	STG	
294.20	297.20	ZRO	MOD	
297.20	298.40	ZRO	WK	
298.40	306.00	ZRO	MOD	
306.00	307.00	ZRO	WK	
307.00	309.00	ZRO	STG	
309.00	310.30	ZRO	WK	
310.30	311.05	ZRO	MOD	

311.05	319.40	ZRO	WK
319.40	320.50	ZRO	MOD
320.50	321.00	ZRO	TR
321.00	323.40	ZRO	STG
323.40	325.00	ZRO	WK
325.00	328.50	ZRO	MOD
328.50	333.00	ZRO	WK
333.00	334.00	ZRO	MOD
334.00	335.15	ZRO	WK
335.15	337.10	ZRO	MOD
337.10	339.00	ZRO	WK
339.00	339.80	ZRO	MOD
339.80	341.40	ZRO	STG
341.40	344.60	ZRO	MOD
344.60	349.00	ZRO	WK
349.00	352.10	ZRO	MOD
352.10	353.90	ZRO	WK
353.90	356.60	ZRO	MOD
356.60	358.00	ZRO	WK
358.00	359.40	ZRO	MOD
359.40	361.70	ZRO	WK
361.70	370.40	ZRO	MOD
370.40	373.00	ZRO	STG
373.00	379.00	ZRO	MOD
379.00	385.40	ZRO	WK
385.40	386.80	ZRO	MOD
386.80	389.70	ZRO	WK
389.70	390.85	ZRO	MOD
390.85	398.60	ZRO	WK
398.60	401.40	ZRO	MOD
401.40	401.80	ZSO	
401.80	406.00	ZRO	MOD
406.00	407.30	ZRO	WK
407.30	408.13	ZRO	MOD

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
31.45	ZVCL	1	53.0	10.0		67	96		Chlorite-haematite fracture healing vein with oxidation occuring
31.85	ZRO	0.01	47.0	240.0		36	6		Parallel sets of fractures with K-feldspar vein selvage
35.30	ZVQ	0.5	38.0	280.0		62	28		Quartz vein associated with healing of fracture. Several parallel veins in the vacinity
35.57	ZVCL	0.1	41.0	330.0		76	66		Chlorite vein with parallel sets int eh vacinity and sulphide associations

54.98	ZVQC	1.5	54.0	50.0	59	121	highly oxidized vein of uatrz-carbonate and haematitie wirth parallel sets of healed fractures in the vacinity
56.89	ZVCL	0.1	76.0	200.0	17	73	healed fracture vein of chlorite with parallel sets in the vacinity
57.75	ZVCL	0.2	26.0	0.0	86	269	Chlorite-haematite vein possible healed fracture with parallel open racture near by.
59.67	ZVQ	0.3	78.0	280.0	34	68	Quartz vein with several parallel sets.
62.09	ZVO	0.1	44.0	55.0	67	129	Pyrite vein with minor heamatite. 2nd parallel vein approx 6cm away, 3rd parallel vein approx 1m away
62.86	ZVQ	0.2	42.0	307.0	69	50	Quartz vein with several parallel sets in the vacinity.
65.66	ZVCL	0.1	46.0	70.0	60	138	Chlorite vein with multiple parallel sets in the vacinity.
69.50	ZVQC	0.3	51.0	280.0	52	37	Quartz-Carbonate vein one of three parallel veins.
70.79	ZVQ	0.4	33.0	220.0	38	331	Quartz vein with associated chlorite and with several smaller parallel quartz veins in the vacinity
74.14	ZVC	0.1	63.0	270.0	39	44	Fracture vein with Carbonate, chlorite and heamatitie.
76.80	ZVC	0.1	18.0	20.0	80	289	Fracture vein with Carbonate, chlorite and heamatitie.
79.93	ZRO	0.01	54.0	90.0	45	145	Fracture with several parallel in the vacinity and parallel quartz veins also nearby.
83.04	ZVQC	0.5	62.0	150.0	14	160	Quartz vein with minor carbonate and trace pyrite crystals.
85.94	ZVQC	2.2	41.0	310.0	71	52	Strong carbonate content with pyrite and chalcopyrite crystals.
96.59	ZVQ	1	67.0	195.0	9	52	quartz vein with mtrace carbonate and associated pyrite crystals.
97.86	ZVC	1.5	15.0	175.0	45	263	Carbonate-chlorite vein (fracture healing)
101.90	ZVQ	0.4	75.0	260.0	31	60	several quartz veins run parallel in this area
103.98	ZVQ	0.1	82.0	235.0	26	75	parallel set of fracture healing quartz veins.
107.61	ZVQC	0.1	66.0	275.0	39	50	parallel set of carbonate veins
111.35	ZVT	0.5	47.0	110.0	41	166	Tourmaline vein part of a set nearby and parallel
112.81	ZVQ	0.9	81.0	340.0	38	85	Quartz vein runnign parallel to several in the vacinity
118.09	ZRO	0.01	29.0	160.0	34	238	Current fracture with several running parallel in the vacinity
119.70	ZVQ	4.7	60.0	280.0	45	46	Quartz vein with trace sulphides in it. Part of a set.
159.96	ZVCL	0.1	42.0	0.0	78	91	Chlorite vein with several parallel veins in the vacinity
161.07	ZVQC	0.3	45.0	45.0	68	123	Quartz-carbonate vein with parallel sets in the vacinity.
169.78	ZVQ	0.4	58.0	296.0	51	54	quartz vein part of a set and with chlorite and k-spar alteration stemming from it.
170.80	ZVC	0.1	33.0	11.0	86	100	Carbonate vein from fracture healing. Numerous similar viens in the vacinity
171.76	ZVQ	4	45.0	225.0	30	351	Quartz vein with trace sulphides and chlorite, haematite associations.
175.52	ZVQ	0.3	75.0	45.0	41	107	Quartz vein with trace sulphides and part of a parallel set.
176.97	ZVQ	0.5	34.0	297.0	72	40	Quartz vein with trace sulphides and part of a parallel set.
178.36	ZVCL	0.6	67.0	250.0	30	44	Quartz-chlorite-sulphide vein with trace sulphides.
183.12	ZVQ	0.5	66.0	312.0	49	68	Quartz vein with trace sulphides and part of a parallel set.
195.14	ZVE	0.4	32.0	338.0	86	73	epidote vein in the same orientation to quartz and chlorite veins in the vacinity
196.44	ZVCL	0.1	65.0	171.0	6	130	one of a set of parallel chloride veins in the area.
196.88	ZVQ	0.2	84.0	222.0	25	82	quartz vein part of the similar set running through the core thus far
197.95	ZVQ	2	84.0	327.0	35	86	Quartz vein with trace sulphides and part of a parallel set. Chlorite associated with it also
203.06	ZVCL	0.9	35.0	10.0	84	100	trace sulphides associated with this vein. Parallel set of similar chlorite only veins in the vacinity
206.79	ZVCL	0.2	25.0	354.0	86	266	2mm chlorite vein with similar parallel veins in the vacinity
208.77	ZVQ	10	28.0	15.0	89	285	zone of chlorite, epidote, haematite with trace sulphides all stemming from a fracture healing quartz vein

208.80	ZVC	0.1	20.0	66.0	84	152	Carbonate vein with chlorite and k-par vein selvage. Set of similar carbonate veins running down the core axis are also in the vacinity.
214.76	SCA	0.001	65.0	270.0	38	48	Alteration contact
215.52	ZVC	0.1	70.0	275.0	37	57	One of a set of Carbonate veins in the unit.
227.34	ZVCL	2.5	68.0	260.0	33	50	
228.47	SCI	0.001	46.0	330.0	71	71	Upper contact
229.02	SCI	0.001	38.0	330.0	78	69	Lower contact of dyke intrusion
232.62	ZVQ	0.8	15.0	60.0	89	329	
233.00	ZVQ	0.8	15.0	55.0	87	325	
234.31	ZVQ	0.3	70.0	160.0	13	125	multiple veins in similar orientation in the vacinity
236.18	ZVQ	4	35.0	30.0	81	117	sheared altered rock with molybdenite
237.37	ZVCL	8	25.0	340.0	87	254	Fracture zone
241.88	ZVQ	1.5	18.0	60.0	88	148	
243.00	ZVQ	2	20.0	60.0	86	147	
274.37	ZVQ	4	60.0	200.0	10	11	
274.48	ZVQ	4	55.0	210.0	17	359	numerous other veins of this orientation in the zone
277.20	ZVT	40	27.0	30.0	89	121	fault/gauge zone
290.37	ZVQC	3	42.0	0.0	78	95	multiple veins on this type in the interval.
295.13	ZVQ	8	80.0	270.0	31	76	quartz vein with minor carbonate and pyrite+/- chalcopyrite.
295.50	ZVQ	3	50.0	280.0	52	42	quartz pyrite vein +/- chalcopyrite.
302.79	ZVQC	17	55.0	200.0	12	348	
305.40	ZVCL	0.2	55.0	30.0	62	115	
310.13	ZVQC	1	75.0	285.0	36	71	
311.20	ZVQ	0.4	70.0	160.0	13	128	
312.35	ZVQC	0.1	35.0	70.0	69	152	representative of many in the area
312.52	ZVE	0.2	35.0	60.0	73	144	
313.76	ZVQ	1	68.0	250.0	30	51	
314.20	ZVE	0.3	50.0	90.0	48	156	
325.33	ZVQ	0.4	57.0	210.0	16	8	pyrite bearign quartz vein.
325.59	ZVQ	0.2	62.0	180.0	2	97	quartz vein, one of several similar veins in the area.
331.81	ZVQ	1.2	45.0	95.0	50	165	
336.25	ZVE	0.5	38.0	0.0	82	98	epidote altertion associated with other veins of similar orientation in the area
348.32	ZVE	0.4	39.0	40.0	75	130	epidote altertion associated with other veins of similar orientation in the area
353.16	ZVQ	2	70.0	230.0	22	55	
358.11	ZVQ	0.2	82.0	330.0	37	92	one of several similar veins in the area.
359.15	ZVQ	3	23.0	90.0	70	177	Open vein of quartz crystal growths, similar to another in the area
362.66	ZVE	1.5	32.0	10.0	87	108	
364.25	ZVE	2	45.0	85.0	54	160	vein is associated with epidote alteration
364.65	ZVC	0.6	49.0	115.0	37	177	
364.90	ZVE	0.3	25.0	35.0	90	131	
388.35	ZVO	0.3	42.0	50.0	70	138	quartz-chlorite fracture associated with sulphides
388.55	ZVQC	0.4	30.0	20.0	88	118	
401.33	ZVO	1	30.0	345.0	89	88	

401.61	ZSO	0.001	40.0	0.0	80	101
402.59	ZVQC	0.3	75.0	240.0	25	69
407.42	ZVQ	0.8	25.0	330.0	89	254

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
7.31	9.00	408162	CORE_HALF	45.07	1.1	0.97	3.03	40.7	6.9	0.056	5300	0.037	0.09	0.98	0.06
9.00	11.00	408163	CORE_HALF	48.41	61.7	2.33	3.73	30.9	23.5	0.131	4700	0.024	0.21	2.84	0.14
11.00	13.02	408164	CORE_HALF	65.89	7.9	4.36	4.19	42.4	9.3	0.172	4700	-0.005	0.15	3.12	0.05
13.02	15.00	408165	CORE_HALF	280.63	10.4	8.04	3.69	41.1	60.4	0.222	4900	0.007	0.35	3.38	0.73
15.00	17.02	408166	CORE_HALF	361.89	21	8.44	3.34	37.7	39.4	0.281	4400	0.009	0.4	3.91	1.78
17.02	19.00	408167	CORE_HALF	392.39	22.3	5.16	3.46	34.8	45.5	0.271	2800	-0.005	0.31	7.62	1.28
19.00	21.00	408168	CORE_HALF	442.67	49.3	11.24	2.74	36.4	29.5	0.337	4400	-0.005	0.31	5.55	1.52
21.00	23.00	408169	CORE_HALF	266.28	27.9	5.48	4.08	32.2	12.8	0.252	2700	0.005	0.25	4.77	1.5
23.00	25.00	408170	CORE_HALF	463.55	48.9	43.68	6.38	37.8	31.4	0.33	2500	0.007	0.43	13.62	2.31
25.00	27.00	408171	CORE_HALF	503.83	71.7	15.8	4.22	35.9	50.1	0.359	1500	-0.005	0.46	8.97	1.6
27.00	29.00	408172	CORE_HALF	846.4	48.3	15.85	4.61	42	35.6	0.4	2000	-0.005	0.37	6.5	1.81
29.00	31.00	408173	CORE_HALF	381.17	63.8	10.08	4.09	41.1	13	0.311	2400	-0.005	0.35	5.39	1.27
31.00	33.00	408174	CORE_HALF	656.28	114.6	14.75	4.94	48.4	24.3	0.412	1700	-0.005	0.35	5.02	0.94
33.00	35.00	408175	CORE_HALF	1857.97	171	9.39	5.43	55.1	95.5	0.84	2300	-0.005	0.27	13.18	0.71
35.00	37.00	408176	CORE_HALF	870.77	73.9	20.47	4.55	41.3	36.2	0.464	3400	-0.005	0.25	4.73	0.5
37.00	38.00	408177	CORE_HALF	254.04	30.1	7.66	3.84	31.6	9.4	0.184	1700	-0.005	0.24	2.94	0.23
38.00	40.00	408178	CORE_HALF	680.04	53.6	19.98	4.4	42.5	109.5	0.419	2800	0.005	0.35	11.75	0.89
40.00	42.00	408179	CORE_HALF	1538.96	85.7	28.97	5.88	46.2	83.4	1.034	1300	0.008	0.41	11.7	1.25
42.00	44.00	408180	CORE_HALF	657.1	47.6	4.15	4.61	54.2	75.5	0.453	2100	-0.005	0.3	12.56	0.68
44.00	46.00	408181	CORE_HALF	1795.81	131.8	4.5	5.3	51.4	152.7	1.161	2200	0.011	0.43	36.42	1.42
46.00	48.00	408182	CORE_HALF	1321.71	90.9	3.75	5.61	46.4	166.6	0.963	2000	0.008	0.3	25.42	0.61
48.00	50.00	408183	CORE_HALF	712.18	48.7	5.22	4.16	36.5	108.7	0.548	2100	0.007	0.34	16.71	0.82
50.00	52.00	408184	CORE_HALF	949.59	60.4	5.17	3.26	36.8	179.7	0.676	1600	0.05	0.44	15.08	1.32
52.00	54.00	408185	CORE_HALF	1238.58	66.3	9.72	4.19	36.4	209.2	0.79	1700	0.106	0.4	4.57	1.16
54.00	55.72	408186	CORE_HALF	2145.78	74.6	12.83	6.3	33.7	145.6	1.17	2000	0.411	0.25	20.9	0.56
55.72	58.00	408187	CORE_HALF	680.65	35.6	6.2	2.5	26.6	108.6	0.401	2200	0.04	0.14	7.66	0.24
58.00	59.04	408189	CORE_HALF	508.87	29.6	3.6	2.03	23.2	86.4	0.362	2100	0.008	0.28	2.08	0.44
59.04	61.00	408190	CORE_HALF	1856.38	94.5	2.93	3.19	23.6	56.1	0.829	1700	0.009	0.17	4.11	0.82
61.00	63.00	408191	CORE_HALF	1358.34	65.7	3.91	2.64	27	82.1	0.575	2000	0.009	0.23	11.32	1.15
63.00	65.00	408192	CORE_HALF	1672.74	62.8	7.38	2.69	26	105.3	1.012	2400	0.014	0.35	16.74	1.11
65.00	67.01	408193	CORE_HALF	2339.83	87.2	2.78	2.64	20.4	151.9	1.186	2000	0.016	0.19	22.28	0.36

67.01	69.00	408194	CORE_HALF	4198	387.8	2.84	3.09	29.4	146.6	1.448	4800	0.01	0.16	100.11	0.69
69.00	71.00	408195	CORE_HALF	2211.88	178.7	2.58	2.69	23.5	95.8	0.922	2000	0.027	0.26	12.4	0.52
71.00	72.00	408196	CORE_HALF	2273.63	109.3	10.36	2.74	25.7	37	0.834	2900	0.011	0.25	3.13	1.03
72.00	74.00	408197	CORE_HALF	1479.6	99.1	3.33	2.48	27.4	28.2	0.541	3000	0.009	0.17	1.09	0.59
74.00	76.00	408198	CORE_HALF	2938.78	178.1	7.1	3.09	35.9	13	1.166	2500	0.019	0.28	1.74	1.69
76.00	78.00	408199	CORE_HALF	1530	78.4	3.52	4.58	48.2	56.7	0.939	2500	0.007	0.46	0.63	1.81
78.00	79.00	408200	CORE_HALF	1766.38	91.1	1.9	3.33	48.8	3.3	0.873	3600	0.034	0.32	5.51	2.25
79.00	80.70	408201	CORE_HALF	1896.29	149.4	1.58	3.72	37	60.8	1.06	2300	0.072	0.37	18.59	2.75
80.70	83.00	408202	CORE_HALF	1985.58	123.7	7.98	2.46	33.7	458.4	1.235	1900	0.011	0.28	0.84	0.97
83.00	84.00	408203	CORE_HALF	582.9	37.5	12.16	2.46	29.4	142.7	0.449	1600	0.01	0.37	0.67	0.78
84.00	85.00	408204	CORE_HALF	1000.24	55.4	2.05	4.16	52	36.2	0.518	3000	0.017	0.23	1.31	0.97
85.00	87.00	408205	CORE_HALF	1603.79	114.7	4.15	2.21	43.8	8.6	1.193	1700	0.034	0.59	2.14	1.03
87.00	89.00	408206	CORE_HALF	1207.12	56.8	10.7	2.65	36.3	39.1	0.624	2700	0.034	0.3	1.65	0.54
89.00	91.60	408207	CORE_HALF	557.78	26.8	2.38	2.23	26.8	134.5	0.329	1800	0.121	0.3	2.82	0.18
91.60	93.20	408209	CORE_HALF	527.88	105.6	1.04	2.11	38	25.4	0.372	8800	0.09	0.88	1.76	0.44
93.20	95.00	408210	CORE_HALF	1606.83	77.1	5.71	2.59	32.1	347.9	1.036	1800	0.047	0.39	7.55	0.47
95.00	97.00	408211	CORE_HALF	1599.45	114.2	4.77	1.93	29.2	13.1	0.745	2500	-0.005	0.21	0.34	0.28
97.00	99.00	408212	CORE_HALF	1557.17	94.1	6.44	3.29	21.5	226.6	1.039	2100	0.036	0.54	7.38	0.44
99.00	101.00	408213	CORE_HALF	2406.56	132.3	4.87	8.31	36	432.8	1.997	1400	2.065	0.46	34.91	0.47
101.00	103.00	408214	CORE_HALF	1978.58	152.5	4.55	2.69	31.7	437.8	0.864	1700	1.186	0.18	12.54	0.44
103.00	105.00	408215	CORE_HALF	1610.67	171.6	5.58	2.78	28.8	378.3	0.891	1700	0.025	0.29	1.71	0.27
105.00	107.00	408216	CORE_HALF	2120.1	262.5	2.85	2.43	24.7	334.4	0.808	1500	0.017	0.37	0.57	0.26
107.00	109.00	408217	CORE_HALF	2756.8	375.1	1.99	2.49	22.2	289.4	1.086	1800	0.005	0.14	0.48	0.36
109.00	111.00	408218	CORE_HALF	4346.91	536.9	9.54	6	56.4	367.9	2.067	1200	4.858	0.23	56.82	0.56
111.00	113.00	408219	CORE_HALF	2548.56	175.2	16.4	4.1	41.5	658.1	1.374	900	2.376	0.19	54.08	0.35
113.00	115.00	408220	CORE_HALF	4680.54	940.4	10.07	3.96	45.9	759.4	2.846	1300	1.774	0.28	29.15	0.61
115.00	117.00	408221	CORE_HALF	3763.18	338.1	6.34	2.73	29.9	929.5	2.058	1300	0.028	0.23	1.92	0.45
117.00	117.90	408222	CORE_HALF	1151.14	75	3.65	1.84	23.3	404.8	0.676	1300	0.024	0.08	6.61	0.16
117.90	119.28	408223	CORE_HALF	5413.99	542.7	20.46	5.11	47.2	2132.5	2.497	800	0.313	0.2	22.25	0.69
119.28	121.00	408224	CORE_HALF	6224.49	673.5	15.04	4.92	53.5	2034.1	3.09	1100	0.494	0.28	29.75	0.89
121.00	123.00	408225	CORE_HALF	1751.22	122.6	6.98	2.36	43.8	468.8	0.787	1300	0.828	0.11	39.07	0.36
123.00	125.00	408226	CORE_HALF	2325.76	232.4	9.58	2.49	38.7	707.5	1.34	1100	0.049	0.29	6.31	0.75
125.00	127.00	408227	CORE_HALF	2164.34	112.1	11.79	13.08	58.1	275.7	1.502	1300	3.043	0.43	49.47	0.84
127.00	129.00	408229	CORE_HALF	1038.67	47.6	9.29	2.15	37.4	206.4	0.604	1600	0.105	0.3	3.08	0.81
129.00	131.00	408230	CORE_HALF	1974.16	113.5	6.62	2.09	37.7	36.8	1.09	1300	0.032	0.26	0.6	0.45
131.00	133.00	408231	CORE_HALF	1333.89	86.6	2.04	1.53	35.4	128.9	0.643	1400	0.012	0.12	0.18	0.23

133.00	135.00	408232	CORE_HALF	1827.81	114.1	9.33	2.76	33.4	149.8	0.955	2300	0.048	0.18	2.96	0.31
135.00	136.55	408233	CORE_HALF	1635.51	97.9	2.13	2.58	35.9	64.3	0.919	2900	0.016	0.48	1.41	0.33
136.55	138.00	408234	CORE_HALF	814.96	38.7	3.96	2.09	27.9	95.5	0.54	1400	0.048	0.11	10.7	0.19
138.00	140.00	408235	CORE_HALF	1222.62	95.8	9.02	5.64	49.8	69.3	0.922	1600	2.159	0.25	46.34	0.56
140.00	142.00	408236	CORE_HALF	756.12	50.2	14.78	5.84	35.7	34	0.515	1900	2.525	0.11	45.19	0.14
142.00	144.00	408237	CORE_HALF	427.59	17.8	9.58	6.02	43.1	24.1	0.26	1500	1.065	0.12	27.93	0.11
144.00	146.00	408238	CORE_HALF	686.39	20.7	5.52	8.05	35.9	58.8	0.471	1500	1.587	0.15	131.17	0.08
146.00	147.00	408239	CORE_HALF	1666.09	108	6.49	4.79	44	71.5	1.492	1400	0.674	0.14	96.72	0.26
147.00	148.00	408240	CORE_HALF	3661.4	331.5	12.88	4.33	32.7	47.7	2.237	1700	0.02	0.18	27.02	0.56
148.00	150.00	408241	CORE_HALF	2514.96	184.1	3.52	3.26	34.6	7.6	1.511	2400	0.009	0.16	3.04	0.44
150.00	152.00	408242	CORE_HALF	1279.1	95.6	4.75	3.57	40.4	5.2	0.738	3800	0.016	0.16	1.85	0.48
152.00	153.31	408243	CORE_HALF	1176.48	80.6	11.4	5.4	38	14.5	0.762	2200	0.659	0.24	9.17	0.68
153.31	155.05	408244	CORE_HALF	1086.23	125.8	7.69	3.95	54.6	72.9	0.645	7100	0.007	0.19	3.07	0.45
155.05	157.00	408245	CORE_HALF	1619.35	190.5	7.23	2.72	30.8	3.3	0.8	4400	0.011	0.31	0.46	0.42
157.00	158.35	408246	CORE_HALF	2271.17	243.6	4.07	3.53	29.6	5.4	0.973	4800	0.007	0.11	1.25	0.33
158.35	160.35	408247	CORE_HALF	1867.81	125	13.91	3.07	26.2	79	1.378	2700	0.277	1.58	23.83	0.43
160.35	162.05	408249	CORE_HALF	1406.85	90.3	13.44	4.03	36.1	396.8	0.613	3700	0.046	0.14	21.43	0.8
162.05	163.00	408250	CORE_HALF	920.94	56.8	31.6	2.86	36.5	151.8	0.605	900	8.44	0.28	91.79	1.05
163.00	164.47	408251	CORE_HALF	996.55	52	12.86	4.41	30.7	90.6	0.694	1500	1.468	0.32	32.07	1.37
164.47	166.08	408252	CORE_HALF	745.18	84.3	6.02	2.5	26.9	53.1	0.627	1500	0.594	0.34	32.87	0.9
166.08	168.03	408253	CORE_HALF	1032.81	62.4	4.44	1.73	26.5	29.5	0.626	2300	0.02	0.16	3.92	0.39
168.03	169.95	408254	CORE_HALF	996.54	42	8.42	4.14	29.1	49.3	0.83	1900	2.741	0.38	39.07	0.28
169.95	171.40	408255	CORE_HALF	462.41	39.1	10.3	1.89	21.1	11.7	0.339	3800	0.012	0.14	1.92	0.17
171.40	172.86	408256	CORE_HALF	336.91	9.8	3.74	1.62	17.4	48.3	0.357	3200	0.385	0.17	11.88	0.07
172.86	174.34	408257	CORE_HALF	803.18	30	14.45	1.89	24.7	119	0.562	2200	4.265	0.18	58.15	0.36
174.34	176.05	408258	CORE_HALF	1382.31	63.2	3.44	1.74	26.1	6	0.937	4300	0.021	0.14	1.06	0.32
176.05	177.95	408259	CORE_HALF	778.31	35.2	2.44	1.39	28.2	4.3	0.775	4500	0.023	1.05	0.7	0.14
177.95	179.91	408260	CORE_HALF	1820.24	82.3	6.73	2.05	27.7	2.5	1.296	1700	0.009	0.24	0.31	0.5
179.91	181.91	408261	CORE_HALF	967.45	45.3	4.54	2.54	30	3.1	0.656	2700	0.005	0.43	0.34	0.37
181.91	183.90	408262	CORE_HALF	2183.93	221.7	6.62	3.3	32.8	2.5	1.506	3000	0.006	0.38	0.31	0.49
183.90	185.95	408263	CORE_HALF	316.14	19	4.87	2.15	25.8	2.2	0.233	4000	-0.005	0.06	0.23	0.06
185.95	187.00	408264	CORE_HALF	632.25	37	6.77	1.72	23.1	1.6	0.363	3100	-0.005	0.12	0.2	0.13
187.00	188.94	408265	CORE_HALF	285.45	16.4	1.19	1.7	29.8	1.9	0.186	5200	-0.005	0.05	0.17	0.05
188.94	191.00	408266	CORE_HALF	366.54	20.3	1.06	1.64	25.3	2.2	0.258	4800	-0.005	0.08	0.25	0.07
191.00	193.00	408267	CORE_HALF	376.89	22	16.88	2.23	25.2	3.6	0.258	4000	-0.005	0.08	0.62	0.06
193.00	195.00	408269	CORE_HALF	425.96	28.1	1.82	2.76	24.9	2.9	0.262	2800	-0.005	0.08	0.28	0.07

195.00	197.00	408270	CORE_HALF	535.65	33.3	10.66	3.35	23.1	11.9	0.338	3200	-0.005	0.09	6.28	0.17
197.00	199.00	408271	CORE_HALF	1081.94	79.9	11.94	4.03	34.2	52.3	0.889	5900	0.033	1.1	34.2	0.74
199.00	200.85	408272	CORE_HALF	67.54	4.8	1.85	1.98	25.7	5	0.075	2600	-0.005	0.06	2.07	0.03
200.85	202.82	408273	CORE_HALF	1215.24	71	6.2	1.68	33.2	4.8	0.908	5300	0.005	0.15	0.61	0.39
202.82	204.99	408274	CORE_HALF	538.45	34.9	11.34	2.66	23.2	10.6	0.451	3400	0.132	0.36	12.75	0.56
204.99	206.97	408275	CORE_HALF	797.58	50.7	6.79	3.51	28.7	60.5	0.562	3000	0.262	0.22	50.29	0.57
206.97	208.90	408276	CORE_HALF	1026.1	82.4	12.84	1.93	26.3	3.5	0.543	2200	-0.005	0.12	0.64	0.3
208.90	210.90	408277	CORE_HALF	239.82	17.3	4.46	2.01	23	3.8	0.153	3700	-0.005	0.08	0.65	0.07
210.90	212.90	408278	CORE_HALF	652.3	46.5	0.94	2.24	25.2	2.8	0.316	1700	-0.005	0.08	0.22	0.09
212.90	214.05	408279	CORE_HALF	385.94	23.1	5.76	1.73	24.6	3.1	0.244	3300	-0.005	0.1	0.19	0.08
214.05	216.10	408280	CORE_HALF	828.81	49	2	2.03	20.5	3.6	0.478	3000	-0.005	0.11	0.22	0.15
216.10	218.00	408281	CORE_HALF	84.82	6.8	2.65	2.57	20.1	5.1	0.091	2700	-0.005	0.17	0.83	0.17
218.00	220.00	408282	CORE_HALF	289.57	30.9	2.47	2.49	18	6.5	0.204	3200	0.007	0.31	1.98	0.15
220.00	221.25	408283	CORE_HALF	1254.52	89.4	2.24	2	18.6	7.1	0.91	3500	-0.005	0.12	0.33	0.37
221.25	222.95	408284	CORE_HALF	1286.93	74.3	3.3	3.53	17.5	76.3	0.912	2300	0.038	0.18	45.09	0.23
222.95	224.92	408285	CORE_HALF	1312.08	67.9	8.13	3.51	19	71.6	0.882	2500	0.086	0.37	50.73	0.24
224.92	227.00	408286	CORE_HALF	847.47	52.3	2.57	2.41	20.9	32.5	0.548	2500	-0.005	0.17	2.64	0.32
227.00	228.40	408287	CORE_HALF	812.97	49.9	3.87	3.06	19.4	59.9	0.52	1800	-0.005	0.1	4.59	0.12
228.40	229.80	408289	CORE_HALF	1298.54	56.6	2.32	2.57	57.5	15.6	1.186	5500	0.046	0.12	7.32	0.19
229.80	231.20	408290	CORE_HALF	960.09	75.3	21.84	6.7	36.6	17.6	2.487	3400	0.054	0.3	13.9	0.19
231.20	232.20	408291	CORE_HALF	2241.83	83.3	7.21	3.11	46.8	19.9	1.642	2400	0.098	0.1	12.44	0.33
232.20	234.00	408292	CORE_HALF	2655.79	141.7	15.01	3.3	96.3	36.4	6.846	3000	1.696	0.36	59.53	0.38
234.00	235.00	408293	CORE_HALF	2209.24	177.7	1.89	1.88	17.7	17.8	0.963	2500	0.602	0.18	22.46	0.67
235.00	236.35	408294	CORE_HALF	694.45	25.5	36.98	3.14	17.4	30.2	0.383	3700	0.674	0.2	60.41	0.3
236.35	238.25	408295	CORE_HALF	718.37	33	25.93	3.04	14.2	84.9	0.525	2400	0.641	0.28	32.96	0.25
238.25	239.25	408296	CORE_HALF	525.11	15.8	33.86	2.64	15.5	23.8	0.353	2700	0.028	0.2	7.31	0.14
239.25	240.90	408297	CORE_HALF	217.79	15.3	34.85	2.5	15.6	5.9	0.191	2100	0.012	0.28	1.11	0.3
240.90	242.00	408298	CORE_HALF	478.76	52.8	21.54	2.41	20.6	4.3	0.477	2000	0.006	2.88	0.44	0.67
242.00	243.00	408299	CORE_HALF	166.39	14.1	16.44	3.13	23	4.4	0.131	3500	0.009	0.17	0.48	0.45
243.00	244.00	408300	CORE_HALF	121.14	4.3	73.69	2.8	20.7	6.1	0.111	3200	0.054	0.18	3.26	0.08
244.00	246.00	408301	CORE_HALF	488.02	24.3	9.36	4.16	26.1	19	0.317	1600	1.082	0.32	27.89	0.21
246.00	248.00	408302	CORE_HALF	274.14	20.3	38.15	3.07	16.6	9.8	0.182	1400	0.067	0.16	4.34	0.06
248.00	249.00	408303	CORE_HALF	570.02	33.7	111.17	3.75	28.1	19.6	0.38	700	0.076	0.16	2	0.17
249.00	250.60	408304	CORE_HALF	209.83	19.3	22.2	2.78	21.2	3.8	0.182	1000	0.042	0.16	0.63	0.09
250.60	252.70	408305	CORE_HALF	492.94	18.7	11.67	3.01	21	16.4	0.344	1500	0.032	0.2	3.25	0.15
252.70	254.00	408306	CORE_HALF	1259.77	75.6	7.33	5.21	27.1	50.6	0.771	1300	0.09	0.18	4.1	0.17

254.00	255.60	408307	CORE_HALF	649.27	27.1	13.03	3.17	24.5	7.8	0.423	900	0.019	0.09	1.59	0.09
255.60	257.60	408309	CORE_HALF	735.42	41.7	28.1	4.2	33.7	24.9	0.478	1600	0.01	0.23	2.35	0.09
257.60	259.10	408310	CORE_HALF	1173.17	112	15.65	5.25	37.2	30.6	0.792	1200	0.006	0.46	1.5	0.16
259.10	260.90	408311	CORE_HALF	2326.23	175.2	3.81	5.03	38	34.4	1.553	1100	0.011	1.26	4.43	0.3
260.90	262.50	408312	CORE_HALF	117.41	11.9	7.73	3.54	26.5	9	0.135	1000	-0.005	0.16	0.94	0.05
262.50	264.00	408313	CORE_HALF	230.91	15.9	11.22	3.24	25.9	5.9	0.207	1100	0.005	0.27	0.28	0.06
264.00	266.00	408314	CORE_HALF	722.52	27.8	15.05	2.49	26.4	8.4	0.432	1400	-0.005	0.26	0.18	0.11
266.00	268.00	408315	CORE_HALF	302.24	26.2	3.38	2.76	27.5	15.1	0.303	1400	0.094	0.15	1.71	0.08
268.00	270.00	408316	CORE_HALF	1265.13	33.8	9.79	4.62	24.8	26.5	1.063	1200	1.523	0.27	18.19	0.82
270.00	272.40	408317	CORE_HALF	2488.31	109.1	7.42	3.19	17.4	30.2	1.566	1200	0.025	0.11	0.5	0.39
272.40	274.60	408318	CORE_HALF	586.39	36.6	3.94	1.75	24.4	9.9	0.373	1900	0.005	0.11	0.19	0.19
274.60	276.30	408319	CORE_HALF	636.65	43.7	3.62	2.35	17.6	51.7	0.583	1500	0.026	0.23	3.29	0.45
276.30	278.00	408320	CORE_HALF	907.15	30.6	3.97	2.82	14.7	39.9	0.886	1900	0.405	0.26	12.91	1.07
278.00	280.10	408321	CORE_HALF	842.13	24.3	12.57	3.29	20.1	14.6	0.692	1500	1.905	0.33	8.33	0.73
280.10	282.00	408322	CORE_HALF	1011	27.8	6.46	2.51	16.4	14.8	0.67	1700	0.009	0.26	0.29	0.46
282.00	283.80	408323	CORE_HALF	1543.7	61.1	7.65	2.04	20.7	6.1	0.822	1400	0.009	0.08	0.18	0.23
283.80	285.00	408324	CORE_HALF	1333.78	38.4	2.6	1.89	22.9	15.4	0.838	1900	0.021	0.17	0.57	0.55
285.00	286.00	408325	CORE_HALF	2568.73	45.5	3.28	2.27	21.5	3	1.42	2000	-0.005	0.3	0.26	0.56
286.00	287.00	408326	CORE_HALF	4566.37	80.6	13.79	1.68	27.6	1.9	2.809	1400	-0.005	0.2	0.24	0.54
287.00	288.00	408327	CORE_HALF	840.56	21.6	40.52	2.12	23.2	7.6	0.672	2300	-0.005	0.26	1.17	0.32
288.00	289.00	408329	CORE_HALF	894.89	22.2	5.14	2.61	20.3	9.7	0.625	2100	-0.005	0.19	0.25	0.71
289.00	290.00	408330	CORE_HALF	856.57	25.1	5.25	3.15	17.2	24.1	0.608	1800	-0.005	0.24	0.41	0.79
290.00	292.00	408331	CORE_HALF	1344.45	25.7	2.6	3.23	16.5	26.5	0.858	2500	0.053	0.2	4.73	0.34
292.00	293.80	408332	CORE_HALF	736.69	22.4	5.41	2.86	13.5	18.9	0.588	2800	0.005	0.2	1.79	0.31
293.80	296.00	408333	CORE_HALF	1334.8	46.1	39.22	4.06	15.5	28.8	1.201	2400	0.008	0.55	2.17	0.48
296.00	298.00	408334	CORE_HALF	1365.05	38.4	19.21	3.9	18.1	57.4	1.114	2700	0.627	0.33	24.26	0.45
298.00	300.00	408335	CORE_HALF	2630.17	65.6	11.65	3.48	17.9	113.7	1.802	2900	0.073	0.38	36.4	0.49
300.00	302.00	408336	CORE_HALF	1516.72	36.9	37.12	4.5	21.6	92.4	1.346	2800	0.249	0.25	64.27	0.22
302.00	304.00	408337	CORE_HALF	1508.73	60.7	3.92	6.42	43	75	1.091	3000	9.164	0.4	67.19	0.32
304.00	306.00	408338	CORE_HALF	1725.09	47.7	5.25	6.22	45.9	59.5	1.743	2400	9.682	0.78	74.12	0.51
306.00	307.00	408339	CORE_HALF	393.22	7.6	13.01	1.69	26.7	7.7	0.29	2100	0.085	0.11	1.82	0.12
307.00	308.90	408340	CORE_HALF	525.45	48.1	7	3.46	39.2	23.1	0.449	4700	0.153	0.24	2.24	0.17
308.90	310.80	408341	CORE_HALF	621.7	13.6	6.36	4.17	23.4	19	0.509	4100	0.25	0.18	2.98	0.21
310.80	311.70	408342	CORE_HALF	295.54	18.3	4.66	3.41	58.7	22.4	0.234	11700	0.043	0.87	1.96	0.33
311.70	313.00	408343	CORE_HALF	975.01	60.6	4.8	4.25	55	16.4	0.985	16700	0.016	1.33	0.86	1.5
313.00	315.00	408344	CORE_HALF	275.17	24.3	4.22	4.84	49.4	17.1	0.245	11300	0.102	0.33	2.18	0.53

315.00	317.00	408345	CORE_HALF	255.98	16.2	1.93	4.91	51.4	14.9	0.209	13400	0.075	0.3	1.36	0.28
317.00	319.00	408346	CORE_HALF	126.53	10.3	5.6	3.32	51.6	12.7	0.109	21300	0.014	0.22	0.2	0.49
319.00	321.00	408347	CORE_HALF	167.01	25.2	14.2	4.02	33	12.4	0.183	7400	0.014	0.4	0.75	0.92
321.00	323.00	408349	CORE_HALF	303.82	19.4	26.68	4.25	37.4	17.4	0.502	8100	0.062	0.83	15.3	0.99
323.00	325.00	408350	CORE_HALF	527.23	25.6	60.75	1.89	45.5	13.5	0.528	14700	0.007	0.56	0.28	1.05
325.00	327.00	408351	CORE_HALF	614.11	46.4	42.61	3.02	63	20.5	0.83	10300	-0.005	0.68	0.37	2.9
327.00	329.00	408352	CORE_HALF	131.45	14.4	8.8	1.66	37.8	12.4	0.141	12000	-0.005	0.2	0.28	0.82
329.00	331.00	408353	CORE_HALF	159.67	18.3	11.44	1.94	36.1	13.3	0.174	15600	0.006	0.36	0.16	1.23
331.00	333.00	408354	CORE_HALF	313.51	39.8	11.28	1.48	37.7	9.1	0.215	14800	-0.005	0.11	0.15	0.28
333.00	335.00	408355	CORE_HALF	941.09	246.1	15.59	1.82	42.6	11.1	0.717	15300	-0.005	0.17	0.19	0.43
335.00	337.00	408356	CORE_HALF	11.74	7.9	6.37	1.96	30.2	11.7	0.028	6900	-0.005	0.22	0.86	0.82
337.00	339.00	408357	CORE_HALF	70.18	13.7	6.77	1.73	39.1	20	0.059	10700	-0.005	0.32	0.27	1.8
339.00	341.00	408358	CORE_HALF	38.96	16.3	7.11	2.25	30.3	17.3	0.051	4500	-0.005	0.39	0.87	1.71
341.00	343.00	408359	CORE_HALF	71.05	22.6	1.35	1.97	47.2	17.6	0.076	17800	-0.005	0.88	0.37	4.32
343.00	345.00	408360	CORE_HALF	108.29	32.6	7.01	2.08	46	21.4	0.101	20500	-0.005	0.91	0.44	6.02
345.00	347.00	408361	CORE_HALF	32.83	12.2	3.2	1.45	36.8	14	0.034	17800	-0.005	0.33	0.42	1.61
347.00	349.00	408362	CORE_HALF	35.28	15.7	8.97	1.58	33.6	15.6	0.04	11600	-0.005	0.41	0.45	2
349.00	351.00	408363	CORE_HALF	19.74	9.3	22.15	2.07	35	13.5	0.036	7400	-0.005	0.39	0.77	1.58
351.00	353.00	408364	CORE_HALF	35.14	12.1	12.1	1.85	36.7	14.3	0.045	13100	0.006	0.73	0.41	2.49
353.00	355.00	408365	CORE_HALF	13.1	6.4	30.54	2.2	37.2	11.2	0.02	8900	-0.005	0.36	0.49	1.42
355.00	357.00	408366	CORE_HALF	132.71	13.5	11.61	2.09	33.2	11.8	0.123	13500	-0.005	0.35	0.43	1.64
357.00	359.00	408367	CORE_HALF	414.82	22	5.19	2.22	42.6	8.2	0.404	13100	-0.005	0.51	0.36	1.15
359.00	361.00	408369	CORE_HALF	21.78	4.8	7.87	2.07	38.2	10.9	0.023	16900	-0.005	0.3	0.55	0.96
361.00	363.00	408370	CORE_HALF	31.57	3.8	7.41	1.23	42	7.7	0.039	14000	-0.005	0.21	0.45	0.6
363.00	365.00	408371	CORE_HALF	19.02	2.8	8.74	1.6	45.9	7.2	0.023	14900	-0.005	0.13	0.74	0.33
365.00	366.00	408372	CORE_HALF	11.89	-0.2	8.48	2.41	53.6	9.3	0.015	17700	-0.005	0.16	1.78	0.04
366.00	367.80	408373	CORE_HALF	30.92	6.4	14.19	2.86	26.2	7.9	0.05	4700	0.011	0.43	0.96	1.08
367.80	369.00	408374	CORE_HALF	22.51	5.5	8.37	2.66	28.1	9	0.03	4100	0.006	0.35	2.23	1.19
369.00	370.00	408375	CORE_HALF	45.15	9.3	3.13	3.38	27.8	9.2	0.053	7400	0.014	0.37	1.31	1.21
370.00	371.00	408376	CORE_HALF	383.48	28.9	29.26	3.51	31.5	8.7	0.36	7500	0.06	0.68	1.2	1.3
371.00	372.00	408377	CORE_HALF	8169.51	330.7	10.9	6.43	39.4	20.9	6.456	3300	0.089	1.11	7.28	1.85
372.00	373.00	408378	CORE_HALF	586.87	24.6	156.83	2.95	22.5	7.4	0.473	4800	0.01	0.56	2.25	0.45
373.00	375.00	408379	CORE_HALF	54.59	3.8	102.9	2	45.4	5.6	0.056	12700	-0.005	0.16	0.75	0.06
375.00	377.00	408380	CORE_HALF	17.06	2	48.08	1.32	45.4	6.1	0.023	20200	0.006	0.1	0.44	0.01
377.00	379.00	408381	CORE_HALF	138.17	7	38.23	2.41	44.1	10.3	0.092	8800	0.019	0.12	1.34	0.14
379.00	381.00	408382	CORE_HALF	51.14	5.5	10.44	0.97	48	11.3	0.048	11800	0.006	0.15	0.34	0.68

381.00	382.60	408383	CORE_HALF	47.84	9.3	21.91	1.38	55.1	12.7	0.065	7000	0.025	0.2	0.53	0.95
382.60	383.70	408384	CORE_HALF	68.7	9.5	11.26	4.69	67	20.7	0.102	6400	0.343	0.22	19.83	0.4
383.70	385.00	408385	CORE_HALF	42.8	8.4	14.41	1.75	47	13	0.053	13400	0.046	0.11	0.58	0.42
385.00	387.00	408386	CORE_HALF	27.13	11.4	18.1	6.43	47.9	8	0.041	20800	-0.005	0.1	0.46	0.1
387.00	389.00	408387	CORE_HALF	270.18	18.2	21.15	1.65	49.2	7.4	0.213	18700	-0.005	0.07	0.41	0.1
389.00	389.80	408389	CORE_HALF	26.96	2.5	1.92	1.47	33.9	11.8	0.031	8900	-0.005	0.06	0.38	0.07
389.80	391.10	408390	CORE_HALF	27.77	3.2	4.7	5.86	62.9	15.9	0.029	11400	0.067	0.15	17.14	0.13
391.10	393.00	408391	CORE_HALF	34.02	5.4	6.34	1.4	36	13	0.041	19600	0.006	0.18	0.24	0.5
393.00	395.00	408392	CORE_HALF	38.3	6	6.67	1.1	40.2	13.4	0.046	21100	-0.005	0.12	0.21	0.61
395.00	397.00	408393	CORE_HALF	41.08	12.5	18.55	1.36	45.2	13.1	0.056	23900	0.009	0.16	0.3	0.34
397.00	399.00	408394	CORE_HALF	31.49	4.2	35.74	1.15	45	9.1	0.04	19000	-0.005	0.08	0.27	0.16
399.00	401.00	408395	CORE_HALF	48.01	7.3	11.51	1.37	37.4	11.8	0.055	18400	-0.005	0.18	0.31	0.78
401.00	403.00	408396	CORE_HALF	90.66	32.4	13.63	2.26	34.7	18.7	0.117	8500	0.009	0.61	0.48	1.73
403.00	405.00	408397	CORE_HALF	57.59	11.1	9.64	2.44	30.4	18	0.06	13900	0.027	0.25	2.51	0.71
405.00	407.00	408398	CORE_HALF	43.61	14.3	10.38	1.7	33	17.8	0.047	18000	0.005	0.45	0.22	2.11
407.00	408.10	408399	CORE_HALF	71.32	26.7	46.85	2.09	31.2	18.2	0.096	19800	-0.005	0.55	0.31	3.13

Geoinformatics Exploration Inc

Collar

Hole ID	RZ06_03	*Hole type*	DD		*Drilling company*		*Grid ID*	NAD83_UTM_10	
DataSet	GXL_REDTON_2006	*Depth*	401.73	m	*Geologist*		*Easting*	354408.00	*RL* 1767.00 m
Prospect	Red Zone	*Commenced*	30/07/2006		*Survey Method*		*Northing*	6171853.00	
Tenement		*Completed*	2/08/2006		*Notes*				

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
31.39	m	266.4	NAD83_UTM	-59.4	CAMERA	
92.35	m	267.8	NAD83_UTM	-59.7	CAMERA	
153.31	m	276.3	NAD83_UTM	-58.1	CAMERA	
214.27	m	275.5	NAD83_UTM	-57.1	CAMERA	
275.23	m	279.6	NAD83_UTM	-57.1	CAMERA	
336.19	m	279.5	NAD83_UTM	-57.4	CAMERA	
397.15	m	276.4	NAD83_UTM	-57.5	CAMERA	

Lithology

Logged by: Tony_Worth

			Lith 1					*Lith 2*					
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	6.10	CASE												
6.10	23.77	IID	c		eq		100							
23.77	59.10	IID	c		eq		100							
59.10	63.70	IIDM	f		pp		100							
63.70	100.50	IID	c		eq		100							
100.50	103.10	IIDM	f		eq		100							
103.10	107.30	IID	c		eq		100							
107.30	109.40	IIDP	m		pp		100							
109.40	146.67	IID	c		eq		100							
146.67	147.85	IIDM	f		pp		100							
147.85	172.26	IID	c		eq		100							

172.26	177.90	IIQP	c	pp	pp	100
177.90	181.10	IID	c		eq	100
181.10	182.20	IIQP	c	pp	pp	100
182.20	275.00	IID	c		eq	100
275.00	281.00	IIDM	f		eq	100
281.00	365.30	IID	c		eq	100
365.30	369.20	IIDM	f		eq	100
369.20	401.73	IID	c		eq	100

Lithology

Logged by: Tony_Worth

From	To m	Description
0.00	6.10	
6.10	23.77	cased but reasonable core. Med-coarse grained dioriite. Moderately epidote-py-mgt altered
23.77	59.10	Diorite - generally coarse grained with some zones of finer grained.altered as above
59.10	63.70	micro-diorite. More mafic - HB to cl-Bt-Mgt altered, less Ep.weakly plag porphyritic
63.70	100.50	Diorite - coarse grained with several narrow zones of micro-diorite up to 1m.
100.50	103.10	more mafic patch of fine-med grained micro-diorite
103.10	107.30	coarse grained diorite as above
107.30	109.40	fine-med grained porphyritic section of diorite - crowded plag laths
109.40	146.67	coarse grained diorite as above
146.67	147.85	more mafic section with several comb veins. Slightly foliated and more strongly altered
147.85	172.26	Diorite, generally coarse-grained; several small intervals of finer-grained material are present. Alteration within this interval is variable- however epidote appears to be dominant.
172.26	177.90	Porphyrytic quartz diorite- megacrystic plagioclase phenocrysts, with lesser amounts of kfeldspar phenocrysts. Somewhat finer-grained biotite/hornblende phenocrysts, and occasional quartz eyes. Rock has a pale gray, aphanitic groundmass.
177.90	181.10	coarse grained diorite as above
181.10	182.20	Porphyrytic quartz diorite as above; however less abundant k-feldspar phenocrysts (plagioclase dominates).
182.20	275.00	variably altered coarse grained diorite
275.00	281.00	primary texture obscured by alt - probably a finer grained section of diorite. Contacts gradational
281.00	365.30	variably altered med - coarse grained diorite
365.30	369.20	possibly a strongly kfs altered finer grained section, or possibly a dyke
369.20	401.73	variably altered med - coarse grained diorite

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
6.10	25.00	MOD	EZ	pv	MOD	EZ	fsel	WK				moderate pervasive epidote replacement of plag. Pervassive chlorite after bt and Hb. Some fracture veining with ep-mgt
25.00	34.00	STG	EZ	pv	STG	EZ	vsel	MOD	MT	ff	WK	pervasive epidote replacement of plag. Pervassive chlorite after bt and Hb. Some mgt-BT-CL fracture filling

34.00	59.10	MOD	EZ	pv	WK	EZ	vsel	MOD				moderate pervasive epidote replacement of plag. Pervassive chlorite after bt and Hb. Some tabular ep veining, often with fuzzy boundaries.
59.10	63.70	MOD	CH	pv	MOD							more mafic - less epidote, more chlorite
63.70	107.00	STG	EZ	pv	STG	EZ	vsel	wk	MT	ff	WK	pervasive epidote replacement of plag. Pervassive chlorite after bt and Hb. wk mgt-BT-CL fracture filling
107.00	109.40	STG	KF	pv	MOD	EZ	blb	wk	MT	ff	WK	felspar alt of fine plag porpyritic section of diorite. BT appears to be much less - Hb-CL dominant. MGT more abundant
109.40	146.67	STG	EZ	pv	STG	KF	diss	wk	MT	ff	WK	variable but broadly becoming more potassic downhole
146.67	147.85	MOD	BZ	pv	MOD	PH	pv	wk				more mafic zone - mod-str Bt with wk clay overprint - phyllic zone assoc with comb veins. No MGT or EP
147.85	149.20	MOD	EZ	pv	MOD	MT	ff	WK				mod ep-bt-mgt-cl alt with tr kfs
149.20	149.90	MOD	HM	bd	MOD							late HMT overprint of an otherwise weakly cl altered zone
149.90	160.00	STG	EZ	pv	MOD	KF	bd	MOD	MT	ff	wk	Increasing K down hole. Some cpy assoc
160.00	163.50	MOD	BZ	pv	MOD	SU	diss	wk				finer grained more mafic section
163.50	172.26	STG	EZ	pv	MOD	KF	bd	MOD				as above
172.26	177.90	tr	EZ	hal	tr							wk ep selvages on some plag phenos in otherwise unaltered porphyry
177.90	181.10	STG	EZ	pv	MOD	KF	bd	MOD				as above
181.10	182.20	tr	EZ	hal	tr							wk ep selvages on some plag phenos in otherwise unaltered porphyry
182.20	213.00	STG	EZ	pv	MOD	KF	bd	wk				as above, but less Kfs
213.00	217.10	STG	KF	pv	MOD	EZ	ff	mod	MT	ff	wk	more kfs alt with ep mainly in fracture vns/bands - contemporaneous with kfs alt. Strongly magnetic - dissem and ff
217.10	218.00	STG	KF	pv	MOD	PH	pv	wk				phyllic overprinted kfs zone - mafics, mgt mostly gone
218.00	221.30	STG	KF	pv	STG	EZ	ff	mod	BZ	ff	wk	more kfs alt with ep mainly in fracture vns/bands - contemporaneous with kfs alt. Magnetic replaced by BT in microfractures
221.30	226.60	STG	EZ	pv	MOD	PH	pat	wk	BZ	ff	wk	more EP than kfs, weak phyllic overprint.
226.60	233.35	STG	EZ	pv	MOD	EZ	bd	WK	MT	ff	WK	as above with no phyllic overprint
233.35	236.50	STG	KF	pv	MOD	PH	pv	MOD				phyllic overprinted kfs zone - mafics, mgt mostly gone.siliceous/qz veined
236.50	240.50	STG	KF	pv	MOD	PH	pat	wk	MT	ff	WK	weakly phyllic overprinted mod kfs-Ep zone
240.50	258.60	STG	EZ	pv	MOD	KF	bd	MOD	MT	ff	WK	mod-str ep zone with variable kfs.
258.60	261.00	STG	BZ	pv	MOD	PH	pv	MOD				beginning of phyllic zone - epidote, magnetite mostly gone
261.00	271.80	INT	BZ	pv	STG	PH	pv	STG				strongly phyllic overprinted K zone - mafic mins mostly gone. Slightly siliceous
271.80	276.00	INT	KF	pv	STG	PH	pv	STG				strongly phyllic overprinted K zone
276.00	282.30	INT	KF	pv	STG	SL	pv	STG				strong k zone with mod siliceous overprint - no clays
282.30	285.10	MOD	EZ	pv	MOD	KF	pat	WK				mod ep-bt-mgt-cl alt with tr kfs. Ep rich gouge zone at base of interval
285.10	287.85	STG	BZ	pv	STG	PH	pv	STG				strong Bt zone - moderate phyllic overprint prob related to flt zone - Ep, Mt gone
287.85	292.40	STG	EZ	pv	MOD	KF	pat	WK				mod-stg ep-bt-mgt-cl alt with minor kfs.
292.40	294.80	STG	BZ	pv	STG	PH	pv	STG				mod-strong phyllic overprint - ep-mt gone
294.80	320.00	STG	EZ	pv	MOD	KF	pat	WK	MT	ff	WK	mod-strong EP-BT with weak kfs and mt-bt-cl fracture vns
320.00	327.50	STG	EZ	pv	MOD	PH	pv	STG				strongly phyllic altered zone - EP/mafic mins mostly gone. MGT - HEM
327.50	365.30	STG	EZ	pv	MOD	KF	pat	WK	MT	ff	WK	mod EP-BT with weak kfs and mt-bt-cl fracture vns
365.30	369.20	INT	KF	pv	STG	SL	pv	MOD				strongly kfs altered and moderately silicified - very little relict texture, possibly a dyke
369.20	374.30	MOD	EZ	pv	MOD	KF	pat	WK	MT	ff	WK	mod ep-bt-mgt-cl alt with tr kfs.
374.30	377.00	STG	EZ	pv	STG	KF	pat	WK	MT	ff	WK	stronger ep zone
377.00	381.40	STG	KF	pat	MOD	EZ	pv	MOD	MT	ff	WK	mixed zone of Kfs-EP

381.40	383.80	MOD	BZ	pv	MOD				MT	ff	WK	K zone - Ep	
383.80	401.73	STG	EZ	pv	STG	KF	pat	WK	MT	ff	WK	variable mod-str ep-bt-mgt alt with patchy kfs	

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
6.10	14.50		ZVE	FRV	2	2	60			2								epidote on fractures
14.50	17.00		ZVO	PLN	2	5	50	ZVE	FRV	2	2	60						kfs-bt veins x-cut by ep veins
17.00	23.50		ZVE	FRV	4	4	60			4								
23.50	24.50		ZVC	str	2	2	60	ZVE	FRV	2	2	60						
24.50	38.70		ZVE	PLN	8	50	70	ZVC	str	8	2	60	ZVO	WSP	1	1	10	more tabular, thicker epidote veins
38.70	42.10		ZVQC	COM	10	5	60	ZVE	FRV	10	5	40						includes 1 20cm qz-carb vein
42.10	100.50		ZVQ	COM	1	5	70	ZVQC	WSP	1	2	30	ZVE	FRV	2	5	45	sparse comb veins
100.50	107.50		ZVQ	COM	3	10	60	ZVQC	WSP	3	5	30						increase in comb veins. Also contain more py
107.50	118.50		ZVC	WS	0.5	2	30			0.5								almost no veining
118.50	130.00		ZVC	WS	3	10	20			3								acute angled carb-qz veins - possibly a different set of distal comb veins
130.00	146.67		ZVO	PLN	0.5	10	50	ZVC	WSP	0.5	10	20						rare kfs "veins"
146.67	147.80		ZVQ	COM	25	30	75			25								strong zone of comb like vns but also slightly laminar - structural zone. Possible tr moly
147.80	150.70		ZVC	WS	1	2	30			1								
150.70	157.05		ZVQ	COM	2	25	65	ZVE	FRV	2	3							Zone features a relatively high abundance of white quartz veins (comb), occasionally vuggy, +/- pyrite. Possible molybdenite noted in comb vein at 153.40 m.
157.05	172.26		ZVC	FRV	2.5	1.5	80	ZVO	FRV	2.5	2							
172.26	177.90		ZVE	FRV	1	1.5		ZVT	FRV	1	1.5							Weakly veined porphyritic unit; thin kfeldspar/epidote veins, thin possible tourmaline (?) veinlets.
177.90	181.10		ZVE	FRV	2	2		ZVQ	TEN	2	4	90						
181.10	182.20		ZVO	FRV	0.5	1.5				0.5								Weakly veined porphyritic unit- possible plagioclase veins (white feldspar?).
182.20	216.70		ZVE	FRV	2	7		ZVC	FRV	2	1							Stronger veining in this interval- dominated by epidote, with minor ubiquitous carbonate veining of fractures/microfractures.
216.70	220.10		ZVQC	PLN	2	10	60	ZVC	WSP	2	1							sparse comb vns with later wispy carb veinlets
220.10	225.00		ZVC	WS	2	1	70	ZVO	FRV	2	1							wispy late carb veinlets and mt fracture veins
225.00	225.70		ZVQ	PLN	50	30	20			50								slightly irregular, barren looking vein set - acute angle to core
225.70	233.30		ZVQC	PLN	1	10	70			1								very rare comb veins

233.30	236.65	ZVQ	PLN	5	2	60	ZVQ	IRR	5	10		network of planar veinlets - various orientations. Also irregular vns/silicification
236.65	240.50	ZVQ	PLN	3	2	60	ZVQ	PLN	3	10	45	planer veinlets and rare comb vns
240.50	259.40	ZVQ	PLN	1	1				1			rare qz veinlets
259.40	264.70	ZVC	PLN	4	3	60	ZVQ	PLN	4	5	50	wispy-planar carb-qz vnlets and comb vns. Timing ambiguous - poss comb(qz) x-cut carb vns. Py in both
264.70	285.20	ZVQ	PLN	1	5	60			1			rare qz veinlets
285.20	294.50	ZVQ	PLN	2	10	60			2			few comb veins
294.50	309.60	ZVQ	PLN	1	5	60			1			rare qz veinlets
309.60	319.00	ZVC	WS	2	2	30	ZVC	PLN	2	10	50	wsipy and tabular carb-(qz) vns with some py
319.00	321.00	ZVC	WS	3	1				3			
321.00	326.20	ZVC	FRV	5	2				5			strongly fractured zone -carb-qz fracture veinlets
326.20	344.00	ZVC	PLN	2	5		ZVE	IRR	2	20	30	semi-tabular/wispy carb-qz-py-(cpy) vnx. Variables angles including sub//
344.00	372.20	ZVE	IRR	2	20	30	ZVC	PLN	2	5	45	rare carb vns. Py-cpy in ep vns
372.20	374.00	ZVQC	PLN	3	5	45	ZVE	IRR	3	10		qz-carb-(gypsum?) vns
374.00	381.30	ZVQC	PLN	1	5	45	ZVE	IRR	1	10		abundant ep but not as vns
381.30	386.50	ZVQC	PLN	3	5	45	ZVE	IRR	3	10		
386.50	391.50	ZVQC	PLN	1	5	45	ZVE	IRR	1	10		
391.50	393.60	ZVQC	PLN	3	5	45	ZVE	IRR	3	10		
393.60	401.73	ZVQC	PLN	1	5	45	ZVE	IRR	1	10		

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
6.10	28.00	very weakly mineralised in veins and fracture selvages	PY	vsel	0.1
28.00	54.50		PY	ff	0.1
			PY	vsel	0.1
54.50	100.50	only v rare cpy	PY	vsel	0.2
			CCP	diss	0.1
			PY	diss	0.1
			PY	ff	0.1
100.50	105.10		PY	diss	0.3
			PY	vsel	0.2
			CCP	diss	0.1
			PY	ff	0.1
105.10	146.67		PY	vsel	0.2
			PY	ff	0.1

			CCP	diss	0.05
146.67	147.85	fg py within veins and diss	PY	vsel	0.5
			PY	diss	0.2
			CCP	diss	0.05
147.85	149.90		PY	vsel	0.2
			PY	ff	0.1
			CCP	diss	0.05
149.90	157.05	The most dominant mineralization style noted in this interval is pyrite mineralization of comb quartz veins. Possible molybdenite noted in comb quartz at 153.40m. Blebby pyrite/chalcopyrite intergrowths observed in an area of intense epidote alteration at approximately 150.2m.	PY	vsel	0.4
			CCP	blb	0.05
			MOL	vsel	0.025
157.05	167.98	Mineralization in this interval is dominated by fracture hosted pyrite, generally found with hematite. Minor mineralized veining is seen.	PY	ff	0.25
			PY	vsel	0.15
			CCP	diss	0.05
167.98	169.30	Zone of more intense pyrite mineralization.	PY	ff	0.5
			PY	diss	0.2
			CCP	diss	0.05
169.30	172.26	zone of poor mineralization	PY	vsel	0.2
			PY	diss	0.1
			CCP	diss	0.05
172.26	177.90	poorly mineralized zone- pyrite is observed infilling vugs in "tourmaline" (?) microfractures.	PY	ff	0.2
177.90	271.50	poorly mineralized zone- highly variable dist but no zones above 0.5%. CPY very rare	PY	ff	0.1
			PY	fsel	0.1
			CCP	diss	0.05
			PY	diss	0.05
271.50	276.15	v fine dissem py - vertually no cpy	PY	diss	0.7
			PY	ff	0.2
			PY	vsel	0.1
			CCP	diss	0.05
276.15	282.20	more abundant dissm py - vert no cpy	PY	diss	1.2
			PY	ff	0.2
			PY	vsel	0.1
			CCP	diss	0.05
282.20	284.50		CCP	diss	1.05
			PY	diss	0.2
			PY	ff	0.2
			PY	vsel	0.1
284.50	303.00		PY	ff	0.1
			PY	fsel	0.1
			CCP	diss	0.05
			PY	diss	0.05

303.00	320.00	slight increase in cpy -still trace levels	CCP	diss	0.1
			PY	diss	0.1
			PY	ff	0.1
			PY	fsel	0.1
320.00	327.50	phyllic zone - sulphides leached out?	PY	vsel	0.1
327.50	351.50	cpy in ep vns / kfs bands / micro-fractures	CCP	vsel	0.2
			PY	ff	0.2
			PY	vsel	0.1
351.50	365.30	still cpy but less. Strong cpy at 363.3m	CCP	vsel	0.1
			PY	ff	0.1
365.30	369.20	dyke or strongly alt zone	PY	ff	0.1
369.20	401.73	rare cpy in ep vns. Strong cpy + moly at 397m	PY	ff	0.2
			CCP	vsel	0.1
			MOL	vsel	0.05

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
6.10	27.50		ZRO	MOD	20							moderately fractured - very broken core due to high angle of fractures
27.50	39.00		ZRO	wk								more competent core - mostly healed micro fractures with mgt-bt-cl or ep. Core angles variable
39.00	42.50		ZRO	MOD	40	ZFX	mod					more fractured and some weak-mod breccia in and adjacent to qtz veining
42.50	98.00		ZRO	wk	30							weakly fractured. Broken sections due to acute core angles
98.00	110.50		ZRO	MOD								moderate fracturing - various angles
110.50	146.60		ZRO	wk	30							weakly fractured. Broken sections due to acute core angles
146.60	147.85		ZSO	MOD	75							wk-mod shear zone infilled with qz veining and phyllic alt
147.85	149.20		ZRO	wk								
149.20	149.55		ZFG	STG								hematitic fault gouge?
149.55	171.19		ZRO	wk								
171.19	171.57		ZFG	STG								possible clayey fault gouge.
171.57	182.70		ZRO	wk								
182.70	183.00		ZFG	MOD								possible gouge (?).
183.00	217.00		ZRO	wk								
217.00	226.00		ZRO	MOD								geneally healed micro-fractures and increased vn intensity but some gouge zones also.
226.00	233.20		ZRO	wk								
233.20	240.60		ZRO	MOD								as above - healed fractures and fracture veins
240.60	250.30		ZRO	wk								
250.30	255.70		ZRO	MOD								as above - healed fractures and fracture veins
255.70	259.00		ZRO	wk								
259.00	271.80		ZRO	MOD								mostly healed fractures and fracture veins with assoc phyllic alt
271.80	275.00		ZRO	wk								relatively less fractured - wk-mod v well healed
275.00	282.30		ZRO	MOD								very well healed mod-str fr zone with assoc silicification
282.30	284.80		ZRO	wk								

284.80	288.20	ZRO	STG	70	stronger fr zone - some gouge and pyllic alt
288.20	292.60	ZRO	wk		
292.60	296.00	ZRO	MOD		slightly more fractured - some phyllic alt, minor gouge
296.00	319.00	ZRO	wk		variable but generally weak, increasing slightly downhole
319.00	327.50	ZFX	STG		partly brecciated flt zone. Str assoc alt
327.50	354.70	ZRO	wk		
354.70	355.70	ZRO	MOD		well healed more fractured zone
355.70	365.30	ZRO	wk		
365.30	369.20	ZRO	MOD		very well healed fracture zone in dyke/kfs alt zone
369.20	380.00	ZRO	wk		
380.00	387.00	ZRO	MOD		slightly more fractured - characterised by fr veinlets
387.00	401.73	ZRO	wk		

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
32.28	ZVE	1.5	60.0	220.0		20	15		epidote vn
33.70	ZVC	0.3	45.0	282.0		58	32		carb-epidote vn
35.03	ZVQ	0.5	33.0	315.0		80	50		carb-qz with spec of chalco
36.30	ZVE	1	70.0	95.0		34	124		epidote vn
49.58	ZVQ	1	56.0	295.0		54	48		comb vein
63.70	SCO	0.1	38.0	30.0		79	111		diorite-micro diorite contact
69.37	ZVQ	1	60.0	328.0		58	69		comb vein
80.12	SCO	0.1	80.0	100.0		30	107		diorite-micro diorite contact
118.70	ZVC	1	25.0	45.0		88	131		carb-hmt-qz vein
122.65	ZVC	1	15.0	40.0		81	311		carb-hmt-qz vein
127.13	SCO	0.1	25.0	15.0		85	286		finer grained band/ep vn
146.20	ZVK	2	40.0	10.0		81	103		kfs-ep-py "vn"
147.00	SFO	50	78.0	45.0		41	108		foliation - weak shear. Includes qz veining
149.20	SFO	5	28.0	345.0		87	262		gouge zone
150.20	ZVQ	1	48.0	300.0		63	55		qz-py vn with adjacent ep zone
151.00	ZVQ	10	65.0	305.0		50	69		laminated vn
153.02	ZVQ	0.5	65.0	310.0		51	72		comb vein
167.60	ZVE	2	25.0	345.0		84	262		ep vein
169.19	ZVQ	0.5	55.0	280.0		50	49		comb vein
170.03	ZFO	1	50.0	80.0		54	148		gouge zone
170.65	ZFO	10	55.0	65.0		56	135		gouge zone
170.80	ZVQ	1	85.0	40.0		36	102		qz-ep-cpy vn
172.05	ZVQ	1	45.0	270.0		53	34		comb vein
172.26	SCO	0.1	52.0	80.0		52	146		porphyry contact
177.90	SCO	0.1	42.0	125.0		37	186		porphyry contact
181.10	SCO	0.1	65.0	75.0		45	131		porphyry contact

195.85	ZVQ	4	67.0	45.0	51	117	qz vn
196.85	ZVQ	2	35.0	76.0	68	155	qz-hmt-(cpy) vn - comb vn
205.20	ZVQ	1	62.0	270.0	42	51	comb vein
213.80	ZVE	4	55.0	10.0	68	102	ep "vein" with assoc kfs alt
217.10	ZVQ	1	80.0	345.0	43	92	slightly laminated qz vn
217.25	ZVQ	0.1	35.0	145.0	32	214	locally abundant set of fr veinlets
229.20	ZVQ	2	50.0	290.0	58	51	comb vein
234.45	ZVQ	1.5	52.0	182.0	5	290	chert vein
235.05	ZVQ	1	40.0	150.0	26	215	locally common vn set
238.80	ZVQ	1.5	30.0	315.0	85	59	comb vein
243.28	ZFO	0.1	70.0	80.0	41	128	minor flt zn with assoc ep alt
245.95	ZVK	2	70.0	120.0	28	137	kfs-ep "vn"
261.50	ZVQ	1	65.0	235.0	27	49	comb vein - representative of local set - includes some carb veinlets
262.80	ZVQ	1	62.0	230.0	25	41	comb vein
267.80	ZFO	15	35.0	125.0	43	196	minor flt zn
271.80	SCO	1	20.0	45.0	86	321	distinct alteration contact (not lith) from str BT to no BT
273.98	ZVQ	0.5	45.0	148.0	23	207	possible B vn
276.20	SFO	0.1	40.0	20.0	81	115	bt-cl fract/foliation set
277.30	SFO	0.1	20.0	30.0	81	308	fact/foliation set
284.40	SFO	5	35.0	70.0	71	154	5cm foliated zone of py-bt
288.05	ZFO	5	20.0	30.0	81	308	gouge zone
288.60	SFO	0.2	38.0	355.0	85	96	
294.20	ZVQ	5	55.0	265.0	44	45	slightly laminated vn - comb??
313.30	ZVQ	12	38.0	360.0	85	100	series of smaller //vns and foliation
314.00	ZVE	1	25.0	305.0	86	51	early, irregular cpy bearing ep vn
315.30	ZVC	0.2	20.0	82.0	77	172	carb vnlet with cl margins
315.55	ZVQ	2	45.0	310.0	70	64	
325.65	ZFO	10	45.0	45.0	71	131	edge of larger flt zone
327.14	SFO	0.1	48.0	33.0	71	122	
330.75	ZVE	7	35.0	10.0	87	108	cpy bearing ep vn
332.75	ZVQ	0.5	25.0	290.0	79	39	tr cpy in qz-carb vnlet
341.05	ZVE	5	20.0	355.0	78	274	cpy bearing ep vn
342.95	ZVC	2	50.0	270.0	50	42	
348.62	ZVK	2	30.0	10.0	88	288	cpy bearing kfs vein
349.20	ZVC	2	37.0	295.0	71	49	
354.80	SFO	0.1	50.0	90.0	50	156	variable foln/ ep vnlts
359.45	SFO	0.1	35.0	45.0	80	134	
369.20	SCO	0.1	40.0	90.0	57	164	irregular contact - approx only
372.30	ZVQ	1	45.0	280.0	58	42	qz-carb-gypsum vn
373.85	ZVQ	1	45.0	190.0	14	308	comb vn?
380.12	ZVK	10	42.0	97.0	52	166	kfs "vn" or band of alt - contains some cpy
380.25	ZVQ	1	55.0	270.0	46	45	qz-carb-hmt vnlet

382.75	ZVQ	5	60.0	220.0	21	31	qz vn with 10cm phyllic halo
383.40	ZVQ	2	50.0	250.0	40	28	qz vn with 5cm phyllic halo
384.95	ZVE	4	35.0	145.0	32	216	ep vn. No cpy
392.50	ZVC	0.2	55.0	232.0	28	24	local vnlet set - some cpy
393.50	ZVQ	0.5	70.0	245.0	30	58	same set as above
396.20	SFO	0.1	30.0	35.0	88	126	cl-ep foliation
397.08	SFO	0.1	32.0	22.0	89	115	foln bounding zone of cpy

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
8.00	10.00	408559	Core_Half	178.75	17.6	0.55	2.92	34.5	11.5	0.174	4800	0.005	0.05	0.41	0.04
10.00	12.00	408560	Core_Half	170.26	14.5	0.34	2.56	48.3	15.5	0.163	7600	0.005	0.05	0.35	0.02
12.00	14.00	408561	Core_Half	88.17	7.5	0.44	2.61	31.2	12.4	0.077	4000	-0.005	0.05	0.29	0.07
14.00	16.00	408562	Core_Half	113.06	10.9	0.37	2.1	34.5	8.6	0.087	3300	-0.005	0.04	0.29	0.03
16.00	18.00	408563	Core_Half	101.86	7.9	0.37	3.36	34.4	13.4	0.095	2200	-0.005	0.04	0.36	0.02
18.00	20.00	408564	Core_Half	166.86	17.7	0.41	2.98	38.9	11.4	0.14	2600	-0.005	0.04	0.21	0.05
20.00	22.00	408565	Core_Half	157.24	13.8	0.55	2.12	37.6	7.9	0.126	4300	0.005	0.04	0.17	0.07
22.00	23.77	408566	Core_Half	140.98	15.3	0.69	2.28	38.8	11.3	0.12	5100	-0.005	0.03	0.19	0.09
23.77	26.00	408567	Core_Half	320.04	26.4	0.46	3.53	54.6	10	0.247	7500	-0.005	0.14	0.35	0.13
26.00	28.00	408568	Core_Half	209.72	27.4	0.4	2.56	42.8	11.7	0.181	6500	0.005	0.07	0.22	0.08
28.00	30.00	408571	Core_Half	166.12	20.1	0.5	2.22	33	13.5	0.162	2800	-0.005	0.08	0.29	0.27
30.00	32.00	408572	Core_Half	78.33	9.5	0.66	2.97	30	13.3	0.072	3400	-0.005	0.05	0.28	0.06
32.00	34.00	408573	Core_Half	37.82	7.9	0.6	2.4	33	13.5	0.039	3700	-0.005	0.04	0.29	0.02
34.00	36.00	408574	Core_Half	75.56	14.1	0.92	2.62	41.7	12.7	0.08	5300	0.005	0.06	0.24	0.06
36.00	38.00	408575	Core_Half	75.44	7.2	0.69	2.45	34.3	11.3	0.052	3400	-0.005	0.04	0.27	0.04
38.00	40.00	408576	Core_Half	230.4	26.4	1.08	1.66	51.6	14	0.123	7400	-0.005	0.07	0.14	0.22
40.00	41.00	408577	Core_Half	141.99	16.5	9.52	9.95	69.4	13.1	0.149	6500	0.005	0.53	0.1	0.22
41.00	43.00	408578	Core_Half	219.64	13.6	2.6	10.99	63.8	12.4	0.132	11600	-0.005	0.12	0.17	0.15
43.00	45.00	408579	Core_Half	221.24	15	1.73	5.56	50.3	15.1	0.196	4000	-0.005	0.22	0.36	0.15
45.00	47.00	408580	Core_Half	105	8	0.88	5.76	69.9	16.2	0.104	5800	-0.005	0.13	0.31	0.07
47.00	49.00	408581	Core_Half	222.62	47.8	1.45	7.62	40.6	14	0.183	6100	-0.005	0.47	0.38	0.1
49.00	51.00	408582	Core_Half	67.91	12.5	2.55	6.09	36.4	15.2	0.071	3800	0.005	0.36	0.43	0.05
51.00	53.00	408583	Core_Half	166.32	22.1	1.04	5.27	39.8	14.8	0.133	4500	-0.005	0.07	0.4	0.1
53.00	55.00	408584	Core_Half	163.33	17.2	2.23	4.88	56.3	11	0.142	8800	-0.005	0.08	0.25	0.04
55.00	57.00	408585	Core_Half	255.89	27.1	1.16	4.63	53.7	15.4	0.223	8700	0.006	0.25	0.33	0.17
57.00	59.00	408586	Core_Half	238.59	18.6	1.62	4.28	50.4	15.9	0.207	9000	-0.005	0.13	0.44	0.14
59.00	61.00	408587	Core_Half	106.88	7.3	0.67	3.27	37.6	8.2	0.132	10600	-0.005	0.19	0.34	0.06

61.00	63.00	408588	Core_Half	819.28	45.3	1.12	3.55	47.3	25.7	0.705	10800	-0.005	0.26	0.28	1.72
63.00	65.00	408589	Core_Half	188	13.6	0.62	3.27	59.8	12.9	0.183	10600	-0.005	0.07	0.38	0.28
65.00	67.00	408591	Core_Half	247.15	20.1	1.43	6.07	63.1	10.9	0.274	12400	-0.005	0.21	0.32	0.35
67.00	69.00	408592	Core_Half	431.55	37.1	0.93	13.12	47.6	14	0.482	7000	-0.005	0.46	0.49	0.26
69.00	71.00	408593	Core_Half	121.92	12.1	1.21	5.89	55.7	9.3	0.129	7800	-0.005	0.14	0.31	0.1
71.00	73.00	408594	Core_Half	189.86	15	1.05	5.77	43.5	11.2	0.17	2600	-0.005	0.07	0.37	0.2
73.00	75.00	408595	Core_Half	72.86	8.9	0.75	5.3	43.3	7.3	0.073	2400	-0.005	0.03	0.38	0.04
75.00	77.00	408596	Core_Half	206.49	16.2	2.12	5.96	54.7	8.2	0.204	4100	0.007	0.23	0.37	0.3
77.00	79.00	408597	Core_Half	91.49	7.5	1.46	5.87	50	8.3	0.09	1500	-0.005	0.13	0.38	0.06
79.00	80.00	408598	Core_Half	68.98	14.3	52.16	6.51	48.1	9.1	0.152	3500	0.009	1.01	0.47	0.09
80.00	81.10	408599	Core_Half	319.57	30.1	1.09	4.09	72.7	13.7	0.248	11200	-0.005	0.13	0.3	0.28
81.10	83.00	408600	Core_Half	274.98	27	2.3	5.76	54.8	13.7	0.222	3300	0.005	0.1	0.56	0.27
83.00	85.00	408601	Core_Half	425.46	48.6	11.9	8.19	66.3	8.7	0.368	3500	0.005	0.58	0.33	0.48
85.00	86.00	408602	Core_Half	221.58	17.2	15.06	5.99	88	6.8	0.247	10500	-0.005	0.28	0.14	0.33
86.00	88.00	408603	Core_Half	266.45	26.3	5.23	22.14	81	7.4	0.602	7800	0.006	0.96	0.28	0.2
88.00	90.00	408604	Core_Half	115.4	19.3	0.93	8.3	60	7.3	0.15	1900	-0.005	0.06	0.35	0.07
90.00	92.00	408605	Core_Half	189.5	21.8	2.35	7.28	84.7	8.2	0.209	6300	-0.005	0.17	0.28	0.2
92.00	94.00	408606	Core_Half	262.16	17.8	2.03	5.59	69	6.2	0.224	7100	-0.005	0.21	0.17	0.33
94.00	96.00	408607	Core_Half	321.16	23.4	1.26	5.54	59.1	8	0.309	4800	0.005	0.13	0.24	0.39
96.00	98.00	408608	Core_Half	390.37	22	3.79	5.88	58.8	7.5	0.403	7700	-0.005	0.29	0.26	0.8
98.00	100.00	408609	Core_Half	271.34	27.9	3.8	5.34	64.3	5.9	0.261	10000	-0.005	0.3	0.2	0.54
100.00	101.00	408611	Core_Half	90.1	8.7	1.43	3.41	53.7	8.2	0.076	15500	-0.005	0.1	0.19	0.07
101.00	102.00	408612	Core_Half	205.28	389.4	5.27	3.12	73.1	8.6	0.175	21500	-0.005	1.12	0.1	0.95
102.00	104.00	408613	Core_Half	160.95	26.8	11.62	4.67	48	12.5	0.154	4700	-0.005	0.42	0.45	0.16
104.00	105.00	408614	Core_Half	311.72	13.2	15.06	3.75	67.7	12.7	0.213	7700	-0.005	0.34	0.39	0.25
105.00	107.00	408615	Core_Half	155.16	11.2	4.06	3.34	44.9	13.9	0.129	4500	-0.005	0.23	0.51	0.07
107.00	108.00	408616	Core_Half	207.17	24.5	3.32	6.27	45.5	12.2	0.211	1600	-0.005	0.16	0.44	0.07
108.00	109.00	408617	Core_Half	131.91	12.6	2.82	7	35.5	9.9	0.125	2900	-0.005	0.09	0.43	0.06
109.00	110.00	408618	Core_Half	85.03	4.7	1.83	3.06	53	11.3	0.074	13400	0.006	0.04	0.22	0.03
110.00	112.00	408619	Core_Half	138.02	9.2	3.31	2.94	43.5	12.6	0.115	8000	-0.005	0.12	0.35	0.11
112.00	114.00	408620	Core_Half	141.1	12	2.17	3.59	39	13.1	0.115	3000	-0.005	0.05	0.4	0.08
114.00	116.00	408621	Core_Half	111.78	8.7	4.42	3.72	41.2	13.1	0.103	3500	-0.005	0.11	0.4	0.09
116.00	118.00	408622	Core_Half	251.07	18.6	1.43	3.71	31.5	10.4	0.157	1300	-0.005	0.05	0.4	0.13
118.00	120.00	408623	Core_Half	209.8	12.8	7.37	2.56	39.6	15.3	0.146	3700	-0.005	0.13	0.39	0.15
120.00	122.00	408624	Core_Half	169.79	9.6	1.7	3.13	34.9	14.3	0.12	1900	0.006	0.11	0.47	0.1
122.00	124.00	408625	Core_Half	161.66	14.5	1.16	3.01	36.9	11.3	0.108	1900	-0.005	0.06	0.48	0.11

124.00	126.00	408626	Core_Half	200.03	18.5	76.58	5.27	44	13.5	0.158	5500	0.006	0.83	0.41	0.3
126.00	128.00	408627	Core_Half	260.33	21.9	2	2.46	51.4	15.7	0.227	5100	-0.005	0.13	0.45	0.08
128.00	130.00	408628	Core_Half	155.89	11.4	1.44	3.24	50.5	14	0.132	5500	-0.005	0.09	0.32	0.28
130.00	132.00	408629	Core_Half	134.97	13.8	36.14	3.7	31.5	15.4	0.114	7000	0.007	0.28	0.3	0.18
132.00	134.00	408631	Core_Half	177.72	16.6	3.01	13.02	34.8	13.2	0.135	5900	-0.005	0.08	0.34	0.09
134.00	136.00	408632	Core_Half	107.79	7.5	34.96	3.24	31.3	14.6	0.1	6000	0.006	0.64	0.34	0.09
136.00	138.00	408633	Core_Half	49.92	5.8	2.92	2.65	33.2	13.2	0.054	9400	-0.005	0.05	0.26	0.05
138.00	140.00	408634	Core_Half	92.48	9.6	11.01	2.97	35.8	15.2	0.092	9100	-0.005	0.2	0.19	0.13
140.00	142.00	408635	Core_Half	37.65	9	27.4	3.07	22.4	13.3	0.054	3700	-0.005	0.24	0.2	0.04
142.00	144.00	408636	Core_Half	167.36	13.7	5.07	3.44	26	14	0.141	4100	-0.005	0.06	0.15	0.12
144.00	146.60	408637	Core_Half	229.71	17.6	3.86	2.96	30.3	14.4	0.179	4200	-0.005	0.11	0.27	0.3
146.60	148.00	408638	Core_Half	402.54	30.3	160.38	6.86	50.8	78.3	0.353	11300	0.095	2.5	4.6	1.04
148.00	149.90	408639	Core_Half	412.68	18	15.07	3.45	61.7	52.5	0.309	17500	0.007	0.38	4.01	0.12
149.90	150.70	408640	Core_Half	485.79	9.4	1.4	2.69	51.7	25.9	0.295	9900	0.028	0.41	2.32	0.25
150.70	152.00	408641	Core_Half	105.27	11.8	37	6.08	53.4	13.6	0.143	5500	0.046	3.71	3.08	0.13
152.00	154.00	408642	Core_Half	241.65	59.4	17.29	4.31	42	9.8	0.171	7000	-0.005	0.4	0.51	0.2
154.00	156.00	408643	Core_Half	209.55	33.8	7.18	4.07	45.2	8.9	0.222	9000	-0.005	0.22	0.28	0.21
156.00	158.00	408644	Core_Half	210.69	16.6	4.2	3.36	29.4	9.7	0.123	5000	-0.005	0.09	0.34	0.09
158.00	159.80	408645	Core_Half	218.79	18.7	1.82	3.08	44	10	0.153	11700	-0.005	0.09	0.31	0.1
159.80	162.00	408646	Core_Half	825.31	67.7	3.75	3.54	54.2	14	0.521	13900	-0.005	0.14	0.18	0.51
162.00	164.00	408647	Core_Half	146.4	15.6	3.5	2.28	54.2	10.5	0.116	13200	0.005	0.1	0.14	0.06
164.00	166.00	408648	Core_Half	141.75	15.8	1.92	2.46	44.8	10.2	0.105	8600	-0.005	0.1	0.3	0.08
166.00	168.00	408649	Core_Half	779.61	38.1	2.31	2.64	42.7	14.1	0.486	5800	0.006	0.15	0.59	0.32
168.00	170.00	408651	Core_Half	577.05	33	13.42	3.39	40	17.1	0.354	8800	-0.005	0.33	0.54	0.58
170.00	172.00	408652	Core_Half	622.75	39.9	2.36	5.91	57.9	29.7	0.418	10800	-0.005	0.35	4.61	0.71
172.00	174.00	408653	Core_Half	161.07	6	0.83	2.77	53.9	14.7	0.099	9800	-0.005	0.19	7.78	0.22
174.00	176.00	408654	Core_Half	38.7	0.7	0.87	5.2	46.8	139.9	0.043	4100	-0.005	0.33	7.65	0.48
176.00	178.00	408655	Core_Half	39.74	2.7	0.58	3.7	45.7	42.5	0.034	6300	-0.005	0.21	2.69	0.26
178.00	180.00	408656	Core_Half	396.67	22.5	3.34	4.97	70.8	15.7	0.261	18900	-0.005	0.35	2.33	0.8
180.00	182.00	408657	Core_Half	219.47	15	1.25	4.81	64.1	17.7	0.147	13700	-0.005	0.15	1.44	0.28
182.00	184.00	408658	Core_Half	465.54	36.3	2.16	5.17	54.9	23.7	0.268	10900	-0.005	0.22	6.31	0.25
184.00	186.00	408659	Core_Half	317.36	22.6	2.67	3.11	47.3	17	0.26	7100	-0.005	0.17	0.52	0.29
186.00	188.00	408660	Core_Half	371.01	22.4	1.86	3.44	50.6	10.1	0.247	10100	-0.005	0.21	0.32	0.16
188.00	190.00	408661	Core_Half	300.87	29.6	2.49	3.34	43.8	11.6	0.218	10100	-0.005	0.17	0.46	0.12
190.00	192.00	408662	Core_Half	513.81	53.9	0.95	2.74	39.4	11.6	0.26	11900	0.01	0.13	0.23	0.12
192.00	194.00	408663	Core_Half	483.92	48.9	1.68	3.18	29.9	12	0.286	3100	0.005	0.11	0.5	0.13

194.00	195.70	408664	Core_Half	224.15	16.5	1.36	2.35	31.3	11.6	0.174	6400	-0.005	0.11	0.38	0.12
195.70	197.15	408665	Core_Half	385.75	33	1.76	2.79	62	8.7	0.257	9400	0.007	0.41	0.28	0.29
197.15	199.00	408666	Core_Half	313.56	20.9	2.03	3.25	43.3	7.3	0.219	11800	-0.005	0.12	0.38	0.09
199.00	201.00	408667	Core_Half	319.66	17.3	4.19	4.02	46.9	8.6	0.243	13400	-0.005	1.65	0.31	0.17
201.00	203.00	408668	Core_Half	371.55	21	12.48	3.01	38.9	7.5	0.254	8400	-0.005	0.58	0.29	0.26
203.00	205.00	408669	Core_Half	141.44	0.3	3.96	3.78	35.5	6.7	0.086	7400	-0.005	0.08	0.29	0.04
205.00	207.00	408671	Core_Half	462.78	32.1	3.75	5.1	33.7	7.8	0.244	4400	0.006	0.09	0.3	0.24
207.00	209.00	408672	Core_Half	422.28	31.2	2.38	2.52	25.5	9.2	0.293	3300	0.005	0.06	0.39	0.26
209.00	211.00	408673	Core_Half	543.15	35	2.8	2.65	28.6	12.3	0.362	4100	-0.005	0.06	0.31	0.27
211.00	213.00	408674	Core_Half	704.25	51.3	3.12	4.7	35.5	11.9	0.412	7800	0.007	0.43	0.19	0.64
213.00	215.00	408675	Core_Half	148.16	14.2	9.04	2.64	45.8	10.5	0.114	6000	-0.005	0.04	0.44	0.09
215.00	217.00	408676	Core_Half	288.2	20.1	2.48	3.08	41.3	10.5	0.204	9400	-0.005	0.21	0.49	0.24
217.00	219.00	408677	Core_Half	217.63	23.1	1.86	3.74	39.8	21.3	0.202	5500	-0.005	0.11	0.65	0.2
219.00	221.00	408678	Core_Half	177.82	12.6	7.63	3.21	38.6	12.3	0.156	9200	0.009	0.37	0.76	0.49
221.00	223.00	408679	Core_Half	373.14	21.3	35.41	3.37	25.5	13.5	0.247	2800	-0.005	0.1	1.72	0.32
223.00	225.00	408680	Core_Half	464.44	27.5	3.09	5.89	53.2	50.8	0.35	5800	0.129	0.13	14.71	0.82
225.00	227.00	408681	Core_Half	352.35	29.5	1.96	5.97	40.8	17.6	0.236	3900	0.061	0.1	5.49	0.35
227.00	229.00	408682	Core_Half	496.27	38.9	1.4	2.93	36.9	22.8	0.344	7000	0.007	0.16	0.92	0.64
229.00	231.00	408683	Core_Half	252.29	14.7	1.42	5.18	31.7	14.2	0.164	4000	-0.005	0.34	1.54	0.32
231.00	233.00	408684	Core_Half	198.58	15.1	1.6	2.65	29.2	15.9	0.157	3400	-0.005	0.07	0.42	0.47
233.00	235.00	408685	Core_Half	163.87	19.1	0.97	2.22	33.2	9.4	0.114	1700	-0.005	0.03	0.15	0.17
235.00	237.00	408686	Core_Half	273.52	16.8	3.47	2.12	27.2	21.8	0.198	1700	-0.005	0.07	0.37	0.37
237.00	239.00	408687	Core_Half	384.38	29.3	4.6	3.14	25.4	17.6	0.269	3100	-0.005	0.21	0.38	0.48
239.00	241.00	408688	Core_Half	333.34	20.9	2.87	2.87	28.1	19.5	0.243	1300	-0.005	0.06	0.46	0.21
241.00	243.00	408689	Core_Half	344.36	16.7	1.58	3.13	33.1	10.8	0.243	1300	-0.005	0.08	0.55	0.12
243.00	245.00	408691	Core_Half	141.14	12.9	1.09	2.93	31.5	12.3	0.109	3200	-0.005	0.15	0.69	0.13
245.00	247.00	408692	Core_Half	119.08	14.5	1.58	3.22	16.3	14.4	0.091	1100	-0.005	0.06	0.73	0.04
247.00	249.00	408693	Core_Half	240.84	13.5	1.88	2.62	29.5	12.5	0.151	1700	-0.005	0.12	0.54	0.11
249.00	251.00	408694	Core_Half	255.35	20.8	1.33	3.4	33.9	10.8	0.185	3500	-0.005	0.17	0.62	0.1
251.00	253.00	408695	Core_Half	52.99	6.8	2.78	3	41.3	11.8	0.067	4700	-0.005	0.09	1.49	0.07
253.00	254.00	408696	Core_Half	227.3	16.3	1.23	3.35	71.3	15.7	0.164	4900	0.005	0.15	17.09	0.22
254.00	255.00	408697	Core_Half	107.62	8.8	2.92	3.88	53.2	15.4	0.121	6300	-0.005	0.12	3.09	0.63
255.00	257.00	408698	Core_Half	193.31	17.8	2.04	2.77	43.9	13.9	0.154	4100	0.005	0.07	4.11	0.2
257.00	259.00	408699	Core_Half	131.24	14.5	1.16	3.56	38	10	0.104	1200	-0.005	0.06	1.51	0.14
259.00	261.00	408700	Core_Half	138.52	16.9	1.63	4.22	58.3	9.8	0.12	7300	0.005	0.11	2.43	0.11
261.00	263.00	408701	Core_Half	179.93	15.6	3.87	9.05	64.3	14.2	0.158	14600	-0.005	0.4	12.89	0.26

263.00	265.00	408702	Core_Half	205.65	20	2.66	3.72	57.9	13.3	0.142	11400	-0.005	0.61	4	0.62
265.00	267.00	408703	Core_Half	293.64	22.1	2.51	4.49	61.1	14.3	0.223	8100	-0.005	0.26	13.21	0.4
267.00	269.00	408704	Core_Half	281.38	21.7	9.3	3.59	61.5	18.6	0.248	8100	0.007	0.35	15.5	0.61
269.00	271.00	408705	Core_Half	112.78	16.3	1.59	3.87	55.8	15.1	0.11	5400	0.006	0.12	16.78	0.28
271.00	273.00	408706	Core_Half	607.52	34.2	3.11	4.13	43.1	63.2	0.443	6200	-0.005	0.38	17.31	1.73
273.00	275.00	408707	Core_Half	476.52	27.7	21.62	6.6	41.5	36.6	0.379	2600	0.009	0.52	6.97	1.36
275.00	276.00	408708	Core_Half	462.84	24.3	3.97	5.18	37.9	27.9	0.436	3600	-0.005	0.3	2.62	0.71
276.00	277.00	408709	Core_Half	459.05	18.8	6.52	4.1	43.1	14.6	0.397	5000	0.008	0.28	0.13	0.88
277.00	278.00	408711	Core_Half	597.11	31.7	12.33	5.05	50.6	55.5	0.593	3300	-0.005	0.37	0.13	1.24
278.00	279.00	408712	Core_Half	820.21	54.1	11.2	10.48	77.1	41.4	0.805	2100	0.009	0.49	0.16	1.53
279.00	280.00	408713	Core_Half	1130.35	67	6.59	4.36	41.8	39.3	0.956	500	-0.005	0.41	0.11	1.89
280.00	281.00	408714	Core_Half	874.54	47.8	8.93	3.5	42.3	51.4	0.775	4800	0.007	0.43	0.07	1.97
281.00	282.00	408715	Core_Half	1085.02	57.5	4.79	5.69	55.6	26.9	0.811	4900	0.005	0.39	0.1	1.69
282.00	283.00	408716	Core_Half	449.71	30.1	4.24	3.4	21	12.7	0.331	1400	-0.005	0.08	0.32	0.37
283.00	285.10	408717	Core_Half	484.7	29.2	1.93	2.63	25.1	13.1	0.297	1800	-0.005	0.08	0.89	0.58
285.10	287.00	408718	Core_Half	86.57	9.3	4.13	2.41	51.3	16.9	0.089	6800	-0.005	0.21	6.9	0.17
287.00	288.00	408719	Core_Half	824.62	43.4	5.59	3.52	53.7	37.7	0.638	1800	-0.005	0.24	42.13	0.34
288.00	290.00	408720	Core_Half	162.35	13.6	2.27	2.48	12.6	13.7	0.134	700	-0.005	0.04	1.33	0.06
290.00	292.00	408721	Core_Half	395.17	26.2	2.48	2.42	15.1	12.5	0.27	1300	-0.005	0.05	1.18	0.22
292.00	294.00	408722	Core_Half	301.08	15.8	2.17	3.82	46.5	14.1	0.22	4600	-0.005	0.17	7.14	0.13
294.00	295.00	408723	Core_Half	764.92	42.8	3.15	4.82	62.4	53.5	0.666	3300	0.007	0.63	19.85	0.5
295.00	297.00	408724	Core_Half	1341.73	105.5	1.72	1.83	23	14.8	1.054	2200	-0.005	0.1	0.56	0.26
297.00	299.00	408725	Core_Half	348.11	32.3	1.79	1.68	26.9	14.4	0.242	5700	-0.005	0.07	0.59	0.17
299.00	301.00	408726	Core_Half	188.16	14.9	1.46	1.66	30	13.3	0.133	5000	-0.005	0.03	0.39	0.07
301.00	303.00	408727	Core_Half	580.3	41.3	2.01	1.78	34.9	14.6	0.409	4600	-0.005	0.06	0.36	0.24
303.00	305.00	408728	Core_Half	164.12	14.8	2.25	2.67	52.9	10.4	0.114	4500	-0.005	0.03	1.22	0.07
305.00	307.00	408729	Core_Half	278.9	19	1.51	3.47	38.6	8.8	0.182	4300	-0.005	0.03	0.4	0.15
307.00	309.00	408731	Core_Half	233.05	12.6	1.12	2.37	43.3	12	0.171	5000	-0.005	0.07	0.42	0.05
309.00	311.00	408732	Core_Half	202.52	10.3	3.55	4.8	53.5	9.7	0.163	6800	-0.005	0.12	0.29	0.11
311.00	313.00	408733	Core_Half	155.06	8.4	1.96	2.48	47.3	8.5	0.139	8100	-0.005	0.06	0.32	0.06
313.00	315.00	408734	Core_Half	133.66	6.1	3.06	1.74	63.8	9.3	0.138	14600	-0.005	0.2	0.41	0.07
315.00	316.00	408735	Core_Half	199.77	59.9	2.17	3.54	40.6	6.5	0.26	4700	-0.005	0.31	0.67	0.2
316.00	317.00	408736	Core_Half	385.97	18	1.85	1.6	52.3	9.3	0.287	5600	-0.005	0.06	0.29	0.1
317.00	319.00	408737	Core_Half	402.6	17	2.59	1.78	47.2	11.2	0.305	8400	-0.005	0.13	0.45	0.14
319.00	320.00	408738	Core_Half	255.3	11.9	2.55	2.49	46.7	14.2	0.194	6100	-0.005	0.06	1.64	0.04
320.00	322.00	408739	Core_Half	137.49	11.6	3.73	4.08	47.1	26.3	0.135	7800	-0.005	0.11	16.63	0.09

322.00	324.00	408740	Core_Half	143.63	5.1	1.75	3.72	52.4	14.4	0.146	3600	-0.005	0.06	2.6	0.06
324.00	326.00	408741	Core_Half	254.06	10.6	2.14	3.61	44.5	26.6	0.184	3400	0.021	0.09	5.94	0.07
326.00	328.00	408742	Core_Half	163.48	8.9	1.97	2.82	44.5	16.8	0.146	4900	0.005	0.06	2	0.06
328.00	329.00	408743	Core_Half	570.93	19.1	20.39	2.01	36.2	9.8	0.502	6900	-0.005	0.09	0.45	0.17
329.00	331.00	408744	Core_Half	233.8	15.4	3.04	1.91	45.4	10.2	0.189	10500	-0.005	0.05	0.29	0.12
331.00	333.00	408745	Core_Half	352.79	26.4	1.19	2.1	52.6	11.6	0.299	14700	-0.005	0.09	0.24	0.23
333.00	335.00	408746	Core_Half	195.51	8.4	1.97	2.03	50.3	10.5	0.172	11200	-0.005	0.03	0.28	0.09
335.00	337.00	408747	Core_Half	265.3	7.6	1.45	1.56	42.7	9	0.209	9000	-0.005	0.02	0.27	0.09
337.00	339.00	408748	Core_Half	660.08	25.5	1.17	1.92	46	9	0.488	7900	0.005	0.06	0.3	0.28
339.00	341.00	408749	Core_Half	854.37	31.3	2.46	1.7	52.5	8.1	0.761	11200	-0.005	0.04	0.32	0.19
341.00	343.00	408751	Core_Half	230.83	14.4	2.33	1.81	45.4	8.4	0.214	12400	-0.005	0.11	0.36	0.15
343.00	345.00	408752	Core_Half	174.29	16.1	2.13	1.62	55.7	8.8	0.165	16400	-0.005	0.09	0.37	0.19
345.00	347.00	408753	Core_Half	449.86	33.3	5.72	1.83	42.1	10.1	0.321	9400	-0.005	0.03	0.38	0.1
347.00	349.00	408754	Core_Half	384.03	85.5	8.42	1.73	41	10.5	0.282	11400	-0.005	0.02	0.32	0.08
349.00	351.00	408755	Core_Half	205.55	33.1	2.36	1.7	37.2	11.7	0.156	6900	-0.005	0.02	0.46	0.1
351.00	353.00	408756	Core_Half	460.85	32.1	2.48	1.94	36.7	11.7	0.292	7900	-0.005	0.22	0.33	0.18
353.00	355.00	408757	Core_Half	655.12	81.4	3.39	1.79	38.9	9.7	0.415	8600	-0.005	0.02	0.27	0.26
355.00	357.00	408758	Core_Half	280.47	23.9	4.05	1.47	29.4	10.6	0.209	7100	-0.005	0.03	0.32	0.21
357.00	359.00	408759	Core_Half	446.57	23.6	6.65	1.79	47.3	11.1	0.365	12100	-0.005	0.03	0.32	0.24
359.00	361.00	408760	Core_Half	590.35	30.8	3.51	2.37	49	8.2	0.444	13000	-0.005	0.03	0.27	0.24
361.00	363.00	408761	Core_Half	320.66	17.3	2.63	1.88	40.3	10.8	0.257	10700	-0.005	0.03	0.29	0.32
363.00	365.00	408762	Core_Half	613.17	49.6	3.72	1.43	48.5	14.9	0.495	12900	-0.005	0.09	0.25	0.43
365.00	367.00	408763	Core_Half	22.7	5.1	0.94	1.77	39.4	5.5	0.044	10000	-0.005	0.03	0.24	0.13
367.00	369.00	408764	Core_Half	120.39	4.2	1.19	2.33	22.5	4.1	0.117	5300	-0.005	0.04	0.23	0.18
369.00	371.00	408765	Core_Half	614.18	17.4	23.92	2.15	41.2	9	0.451	11100	-0.005	0.05	0.33	0.19
371.00	373.00	408766	Core_Half	114.35	6.9	2.59	1.32	70.3	10	0.118	18200	-0.005	0.11	0.18	0.32
373.00	375.00	408767	Core_Half	239.73	11.1	1.71	1.18	51.4	9.8	0.203	11500	-0.005	0.03	0.2	0.15
375.00	377.00	408768	Core_Half	244.66	10.4	1.75	1.8	60.8	6.8	0.219	12800	-0.005	0.05	0.43	0.23
377.00	379.00	408769	Core_Half	121.8	5.6	2.27	1.87	59.9	8.3	0.135	19100	-0.005	0.22	0.2	0.18
379.00	381.00	408771	Core_Half	129.3	10.2	2.46	2.18	52.3	10.4	0.13	14400	0.006	0.05	0.31	0.22
381.00	382.50	408772	Core_Half	58.03	3.6	2.47	2.97	65.7	12.9	0.05	17000	0.006	0.11	2.91	0.11
382.50	384.00	408773	Core_Half	264.15	48.5	6.86	1.81	57.3	12.8	0.236	15500	0.083	0.65	2.59	0.72
384.00	386.00	408774	Core_Half	231.13	18.8	1.87	1.49	51.6	9.7	0.204	20000	-0.005	0.11	0.16	0.25
386.00	388.00	408775	Core_Half	173.99	4.3	1.01	1.46	35.7	7	0.12	13200	0.006	0.05	0.25	0.06
388.00	390.00	408776	Core_Half	340.51	19.4	2.79	1.53	38.9	12.7	0.251	13600	-0.005	0.03	0.24	0.19
390.00	392.00	408777	Core_Half	286.43	9.9	3.04	1.43	44.1	9.2	0.233	15300	-0.005	0.24	0.19	0.12

392.00	394.00	408778	Core_Half	217.63	8.3	5.13	1.54	43.8	9.6	0.18	12200	-0.005	0.14	0.15	0.27
394.00	396.00	408779	Core_Half	442.68	13.3	3.21	1.5	36.8	9	0.35	8900	-0.005	0.03	0.35	0.11
396.00	398.00	408780	Core_Half	165.25	14.5	2.52	1.62	37.9	11.2	0.102	12800	-0.005	0.02	0.23	0.14
398.00	400.00	408781	Core_Half	494.29	34	22.42	1.65	44.6	11	0.328	15500	-0.005	0.04	0.2	0.15
400.00	401.73	408782	Core_Half	147.78	7	1.67	2.14	43.9	8.6	0.093	14700	-0.005	0.38	0.2	0.18

GEOINFORMATICS EXPLORATION
DRILL HOLE LOG

RZ06_04

Geoinformatics Exploration Inc

Collar

Hole ID	RZ06_04	*Hole type*	DD		*Drilling company*	*Grid ID*	NAD83_UTM_10		
DataSet	GXL_REDTON_2006	*Depth*	370.64	m	*Geologist*	*Easting*	354234.00	*RL*	1560.00 m
Prospect	Red Zone	*Commenced*	4/08/2006		*Survey Method*	*Northing*	6171562.00		
Tenement		*Completed*	9/08/2006		*Notes*				

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
0.00	m	270.0	NAD83_UTM	-60.0	COMPASS	
32.30	m	268.9	NAD83_UTM	-58.6	CAMERA	
78.00	m	269.7	NAD83_UTM	-58.8	CAMERA	
123.75	m	269.5	NAD83_UTM	-59.0	CAMERA	
184.71	m	271.5	NAD83_UTM	-59.0	CAMERA	
245.67	m	271.9	NAD83_UTM	-58.8	CAMERA	
306.63	m	272.5	NAD83_UTM	-59.2	CAMERA	
367.59	m	276.3	NAD83_UTM	-59.6	CAMERA	

Lithology

Logged by: Tony_Worth

			Lith 1					*Lith 2*					
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	7.00	CASE					100							
7.00	15.00	IID	C		eq	pp	100							
15.00	24.00	IIDP	M	pp	pp		100							
24.00	27.10	IID	C		eq	pp	100							
27.10	49.15	IID	C		eq	pp	100							
49.15	49.90	IIDM	f		eq		100							
49.90	56.40	IID	m		eq	pp	100							
56.40	60.80	IIDP	m	pp	pp		100							
60.80	117.10	IID	m		eq	pp	100							
117.10	135.40	IIDM	f		eq		100							

135.40	152.20	IID	c	eq		80	IIDM	f	eq	20
152.20	159.80	IIDM	f	eq		80	IID	c	eq	20
159.80	187.00	IID	c	eq	pp	100				
187.00	212.10	IIDM	f	eq		60	IID	c	eq	40
212.10	223.90	IID	c	eq		80	IIDM	f	eq	20
223.90	370.64	IIDM	f	eq		100				

Lithology

Logged by: Tony_Worth

From	To m	Description
0.00	7.00	
7.00	15.00	pervassively weathered diorite - strongly fractured, altered. Some malachite on fractures
15.00	24.00	diorite? with weathering restricted to fractures. porphyritic texture - poss monz porphyry or just altered diorite
24.00	27.10	diorite with weathering restricted to fractures
27.10	49.15	intensely altered diorite with abundant fractures, veins and moderate cpy mineralisation. Relict texture difficult to discern - generally cg equigranular but in places appears plag porphyritic
49.15	49.90	finer grained, more mafic section of diorite
49.90	56.40	intensely kfs altered diorite with abundant fractures, veins and moderate cpy mineralisation.
56.40	60.80	intense alt makes lith ID difficult, but more f-mg fs laths aparent from here down - crowded porphyry texture. Could also be result of change in alt from KFS to ser-clay. Both contacts unclear
60.80	117.10	intensely altered diorite with abundant fractures, veins and weak-moderate cpy mineralisation. Alt makes primary lith difficult to determine
117.10	135.40	possibly a finer grained, more mafic section, contacts gradational - strongly altered - phylic overprint
135.40	152.20	mod-strongly altered/fractured diorite with frequent narrow zones of fg mafic micro-diorite
152.20	159.80	more mafic section, generally fine grained. Strong hematite, some epidote
159.80	187.00	highly altered more coarse grained, tending towards crowded plag lath porphyritic
187.00	212.10	mostly more mafic (less altered?) fg diorite - some cg sections
212.10	223.90	
223.90	370.64	mainly finer grained, more mafic microdiorite

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
7.00	49.00	int	KF	pv	stg	SL	pv	int	TOUR	ff	wk	intense phyllic/argillic qz-ser-clay overprint on K alteration zone. 70% of mafics gone, only cl left in few places. Absence of ep, mgt
49.00	49.90	stg	CH	pv	stg	SL	pv	wk	TOUR	ff	wk	more mafic zone - mainly chl after BT?? Weak mgt
49.90	57.70	int	KF	pv	stg	PH	pat	MOD	TOUR	ff	wk	strong kfs with mod-str phyllic/argillic overprint
57.70	62.50	int	KF	pv	stg	PH	pv	STG	TOUR	ff	wk	more bleached appearance - stronger overprint
62.50	70.00	stg	KF	pv	stg	PH	pat	MOD	TOUR	ff	wk	moderate kfs and mod-str phyllic overprint
70.00	76.15	int	KF	pv	int	PH	pat	WK	TOUR	ff	wk	intense kfs zone - very hard - no clay. Abunadant tourm vnlets
76.15	80.70	stg	KF	pv	stg	PH	pat	MOD	TOUR	ff	wk	moderate kfs and mod-str phyllic overprint
80.70	82.60	stg	EZ	pat	mod	PH	pat	MOD	KF	pat	wk	first apearance of epidote alteration - in fg mafic section.

82.60	89.40	stg	KF	pv	stg	PH	pat	MOD	TOUR	ff	wk	mod-strong Kfs alt with vaiable phyllic overprint. More silicified torwards base of section
89.40	122.60	stg	CH	pv	MOD	PH	pv	MOD				mod-strongly phyllic overprinted chl zone with some patchy kfs throughout. Very little epidote
122.60	137.20	stg	CH	pv	MOD	PH	pv	MOD				as above - more hematite
137.20	148.00	mod	CH	pv	MOD	PH	pv	MOD				mod-strongly phyllic overprinted chl zone with some patchy kfs throughout. 30cm ep-mgt zone at bottom of interval
148.00	153.35	stg	CH	pv	MOD	PH	pv	MOD				as above - more hematite
153.35	154.00	int	EZ	pv	stg	PH	pat	wk				strong epidote zone with some assoc cpy
154.00	159.80	stg	CH	pv	MOD	PH	pv	MOD				hematitic phyllic overprint of chloritic zone with minor kfs
159.80	186.80	stg	KF	pv	STG	PH	pv	STG	TOUR	ff	wk	increased KFS, re-emergence of tourm vns. Increase phyllic overprint downhole
186.80	195.50	stg	CH	pv	MOD	PH	pv	MOD				variably chl - kfs altered
195.50	197.50	stg	KF	pv	STG							narrow zone of strong kfs
197.50	212.15	stg	CH	pv	STG	PH	pat	mod				patchy kfs with chl-ep zone
212.15	226.20	stg	CH	pv	STG	PH	pv	stg				as above - more strongly phyllic overprinted
226.20	230.00	mod	CH	pv	mod	PH	pat	mod				wk-mod cl with inc ser towards base of section
230.00	233.50	mod	KF	pv	mod	PH	pat	mod				zone of kfs
233.50	250.20	wk	CH	pv	wk							wk-mod cl with patches of kfs
250.20	254.80	mod	KF	pv	mod	PH	pat	WK				zone of kfs
254.80	267.20	mod	CH	pv	mod							as above - wk-mod cl with patches of kfs
267.20	275.40	mod	KF	pv	mod	PH	pat	mod	TOUR	ff	wk	zone of more kfs
275.40	279.60	wk	CH	pv	wk							wk-mod cl-ep
279.60	296.20	mod	KF	pv	mod	PH	pat	wk	TOUR	ff	wk	zone of more kfs with minor ep-chl
296.20	298.50	mod	KF	pv	mod	PH	pv	stg				strongly phyllic overprinted zone
298.50	307.00	mod	KF	pv	mod	PH	pat	wk	TOUR	ff	wk	mod kfs decreasing downhole
307.00	322.00	wk	CH	pv	wk							wk cl-ep zone with patches of kfs
322.00	333.70	mod	EZ	pat	mod							wk-mod epidote-chlorite with patchy kfs
333.70	338.20	stg	CH	pv	mod	PH	pv	STG				hematitic phyllic overprint of chloritic zone with minor kfs
338.20	345.00	int	KF	pv	mod	PH	pv	INT				strong sil-ser phyllic zone
345.00	362.00	stg	KF	pv	mod	PH	pv	INT				a/a more clay, less sil
362.00	370.64	mod	KF	pv	mod	PH	pat	wk				mod-str mixed K-propyllitic zone

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
7.00	17.20		ZVT	FRV	5	2				5								tourmaline fracture vns - no B or D qz vns
17.20	26.20		ZVQ	PLN	1	5	60	ZVT	FRV	1	2							beginning of B vns - qz-py-cpy
26.20	31.80		ZVQ	PLN	10	10		ZVT	FRV	10	2							zone of abundant B vns - various orientations
31.80	38.50		ZVQ	PLN	4	5		ZVT	FRV	4	2							
38.50	40.60		ZVQ	PLN	6	5		ZVT	FRV	6	2							
40.60	49.00		ZVQ	PLN	4	5		ZVT	FRV	4	2							
49.00	71.00		ZVQ	PLN	1	5	60	ZVT	FRV	1	2		ZVQC	WSP	1	1		decreasing B vns. Wispy carb frv vnlets

71.00	79.50	ZVQC	WS	1	1		ZVT	FRV	1	2							mainly tourm-cl fracture vns. No b or d vns
79.50	87.00	ZVQC	WS	1	1		ZVT	FRV	1	2							end of tourm vns
87.00	89.40	ZVQ	PLN	3			ZVCL	FRV	3	2							tabular set of qz vns - some 1mm vnlets, others vuggy comb vns - D or B vns
89.40	124.00	QZ	FRV	5	4				5								opaque white fracture filling veinlets throughout core - breccia zones in places
124.00	133.00	ZVQC	FRV	5	3		ZVQ	COM	5	20	20						as above but vns also contain clay and some carb. 1 2cm qz-py-cpy comb vn at acute angle to core
133.00	155.70	ZVQC	FRV	2	3				2								as above
155.70	156.80	ZVQ	COM	10	50	20	ZVQC	FRV	10	2							2 qz-py comb vns at acute angle to core
156.80	159.80	ZVQC	FRV	2	3				2								
159.80	161.20	ZVQC	FRV	10	3				10								opaque white fracture filling veinlets
161.20	165.00	ZVQC	FRV	5	3		ZVT	FRV	5	2							re-appearance of tourmaline vns
165.00	183.00	ZVQC	FRV	1	2		ZVT	FRV	1	3							more abundant tourm vns
183.00	210.00	ZVQC	FRV	5	3		ZVCL	FRV	5	2							carb-qz fr vnlets, various orientations
210.00	214.00	ZVQC	PLN	3	5	75	ZVQC	FRV	3	2							several tabular comb vns
214.00	233.50	ZVQC	FRV	1	2				1								
233.50	252.40	ZVQC	FRV	3	2				3								
252.40	254.00	ZVQ	PLN	5	5		ZVQC	FRV	5	2							few tabular comb vns
254.00	268.00	ZVQC	FRV	3	2				3								
268.00	275.00	ZVQC	FRV	4	2		ZVT	FRV	4	2							slightly more fractured - more frv
275.00	279.30	ZVQC	FRV	3	2				3								
279.30	291.00	ZVQC	FRV	4	2		ZVT	FRV	4	2							
291.00	298.00	ZVQC	FRV	3	2		ZVO	FRV	3	2							tourmaline replaced by spec hematite(afer mgt?)
298.00	310.50	ZVQC	FRV	3	2		ZVO	FRV	3	2		ZVQC	COM	1	5	45	few tabular comb vns withtr cpy
310.50	349.00	ZVQC	FRV	2	2				2								
349.00	364.00	ZVQC	FRV	2	2		ZVQC	COM	2	5							few tabular qz comb? Vns - various orientations
364.00	370.64	ZVQC	FRV	2	2				2								

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
7.00	26.20	roughly equal py-cpy on fractures, vns, dissem and blebs	CCP	ff	0.3
			PY	ff	0.3
			CCP	diss	0.2
			PY	diss	0.2
			CCP	vsel	0.1
			PY	vsel	0.1

			MAL	ff	0.05
			MOL	ff	0.05
26.20	33.00	increased cpy with increased veining	CCP	vsel	0.5
			CCP	ff	0.3
			PY	ff	0.3
			CCP	diss	0.2
			PY	diss	0.2
			PY	vsel	0.1
			MOL	vsel	0.05
33.00	34.00	1cm irregular fracture vn sub// to core with abundant cpy	CCP	vsel	2
			PY	vsel	0.3
			PY	ff	0.2
34.00	50.00	inc py decrease cpy down zone	CCP	ff	0.3
			CCP	vsel	0.3
			PY	ff	0.3
			CCP	diss	0.2
			PY	diss	0.2
			PY	vsel	0.2
50.00	72.00	cpy in course blebs on fractures and in vns - estimates difficult. Diss py inc downhole	PY	diss	0.5
			PY	ff	0.3
			CCP	ff	0.2
			PY	vsel	0.2
			CCP	vsel	0.1
			CCP	diss	0.1
72.00	75.70	fg diss py. Rare cpy	PY	diss	0.8
			PY	ff	0.2
			CCP	ff	0.1
			CCP	vsel	0.1
75.70	81.10	rare course blebs of cpy	PY	diss	0.2
			PY	ff	0.2
			CCP	ff	0.1
			CCP	vsel	0.1
			PY	vsel	0.1
81.10	82.00	series of cpy rich epidote fracture vns	CCP	vsel	1
			PY	vsel	0.2
82.00	85.00		CCP	diss	0.2
			PY	diss	0.2
			PY	ff	0.2
			CCP	ff	0.1
			PY	vsel	0.1
85.00	89.40	zone of inc cpy. Mal on ox fracture	CCP	diss	0.2
			CCP	ff	0.2

			PY	diss	0.2
			PY	ff	0.2
			CCP	vsel	0.1
			PY	vsel	0.1
			MAL	ff	0.05
89.40	98.20	zone of blebby py-cpy with subtle diss/ff py-cpy in halos of grey (min?) patchy alt	CCP	ff	0.5
			PY	ff	0.5
			CCP	vsel	0.3
			PY	vsel	0.3
			CCP	diss	0.2
			PY	diss	0.2
98.20	109.00	decreasing cpy	PY	diss	0.2
			PY	ff	0.2
			CCP	diss	0.1
			CCP	ff	0.1
			CCP	vsel	0.1
			PY	vsel	0.1
109.00	114.50		PY	diss	0.2
			CCP	ff	0.1
			PY	ff	0.1
			PY	vsel	0.1
114.50	123.00	occasional coarse blegs of cpy	PY	ff	0.2
			CCP	ff	0.1
			CCP	vsel	0.1
			PY	diss	0.1
			PY	vsel	0.1
123.00	125.00	more dissem py and inc cpy	CCP	vsel	0.3
			PY	diss	0.3
			PY	vsel	0.2
			CCP	ff	0.1
			PY	ff	0.1
125.00	134.00	occasional coarse blegs of cpy in vns	CCP	vsel	0.2
			PY	vsel	0.2
			CCP	ff	0.1
			PY	diss	0.1
			PY	ff	0.1
134.00	141.00		CCP	vsel	0.1
			PY	diss	0.1
			PY	ff	0.1
			PY	vsel	0.1
141.00	142.00	locally more cpy	CCP	vsel	0.2
			CCP	ff	0.1

			PY	diss	0.1
			PY	ff	0.1
			PY	vsel	0.1
142.00	153.10		CCP	vsel	0.1
			PY	diss	0.1
			PY	ff	0.1
			PY	vsel	0.1
153.10	155.00	1cm cppy vn plus ff disseminations	CCP	vsel	1
			PY	vsel	0.8
			CCP	ff	0.3
			CCP	diss	0.1
			PY	diss	0.1
			PY	ff	0.1
155.00	163.40	cpy drops off to tr	PY	diss	0.4
			PY	vsel	0.4
			PY	ff	0.2
			CCP	vsel	0.1
163.40	164.80	1 strong ep?-clay-cpy irregular vn plus diss cpy - assoc with grey-black min - bt? or CuOx???	CCP	vsel	0.7
			CCP	diss	0.2
			CCP	ff	0.1
			PY	diss	0.1
			PY	ff	0.1
164.80	172.70	as above but weaker. Cpy assoc with same black-grey min, usually in irregular chl+/-qz+/-clay vns	CCP	vsel	0.2
			CCP	diss	0.1
			CCP	ff	0.1
			PY	diss	0.1
			PY	ff	0.1
			PY	vsel	0.1
172.70	187.70	rare cpy in vns	PY	vsel	0.2
			CCP	ff	0.1
			CCP	vsel	0.1
			PY	diss	0.1
			PY	ff	0.1
187.70	188.40	locally more cpy	CCP	ff	0.3
			CCP	diss	0.2
			PY	diss	0.2
			PY	ff	0.2
188.40	192.00		PY	diss	0.2
			CCP	ff	0.1
			PY	ff	0.1
			PY	vsel	0.1
192.00	193.40	locally more cpy	CCP	ff	0.4

			CCP	diss	0.3
			PY	ff	0.3
			PY	diss	0.2
			CCP	vsel	0.1
			PY	vsel	0.1
193.40	212.15	rare tr py	PY	diss	0.1
			PY	ff	0.1
			PY	vsel	0.1
			CCP	ff	0.05
212.15	219.00	strong fg diss py but not visible cpy	PY	diss	1
			PY	ff	0.2
			PY	vsel	0.1
219.00	223.00		PY	diss	0.2
			PY	ff	0.2
223.00	260.00	very few sulphides	PY	ff	0.1
			PY	vsel	0.1
260.00	267.00	fg dissem py	PY	diss	0.3
			PY	ff	0.1
			PY	vsel	0.1
267.00	278.00		PY	diss	0.1
			PY	ff	0.1
			PY	vsel	0.1
278.00	280.50	rare diss and 1 vn with cpy	CCP	diss	0.1
			CCP	vsel	0.1
			PY	diss	0.1
			PY	ff	0.1
280.50	338.40	very sporadic patches of cpy in vns or diss	PY	diss	0.1
			PY	ff	0.1
			CCP	vsel	0.05
			PY	vsel	0.05
338.40	370.64	very fine grained dissem py - variable from 0.5 to 2%	PY	diss	1

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
7.00	128.00		ZRO	INT								pervassive fracturing >20/m. Generally well healed, often infilled with tourm+/-cl, qz, qz-carb veining. No notable shear/flt zones, minor breccia zones
128.00	133.00		ZFO	INT								mod-str foliation with abundant fr veining - some brecciated. Healed, early flt zone?
133.00	141.00		ZRO	MOD								moderately fractured - well healed, fr vns etc
141.00	219.80		ZRO	STG								more strongly fractured - well healed, fr vns etc
219.80	220.50		ZFO	STG								mod-str foliation - wk flt zone
220.50	261.00		ZRO	MOD								variable but generally moderately fractured - well healed, fr vns etc
261.00	273.00		ZRO	STG								slightly more strongly fractured

273.00	279.00	ZRO	MOD		
279.00	308.00	ZRO	STG		variable but generally strongly fractured - well healed
308.00	322.00	ZRO	MOD		
322.00	337.60	ZRO	WK		
337.60	339.20	ZFO	STG	45	strong foliation - mod flt zone. No gouge, well healed rock
339.20	370.64	ZRO	MOD		wk-mod fractured - well healed, some zones of micro-fracturing

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
24.27	ZRO	0.001	31.0	140.0		39	207	high	Set of parallel open fractures
24.49	ZVT	3	25.0	120.0		53	191	high	Irregular tourmaline fracture vein
26.00	ZRO	0.01	38.0	135.0		35	195	high	locally prominent set
26.69	ZVQ	1.5	56.0	240.0		31	20	high	Chalcopyrite bearing B veins
28.10	ZVQ	2	48.0	255.0		44	19	high	Chalcopyrite bearing B veins
28.65	ZVQ	3.5	55.0	253.0		38	26	high	Chalcopyrite bearing B veins
29.50	ZVQ	1	30.0	260.0		60	8	high	Chalcopyrite bearing B veins
30.02	ZVT	0.3	67.0	60.0		47	117	high	
31.47	ZVQ	1.5	54.0	285.0		52	43	high	Chalcopyrite bearing B veins
32.10	ZVQ	5	52.0	215.0		21	356	high	Chalcopyrite bearing B veins
32.15	ZVQ	0.3	50.0	250.0		40	18	high	Chalcopyrite bearing B veins later set cross cutting previous vein
38.35	SCO	0.001	60.0	350.0		61	83	moderate	contact between finer-grained more mafic diorite and diorite. 5cm zone of epidote-pyrite-chalcopyrite on contact
42.16	ZVCL	0.4	74.0	105.0		31	120	high	Chlorite vein with associated sulphides
42.75	ZRO	0.001	40.0	70.0		66	141	high	oxidised fracture with malachite on surface
44.45	ZVQ	0.2	65.0	285.0		44	53	high	B veiniet
45.65	ZVCL	1	25.0	315.0		88	49	high	Irregular orientation. Cross cuts tourmaline and quartz B veins
45.81	ZVCL	0.2	38.0	48.0		75	126	high	One of a set of parallel tourmaline- chlorite veins with associated chalcopyrite. These cross cut quartz B veins
48.25	ZRO	0.001	32.0	140.0		38	206	high	locally prominent set - malachite bearing
48.32	ZVQ	2	70.0	315.0		47	70	high	Pyrite bearing B vein
49.45	ZVQ	0.6	70.0	302.0		45	65	high	comb quartz vein
49.92	SCO	0.001	45.0	30.0		73	111	high	Extremely irregular contact -approximation only
51.55	ZVC	0.05	43.0	70.0		63	140	high	Set of parallel hairline carbonate veins
52.90	ZRO	0.001	35.0	60.0		74	137	high	locally prominent set
56.25	ZVT	0.1	25.0	72.0		78	151	high	Part of a parallel set
57.42	ZVQ	0.3	29.0	46.0		84	129	high	Quartz-tourmaline vein with others parallel in the area
58.55	ZVQ	0.5	84.0	118.0		29	100	high	sulphide associated
58.67	ZVCL	0.2	75.0	236.0		26	60	high	set of parallel cl-tour veins
64.03	ZVC	0.05	28.0	143.0		40	214	high	parallel set
64.15	SCO	0.001	33.0	67.0		73	143	high	contact with coarse grained unit
65.04	SCO	0.001	27.0	25.0		88	292	high	bottom contact of above unit
67.44	ZVQ	0.5	52.0	268.0		47	32	high	Chalcopyrite bearing B veins

68.63	ZVC	1	26.0	40.0	89	125	high	hem and cl also present with sulphides associated
70.43	ZVC	0.05	38.0	118.0	44	179	high	parallel hairline sets
70.44	ZVC	0.05	38.0	118.0	44	179	high	parallel hairline sets
72.26	ZVT	1.5	43.0	57.0	68	131	high	4cm zone of epidote and sulphides related to veining
74.92	ZVT	2	48.0	108.0	42	162	high	
79.65	SFO	4.5	25.0	53.0	85	136	high	chlorite and tourmaline foliations
88.55	ZVQ	0.4	70.0	250.0	30	50		qz-py-cpy vn
88.95	SFO	5	60.0	5.0	61	93		5cm zone of cleavage and cl, dark grey qz veining - probable weak flt zone
89.40	SFO	2	60.0	35.0	58	109		as above - other end of weak flt zone
92.65	ZVQ	1	25.0	140.0	44	212		py, minor cpy iin vn
97.90	SFO	0.1	22.0	130.0	51	204		foliation assoc with cpy - variable
120.85	ZVQ	0.5	65.0	280.0	42	51		comb vn
130.45	ZFX	2	10.0	320.0	76	229		bx vn/flt
130.50	SFO	0.1	35.0	300.0	74	42		variable
141.00	ZVQ	0.5	55.0	310.0	59	59		no sulphides
141.03	ZVQ	0.5	30.0	165.0	31	244		cpy-py bearing
141.60	SFO	0.1	30.0	115.0	52	184		foliation assoc with cpy - variable
153.45	ZVK	0.5	30.0	90.0	65	164		cpy bearing kfs vn
156.30	ZVQ	5	10.0	160.0	51	245		py rich comb vn
161.80	ZVT	0.5	35.0	25.0	84	111		toumaline fr vn - part of local set
167.30	ZVO	4	35.0	90.0	61	161		Chlorite vein with trace chalcopyrite
169.24	ZVQ	1	80.0	262.0	31	72		Quartz vein with trace pyrite and chlorite on margins
174.05	ZVO	0.5	40.0	85.0	59	154		tourmaline vein; part of a fracture network
178.30	ZVQ	0.5	39.0	300.0	70	46		chalcopyrite bearing comb vein
187.90	ZVC	0.3	30.0	280.0	69	26		quartz-carbonate vein
188.24	ZVQ	5	55.0	350.0	66	85		zone of silica-biotite(?) with disseminated chalcopyrite.
191.25	ZFX	5	25.0	160.0	37	240		5cm zone of fault breccia.
211.46	ZVC	0.5	70.0	225.0	22	51		Part of a tabular vein set with associated epidote.
213.70	ZVQ	1	80.0	270.0	33	73		Within a 20cm zone of foliation, possible weak fault zone.
219.17	SFO	6.5	67.0	19.0	53	101		zone of foliation possibly a weak fault zone
220.07	SFO		84.0	200.0	26	87		
227.69	ZVC	0.2	18.0	32.0	81	302		part of a localised tabular vein set
228.38	ZVC	0.2	20.0	22.0	81	293		part of a localised tabular vein set
234.69	ZVO	0.3	27.0	48.0	85	133		haematite vein
241.07	ZVC	0.2	24.0	43.0	90	130		part of a parallel set
248.48	ZVC	0.5	52.0	285.0	54	44		carbonate-chlorite vein, part of set
252.55	ZVQ	2	15.0	248.0	66	351		Quartz vein with associated chlorite on margins.
256.80	ZVQ	3	65.0	315.0	52	70		qz-py tabular vn
272.63	ZFO	5	30.0	55.0	80	138		small flt with some gouge
273.95	ZVC	0.2	35.0	20.0	85	109		locally persistant set
280.15	ZVQ	1	33.0	265.0	60	17		py-cpy bearing comb vn
284.80	ZVC	0.2	30.0	10.0	89	281		fracture vnlet set with assoc phyllic alt

290.30	ZRO	0.1	30.0	75.0	72	154	tourmalin fractures
292.30	ZVQ	2	55.0	280.0	49	44	buck white qz vn
313.50	ZRO	0.1	65.0	265.0	37	49	locally strong fr set
318.20	ZRO	0.1	20.0	38.0	85	309	hem filled fr set
323.79	ZVC	0.2	75.0	268.0	33	66	carb vein - part of lacal set
326.72	ZVC	0.5	70.0	268.0	35	58	carb vein - part of lacal set
333.90	ZVO	0.4	32.0	325.0	84	65	hematite vein
334.38	ZVQ	0.3	50.0	292.0	58	49	
338.00	ZRO	30	50.0	280.0	53	42	30cm zone of intense fracturing
338.50	ZVQ	3	45.0	300.0	65	52	quartz-pyrite vein with an associated foliation over 10cm.
338.60	ZRO	10	50.0	180.0	9	274	10cm fracture/foliation zone
339.15	ZRO	5	55.0	230.0	27	17	fracture zone with associated tourmaline? (dark mineral)
346.70	ZVQ	0.2	60.0	212.0	16	21	part of a localised tabular vein set
349.20	SFO	0.1	55.0	240.0	32	24	
356.45	ZVQ	0.25	80.0	320.0	39	85	part of a localised prominent tabular vein set
360.40	ZVQ	2	20.0	350.0	80	266	quartz breccia vein
363.85	ZRO	0.01	50.0	275.0	51	40	part of a localised set of parallel fractures
370.35	ZVQ	0.5	20.0	170.0	40	262	

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
7.00	9.00	408783	CORE_HALF	932.65	33	15.79	3.06	28.3	17.9	0.821	5700	0.008	0.1	3.62	0.03
9.00	11.00	408784	CORE_HALF	1701.21	46.8	20.53	2.86	22.2	50.8	1.183	2100	0.077	0.13	12.34	0.13
11.00	13.00	408785	CORE_HALF	3725.94	87.7	30.86	3.06	14.8	73.5	2.663	2300	0.041	0.31	12.16	0.3
13.00	15.00	408786	CORE_HALF	1121.06	24.1	23.6	2.11	13.8	23.1	0.699	2000	0.008	0.1	4.6	0.18
15.00	17.00	408787	CORE_HALF	2002.69	35.9	26.2	2.13	17.1	34.4	1.097	2000	0.013	0.13	15.96	0.15
17.00	19.00	408788	CORE_HALF	3687.34	90.9	97.13	3.33	23	69.8	2.62	2400	0.058	0.3	98.29	0.5
19.00	21.00	408789	CORE_HALF	5855.06	151.6	36.39	4.17	33	205.2	4.425	2300	0.602	0.39	106.38	0.56
21.00	23.00	408791	CORE_HALF	1895.44	72.6	14.13	4.1	18.2	119	1.271	2000	0.251	0.31	9.16	0.4
23.00	25.00	408792	CORE_HALF	1135.86	28.1	11.03	3.16	21.7	139.4	0.778	2900	0.343	0.19	6.63	0.59
25.00	26.00	408793	CORE_HALF	4330.57	76.4	28.26	2.68	20.2	81.4	2.776	2500	0.025	0.26	5.39	0.47
26.00	27.00	408794	CORE_HALF	3875.75	100.2	61.12	2.96	13.8	29.8	3.063	2400	0.011	0.23	1.82	0.48
27.00	28.00	408795	CORE_HALF	5959.03	123.1	21.3	3.5	12.9	13.1	5.003	2000	0.006	0.33	1.77	0.57
28.00	29.00	408796	CORE_HALF	8600.83	185.9	15.88	4.36	19.4	17.5	6.84	2500	0.017	0.37	1.3	0.97
29.00	30.00	408797	CORE_HALF	5387.7	99.1	15.03	3.92	16.9	17.6	3.809	2000	-0.005	0.18	0.34	0.61
30.00	31.00	408798	CORE_HALF	3265.58	50.2	48.87	2.92	18.2	24.5	1.994	2500	-0.005	0.25	0.34	0.35
31.00	32.00	408799	CORE_HALF	13570	280.1	62.01	4.98	16.7	71.4	8.235	1900	0.016	0.56	0.66	1.35
32.00	33.00	408800	CORE_HALF	9228.13	136.3	59.03	4.73	17	115.2	6.037	1700	0.013	0.35	0.37	0.95
33.00	34.00	408801	CORE_HALF	18710	658.9	42.68	3.16	40	130.6	14.942	2800	0.01	0.57	0.34	1.66

34.00	35.00	408802	CORE_HALF	4071.78	107.8	67.03	2.1	18.7	135.1	3.168	2600	0.006	0.23	0.74	0.55
35.00	37.00	408803	CORE_HALF	5622.87	109.8	127.67	2.77	21.8	54.6	4.095	2200	0.114	0.26	9.19	0.68
37.00	39.00	408804	CORE_HALF	8604.11	164.2	66.66	2.17	37.1	35.6	5.849	8600	0.016	0.4	0.68	1.02
39.00	41.00	408805	CORE_HALF	10140	191.8	94.08	3.59	24.6	523.3	6.525	1900	0.174	0.37	3.5	1.14
41.00	43.00	408806	CORE_HALF	7622.9	164.6	54.32	3.79	24.1	421.9	5.427	2800	0.065	0.47	15.39	0.99
43.00	45.00	408807	CORE_HALF	4978.79	118.6	61.55	3.11	20.1	44.7	3.458	2900	-0.005	0.23	0.99	0.67
45.00	47.00	408808	CORE_HALF	2820.49	53.8	21.97	1.98	15	16.5	1.648	2100	-0.005	0.14	0.15	0.36
47.00	49.00	408809	CORE_HALF	3263.2	110.9	25.94	3.23	16.8	106.1	2.653	2300	-0.005	0.64	0.41	1
49.00	50.00	408812	CORE_HALF	4857.26	116.8	27.65	2.86	20.6	4.5	3.656	3900	0.006	0.44	0.39	0.67
50.00	52.00	408813	CORE_HALF	4163.59	165.5	34.03	3.06	13.9	24.2	3.269	3000	-0.005	0.5	0.32	1.63
52.00	54.00	408814	CORE_HALF	1595.82	39.6	14.87	2.62	16.1	21.1	1.107	2800	0.007	0.61	0.22	2.93
54.00	56.00	408815	CORE_HALF	3883.04	141.5	24.83	3.62	16.6	32.1	2.859	2400	-0.005	0.5	0.16	1.67
56.00	58.00	408816	CORE_HALF	2422.22	92.3	5.06	3.83	21.2	296.4	1.837	2500	-0.005	0.17	0.37	0.65
58.00	59.00	408817	CORE_HALF	6025.4	215	17.96	11.41	19.4	1596.8	5.56	1900	0.017	0.74	4.1	1.43
59.00	61.00	408818	CORE_HALF	1520.15	37.7	6.59	4.57	18.9	346.7	1.297	3300	-0.005	0.17	1.22	0.23
61.00	63.00	408819	CORE_HALF	1242.56	37.2	3.28	4.03	17	161.1	1.033	3300	-0.005	0.36	0.8	0.19
63.00	64.00	408820	CORE_HALF	1884.38	39.6	3.19	6.48	18.1	463.7	1.166	3100	0.007	0.23	3.72	0.19
64.00	65.00	408821	CORE_HALF	6857.35	160.2	37.15	13.59	24.1	1302.5	5.67	3000	0.026	0.87	14.73	0.86
65.00	66.00	408822	CORE_HALF	2674.18	78.5	7.65	7.52	15.2	457.9	2.163	3200	-0.005	0.36	5.57	0.38
66.00	68.00	408823	CORE_HALF	645.05	26.3	2.22	2.63	17.7	34.9	0.533	3600	-0.005	0.14	1.05	0.14
68.00	69.00	408824	CORE_HALF	3267.35	50.7	1.97	3.72	15.4	179.9	2.017	3500	-0.005	0.25	1.26	0.4
69.00	71.00	408825	CORE_HALF	909.97	33.2	4.3	3.22	18.2	17.9	0.738	2500	-0.005	0.21	0.25	0.44
71.00	72.00	408826	CORE_HALF	1425.43	53.4	4.94	3.06	16.1	9.4	1.098	2500	-0.005	0.18	0.17	0.54
72.00	74.00	408827	CORE_HALF	293.47	12.4	9.59	3.05	16.8	12	0.304	3000	-0.005	0.25	0.23	0.94
74.00	76.00	408828	CORE_HALF	178.89	12	4.88	2.74	17	12.2	0.187	3600	-0.005	0.22	0.3	0.86
76.00	78.00	408829	CORE_HALF	462.79	59.4	28.41	2.03	10.4	23.9	0.412	2800	0.005	0.14	1.03	0.45
78.00	80.00	408831	CORE_HALF	1368.19	37.3	10.23	3.08	14	88.6	0.992	3300	0.027	0.22	1.11	0.78
80.00	81.00	408832	CORE_HALF	2017.76	51.4	16.33	3.96	22.5	129	1.424	3700	0.033	0.34	0.98	0.42
81.00	82.00	408833	CORE_HALF	3281.85	72.2	53.98	3.04	30.6	45.1	2.065	4500	0.005	0.22	0.84	0.35
82.00	84.00	408834	CORE_HALF	1920.46	48.9	220.05	2.4	24.1	145.4	1.252	2900	0.007	0.17	1.03	0.4
84.00	86.00	408835	CORE_HALF	2081.74	61.3	78.48	3.47	30.5	122	1.494	2600	6.531	0.21	40.12	0.42
86.00	88.00	408836	CORE_HALF	3795.14	88.9	20.06	3.27	39.4	84.5	5.338	2400	8.684	0.28	70.55	0.45
88.00	88.90	408837	CORE_HALF	3270.94	133	22.29	5.65	16.8	74.4	4.523	2000	0.817	0.47	31.72	0.58
88.90	90.00	408838	CORE_HALF	3054.8	45.3	56.4	5.33	29	253	2.756	3500	0.815	0.53	23.14	0.56
90.00	91.00	408839	CORE_HALF	3778.99	110.8	24.83	4.22	32.9	205.5	3.419	6100	0.486	0.94	7.26	1.43
91.00	92.00	408840	CORE_HALF	7634.14	169.7	8.62	7.57	55.5	445	6.886	4800	1.141	0.94	23.02	1.95

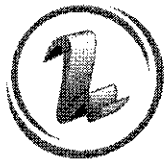
92.00	93.00	408841	CORE_HALF	9736.03	183.5	31.96	16.96	62	1322.5	8.257	4300	4.458	0.96	153.1	2.17
93.00	94.00	408842	CORE_HALF	15310	279.7	17.01	9.48	59.2	852.3	10.933	4400	0.064	0.83	66.25	1.91
94.00	95.00	408843	CORE_HALF	15120	275.5	34.75	6.75	55.5	595.4	10.833	3100	0.733	1.35	69.18	2.01
95.00	96.00	408844	CORE_HALF	7047	161.9	15.1	7.28	56.7	318.2	5.348	3700	1.939	0.68	82.49	0.74
96.00	97.00	408845	CORE_HALF	9628.99	165.9	12.83	4.66	46.4	345.5	7.7	4100	0.057	0.55	15.84	1.32
97.00	98.00	408846	CORE_HALF	13340	217.6	16.17	5.59	51	516.1	9.946	3700	0.053	0.79	26.24	1.56
98.00	99.00	408847	CORE_HALF	5004.41	64	40.04	4.85	133.3	452.3	3.927	4900	0.138	0.42	25.08	0.44
99.00	101.00	408848	CORE_HALF	7483.85	189.2	19.86	4.44	58.4	972.4	6.509	4100	0.032	0.54	6.11	0.67
101.00	103.00	408849	CORE_HALF	1534.01	28.5	18.53	3.36	40.1	289	1.101	3800	0.13	0.17	6.32	0.24
103.00	105.00	408851	CORE_HALF	1129.17	41.9	14.09	3.48	30.7	157.7	0.718	4600	0.423	0.13	4.86	0.11
105.00	107.00	408852	CORE_HALF	2626.99	65.4	30.23	4.09	29.4	645	1.951	4300	0.063	0.34	5.96	1
107.00	109.00	408853	CORE_HALF	1003.09	30.5	11.01	4.97	35.3	181.9	1.015	5100	0.934	0.24	17.25	0.82
109.00	111.00	408854	CORE_HALF	575.72	22.2	8.43	5.56	37.2	63.3	0.642	4800	4	0.24	24.74	0.59
111.00	113.00	408855	CORE_HALF	615.1	21.8	18.71	5.03	31.7	44.4	0.543	4600	0.374	0.21	26.97	0.65
113.00	115.00	408856	CORE_HALF	931.53	28.1	15.38	3.72	27.8	53.7	0.703	4000	0.022	0.15	1.8	0.2
115.00	117.00	408857	CORE_HALF	291.89	9.9	2.92	3.94	31.6	25.3	0.242	4800	1.734	0.13	13.21	0.11
117.00	119.00	408858	CORE_HALF	441.71	17.6	10.55	3.62	26.8	47.4	0.418	5500	0.148	0.34	9.4	0.51
119.00	121.00	408859	CORE_HALF	740.63	25.7	7.32	5.51	25.6	23.2	0.696	5100	2.263	0.56	50.75	0.44
121.00	123.00	408860	CORE_HALF	2901.64	73.3	14	10.26	33.9	96.9	2.286	5200	0.75	1.73	307	0.52
123.00	125.00	408861	CORE_HALF	4557.86	98	17.02	7.37	45	117.3	3.546	3600	0.399	0.81	183	1
125.00	127.00	408862	CORE_HALF	1494.14	32.7	24.69	4.3	42.2	25.5	0.997	3500	0.138	0.4	43.09	0.27
127.00	128.00	408863	CORE_HALF	516.47	14.5	30.7	5.63	45.8	16.7	0.658	3400	0.051	0.29	19.73	0.43
128.00	129.00	408864	CORE_HALF	2494.39	304.7	105.18	13.76	63.8	71.3	6.314	1600	0.162	3.43	23.15	2.88
129.00	130.00	408865	CORE_HALF	2578.58	58.5	74.45	6.88	43.7	69.7	2.495	2800	0.11	0.84	129.33	0.81
130.00	132.00	408866	CORE_HALF	2699.36	54	36.32	9.73	56.5	55.6	3.456	4300	0.277	0.87	126.74	0.89
132.00	133.00	408867	CORE_HALF	1721.43	44.5	22.79	8.71	49.1	23.7	1.338	4800	0.146	0.49	41.65	0.3
133.00	134.00	408868	CORE_HALF	1979.3	39.4	14.32	4.74	44.6	28.6	1.46	5600	0.054	0.34	18.43	0.29
134.00	136.00	408869	CORE_HALF	1832.26	32.4	10.71	8.2	41.6	22.1	1.198	2900	0.216	0.36	59.62	0.16
136.00	138.00	408871	CORE_HALF	1228.03	30.3	7.45	6.44	44.6	23.2	1.004	3900	0.071	0.2	50.92	0.12
138.00	140.00	408872	CORE_HALF	691.13	17.1	5.13	4.86	73.9	15.9	0.552	5700	0.053	0.14	7.88	0.16
140.00	142.00	408873	CORE_HALF	1550.98	40	4.76	5.49	68.8	75.3	1.599	3200	1.827	0.32	60.54	0.61
142.00	144.00	408874	CORE_HALF	1119.27	34.9	5.79	5.48	84.5	19.8	0.886	3700	0.1	0.18	26.2	0.17
144.00	146.00	408875	CORE_HALF	795.76	17.8	5.53	4.72	60.6	13.7	0.59	5200	0.1	0.2	10.58	0.1
146.00	148.00	408876	CORE_HALF	578.38	17.8	4.05	4.65	53.2	12.2	0.477	11900	0.043	0.15	5.97	0.07
148.00	150.00	408877	CORE_HALF	572.03	13.6	6.08	5.77	51.5	16.8	0.426	12600	0.012	0.15	16.74	0.07
150.00	152.00	408878	CORE_HALF	1699.98	38.7	21.38	6.93	51.3	16.2	1.394	6000	0.028	0.38	21.3	0.16

152.00	153.00	408879	CORE_HALF	1788.79	40	10.52	6.52	47.7	13.4	1.404	7100	0.008	0.28	10.53	0.19
153.00	154.00	408880	CORE_HALF	2081.68	52.7	15.2	3.24	48.1	9.1	1.578	4000	0.008	0.23	2.8	0.32
154.00	155.00	408881	CORE_HALF	6825.64	126.8	18.52	8.49	60.2	21.7	5.215	2900	0.037	0.72	15.7	1.11
155.00	156.00	408882	CORE_HALF	484.49	13.4	72.39	5.43	83.3	18.5	0.436	4400	0.013	0.54	17.14	0.16
156.00	157.00	408883	CORE_HALF	2641.71	46	92.64	9.82	104.8	28.3	2.411	5900	0.062	1.17	50.97	1.18
157.00	158.00	408884	CORE_HALF	4630.89	79.2	59.85	15.11	70.1	51.7	3.815	5000	0.09	0.93	40.84	1.08
158.00	160.00	408885	CORE_HALF	2204	26.7	12.4	11.89	59	16.9	1.817	2300	0.088	0.49	9.16	0.6
160.00	162.00	408886	CORE_HALF	523.31	9.7	19.65	5.4	32.4	24.9	0.475	1000	3.207	0.22	60.77	0.38
162.00	164.00	408887	CORE_HALF	3615.74	73.5	6.55	7.91	24.8	199	3.291	800	0.501	0.28	79.37	0.84
164.00	166.00	408888	CORE_HALF	605.07	17.6	1.98	6	35.3	34.4	0.511	1000	0.53	0.13	29.26	0.13
166.00	168.00	408889	CORE_HALF	767.28	20.6	14.17	5.67	28.5	55	0.658	1600	0.681	0.17	31.97	0.23
168.00	170.00	408891	CORE_HALF	6744.79	129.6	10.93	8.28	25.8	321.4	6.249	1800	0.116	0.81	22.55	0.98
170.00	172.00	408892	CORE_HALF	1495.08	33.2	5.29	4.94	28.6	114	1.297	2000	0.33	0.24	16.14	0.23
172.00	174.00	408893	CORE_HALF	1331.7	26.9	11.42	4.48	19.3	66.6	1.112	1900	0.153	0.37	20.04	0.61
174.00	176.00	408894	CORE_HALF	291.54	8	25.78	3.9	8.5	21.2	0.33	3100	0.012	0.66	6.14	0.11
176.00	178.00	408895	CORE_HALF	287.31	16	43.46	4.44	5.5	35.3	0.32	3800	0.034	0.36	4.54	0.15
178.00	180.00	408896	CORE_HALF	160.98	22.1	17.83	3.38	5.1	12.7	0.203	3500	0.02	0.27	3.28	0.45
180.00	182.00	408897	CORE_HALF	171.68	12.1	68.2	4.48	15.7	11.5	0.168	3200	0.014	0.27	4.11	0.27
182.00	184.00	408898	CORE_HALF	395.26	12.5	4.17	5.21	25.1	9.8	0.33	2500	0.016	0.24	2.22	0.49
184.00	186.00	408899	CORE_HALF	402.4	25.9	8.13	3.94	20.1	6.4	0.373	3100	0.032	0.25	2.04	0.45
186.00	188.00	408900	CORE_HALF	1821.26	27.6	44.07	6.76	39	23.2	1.365	4100	0.106	0.4	38.09	0.23
188.00	190.00	408901	CORE_HALF	3045.56	53.3	173.58	7.38	69.7	58.8	2.073	3700	0.043	0.55	25.43	0.63
190.00	192.00	408902	CORE_HALF	698.53	30.4	589.46	6.65	52.9	14.2	0.789	4300	0.154	0.88	18.41	0.85
192.00	194.00	408903	CORE_HALF	3253.14	177.9	195	16.16	67.7	119.2	4.342	3700	1.494	2.35	135.37	2.71
194.00	196.00	408904	CORE_HALF	300.15	8.7	10.94	3.34	33.3	23	0.345	5400	0.162	0.16	4.05	0.2
196.00	198.00	408905	CORE_HALF	86.22	7.5	5.03	2.48	22.7	9.4	0.182	5800	0.014	0.18	1.96	0.31
198.00	200.00	408906	CORE_HALF	361.99	11.5	7.42	2.77	33	8	0.273	8400	0.02	0.18	2.26	0.21
200.00	202.00	408907	CORE_HALF	359.79	24.9	13.07	3.35	34	8.3	0.31	4500	0.008	0.2	2.24	0.27
202.00	204.00	408908	CORE_HALF	300.52	16.6	6.24	3.36	37.8	7.6	0.35	4600	-0.005	0.25	0.9	0.21
204.00	206.00	408909	CORE_HALF	251.43	7.1	4.64	4.15	30.3	10.4	0.185	4400	0.192	0.12	1.23	0.2
206.00	208.00	408911	CORE_HALF	319.97	11.1	4.61	3.01	34.2	23.6	0.252	7900	0.193	0.21	12.69	0.33
208.00	210.00	408912	CORE_HALF	233.97	16.7	5.92	2.12	28.2	28.4	0.163	7400	0.015	0.19	2.34	0.08
210.00	212.00	408913	CORE_HALF	178.92	8.3	3.08	2.64	40.8	12.4	0.132	6300	0.006	0.13	1.64	0.13
212.00	213.00	408914	CORE_HALF	525.47	26.8	4.75	4.53	44.1	19.4	0.32	5300	0.099	0.25	2.76	0.84
213.00	214.00	408915	CORE_HALF	257.08	37.3	4.76	4.9	44.7	15.5	0.522	5700	0.307	0.41	4.54	0.5
214.00	215.00	408916	CORE_HALF	87.3	18.8	2.9	4.79	72.9	15.2	0.172	2500	0.478	0.6	1.56	1.3

215.00	216.00	408917	CORE_HALF	311.8	51.2	11.12	5.65	52.2	27.9	0.478	2000	0.346	2.47	1.77	3.7
216.00	217.00	408918	CORE_HALF	334.04	27.7	7.52	6.01	52.7	34.3	0.439	2900	0.217	1.16	4.76	3.49
217.00	218.00	408919	CORE_HALF	66.49	43.8	7.21	4.67	50.5	36.2	0.218	2100	0.209	1.11	2.66	3.87
218.00	219.00	408920	CORE_HALF	281.05	37.4	16.65	4.95	66.1	31.4	0.441	3300	0.131	0.88	2.07	2.34
219.00	220.50	408921	CORE_HALF	280.51	25.8	12.79	3.42	36.5	5.4	0.404	3300	0.094	0.47	0.7	0.45
220.50	222.00	408922	CORE_HALF	186.03	12.1	7.74	2.68	36.8	7.8	0.2	7000	0.044	0.06	3.27	0.09
222.00	224.00	408923	CORE_HALF	66.8	6.7	2.91	3.7	41	10.4	0.106	8200	0.262	0.12	11.92	0.11
224.00	226.00	408924	CORE_HALF	14.18	12.1	0.7	2.13	32.9	8.3	0.036	7700	0.081	0.14	3.59	0.34
226.00	228.00	408925	CORE_HALF	18.59	4.3	0.46	1.22	35.5	7.7	0.044	5100	0.021	0.14	0.6	0.14
228.00	230.00	408926	CORE_HALF	19.63	1.7	0.62	2.06	33.9	7.1	0.027	6500	0.007	0.07	0.62	0.05
230.00	232.00	408927	CORE_HALF	122.02	10.2	2.23	2.74	34.5	11.6	0.114	5300	0.053	0.1	0.78	0.18
232.00	234.00	408928	CORE_HALF	177.31	22.9	1.68	3.7	41.7	9.3	0.233	4300	0.078	0.43	2.34	0.37
234.00	236.00	408929	CORE_HALF	96.74	6.8	4.01	1.7	38.9	5.3	0.093	2700	0.013	0.12	0.47	0.08
236.00	238.00	408931	CORE_HALF	5.72	8.9	0.67	1.42	34.8	5.6	0.017	6200	-0.005	0.18	0.54	0.15
238.00	240.00	408932	CORE_HALF	8.14	11.4	1.11	1.53	34	7.8	0.034	8100	0.02	0.83	0.48	0.39
240.00	242.00	408933	CORE_HALF	9.11	3.3	1.35	1.79	28.6	5.8	0.023	6700	0.008	0.1	0.65	0.11
242.00	244.00	408934	CORE_HALF	3.83	9.4	1.63	1.69	37.3	7.1	0.035	10400	0.009	0.17	0.6	0.19
244.00	246.00	408935	CORE_HALF	6.72	9.4	1.19	2.57	34.5	6.7	0.058	11100	0.01	0.38	0.88	0.22
246.00	248.00	408936	CORE_HALF	2.49	2.6	0.69	1.75	39.4	6.2	0.026	10700	0.005	0.1	0.59	0.08
248.00	250.00	408937	CORE_HALF	12.81	5.3	2.22	1.59	35.7	6	0.031	9800	0.031	0.08	0.51	0.06
250.00	252.00	408938	CORE_HALF	103.04	28.6	2.18	2.92	33.9	4.8	0.102	5200	0.015	0.17	0.75	0.31
252.00	254.00	408939	CORE_HALF	7.32	20.5	1.98	2.58	22.4	5.6	0.141	6500	0.175	0.19	1.09	0.34
254.00	256.00	408940	CORE_HALF	12.7	8.1	1.61	2.2	40.4	6.8	0.045	8600	0.03	0.14	0.46	0.18
256.00	258.00	408941	CORE_HALF	134.02	17.4	4.83	1.91	41	6.4	0.116	12500	0.008	0.93	0.43	0.16
258.00	260.00	408942	CORE_HALF	120.56	6.1	0.99	3.13	35.6	6.7	0.126	11700	-0.005	0.09	0.59	0.04
260.00	262.00	408943	CORE_HALF	23.19	5.1	1.73	1.97	34.6	6.1	0.034	10800	0.011	0.09	0.57	0.13
262.00	264.00	408944	CORE_HALF	72.13	15.9	2.76	1.31	29.8	5.6	0.087	8000	0.014	0.55	0.56	0.27
264.00	266.00	408945	CORE_HALF	217.43	73.1	2.63	1.38	34.9	5.4	0.206	9500	0.01	0.18	0.47	0.28
266.00	268.00	408946	CORE_HALF	97.09	15.8	1.93	2.62	40.9	5.5	0.101	7200	0.028	0.09	0.9	0.07
268.00	270.00	408947	CORE_HALF	297.14	29.9	2.03	4.48	40.4	10.7	0.324	5400	0.531	0.27	8.98	0.48
270.00	272.00	408948	CORE_HALF	138.46	20.9	3.47	2.27	29.2	6	0.176	5800	0.151	0.15	1.11	0.35
272.00	274.00	408949	CORE_HALF	234.84	29.4	1.63	2.22	36.9	7	0.22	5500	0.027	0.21	0.77	0.41
274.00	276.00	408951	CORE_HALF	72.38	20.9	2.06	1.7	39	9	0.114	5600	0.023	0.26	0.55	0.53
276.00	278.00	408952	CORE_HALF	137.77	12.2	2.64	1.75	54	7.9	0.124	8400	0.021	0.16	0.31	0.18
278.00	280.00	408953	CORE_HALF	223.56	22.6	2.03	1.9	41.1	5.5	0.163	6000	-0.005	0.06	0.54	0.05
280.00	282.00	408954	CORE_HALF	286.08	56.4	2.53	2.13	34.2	4.6	0.294	4500	0.007	0.09	0.48	0.12

282.00	284.00	408955	CORE_HALF	184.18	19.7	1.98	2.3	39.7	6	0.186	6500	-0.005	0.12	0.91	0.18
284.00	286.00	408956	CORE_HALF	194.26	22.2	2.55	2.35	34.4	13.4	0.189	5100	0.013	0.12	0.86	0.44
286.00	288.00	408957	CORE_HALF	179.99	16.4	3.16	2.13	34.7	12.3	0.143	5500	0.009	0.14	0.64	0.17
288.00	290.00	408958	CORE_HALF	96.97	26.9	3.98	3.35	28.6	4.7	0.184	4900	0.018	0.16	0.9	0.22
290.00	292.00	408959	CORE_HALF	65.5	14.7	2.23	2.82	31.4	6.4	0.144	5600	0.031	0.15	0.8	0.2
292.00	294.00	408960	CORE_HALF	45.04	40.5	2.96	2.63	28	7.2	0.275	6200	0.035	0.46	0.58	0.69
294.00	296.00	408961	CORE_HALF	47.99	34.4	2.47	3.3	30.9	7.4	0.164	6800	0.031	0.48	1	0.85
296.00	298.00	408962	CORE_HALF	39.99	21.6	1.11	2.89	38.1	8.1	0.084	6800	0.29	0.22	2.19	0.4
298.00	300.00	408963	CORE_HALF	230.4	15.3	1.56	2.84	41.1	12.3	0.196	6400	0.123	0.14	3.03	0.1
300.00	302.00	408964	CORE_HALF	97.32	12.1	2.37	2.39	38.8	5.9	0.144	4200	0.05	0.11	1.19	0.14
302.00	304.00	408965	CORE_HALF	36.2	5	1.05	2.64	38	4.8	0.064	5400	0.01	0.14	0.61	0.04
304.00	306.00	408966	CORE_HALF	135.06	9.2	1.94	3.62	36.5	4.8	0.158	5600	0.01	0.14	0.73	0.25
306.00	308.00	408967	CORE_HALF	86.46	8.6	1.71	2.65	38.9	6.2	0.094	6200	-0.005	0.09	0.76	0.12
308.00	310.00	408968	CORE_HALF	5.9	7.8	1.11	2.77	36.2	7	0.045	7700	0.013	0.14	0.61	0.18
310.00	312.00	408969	CORE_HALF	6.75	25.2	1.71	2.84	30.7	7.8	0.102	6900	0.007	0.48	0.82	0.87
312.00	314.00	408971	CORE_HALF	36.09	29.6	1.03	2.48	38	7	0.192	6100	-0.005	0.25	0.65	0.54
314.00	316.00	408972	CORE_HALF	16.66	11.6	1.69	2.02	37.7	8.2	0.075	7900	0.008	0.24	0.92	0.37
316.00	318.00	408973	CORE_HALF	14.98	10.1	2.38	2.94	41.1	7.4	0.094	7400	-0.005	0.19	1.04	0.39
318.00	320.00	408974	CORE_HALF	66.28	3.2	0.5	1.82	56.7	8.6	0.056	10400	-0.005	0.07	0.7	0.03
320.00	322.00	408975	CORE_HALF	43.84	2	0.67	2.66	45.6	6.7	0.065	7800	0.005	0.06	0.88	0.04
322.00	324.00	408976	CORE_HALF	295.59	14.5	0.52	1.41	49.6	6.8	0.195	12300	-0.005	0.27	0.85	0.04
324.00	326.00	408977	CORE_HALF	8.99	21.8	0.39	1.06	33.5	7	0.016	10400	-0.005	0.04	1.01	-0.02
326.00	328.00	408978	CORE_HALF	36.01	27	0.31	1.08	32	6.9	0.028	3900	-0.005	0.05	1.05	-0.02
328.00	330.00	408979	CORE_HALF	8.62	1.5	0.4	1.13	34.2	7.1	0.012	6800	0.005	0.06	0.98	0.01
330.00	332.00	408980	CORE_HALF	16.92	0.8	0.5	1.31	35.4	7.8	0.027	9300	-0.005	0.22	1.17	0.01
332.00	334.00	408981	CORE_HALF	46.02	4.4	1.03	1.53	32.3	8.5	0.033	6100	0.006	0.16	1.24	0.02
334.00	336.00	408982	CORE_HALF	35.39	4	1.05	3.23	37.3	10.6	0.028	7900	0.035	0.09	6.4	0.03
336.00	338.00	408983	CORE_HALF	13.57	3.6	1.45	3.75	70.8	10.1	0.023	6400	0.077	0.05	7.77	0.01
338.00	340.00	408984	CORE_HALF	113.31	15.2	32.01	2.91	44.7	33.4	0.172	6000	0.564	0.95	4.02	1.33
340.00	342.00	408985	CORE_HALF	49.14	25.4	7.92	2.09	32.2	16.3	0.188	5100	0.023	0.8	0.74	1.96
342.00	344.00	408986	CORE_HALF	35.91	23.9	2.98	2.53	29.4	6.5	0.087	6000	0.015	0.47	0.34	1.94
344.00	346.00	408987	CORE_HALF	135.81	57.8	3.25	3.8	32.6	13.8	0.144	8000	0.014	0.36	0.63	1.82
346.00	348.00	408988	CORE_HALF	149.61	47	2.38	5.02	40.2	6.9	0.184	7200	0.055	0.43	0.54	1.9
348.00	350.00	408989	CORE_HALF	4738.66	316	9.79	9.43	80.8	4.8	1.051	2900	0.991	1.05	6.98	1.75
350.00	352.00	408991	CORE_HALF	62.08	18.7	2.01	3.19	46.4	5.4	0.079	2500	0.454	0.26	1.14	0.9
352.00	354.00	408992	CORE_HALF	52.94	132.8	2.73	2.3	27.3	5.3	0.305	2800	0.491	0.72	2.12	1.83

354.00	356.00	408993	CORE_HALF	72.62	105.1	2.5	2.81	31.8	5.7	0.106	4100	0.293	0.6	1.16	1.78
356.00	358.00	408994	CORE_HALF	291.59	44	3.7	4.65	36	51.7	0.235	5100	0.022	0.28	8.55	0.59
358.00	360.00	408995	CORE_HALF	97.59	32.8	2.85	3.44	31.3	11.5	0.072	3900	0.015	0.23	0.94	0.54
360.00	362.00	408996	CORE_HALF	22.19	22.4	6.03	4.1	34.9	6.1	0.056	5100	0.016	0.51	0.94	1.48
362.00	364.00	408997	CORE_HALF	134.15	27.5	2.48	1.94	47.5	7.2	0.176	12700	-0.005	0.56	0.47	0.98
364.00	366.00	408998	CORE_HALF	37.92	20	2.92	2.16	31.6	5.4	0.057	8400	0.008	0.85	0.46	2.15
366.00	368.00	408999	CORE_HALF	80.35	30.1	1.88	1.66	43.4	7.2	0.07	12400	0.007	0.3	0.4	1.1
368.00	370.00	409000	CORE_HALF	15.96	21.1	1.82	2.39	41.8	8.6	0.051	9700	0.011	0.65	0.26	2.6
370.00	370.64	410051	CORE_HALF	5.52	11.5	20.06	2.61	26.3	5	0.035	2700	0.017	1.09	0.3	1.96



Geoinformatics Exploration Inc

GEOINFORMATICS EXPLORATION
DRILL HOLE LOG

RZ06_05

Collar

Hole ID	RZ06_05	*Hole type*	DD		*Drilling company*	*Grid ID*	NAD83_UTM_10		
DataSet	GXL_REDTON_2006	*Depth*	388.32	m	*Geologist*	*Easting*	354330.00	*RL* 1590.00	m
Prospect	Red Zone	*Commenced*	17/09/2006		*Survey Method*	*Northing*	6171550.00		
Tenement		*Completed*	23/09/2006		*Notes*				

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
0.00	m	270.0	NAD83_UTM	-60.0	COMPASS	
114.00	m	269.6	NAD83_UTM	-60.5	CAMERA	
205.44	m	271.2	NAD83_UTM	-60.6	CAMERA	
296.88	m	275.1	NAD83_UTM	-60.4	CAMERA	
388.32	m	270.1	NAD83_UTM	-60.5	CAMERA	

Lithology

Logged by: Robin_McQuinn

			Lith 1					*Lith 2*					
From	*To*	*m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	10.05		CASE												
10.05	23.29		IIIP	M	pp	pp		100							
23.29	23.93		VFRD	F	at	mx		100							
23.93	28.15		IIIP	M	pp	pp		100							
28.15	29.39		VIB	F	bs	mx		100							
29.39	74.80		IIIP	M	pp	pp		100							
74.80	75.41		IIDP	M	pp			100							
75.41	79.21		IIIP	M	pp			100							
79.21	86.56		IIDP	C	pp			100							
86.56	97.45		IIIP	M	pp			100							
97.45	98.56		IIDP	C	pp			100							
98.56	106.62		IIIP	M	pp			100							
106.62	107.18		IIDP	C	at	pp		100							

107.18	137.21	IIIP	M	at	pp	100					
137.21	139.44	IIDP	M	pp	pp	100					
139.44	150.09	IIIP	M	at	pp	100					
150.09	150.69	IIDP	F	at	pp	70	IIIP	M	at	pp	30
150.69	176.35	IIIP	M	at	pp	70	IIP	M	at	pp	30
176.35	177.14	IUXC	C	at	eq	100					
177.14	206.94	IIP	M	at	pp	50	IIIP	M	at	pp	50
206.94	208.87	IIP	M	at	pp	100					
208.87	213.44	IIIP	M	at	pp	100					
213.44	231.07	IIP	M	at	pp	100					
231.07	257.54	IIIP	M	at	pp	100					
257.54	360.20	IIDM	M	at	eq	100					
360.20	367.93	IIQP	C	pp		100					
367.93	375.92	IIDM	M	at	eq	100					
375.92	388.32	IIQP	C	pp		100					

Lithology

Logged by: Robin_McQuinn

From	*To m*	*Description*
0.00	10.05	
10.05	23.29	plagioclase porphyritic andesite, approximately 40% phenocrysts, texture locally obliterated and silicified. Plagioclase laths altered to clay where present. Surface weathering effects visible.
23.29	23.93	Short rhyodacite segment is possibly a fine grained texture replaced segment of porphyritic andesite
23.93	28.15	Plagioclase porphyritic andesite variable altered to sub-equigranular texture
28.15	29.39	mildly (plagioclase) porphyritic basaltic andesite dyke intruding altered plagioclase porphyry at moderate angle
29.39	74.80	Plagioclase porphyritic andesite variable altered to sub-equigranular texture, with decreased weathering effects and increasing phenocryst density with depth. Minor basaltic dyke/xenolith from 51.74 to 51.88 m.
74.80	75.41	Hornblende and plagioclase porphyritic with fine to medium grained phenocrysts, ~ 10% phenocrysts
75.41	79.21	plagioclase porphyritic monzodiorite, with circular and short elongate laths. Approximately 20-40% phenocrysts. Variably altered to equigranular monzodiorite
79.21	86.56	plagioclase porphyritic diorite with medium grained plagioclase laths. Zoning from 5 to 20% phenocrysts.
86.56	97.45	plagioclase porphyritic monzodiorite, with circular and short elongate laths. Approximately 20-40% phenocrysts. Variably altered to equigranular monzodiorite. Short interval of plagioclase porphyritic dacite (apophysis? Dyke? Fault offset?) from 87.34m to 87.63m.
97.45	98.56	short interval of plagioclase porphyritic dacite. Approximately 5% medium grained plagioclase laths.
98.56	106.62	plagioclase porphyritic monzodiorite, with circular and short elongate laths. Approximately 20-40% phenocrysts.
106.62	107.18	short interval of plagioclase porphyritic dacite. Approximately 5% medium grained plagioclase laths. Extremely altered and texture destroyed
107.18	137.21	plagioclase porphyritic monzodiorite, with circular and short elongate laths variably texture destroyed and equigranular. Approximately 20-40% phenocrysts.
137.21	139.44	porphyritic diorite, 5 to 15% phenocrysts
139.44	150.09	plagioclase porphyritic monzodiorite with circular and elongate laths. Texture is often blasted and unrecognizable. 20% to 30% phenocrysts
150.09	150.69	dykes or possibly rafts, heavily altered to biotite and chlorite, with porphyritic monzodiorite infilling gaps.

150.69	176.35	plagioclase porphyritic monzodiorite heavily altered and texture altered to equigranular. One xenolith/raft of an altered fine-grained mafic unit at 154.0m. Toward end of interval, matrix blackened and phenocrysts resorpbed in possible different protolith (approximately gradational contact)
176.35	177.14	Mafic equigranular coarse-grained intrusive dyke heavily altered to epidote, magnetite and carbonate.
177.14	206.94	plagioclase porphyries, likely related but variably matrix-blackened, with resorpbed phenocrysts. 20-40% phenocrysts.
206.94	208.87	interval of porphyry with dark matrix and resorbed phenocrysts. Possibly an alteration zone of porphyritic dacite. Gradational contacts at margins.
208.87	213.44	heavily altered plagioclase porphyritic diorite with heavy, texture destructive alteration at margins of interval.
213.44	231.07	interval of porphyry with dark matrix and resorbed phenocrysts. Possibly an alteration zone of porphyritic dacite. Gradational contacts at margins.
231.07	257.54	heavily altered plagioclase porphyritic diorite with gradational contacts.
257.54	360.20	very heavily altered and fine grained locally. Contact altered and possibly gradational.
360.20	367.93	heavily altered toward margins of interval. Approximately 30-40% phenocrysts. Plagioclase and Kfeldspar phenocrysts replaced, where visible. Phenocrysts decreasing in size and percentage toward margins of interval.
367.93	375.92	heavily altered fine-grained diorite with texture preserved only locally.
375.92	388.32	heavily altered toward margins of interval. Approximately 30-40% phenocrysts. Plagioclase and Kfeldspar phenocrysts replaced, where visible. Phenocrysts decreasing in size and percentage toward margins of interval.

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
10.05	28.15	STG	SL	pv	STG	CY	rep	WK	KF	vsel	WK	variably silica blasted (texture destructive) , with most feldspar sites completely altered to clay, and fracture/vein selvages altered to kfeldspar and biotite. Chlorite possibly after biotite vein at 23.50 m. Very minor hematite fracture coatings and quartz veining
28.15	29.40	MOD	CH	pv	MOD	CN	ff	WK				short interval of chlorite alteration of late dyke. Abundant carbonate veins associated with hematite.
29.40	32.33	STG	SL	pv	STG	CY	rep	WK	CH	ff	WK	pervasive silicification, locally texture destructive, plagioclase lath sites mostly altered to clay, trace chlorite veinlets and fracture coatings, possibly after biotite, locally abundant disseminated pyrite, molybdenum or graphite fracture coatings
32.33	43.39	MOD	CY	rep	MOD	SL	pv	MOD	CH	ff	WK	interval of increased clay alteration with short zones of chlorite veinlets/fracture fillings, and abundant disseminated pyrite
43.39	49.46	STG	KF	pv	MOD	BZ	ff	WK				Short interval of intense pervasive kfeldspar and thin stockwork biotite veinlets, minor silicification
49.46	51.28	MOD	KF	pv	MOD	SL	pv	MOD	CH	ff	WK	Increased intensity of pervasive Kfeldspar alteration, associated with a decrease in silicification and clay alteration of plagioclase lath sites. Small xenolith/mafic dyke altered to chlorite from 51.74 to 51.88 m
51.28	74.80	MOD	KF	pv	MOD				SL	pv	TR	moderate pervasive pinkening of the matrix interpreted as kfeldspar alteration with clay and silica replacement of plagioclase phenocrysts.
74.80	75.41	STG	CH	pv	STG							short interval of a porphyritic dyke (?) heavily altered to chlorite
75.41	79.21	MOD	KF	pv	MOD	CY	rep	MOD	SL	pv	TR	moderate pervasive pinkening of the matrix interpreted as kfeldspar alteration with clay and silica replacement of plagioclase phenocrysts.
79.21	86.56	STG	CH	pv	STG	KF	vsel	WK	CY	rep	MOD	large interval of heavily chloritization of a plagioclase porphyritic dyke. Intense kfeldspar alteration of vein selvages and spotty chlorite veining (after biotite?). Local strong bleaching around carbonate-filled fracture with iron oxidation.
86.56	97.45	MOD	KF	pv	MOD	CY	rep	MOD	SL	pv	TR	moderate pervasive pinkening of the matrix interpreted as kfeldspar alteration with clay and silica replacement of plagioclase phenocrysts.
97.45	98.56	STG	CH	pv	STG	CN	ff	WK				small interval of heavy chlorite alteration of a porphyry dyke. Localized bleaching along fractures and margins. Kfeldspar alteration intensified near ends of interval, along dyke margins

98.56	106.62	MOD	KF	pv	MOD	CY	rep	MOD	SL	pv	TR	moderate pervasive pinkening of the matrix interpreted as kfeldspar alteration with clay and silica replacement of plagioclase phenocrysts.
106.62	107.18	STG	CH	pv	STG							small interval of intense chloritization, bleaching and quartz-carbonate veining. K feldspar alteration intensified at ends of interval (along margins of dykes)
107.18	128.82	MOD	KF	pv	MOD	CY	rep	MOD	SL	pv	TR	moderate pervasive pinkening of the matrix interpreted as kfeldspar alteration with clay and silica replacement of plagioclase phenocrysts.
128.82	135.07	MOD	KF	pv	MOD	SL	rep	MOD	CY	pv	TR	moderate pervasive pinkening (small increase in percent), with intensified silicification, minor clay replacement of the plagioclase phenocryst sites
135.07	137.25	STG	KF	pv	STG	CY	rep	WK				Intensified k-feldspar alteration with weak clay overprint affecting plagioclase phenocrysts
137.25	139.06	MOD	CH	pv	MOD	EZ	vsel	TR				heavy chlorite and weak epidote alteration of mafic dyke with quartz stringers
139.06	139.50	STG	KF	pv	STG	CH	vsel	WK				Strong k-feldspar alteration with minor chlorite overprint on margin of mafic dyke
139.50	142.18	MOD	KF	pv	WK	CY	rep	STG				sparse relict pervasive k-feldspar alteration heavily overprinted with clay alteration (subsequently weathered leaving cavities)
142.18	149.00	MOD	KF	pv	MOD	CY	rep	MOD				patchy k-feldspar alteration, locally strong, with a minor clay overprint leaving cavities.
149.00	154.21	MOD	KF	pv	MOD	CY	rep	WK				k-feldspar altered with a minor clay overprint
154.21	164.82	STG	KF	pv	STG	CY	rep	WK				Intensified k-feldspar alteration with weak clay overprint affecting plagioclase phenocrysts
164.82	167.32	MOD	KF	pv	MOD	SL	pv	MOD	CH	fsel		texture obliterated by pervasive k-feldspar alteration and subsequent chlorite fracture coating, pervasive silicification and clay overprinting
167.32	176.35	STG	KF	pv	STG	BZ	fsel	MOD	SL	pv	MOD	pervasive, texture-destructive alteration with biotite overprinted by chlorite. Subsequent silicic overprint with very little clay alteration visible.
176.35	177.14	STG	EZ	pv	STG	CH	pv	STG	CN	pv	MOD	fine grained mafic dyke (clinopyroxenite) altered to epidote, chlorite, magnetite and carbonate. Relative timing unknown.
177.14	178.55	STG	KF	pv	STG	BZ	pv	STG	SL	pv	MOD	k-feldspar and biotite alteration overprinted by pervasive silica, chlorite and spotty clays.
178.55	179.60	MOD	KF	pv	STG	BZ	pv	WK	CY	rep	WK	k-feldspar with weaker biotite alteration, overprinted by chlorite, possibly minor silica and clay replacements of plagioclase sites.
179.60	181.53	STG	KF	pv	STG	BZ	pv	STG	EZ	pv	WK	strong k-feldspar and biotite with epidote, with minor overprinting by silica or clay
181.53	183.25	MOD	KF	pv	STG	BZ	pv	MOD	CY	rep	WK	strong k-feldspar alteration with decreased pervasive biotite and a heavy clay overprint possibly obliterating previous alteration
183.25	184.21	STG	KF	pv	STG	BZ	pv	STG	CY	rep	WK	Stronger biotite alteration with strong k-feldspar alteration overprinted by clay replacement of plagioclase lath sites
184.21	185.91	MOD	KF	pv	STG	BZ	pv	MOD	SL	pv	WK	Decreased k-feldspar and biotite alteration possibly a result of silica overprinting in short interval
185.91	196.41	STG	KF	pv	STG	BZ	pv	STG	SL	pv	MOD	k-feldspar and strong biotite possibly not further weathered because of silica overprint and resorbing of phenocrysts
196.41	206.60	STG	KF	pv	STG	CH	fsel	WK	CY	rep	MOD	interval marked by absence of biotite alteration (or subsequent overprinting to chlorite) due to lack of silica overprinting. Clay alteration of plagioclase sites.
206.60	208.82	STG	KF	pv	STG	BZ	vsel	STG	SL	pv	MOD	heavy k-feldspar and biotite alteration with a silicic overprint, and lack of clay overprint
208.82	212.60	MOD	KF	pv	MOD	CH	vsel	WK	CY	pv	MOD	interval with noticeable lack of biotite and presence of pervasive clay, possibly obliterating some previous alteration
212.60	217.77	STG	KF	pv	STG	BZ	vsel	WK	SL	pv	MOD	strong k-spar and weak biotite alteration , with chlorite and silicic overprint
217.77	231.61	STG	KF	pv	STG	BZ	vsel	MOD	SL	pv	MOD	K-feldspar alteration with stronger biotite alteration along vein selvages. Silicic overprint.
231.61	235.19	MOD	KF	pv	MOD	BZ	vsel	WK	CY	rep	STG	K-feldspar and biotite alteration overprinted and possibly destroyed by clay alteration
235.19	244.44	MOD	KF	pv	MOD	BZ	vsel	WK	CY	rep	STG	Pervasive kfeldspar alteration with biotite veining overprinted by clays (without chlorite)

244.44	249.62	MOD	KF	pv	WK	CH	vsel	WK	CY	rep	STG	interval characterized by strong, pervasive clay replacement of plagioclase phenocrysts and minor chlorite veining
249.62	257.76	MOD	KF	pv	MOD	CH	vsel	MOD	CY	rep	WK	increase in chlorite alteration, overprinting k-feldspar alteration and overprinted by pervasive, replacement clay alteration
257.76	261.64	STG	KF	pv	STG	BZ	vsel	STG	CY	pv	STG	strong, texture-destructive k-feldspar, chlorite, and clay alteration. Chlorite possibly after biotite.
261.64	263.15	MOD	KF	pv	WK	BZ	vsel	MOD	CH	vsel	MOD	zone of slightly decreased k-feldspar and biotite alteration, and increased chlorite alteration (not just after biotite) and possibly clay
263.15	268.91		KF	pv	WK	BZ	vsel	WK	CY	rep	STG	texture of diorite partially preserved, felsics replaced by clay, with locally strong k-feldspar and biotite alteration
268.91	271.54	STG	BZ	pv	STG	EZ	blb	MOD	SL	pv	STG	heavily biotite altered with abundant epidote blebs and pervasive silicification preserving biotite.
271.54	276.16	MOD	KF	pv	MOD	BZ	vsel	MOD	CY	vsel	MOD	interval with weak k-feldspar, and vein selvage biotite alteration. Blue clay with hematite associated with veined sulfides.
276.16	290.41	STG	BZ	pv	STG	EZ	blb	MOD	SL	pv	STG	heavily biotite altered with abundant epidote blebs and pervasive silicification preserving biotite.
290.41	300.00	STG	KF	pv	MOD	BZ	pv	MOD	CY	pv	MOD	moderate pervasive k-feldspar, biotite and clay. Texture locally preserved, only. Heavy hematite staining through most of interval. Significant local variations.
300.00	302.75	STG	KF	pv	STG	BZ	pv	STG				Strong biotite and k feldspar alteration with little overprint
302.75	321.95	STG	CH	pv	MOD	CY	pv	STG				moderate chlorite and strong clay alteration. Possible complete obliteration of texture and/or previous alteration. Heavy hematite staining throughout interval.
321.95	322.91	INT	BZ	pv	INT	EZ	blb	MOD				strong biotite alteration with blebby epidote, and possible silicic overprint.
322.91	324.81	STG	BZ	pv	STG	CH	pv	MOD	CY	pv	MOD	interval overprinted by clay alteration of felsic sites, preserving relict texture.
324.81	345.00	INT	BZ	pv	INT	EZ	blb	MOD	CY	blb	STG	strong biotite alteration with blebby epidote (locally intense) (with magnetite) and overprinting/blebby/veined clay alteration associated with chalcopyrite and epidote. Texture obliterated throughout interval.
345.00	346.78	STG	CH	pv	MOD	CY	pv	STG	SL	pv	MOD	chlorite and clay alteration, possibly obliterating previous alteration, with silicic overprint.
346.78	349.42	INT	CH	pv	WK	CY	pv	INT				intense clay overprint of chlorite, likely obliterating previous alteration
349.42	351.96	STG	CH	pv	MOD	CY	pv	STG	SL	pv	MOD	chlorite and clay alteration, possibly obliterating previous alteration, with silicic overprint.
351.96	354.79	INT	CH	pv	INT							intense chlorite, no texture preserved with likely silicic overprint.
354.79	359.09	INT	CH	pv	WK	CY	pv	INT				intense clay overprint of chlorite, likely obliterating previous alteration
359.09	364.70	MOD	CH	pv	MOD	CY	rep	MOD				zone of abundant pervasive and vein-selvage chlorite alteration with clay replacement of plagioclase phenocrysts. Locally strongly hematized and likely silicified.
364.70	367.78	MOD	CY	rep	MOD	CH	pv	WK				zone of intensified clay alteration with relict chloritization, possibly after biotite. Very minor silicification of matrix. Prior alteration likely obliterated.
367.78	371.60	MOD	CH	pv	MOD	EZ	blb	WK	SL	pv	MOD	moderate chloritization with patchy epidote and pervasive silicification of matrix. Locally strongly clay overprinted.
371.60	388.32	MOD	CH	vsel	WK	SL	pv	MOD	CY	rep	MOD	less intense chlorite alteration, with a strong silicic overprint often texture destructive. Moderate clay replacement of felsic phenocryst sites.

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
10.05	28.15		ZVO	FRV	0.5	0.1				0.5								Abundant narrow sericite/clay (?) fracture veinlets, with thin, anastomozing hematite +/- calcite veinlets appearing towards the bottom of the

																	interval. Small section at 23.40 m depth of increased quartz veining with nearby (possibly related) blotchy chloritic alteration.
28.15	29.40	ZVC	FRV	1	0.1	80			1								Small interval of relatively abundant calcite veining through fine-grained mafic dyke.
29.40	41.84	ZVO	FRV	0.5	0.1	45	ZVO	FRV	0.5	0.1							Abundant, sub-parallel sericite/clay (?) fracture veinlets. Local fractures coated with graphite/molybdenite (?). Locally intense tourmaline spider veining at 34.06 and 35.30 m depth (not observed elsewhere). Very minor pyritic veinlets.
41.84	49.70	ZVQ	STR	0.8	0.3		ZVC	FRV	0.8	0.2	80	ZVO	HLN	0.1	0.1		Interval is characterized by the presence of quartz veining (early?) with associated sulphides (pyrite>>chalcopyrite). Heavily iron oxidized calcite veins and trace pyrite stringers also observed.
49.70	50.75	ZVCL	HLN	3	0.1	45	ZVO	FRV	3	0.1							Small interval features abundant chlorite veining, cut by sericite/clay (?) fracture veining.
50.75	53.62	ZVQ	HLN	2	2		ZVC	FRV	2	1.5		ZVCL	HLN	0.5	0.1		Small interval with one large calcite vein, abundant quartz veining and chlorite veinlets with associated pyrite. One interval of increased calcite veining through fine-grained mafic.
53.62	54.91	ZVCL	HLN	2	0.1		ZVQ	STR	2	0.2							Small interval with sub-parallel fuzzy chlorite veins cross cut by quartz stringers associated with minor pyrite
54.91	73.80	ZVQ	STR	0.5	0.1		ZVQ	COM	0.5	0.5		ZVCL	HLN	0.3	1	45	comb veins at moderate angle are cut by quartz stringers, which are, in turn, cut by milky quartz-sericite veins hosted by fractures
73.80	74.41	ZVQ	PLN	2	1	30	ZVQ	HLN	2	2	80						high angle tabular quartz veining cut by low angle tabular quartz veins
74.41	79.21	ZVO	FRV	1	0.05	35	ZVCL	FRV	1	0.05							anastomosing chlorite-covered fractures cross-cutting sericite coated fractures
79.21	86.56	ZVQC	COM	1.5	0.5	50	ZVQ	STR	1.5	1		ZVCL	HLN	0.3	1	70	High angle milky comb quartz-carbonate veins. Abundant quartz stringers cross-cutting hairline chlorite veinlets with kspar selvages.
86.56	106.62	ZVQ	COM	3	0.75	25	ZVO	HLN	3	0.5		ZVQ	MAS	0.5	0.3		Anastomosing, B veins bearing sulfides, cross-cut by Comb quartz veins varying in thickness. Fracture coatings abundant through interval, veining increasing with depth. Short interval of increased quartz veining associated with porphyritic intrusion.
106.62	107.18	ZVQ	STR	10	0.1		ZVCL	STR	10	1							Intense quartz stringers cross-cutting tabular quartz-carbonate veins. Chlorite stringers sub-parallel to quartz stringers.
107.18	112.75	ZVQ	COM	3	1	25	ZVQ	MAS	3	0.3							Anastomosing quartz veinlets, cross-cut by Comb quartz veins varying in thickness and bearing chalcopyrite.

112.75	125.20	ZVCL	HLN	0.5	0.1		ZVQ	STR	0.5	1		ZVQ	COM	0.2	0.4	80	abundant hairline chlorite veinlets of many orientations and often spidery. Hairline and Comb quartz veining both associated with sulfides.
125.20	125.82	ZVQ	FTV	15	0.6	45	ZVCL	FTV	15	0.1	45						small interval of intense, sub-parallel quartz and chlorite veining, possibly related to displacements
125.82	166.69	ZVQ	PLN	2	0.3		ZVQ	STR	2	1		ZVCL	HLN	0.2	0.1		large zone with tabular comb quartz veining, tabular B-veining hosting sulfides at high angles to the core axis, and hairline chlorite veining at many orientations. One vuggy quartz sericite zone 3.5cm thick at 134.45m
166.69	177.60	ZVQ	STR	1.5	0.5		ZVCL	HLN	1.5	0.5		ZVQ	COM	0.75	2		chlorite (after biotite) coating hairline spider veinlets, cut by quartz stringers, which are, in turn, cut by comb quartz-pyrite veins
177.60	179.15	ZVQ	COM	4	3		ZVQ	HLN	4	0.75		ZVCL	HLN	0.3	0.5		hairline chlorite veinlets, specular hematite and chlorite selvages on quartz stringers and larger comb-quartz bearing chalcopyrite with chlorite selvages
179.15	185.94	ZVQ	HLN	1	0.075		ZVQ	COM	1	3	75						hairline and comb quartz veining sparse through interval.
185.94	196.10	ZVQ	STR	3	0.1		ZVQ	COM	3	3	80						comb and hairline quartz veining, both bearing chalcopyrite, sparse through interval
196.10	200.86	ZVQ	PLN	10	0.3	45	ZVQ		10								abundant sub-parallel planar veins associated with heavy hematite and chlorite. Quartz stringers with chlorite and molybdenum(?) selvages, of varying orientations
200.86	202.15	ZVQ	STR	6	0.1				6								small zone of abundant hairline quartz veins with chlorite, chalcopyrite and specular hematite
202.15	204.20	ZVQ	PLN	3	0.5	45	ZVQ		3								zone of moderate veining of quartz-chlorite-specular hematite stringers, and planar smokey quartz veins, both relatively unmineralized.
204.20	212.56	ZVQ	PLN	3	0.3	70	ZVQ	HLN	3	0.5							Abundant quartz stringers with sparse tabular quartz veining. Stringers oriented in many directions.
212.56	214.49	ZVQ	HLN	8	0.2		ZVCL	STR	8	0.1							short interval with increased veining. Quartz stringers contain minor chalcopyrite, and chlorite stringers have minor pyrite in selvages
214.49	218.85	ZVQ	HLN	2	0.1		ZVCL	STR	2	0.5							interval of sparse veining, with only minor quartz stringers and rare chlorite spider veinlets
218.85	228.66	ZVCL	STR	3	0.1		ZVQ		3								Zone of abundant chlorite stringers (after biotite?) with sparse comb quartz veining at low angles to the core axis
228.66	229.37	ZVQ	PLN	15	1	45	ZVQ	STR	15	2							short interval with intense quartz veining/planar resorbing, and abundant biotite-quartz spider stockwork veining

229.37	257.76	ZVQ	PLN	5	1.5	80	ZVQ	HLN	5	0.1		ZVCL	STR	0.1	0.05		long interval with sparse, thick comb quartz veining, often with chalcopyrite and pyrite. Small hairline quartz veinlets and chlorite/biotite spider veinlets also observed locally.
257.76	260.63	ZVO	STK	15	1		ZVQ	MAS	15	0.7		ZVCL	HLN	2	0.1		interval with very abundant clay veining (clay?) overprinted by smokey quartz veins bearing chalcopyrite and chlorite stringers.
260.63	270.56	ZVQ	COM	7	0.5		ZVCL	HLN	7	0.1		ZVQ	STR	1	0.1		Zone of abundant comb quartz, chlorite hairline veins (after biotite), and localized intense biotite (veining?) and hematite-clay (veining?)
270.56	278.20	ZVQ	STR	3	0.1		ZVO	HLN	3	0.1	45						interval with abundant quartz stringers and locally abundant magnetite/tourmaline/biotite veinlets.
278.20	290.29	ZVQ	STR	3	0.1		ZVQ	STK	3	0.5		ZVCL	HLN	1	0.1		abundant quartz and chlorite stringers with localized, thicker stockwork quartz veining and trace magnetite/tourmaline/biotite veinlets.
290.29	299.85	ZVQ	STR	3	0.1		ZVQ	STK	3	0.5		ZVO	MAS	3	1		Similar to previous interval, with only a few magnetite veinlets: Abundant quartz and chlorite stringers with localized, thicker stockwork quartz veining. Localized, thick Clay veining.
299.85	315.60	ZVT	BRX	20	5		ZVQ	HLN	20	0.1		ZVCL	HLN	1	0.1		interval of abundant, massive tourmaline veins with brecciated inclusions up to approximately .37m thick. Hairline quartz and chlorite veins also present.
315.60	321.95	ZVQ	PLN	5	0.5		ZVQ	HLN	5	0.1		ZVCL	STK	1	0.1		sparse tabular quartz veining with quartz stringers, locally intense chlorite-hematite vienlets and very sparse tourmaline stringers.
321.95	322.92	ZVQ	HLN	2	0.1	50			2								short interval with very sparse quartz hairline veining
322.92	325.13	ZVT	BRX	20	5		ZVQ	HLN	20	0.1	50	ZVQ	PLN	5	1		brecciating tourmaline veins with tabular quartz and quartz-sericite stringers
325.13	345.00	ZVQ	PLN	4	0.3		ZVE	STK	4	0.3							Early epidote veins locally abundant with comb and stringer quartz veins of many orientations.
345.00	351.74	ZVQ	PLN	3	0.4		ZVO	STK	3	1		ZVQ	STR	5	0.2		abundant clay stockwork veining often heavy in hematite. Quartz stringers often milky orange. Late tabular quartz veining.
351.74	354.75	ZVQ	STK	13	0.2				13								interval without clay veins or hematization. Very abundant quartz stockwork veining. Veinlets vary in thickness and orientation.
354.75	360.27	ZVQ	PLN	2	0.5		ZVO	STK	2	1		ZVQ	STR	2	0.1		abundant clay stockwork veining often heavy in hematite. Quartz stringers often milky orange. Late tabular quartz veining.
360.27	363.14	ZVQ	STK	5	0.2		ZVQ	PLN	5	0.5	40	ZVT	HLN	1	0.1		Abundant stockwork quartz stringer with one tabular quartz vein and sparse tourmaline stringers.
363.14	364.78	ZVQ	STK	20	1		ZVQ	STR	20	0.2	45	ZVCL	HLN	5	0.1	45	Interval with thick, stockwork quartz veining and small sub-parallel chlorite and quartz-sericite stringers. Rare clay veins.

364.78	367.64	ZVQ	STR	5	0.2		ZVCL	HLN	5	0.1	decreased veining with sparse quartz and chlorite stringers.
367.64	368.16	ZVT	PLN	40	0.5	45	ZVQ	STR	40	0.2	short interval of intense tourmaline-quartz veining with smaller quartz stringers, varying in orientation.
368.16	388.32	ZVQ	STR	4	0.3				4		Abundant quartz stringers of many orientations with very scarce tourmaline stringers.

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
10.05	23.95	Consistent trace disseminated pyrite, with very rare pyrite blebs and one bleb of chalcopyrite. Very small zone of disseminated chalcopyrite and possibly molybdenum	PY	diss	0.5
23.95	32.87	First occurrence of vein chalcopyrite and pyrite.	PY	diss	0.8
			PY	vsel	0.15
			CCP	vsel	0.05
32.87	37.30	First occurrence of disseminated chalcopyrite (trace). Disseminated pyrite and vein pyrite observed. Associated chlorite in pyritic veins.	PY	diss	0.55
			PY	vsel	0.15
			CCP	diss	0.1
37.30	46.60	Disseminated and vein-style pyrite +/- chalcopyrite on selvages of quartz veins. Local possible disseminated and fracture-coating molybdenite (graphite?) from 44.32 to end of interval.	PY	diss	1
			PY	vsel	0.9
			CCP	vsel	0.1
46.60	50.68	Disseminated pyrite and vein pyrite in hairline quartz veins. Minor disseminated chalcopyrite.	PY	diss	1
			PY	vsel	0.25
			CCP	diss	0.05
50.68	53.56	Disseminated pyrite, as well as pyrite and chalcopyrite hosted by quartz stringers.	PY	diss	0.8
			PY	vsel	0.5
			CCP	vsel	0.2
53.56	55.54	Interval characterized by absence of vein-associated sulfides.	PY	diss	0.75
55.54	59.13	Disseminated chalcopyrite observed, as well as pyrite associated with quartz stringers.	PY	diss	0.8
			CCP	diss	0.1
			PY	vsel	0.1
59.13	61.24	interval with very little chalcopyrite, diffuse pyrite and trace disseminated molybdenite	PY	diss	0.3
			CCP	vsel	0.1
			PY	vsel	0.1
61.24	72.74	significant variation within interval, involving many forms of sulfide. Possible trace disseminated molybdenum.	PY	diss	0.3
			CCP	diss	0.2
			CCP	vsel	0.2
			PY	blb	0.1
			PY	vsel	0.1
72.74	74.14	barren interval with one vein 0.4 cm thick with abundant chalcopyrite	CCP	vsel	0.3
			PY	diss	0.1

74.14	79.26	sparse disseminated sulfide, with few veins	CCP	diss	0.2
			PY	diss	0.1
79.26	86.56	zone of very sparse mineralization along quartz stringers through porphyritic diorite	CCP	vsel	0.2
			PY	vsel	0.1
86.56	92.55	interval of minimal veining and larger, somewhat sparse pyrite blabbing with possible molybdenum	CCP	diss	0.2
			PY	blb	0.2
			CCP	blb	0.1
			PY	diss	0.1
92.55	94.15	small interval of minimal disseminated pyrite only	PY	diss	0.1
94.15	97.41	sulfide in many forms, significant throughout interval	CCP	blb	0.2
			CCP	diss	0.2
			PY	blb	0.2
			PY	diss	0.2
			PY	vsel	0.2
			CCP	vsel	0.1
97.41	98.51	short interval of vein and close-to-comb-vein sulfide disseminations through a porphyritic dyke	CCP	vsel	0.2
			CCP	diss	0.1
			PY	diss	0.1
			PY	vsel	0.1
98.51	125.23	long interval zoning in and out of abundant vein and disseminated chalcopyrite, with minimal pyrite throughout. Some comb veins with abundant course sulfides (104.61m)	CCP	diss	0.5
			PY	diss	0.4
			CCP	vsel	0.2
			PY	vsel	0.2
125.23	125.76	small interval of intense veining hosting chalcopyrite and pyrite	PY	vsel	0.3
			CCP	vsel	0.2
125.76	130.47	very localized disseminated sulfide, and sparse vein sulfide	PY	vsel	0.3
			CCP	diss	0.1
			CCP	vsel	0.1
			PY	diss	0.1
130.47	137.20	sulfide observed in veins and blebs only	CCP	vsel	0.1
			PY	vsel	0.1
			CCP	blb	0.05
			PY	blb	0.05
137.20	139.07	vein sulfide observed only. Possible molybdenum in veins as well.	CCP	vsel	0.2
			PY	vsel	0.05
139.07	144.74	abundant disseminated chalcopyrite and vein-hosted chalcopyrite with trace pyrite. One zone of up to 10% chalcopyrite from 39.34m to 39.37m.	CCP	diss	0.4
			CCP	vsel	0.2
			PY	diss	0.1
			PY	vsel	0.05
144.74	150.09	sparse mineralization only in tabular veins at high angles to the core axis	CCP	vsel	0.05
			PY	vsel	0.05

150.09	150.71	significant disseminated sulfides in xenoliths/mafic dykes	CCP	diss	0.5
			PY	diss	0.3
			CCP	vsel	0.1
			PY	vsel	0.1
150.71	153.85	pyrite and chalcopyrite observed in veins only, with disseminated molybdenum throughout	MOL	diss	0.3
			CCP	vsel	0.1
			PY	diss	0.1
			PY	vsel	0.1
153.85	154.86	vein hosted sulfides with abundant disseminations in a raft with. Molybdenum on hairline vein selvage with chalcopyrite.	CCP	vsel	0.5
			CCP	diss	0.3
			PY	diss	0.3
			PY	vsel	0.2
			MOL	vsel	0.1
154.86	196.46	increased chalcopyrite in in veining with trace sulfide disseminations and a bleb. Raft with significant chalcopyrite and pyrite from 156.40 to 156.54m.	CCP	vsel	0.3
			CCP	diss	0.2
			PY	vsel	0.2
			PY	diss	0.1
161.30	166.40	zone dominated by disseminated chalcopyrite, pyrite and molybdenite	CCP	vsel	0.3
			MOL	diss	0.3
			PY	diss	0.3
			PY	vsel	0.1
166.40	175.25	abundant spider veins of pyrite with one vein of chalcopyrite and sparse molybdenite	PY	vsel	0.7
			PY	diss	0.3
			CCP	vsel	0.2
			MOL	vsel	0.1
175.25	178.39	broken zone with moderately abundant sulfide fracture coatings and disseminated pyrite	PY	diss	0.4
			PY	fsel	0.3
			CCP	fsel	0.2
178.39	181.19	interval of abundant molybdenite coated veinlets and possible disseminations	MOL	vsel	0.2
			PY	diss	0.2
			CCP	blb	0.1
181.19	185.15	zone of little chalcopyrite disseminations and locally abundant pyrite and chalcopyrite-quartz veining	CCP	vsel	0.2
			PY	diss	0.2
			PY	vsel	0.1
185.15	196.46	zone of chalcopyrite & pyrite fracture coatings and minor disseminated molybdenite	CCP	diss	0.2
			CCP	fsel	0.2
			CCP	vsel	0.2
			PY	vsel	0.2
			MOL	diss	0.1
			PY	diss	0.1
196.46	212.63	sparse disseminated pyrite and chalcopyrite, with very sparse chalcopyrite-quartz veining	PY	diss	0.2
			CCP	diss	0.1

			CCP	vsel	0.1
			PY	vsel	0.1
212.63	214.34	disseminated and hairline veins of pyrite. One larger quartz vein with chalcopyrite	PY	diss	0.3
			PY	vsel	0.3
			CCP	vsel	0.2
214.34	218.46	very sparse mineralization on vein selvages	PY	vsel	0.2
			CCP	vsel	0.1
218.46	228.60	Abundant chalcopyrite and pyrite on biotite-chlorite fracture surfaces	CCP	fsel	0.5
			PY	fsel	0.4
			PY	diss	0.2
228.60	231.91	very sparse pyrite in veins and absence of chalcopyrite	PY	vsel	0.1
231.91	235.20	pyrite with sparse chalcopyrite in veining	CCP	vsel	0.2
			PY	vsel	0.2
			PY	diss	0.1
235.20	250.60	interval with localized sulfides of many forms. Very localized molybdenum also observed	PY	vsel	0.2
			CCP	vsel	0.1
			PY	diss	0.1
			CCP	diss	0.05
250.60	252.74	interval with noticeably increased disseminated chalcopyrite and veined chalcopyrite visible	CCP	diss	0.2
			CCP	vsel	0.2
			PY	diss	0.1
252.74	269.94	interval of abundant disseminated and stringer veins of pyrite in hematized fracture zones and very localized disseminated chalcopyrite.	PY	diss	0.2
			PY	vsel	0.2
			CCP	diss	0.05
269.94	272.56	short interval of abundant vein pyrite, with some disseminated pyrite and significant bleby chalcopyrite. Chalcopyrite associated with blueish quartz and magnetite/tourmaline/biotite alteration.	PY	vsel	1
			CCP	blb	0.6
			PY	diss	0.3
272.56	278.65	zone of abundant vein and disseminated pyrite without visible chalcopyrite	PY	diss	0.8
			PY	vsel	0.7
278.65	282.40	very localized chalcopyrite in vein selvages with trace disseminated pyrite. Chalcopyrite in clay/chlorite veining.	PY	diss	0.5
			CCP	vsel	0.2
			PY	vsel	0.2
282.40	284.00	short interval with abundant vein pyrite and chalcopyrite. One large quartz-clay-chlorite-hematite vein with abundant pyrite and chalcopyrite (p>c) at 283.83m.	PY	diss	2
			PY	vsel	2
			CCP	vsel	1.5
			CCP	diss	0.2
284.00	300.68	long interval with trace pyrite veining and localized pyrite disseminations. Few chalcopyrite blebs observed.	PY	diss	0.1
			PY	vsel	0.1
			CCP	blb	0.05
300.68	301.94	short interval with large blebs of chalcopyrite, and pyrite in veins and disseminated	CCP	blb	0.3

			PY	diss	0.2
			PY	vsel	0.1
			PY	blb	0.1
301.94	305.78	pyrite associated with abundant, heavily hematized fractures and one tabular quartz vein with chalcopyrite at 305.29m	PY	vsel	0.3
			CCP	vsel	0.2
305.78	314.05	interval with localized vein and disseminated sulfide of approximately equal percentage chalcopyrite and pyrite.	CCP	vsel	0.3
			PY	vsel	0.3
			CCP	diss	0.1
			PY	diss	0.1
314.05	317.17	short interval with abundant pyrite observed only (no chalcopyrite)	PY	diss	0.8
			PY	vsel	0.5
317.17	321.88	very localized disseminated sulfide in generally barren interval.	CCP	diss	0.1
			PY	diss	0.1
321.88	324.80	sparse vein pyrite and chalcopyrite. One large tabular quartz vein bearing chalcopyrite at 323.45m.	PY	vsel	0.3
			CCP	vsel	0.2
324.80	337.40	interval of spotty, very abundant sulfide. Some large blebs of chalcopyrite and pyrite.	PY	diss	0.6
			CCP	blb	0.3
			CCP	diss	0.3
			CCP	vsel	0.2
337.40	346.82	interval of increased sulfides with significant chalcopyrite in blebs and veins, often associated with blue clay veining/alteration. One large sulfide vein, 2cm thick at 346.13m.	PY	vsel	0.6
			CCP	blb	0.5
			CCP	vsel	0.3
			PY	diss	0.3
			CCP	diss	0.2
346.82	361.15	interval with no observed chalcopyrite, and minor disseminated and vein-hosted pyrite.	PY	diss	0.4
361.15	363.27	short interval with only sparse veined pyrite observed.	PY	vsel	0.2
363.27	388.32	interval with abundant pyrite in many forms, although mostly disseminated. No chalcopyrite observed.	PY	diss	0.4
			PY	vsel	0.1
			PY	blb	0.1

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
10.05	26.12		ZRO	MOD								Abundant open fractures, often coated with iron oxides (near surface weathering effects). Local areas of stronger fracturing.
26.12	30.00		ZRO	WK								Decreased fracture intensity. Clay-healed fractures commonplace.
30.00	32.61		ZRO	MOD								Abundant open fractures, often coated with iron oxides (near surface weathering effects). Local areas of stronger fracturing. Clay/sericite-healed fractures observed.
32.61	36.94		ZRO	WK								Rare clay/sericite-healed fractures. Local tourmaline-infilled fractures.
36.94	42.45		ZRO	WK								Chlorite and clay/sericite healed fractures, with sparse iron oxidation on open fractures. Molybdenite/graphite coating some fracture surfaces.
42.45	79.21		ZRO	WK								Sericite, quartz, pyrite, chlorite infilling healed fractures. Molybdenite/graphite (?) locally.
79.21	86.56		ZRO	MOD								hematite, chlorite and sericite infilling and healing fractures

86.56	97.45	ZRO	WK	sparse fracturing infilled with clays/sericite, often with bleached selvages
97.45	98.56	ZRO	MOD	heavy chlorite and clays on a surface, possibly accommodating movement
98.56	106.62	ZRO	WK	sparse fracturing, occasionally coated with clays and/or chlorite
106.62	107.18	ZRO	STG	dense fracturing with significant chlorite
107.18	125.20	ZRO	WK	sparse chloritized fractures and veinlets, possibly after biotite
125.20	125.76	ZRO	STG	increased intensity of fractures coated with chlorite in quartz in small interval
125.76	167.38	ZRO	WK	sparse chloritized, sericitized and quartz-coated fractures
167.38	181.20	ZRO	MOD	abundant biotite coated fractures, sparse clay and chloritized fractures
181.20	186.19	ZRO	WK	sparse clay coated fractures
186.19	195.46	ZRO	MOD	abundant fractures, some coated with quartz and sulfides
195.46	198.32	ZRO	WK	sparse, sub-parallel hematized and chloritized fractures
198.32	212.60	ZRO	TR	very sparse clay-coated fracturing
212.60	218.75	ZRO	WK	moderately abundant clay/sericite fractures and chlorite/biotite spider veinlets and fracture coatings
218.75	228.34	ZRO	MOD	abundant biotite and chlorite coated fractures at many orientations. Sparse tabular quartz veining and clay-quartz veinlets
228.34	257.70	ZRO	TR	sparse clay coated fractures and chlorite coated fractures
257.70	260.60	ZRO	STG	abundant hematite-chlorite and clay coated fracturing
260.60	288.95	ZRO	WK	quartz and chlorite coated fracturing with locally strong hematite on fracture surfaces
288.95	320.74	ZRO	MOD	abundant quartz and chloritized fractures with locally intense hematite fracturing
320.74	345.00	ZRO	TR	sparse quartz coated fracturing
345.00	351.78	ZRO	TR	hematite, clay and/or quartz on rare fractures
354.80	360.27	ZRO	TR	trace clay and hematite coating fractures.
360.27	363.14	ZRO	TR	rare quartz coating fracture surfaces
363.14	364.78	ZRO	WK	chlorite, clay and hematite coating abundant fracture surface.
364.78	367.64	ZRO	TR	rare quartz coating fracture surfaces
367.64	368.16	ZRO	MOD	relatively abundant chlorite coating fractures
368.16	388.32	ZRO	TR	rare quartz coating fracture surfaces

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
76.85	ZVT	0.3	68.0	72.0		42	122	High	Planar tourmaline veinlet.
77.87	ZVQC	0.15	27.0	30.0		89	116	High	Narrow, vuggy quartz-carbonate veinlet with sericitic selvage.
79.33	SCO	1	10.0	167.0		51	253	High	contact between dacite and monzodiorite
79.34	SCO	1	10.0	167.0		51	253	High	contact between dacite and monzodiorite
80.55	ZVO	0.8	32.0	45.0		81	127	High	Anastomozing sericite veinlet.
81.80	ZVQ	1.2	45.0	120.0		38	176	High	Vuggy quartz intruding along early chlorite.
82.73	ZVQ	0.2	28.0	50.0		83	133	High	Quartz-tourmaline veinlet
83.93	ZVQ	0.8	70.0	165.0		11	116	High	Early quartz veinlet, sericitic-chloritic selvage.
132.67	ZVQ	0.25	36.0	295.0		70	39	High	Smoky quartz with chalcopyrite (B vein?)
134.45	ZVQ	0.4	67.0	169.0		8	122	High	Vuggy quartz, +/- chlorite
137.19	SCO	0.005	25.0	300.0		82	38	High	Upper dyke contact

139.06	SCO	0.005	30.0	259.0	59	7	High	Lower dyke contact
143.45	ZVQ	0.45	65.0	260.0	34	43	High	Smoky quartz +/- chalcopyrite (B vein?)
145.67	ZVQ	0.3	55.0	255.0	38	26	High	Smoky quartz veinlet (barren)
146.39	ZVQ	0.85	63.0	250.0	32	36	High	Smoky quartz, abundant chalcopyrite (B vein?), cut by chlorite
148.18	ZRO	0.3	48.0	30.0	69	111	High	Open chloritic fracture. Planar.
159.22	ZVQ	0.5	52.0	145.0	21	189	High	comb quartz vein with vugs
160.55	ZVQ	0.2	30.0	260.0	59	8	High	molybdenum in tabular quartz vein
160.57	ZVQ	0.2	73.0	213.0	18	59	High	chalcopyrite in tabular quartz vein
160.95	ZVQ	0.5	57.0	213.0	17	3	High	molybdenum on selvage of tabular quartz vein
161.85	ZVCL	0.05	20.0	5.0	81	275	High	biotite & chlorite stringer, fracture coating
162.40	ZRO	0.1	44.0	7.0	75	96	High	clay-pyrite hairline fracture
162.59	ZVCL	0.1	57.0	17.0	62	101	High	chlorite coated fracture
162.90	ZVQ	0.6	42.0	227.0	34	349	High	rose quartz with chalcopyrite in center
164.90	ZVQ	0.2	30.0	285.0	71	28	High	comb quartz sericite vein
196.06	ZRO	0.001	42.0	260.0	50	17	High	quartz-chlorite fracture selvage
196.52	ZVQ	1	23.0	342.0	85	254	High	quartz-hematite-chlorite brecciated vein
198.86	ZVQ	0.6	34.0	347.0	85	80	High	quartz-chlorite-hematite vein
199.23	ZVQ	0.6	32.0	290.0	71	34	High	comb quartz vein with chlorite selvage without mineralization
199.48	ZRO	0.1	32.0	274.0	64	21	High	quartz-sericite hairline fracture coating
199.71	ZVQ	0.2	82.0	265.0	30	75	High	quartz-sericite veinlet with chlorite selvage and weak chalcopyrite
202.64	ZVQ	0.6	32.0	93.0	61	166	High	chlorite-quartz-hematite brecciated vein
203.35	ZRO	0.1	58.0	140.0	20	171	High	quartz sericite hairline fracture coating
204.15	ZVQ	0.4	50.0	267.0	47	30	High	tabular quartz veining with minor pyrite
204.79	ZVQ	0.2	40.0	273.0	57	26	High	milky comb quartz vein
205.73	ZVQ	0.05	43.0	323.0	72	64	High	hairline quartz-chlorite veinlet with some hematite
206.10	ZVQ	0.5	50.0	165.0	14	226	High	tabular quartz vein with chalcopyrite and pyrite
207.95	ZRO	0.001	38.0	285.0	64	34	High	quartz-sericite-chlorite fracture coating
208.72	ZVQ	0.1	56.0	40.0	59	116	High	hairline quartz-sericite veinlet
208.94	ZVCL	0.1	39.0	275.0	59	27	High	hairline hematite-chlorite veinlet
209.45	ZVQ	0.1	45.0	167.0	17	239	High	hairline quartz-pyrite veinlet
209.99	ZVQ	3	86.0	340.0	33	89	High	tabular quartz-chlorite-hematite spider veinlet. Direction highly variable
235.40	ZRO	0.05	13.0	295.0	90	210	High	hairline anastomozing biotite spider veinlet
237.18	ZVQ	0.2	35.0	282.0	65	31	High	quartz stringer
238.15	ZVQ	2	40.0	245.0	44	5	High	tabular rosy quartz vein with epidote
238.41	ZVQ	1	64.0	243.0	28	37	High	quartz-chlorite-pyrite tabular vein
238.58	ZVQ	2.5	45.0	215.0	26	342	High	tabular quartz-chlorite-pyrite vein
239.16	ZVQ	0.1	15.0	25.0	78	297	High	quartz-sericite stringer/hairline veinlet
239.57	ZVCL	0.1	32.0	245.0	50	359	High	biotite -chlorite spider veinlets
240.00	ZVQ	0.2	24.0	252.0	60	360	High	quartz-chlorite tabular vein
241.33	ZVCL	0.05	25.0	97.0	65	176	High	biotite-chlorite spider stringer
242.78	ZVQ	2.5	52.0	18.0	67	105	High	milky-rosy tabular quartz vein
243.38	ZVQ	0.1	25.0	340.0	87	255	High	quartz-k feldspar-chlorite stringer

245.59	ZVQ	0.3	73.0	28.0	45	104	High	tabular quartz -chlorite vein selvage
246.57	ZVCL	0.1	67.0	220.0	18	40	High	hematite-chlorite veinlet
247.66	ZVQ	0.2	50.0	267.0	47	31	High	tabular quartz
247.67	ZVQ	0.6	30.0	245.0	52	358	High	tabular quartz with chalcopyrite
248.88	ZVCL	0.1	25.0	67.0	79	151	High	chlorite-biotite spider veinlet with pyrite
250.70	ZVQ	0.2	39.0	7.0	80	99	High	quartz-chlorite-chalcopyrite veinlet
252.39	ZVQ	0.5	60.0	200.0	10	9	High	tabular quartz vein
278.97	ZVCL	1.3	25.0	110.0	59	188	High	chlorite-hematite-sericite vein
280.65	ZVQ	0.6	70.0	270.0	35	58	High	quartz vein
281.75	ZVC	0.15	20.0	20.0	82	293	High	calcite-hematite veinlet
282.32	ZVCL	0.4	32.0	40.0	82	128	High	chlorite-hematite-sericite vein
283.88	ZVC	0.2	50.0	280.0	52	41	High	calcite-hematite with minor chalcopyrite
286.98	ZVC	0.35	55.0	230.0	27	15	High	calcite-hematite veinlet
289.05	ZVO	0.6	65.0	70.0	44	129	High	Magnetite(?) veinlet. Black, fine-grained, slightly magnetic mineral.
289.90	ZVO	0.4	40.0	50.0	72	133	High	black, fine grained veinlet (biotite, magnetite, tourmaline?)
290.17	ZVCL	0.3	25.0	37.0	89	128	High	chlorite-magnetite veinlet
299.99	ZVQ	0.2	41.0	260.0	51	21	High	milky quartz stringer
300.60	ZVQ	0.1	42.0	0.0	78	95	High	anastomozing quartz stringer
300.81	ZVQ	4	60.0	10.0	59	101	High	magnetite-clay-quartz-chalcopyrite/pyrite zone
302.12	ZVO	0.1	63.0	65.0	47	129	High	magnetite stringer
303.00	ZVO	0.1	15.0	5.0	76	280	High	anastomozing hematite stringer
303.82	ZVQ	0.15	70.0	3.0	50	96	High	quartz-iron oxidized stringer
304.18	ZVQ	0.2	57.0	73.0	49	138	High	quartz-hematite-chlorite stringer
304.76	ZVQ	0.1	55.0	300.0	55	57	High	quartz-iron oxidized stringer
305.95	ZVQ	1.5	30.0	20.0	88	112	High	tourmaline vein
306.06	ZVQ	0.3	15.0	70.0	86	160	High	milky quartz stringer
306.90	ZVQ	0.5	70.0	78.0	39	127	High	tabular quartz vein with sericite
307.46	ZVQ	0.2	58.0	105.0	36	154	High	comb quartz-sericite vein with abundant chalcopyrite
307.77	ZVCL	0.5	15.0	25.0	78	299	High	clay-chlorite fracture coating
308.63	ZVT	4	70.0	40.0	47	112	High	tourmaline vein with breccia
313.97	ZVQ	0.5	75.0	210.0	18	70	High	tabular anastomozing quartz-chalcopyrite vein with trace k-feldspar
314.73	ZVQ	0.1	60.0	58.0	52	127	High	hairline milky quartz veinlet
315.45	ZVT	0.1	60.0	283.0	46	51	High	tourmaline/biotite spider veinlet
315.89	ZVT	0.5	50.0	20.0	68	108	High	tourmaline/biotite vein with pyrite
316.92	ZVO	0.1	60.0	60.0	51	128	High	pyrite-hematite-clay hairline veinlet
316.95	ZVO	0.1	35.0	155.0	30	230	High	pyrite-hematite-clay hairline veinlet
317.40	ZVQ	0.1	65.0	255.0	33	45	High	quartz stringer
317.92	ZVQ	4.5	55.0	283.0	50	47	High	tabular quartz vein with chalcopyrite, pyrite and chlorite
318.99	ZVQ	0.3	20.0	155.0	44	239	High	quartz-sericite tabular vein
323.44	ZVQ	2	50.0	278.0	52	39	High	large tabular quartz-sericite with chalcopyrite greater than pyrite
323.62	ZVQ	0.2	62.0	287.0	46	55	High	hairline quartz-sericite vein/stringer
324.96	ZVQ	0.2	65.0	300.0	47	63	High	tabular quartz vein with chalcopyrite

325.55	ZVQ	0.001	60.0	300.0	51	60	High	quartz-sericite coated fracture
326.04	ZVQ	0.2	30.0	56.0	79	141	High	quartz and magnetite veinlets
326.82	ZVQ	0.2	16.0	270.0	76	12	High	anastomozing quartz hematite vienlet
327.60	ZVQ	0.1	70.0	215.0	17	52	High	tabular quartz vein with chlorite selvage
327.75	ZVQ	0.4	10.0	135.0	60	220	High	tabular comb quartz with chlorite and clay
328.59	ZVQ	1.8	60.0	35.0	57	113	High	quartz chlorite stringer with chalcopyrite and pyrite
329.19	ZVQ	0.2	70.0	217.0	18	51	High	tabular quartz vein
329.45	ZVQ	0.3	60.0	265.0	39	41	High	tabular quartz vein with chalcopyrite and pyrite
330.21	ZVQ	1.5	83.0	180.0	23	93	High	quartz-chlorite stringer
330.94	ZVQ	1.2	50.0	315.0	64	63	High	quartz-sericite-chlorite on fracture surface
331.02	ZVE	0.3	25.0	75.0	75	158	High	anastomozing epidote veinlet
331.37	ZVQ	4	50.0	65.0	58	137	High	vuggy comb quartz tabular vein with chlorite, chalcopyrite and pyrite
331.75	ZVQ	0.5	20.0	102.0	67	183	High	anastomozing quartz-sericite-hematite veinlet
331.92	ZVQ	2	80.0	30.0	39	101	High	quartz-chlorite-hematite veining
332.80	ZVQ	0.8	58.0	90.0	42	145	High	chlorite-quartz veining on fracture surface
333.25	ZVQ	3	20.0	75.0	80	160	High	large quartz chlorite-epidote tabular vein
333.86	ZVE	0.3	50.0	83.0	51	148	High	broken epidote vein with abundant chalcopyrite and pyrite
333.90	ZVE	0.3	40.0	168.0	22	248	High	epidote spider veinlet with some chalcopyrite
334.76	ZVQ	1.4	50.0	336.0	68	77	High	quartz-hematite-clay vein
335.39	ZVQ	0.2	90.0	325.0	30	93	High	quartz hematite hairline veinlet
336.42	ZRO	0.2	45.0	218.0	27	346	High	hairline chlorite-hematite veinlet
337.93	ZVQ	2	40.0	120.0	42	184	High	quartz-hematite-chlorite-chalcopyrite anastomozing tabular vein
339.25	ZVQ	0.3	60.0	115.0	31	155	High	quartz-chlorite-hematite-chalcopyrite coated fracture
339.59	ZVQ	0.5	55.0	237.0	30	18	High	tabular quartz hematite vein
340.09	ZVQ	2	55.0	70.0	52	136	High	quartz stringer with chalcopyrite
340.45	ZVE	0.1	16.0	88.0	77	173	High	epidote stringers/stockwork with chalcopyrite
340.78	ZVQ	0.2	15.0	125.0	60	207	High	quartz-hematite-chalcopyrite stringer
342.68	ZVQ	0.3	30.0	110.0	54	183	High	tabular quartz-chalcopyrite veinlet with abundant magnetite
343.23	ZVO	0.3	50.0	253.0	41	22	High	hematite-clay stringer
343.81	ZVQ	0.1	25.0	242.0	55	351	High	quartz stringer
344.04	ZVQ	0.2	15.0	65.0	89	154	High	quartz-clay-hematite-chalcopyrite stringer
344.13	ZVO	0.4	50.0	72.0	55	141	High	clay-hematite-chalcopyrite stringer
345.05	ZVQ	0.2	47.0	260.0	46	23	High	quartz-hematite-chalcopyrite stringer
346.13	ZVQ	1.5	80.0	9.0	39	95	High	quartz-clay-hematite vein with pyrite greater than chalcopyrite
346.54	ZVT	0.2	45.0	107.0	44	168	High	tourmaline-hematite planar vein
349.09	ZVQ	1	20.0	83.0	76	166	High	quartz-chlorite stringer zone
350.49	ZVO	1.5	30.0	325.0	85	62	High	clay
350.82	ZVQ	0.5	35.0	75.0	67	152	High	quartz-hematite veining
352.71	ZVQ	0.2	78.0	47.0	39	106	High	quartz-sericite stringer
353.07	ZVQ	0.1	75.0	10.0	44	96	High	quartz stringer
353.08	ZVQ	0.1	42.0	56.0	68	134	High	quartz stringer
353.40	ZVQ	0.2	55.0	45.0	59	120	High	quartz stringer

353.54	ZVQ	0.2	12.0	315.0	81	228	High	anastomozing tabular quartz vein
354.00	ZVQ	0.5	15.0	75.0	84	162	High	anastomozing comb quartz vein with slight pinkening
355.49	ZVQ	0.2	55.0	293.0	53	50	High	quartz stringer
356.26	ZVQ	0.2	20.0	340.0	82	253	High	quartz stringer
356.60	ZVQ	0.5	60.0	208.0	14	12	High	tabular quartz vein
356.89	ZVQ	0.05	37.0	5.0	82	96	High	quartz stringer
357.33	ZVO	2	25.0	35.0	90	123	High	clay cut off by quartz stringer
357.58	ZVCL	1	35.0	37.0	80	122	High	clay-hematite-chlorite-sericite-quartz stringer zone
359.45	ZVQ	2	35.0	342.0	83	77	High	quartz-chlorite veining on fracture surface
361.11	ZVQ	0.2	57.0	300.0	53	56	High	quartz-sericite stringer
362.31	ZVQ	0.8	25.0	343.0	87	256	High	tabular quartz vein
362.48	ZVQ	0.3	45.0	322.0	70	64	High	overprinted quartz stringer
362.64	ZVT	0.3	30.0	212.0	37	321	High	tourmaline breccia vein
363.30	ZVQ	3	57.0	285.0	49	47	High	quartz-chlorite-sericite stringers with pyrite
363.90	ZVO	1	50.0	311.0	63	58	High	clay-pyrite-hematite vein
364.68	ZVQ	0.1	35.0	247.0	49	2	High	quartz-chlorite stringer
364.95	ZVQ	0.4	19.0	227.0	53	331	High	quartz stringer
373.89	ZVQ	0.8	60.0	322.0	56	69	High	quartz stringer in stockwork
374.05	ZVQ	0.2	20.0	12.0	81	282	High	quartz stringer
376.23	ZVQ	0.5	78.0	45.0	39	104	High	early tabular quartz vein
376.48	ZVQ	0.2	57.0	278.0	46	42	High	quartz-tourmaline stringer
377.58	ZVQ	0.3	10.0	187.0	51	280	High	anastomozing quartz vein
378.36	ZVQ	0.2	55.0	38.0	61	115	High	quartz-chlorite anastomozing vein
379.61	ZVQ	0.5	20.0	342.0	82	254	High	tabular quartz vein
380.10	ZVQ	0.3	52.0	265.0	45	30	High	tabular quartz vein
380.58	ZVQ	0.5	45.0	20.0	73	105	High	tabular quartz vein
381.51	ZVQ	0.3	45.0	70.0	60	140	High	chlorite stringer tabular quartz vein
381.95	ZVCL	0.5	27.0	15.0	88	284	High	tabular quartz vein
382.53	ZVQ	0.2	65.0	229.0	22	33	High	quartz hairline fracture

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
11.00	13.70	411277	CORE_HALF	107.33	71.9	10.23	1.66	20.3	14.5	0.161	1800	-0.005	0.27	0.94	0.6
13.70	15.00	411278	CORE_HALF	128.3	24.6	7.04	3.15	20.4	10.2	0.131	2500	-0.005	0.41	1.06	0.85
15.00	17.00	411279	CORE_HALF	220.95	18.4	10.97	2.49	24.6	31.8	0.184	2900	-0.005	0.3	2.79	0.51
17.00	19.00	411281	CORE_HALF	86.17	57.3	8.03	3.28	34.3	11.4	0.093	2800	-0.005	0.2	0.39	0.66
19.00	21.00	411282	CORE_HALF	124.07	33.4	11.79	2.89	29.8	20.2	0.119	2100	-0.005	0.22	0.6	0.71
21.00	23.00	411283	CORE_HALF	464.89	48.3	35.57	3.48	29.1	49.2	0.286	1800	-0.005	0.16	1.61	0.24
23.00	25.00	411284	CORE_HALF	3861.19	333.2	29.59	4.02	35	207.5	1.949	3300	-0.005	0.38	3.69	0.5
25.00	27.00	411285	CORE_HALF	1707.68	114.9	16.54	4.33	37.3	173.5	0.887	2500	-0.005	0.31	6.78	0.52

27.00	28.20	411286	CORE_HALF	470.93	90.5	26.81	5.63	36.5	49.6	0.423	2200	-0.005	0.21	4.23	0.79
28.20	29.40	411287	CORE_HALF	812.08	67.5	8.63	3.35	56.4	77.6	0.459	13300	-0.005	0.25	3.58	0.37
29.40	31.00	411288	CORE_HALF	593.81	40.7	20.96	5.23	43.3	35	0.313	3400	-0.005	0.24	1.1	0.99
31.00	33.00	411289	CORE_HALF	672.94	37.8	55.4	5.04	32.7	31	0.32	5400	-0.005	0.18	1.75	0.47
33.00	35.00	411290	CORE_HALF	3146.61	131	95.2	5.82	25.4	35.1	1.54	2200	0.005	0.28	2.12	0.89
35.00	37.00	411291	CORE_HALF	1507.12	82.4	38.36	3.64	28.6	57.5	0.582	3400	0.008	0.15	4.59	0.53
37.00	39.00	411292	CORE_HALF	2188.72	108.5	45.89	4.26	30.9	47.4	0.908	2200	0.005	0.22	3.63	1.65
39.00	41.00	411293	CORE_HALF	2384.96	123.3	97.31	4.69	32.9	94	0.88	2900	0.012	0.24	7.56	1.25
41.00	43.00	411294	CORE_HALF	2585.08	161.8	233.84	4.8	35.6	169.8	1.163	3300	0.01	0.42	10.4	1.91
43.00	45.00	411295	CORE_HALF	1943.79	91.4	221.96	4.49	32	105.5	1.324	3000	0.025	0.49	6.23	0.88
45.00	47.00	411296	CORE_HALF	1305.21	68.6	147.9	4.9	31	53.4	0.684	2200	0.024	0.31	6.86	1.1
47.00	49.00	411297	CORE_HALF	499.27	22.1	12.88	3.47	29.5	29.9	0.32	2300	0.005	0.22	3.16	0.78
49.00	51.00	411298	CORE_HALF	1621.44	85.9	50.06	4	36.4	41.4	0.865	2700	0.014	0.17	6.76	0.57
51.00	53.00	411299	CORE_HALF	1653.01	164.2	48.15	4.23	48	44.4	0.826	4300	0.011	0.28	20.19	1.01
53.00	55.00	411301	CORE_HALF	3189.88	233.8	60.16	4.02	32.4	35.6	1.738	1900	0.014	0.22	17.87	0.77
55.00	57.00	411302	CORE_HALF	3308.57	201.1	45.37	3.48	34.5	65.1	1.349	1700	0.007	0.15	12.14	0.78
57.00	59.10	411303	CORE_HALF	1846.18	105	58.16	3.09	25.4	42.8	0.826	1700	0.015	0.15	11.27	0.53
59.10	61.00	411304	CORE_HALF	573.01	41.5	18.96	1.67	29.4	111.6	0.324	1600	0.01	0.15	0.55	0.27
61.00	63.00	411305	CORE_HALF	1746.49	149.5	44.47	3.11	23.6	440.1	1.205	1600	0.011	0.23	4.76	0.4
63.00	65.00	411306	CORE_HALF	608.4	60.1	20.4	2.03	22.9	178.5	0.385	1300	0.006	0.15	1	0.38
65.00	67.00	411307	CORE_HALF	1978.75	67.9	51.83	3.03	21.7	154.2	0.989	1300	-0.005	0.22	1.81	0.62
67.00	69.00	411308	CORE_HALF	2776.87	94.7	79.74	3.48	18.8	20.8	1.261	1400	-0.005	0.23	1.37	0.48
69.00	71.00	411309	CORE_HALF	1789.17	115.6	12.56	3.07	22.6	46.7	0.768	1400	-0.005	0.15	10.19	0.4
71.00	72.90	411310	CORE_HALF	2614.23	81.4	49.02	4.52	15.8	7.7	1.183	1500	-0.005	0.18	2.82	0.32
72.90	75.00	411311	CORE_HALF	2677.79	80.8	14.55	3.81	31.9	21.2	1.174	2400	-0.005	0.17	3.44	0.31
75.00	77.00	411312	CORE_HALF	2127.59	83.4	17.07	4.3	18.2	15	0.962	1700	0.005	0.13	2.47	0.25
77.00	79.00	411313	CORE_HALF	3139.28	84.5	39.99	4.08	17	22	1.308	1700	-0.005	0.23	1.26	0.44
79.00	81.00	411314	CORE_HALF	463.65	29.9	5.39	2.69	37.5	37.4	0.325	3600	-0.005	0.17	2.96	0.07
81.00	83.00	411315	CORE_HALF	303.41	12.6	4.5	3.03	47.6	15	0.213	5900	-0.005	0.11	1.33	0.04
83.00	84.50	411316	CORE_HALF	312.67	17.6	4.36	3.27	55.5	18	0.312	3800	-0.005	0.15	2.53	0.05
84.50	87.00	411317	CORE_HALF	865.33	32.8	7.5	2.87	50.7	29.3	0.544	3200	-0.005	0.1	3.67	0.1
87.00	89.00	411318	CORE_HALF	1553.8	100.6	26.47	3.84	37.4	50.8	1.068	2300	-0.005	0.18	3.27	0.6
89.00	91.00	411319	CORE_HALF	1037.48	46.8	15.86	2.64	16.8	19.8	0.479	1500	-0.005	0.13	2.58	0.54
91.00	93.00	411321	CORE_HALF	679.6	33	8.75	2.29	18.2	24.1	0.369	1500	-0.005	0.1	2.7	0.35
93.00	95.00	411322	CORE_HALF	705.99	36.6	38.85	2.25	18.3	42.8	0.36	1200	-0.005	0.13	5.22	0.31
95.00	97.00	411323	CORE_HALF	1524.43	47.7	29.11	3.28	15.9	20.5	0.69	1300	-0.005	0.11	1.94	0.24

97.00	99.00	411324	CORE_HALF	1518.24	32.9	32.2	3.75	35.6	37	0.811	3900	0.006	0.22	10.64	0.3
99.00	101.00	411325	CORE_HALF	1288.61	36.4	12.6	3.58	22.5	45.6	0.813	1500	-0.005	0.09	12.49	0.17
101.00	103.00	411326	CORE_HALF	1291.13	43.1	48.7	2.66	18.1	70.5	1.015	1300	-0.005	0.18	13.83	0.35
103.00	105.00	411327	CORE_HALF	4080.58	160.3	135.05	5.77	23.5	33.9	3.096	1400	0.053	0.5	6.34	1.03
105.00	107.00	411328	CORE_HALF	2130.5	89.6	68.7	3.7	30.5	70.9	1.67	1600	0.106	0.14	13.18	0.26
107.00	109.00	411329	CORE_HALF	5452	293.9	138.2	6.38	26.8	158	3.145	1700	0.068	0.29	21.09	0.58
109.00	111.00	411330	CORE_HALF	1738.09	89.5	6.18	4.31	22.9	23	1.073	1500	-0.005	0.1	4.66	0.18
111.00	113.00	411331	CORE_HALF	763.47	38.9	7.18	2.72	17.5	17.4	0.45	1500	0.008	0.07	2.17	0.08
113.00	115.00	411332	CORE_HALF	3424.11	136.7	28.29	4.04	20.3	42.6	2.141	1700	0.005	0.19	2.87	0.42
115.00	117.00	411333	CORE_HALF	2021.21	211	4.21	2.42	13.1	26.5	1.339	1500	-0.005	0.15	1.2	0.24
117.00	119.00	411334	CORE_HALF	955.78	51.2	27.49	4.22	13.1	16.7	0.737	1700	0.015	0.16	0.51	0.22
119.00	121.00	411335	CORE_HALF	1676.85	104.4	2.8	3.62	28.4	15.3	0.78	1500	-0.005	0.14	1.32	0.22
121.00	123.00	411336	CORE_HALF	1139.77	66.1	125.23	3.16	16.9	10	0.509	1700	-0.005	0.08	0.32	0.17
123.00	125.00	411337	CORE_HALF	3823.39	191.9	165.91	4.65	17.6	8.9	2.213	1600	-0.005	0.25	2.85	0.5
125.00	127.00	411338	CORE_HALF	1121.11	98.5	11.11	4.54	19	7.2	0.84	2200	0.039	0.12	5.42	0.26
127.00	129.00	411339	CORE_HALF	596.7	165.2	79.42	4.93	21.9	13.5	0.432	2100	0.083	0.06	8.63	0.1
129.00	131.00	411341	CORE_HALF	430.69	56.7	45.59	4.58	21.6	25.3	0.274	1900	0.02	0.08	15.13	0.08
131.00	133.00	411342	CORE_HALF	291.72	32.8	33.12	4.54	19	25.9	0.223	1500	0.028	0.09	8.82	0.08
133.00	135.00	411343	CORE_HALF	265.64	47.3	86.17	4.53	20.6	19.8	0.202	1300	0.019	0.07	6.14	0.1
135.00	137.20	411344	CORE_HALF	400.41	52.3	17.2	2.4	21.4	6.1	0.249	1500	-0.005	0.1	2.26	0.1
137.20	139.50	411345	CORE_HALF	949.41	186.9	14.78	8.01	52.3	25.4	0.71	6800	-0.005	0.12	2.37	0.14
139.50	141.00	411346	CORE_HALF	1007.82	87.8	241.59	2.78	21.6	2.7	0.559	1100	0.019	0.06	0.72	0.14
141.00	143.00	411347	CORE_HALF	1786.4	171	178.57	2.78	20	2.7	1	1000	0.033	0.09	0.96	0.23
143.00	145.00	411348	CORE_HALF	1550.42	354.5	76.88	3.35	14.1	4.2	0.641	1600	0.011	0.28	0.68	0.2
145.00	147.00	411349	CORE_HALF	476.46	83	72.32	4.28	16.3	3.7	0.293	3500	0.022	0.14	1.1	0.07
147.00	149.00	411350	CORE_HALF	73.5	16.6	233.24	3.1	20.1	3.5	0.076	2400	0.015	0.07	11.68	0.04
149.00	151.00	411351	CORE_HALF	1270.87	182	53.03	3.43	49.2	4.1	0.825	6200	0.01	0.17	6.99	0.2
151.00	153.00	411352	CORE_HALF	244.36	24.7	140.75	3.47	21.4	1.1	0.274	2800	-0.005	0.06	0.99	0.05
153.00	155.00	411353	CORE_HALF	561.38	370.8	87.9	2.9	18.9	1.8	0.298	3600	0.007	0.1	6.58	0.04
155.00	157.00	411354	CORE_HALF	1675.44	93	98.88	3.37	29.2	2.3	1.117	4400	0.005	0.18	0.76	0.17
157.00	159.00	411355	CORE_HALF	193.85	35.5	41.28	3.79	17.8	3.1	0.141	2500	-0.005	0.08	5.98	0.03
159.00	161.00	411356	CORE_HALF	283.89	17.9	201.15	6.03	18.5	3.7	0.225	2900	0.012	0.08	0.92	0.08
161.00	163.00	411357	CORE_HALF	1087.06	107.3	17.12	6.28	24.1	4.8	0.69	2500	0.011	0.1	4.68	0.2
163.00	165.00	411358	CORE_HALF	1273.73	105.4	16.44	4.06	25.1	8	0.587	2000	0.015	0.09	1.1	0.17
165.00	167.00	411359	CORE_HALF	1625.75	131.1	165.68	3.48	34.7	3.9	0.635	2600	-0.005	0.11	2.7	0.25
167.00	169.00	411361	CORE_HALF	814.15	77.7	17.1	4.21	43.7	2.5	0.547	2500	0.009	0.24	0.41	0.44

169.00	171.00	411362	CORE_HALF	475.51	37.2	30.67	11.54	58.8	2.8	0.354	2700	0.012	0.59	2.26	0.53
171.00	173.00	411363	CORE_HALF	511.6	34.9	9.99	5.93	39.7	2.4	0.458	2900	0.006	0.54	0.42	0.63
173.00	175.00	411364	CORE_HALF	392.64	16.7	8.27	4.63	48.2	2.3	0.38	2000	-0.005	0.52	1.54	0.48
175.00	177.00	411365	CORE_HALF	1032.97	51.9	14.92	7.06	51.7	2.4	0.703	4600	0.014	0.35	0.53	0.32
177.00	178.50	411366	CORE_HALF	609.52	40.4	4.32	5.11	52.7	4.7	0.362	5000	0.006	0.12	1.69	0.15
178.50	179.60	411367	CORE_HALF	416.39	27.6	111.01	4.79	36.6	6	0.254	2400	0.006	0.08	1.06	0.09
179.60	182.00	411368	CORE_HALF	562.77	79.6	3.78	4.22	34	2.8	0.269	3700	-0.005	0.08	1.89	0.09
182.00	184.00	411369	CORE_HALF	456.63	26.1	6.97	4.78	36.6	5.7	0.299	3400	0.006	0.08	2.77	0.06
184.00	186.00	411370	CORE_HALF	929.74	52.3	43.88	3.85	33.4	7.8	0.652	2800	-0.005	0.1	3.07	0.14
186.00	188.00	411371	CORE_HALF	1002.56	61.5	4.71	4.13	39.2	1.5	0.609	7500	-0.005	0.13	0.39	0.15
188.00	190.00	411372	CORE_HALF	846.87	84.2	3.04	3.52	30.7	1.4	0.52	4200	0.006	0.06	1.03	0.15
190.00	192.00	411373	CORE_HALF	519.1	37	3.95	3.75	27.7	1.9	0.394	5000	0.007	0.21	0.31	0.14
192.00	194.00	411374	CORE_HALF	338.54	17.8	3.41	4.33	27.1	2.4	0.3	3300	-0.005	0.11	1.26	0.07
194.00	196.00	411375	CORE_HALF	317.14	22	2.81	4.37	29.3	2.6	0.204	4200	0.005	0.07	0.53	0.08
196.00	198.00	411376	CORE_HALF	148.19	7.2	3.38	3.9	25.5	7.2	0.123	3700	-0.005	0.11	9.65	0.04
198.00	200.00	411377	CORE_HALF	1103.92	49.3	11.45	4.93	34.7	46.4	0.804	3200	0.012	0.26	22.67	0.46
200.00	202.00	411378	CORE_HALF	586.16	22.3	9.37	4.61	36.5	24	0.348	1800	-0.005	0.13	5.7	0.16
202.00	204.20	411379	CORE_HALF	889.58	52.1	25.38	4.07	27.6	30.8	0.578	2500	0.005	0.16	5.88	0.34
204.20	206.10	411381	CORE_HALF	532.64	12.4	7.29	4.54	25.1	26.3	0.331	1900	0.012	0.09	17.98	0.11
206.10	208.00	411382	CORE_HALF	306.74	12.9	19.64	3.13	24.4	6.5	0.198	2900	0.005	0.05	0.74	0.07
208.00	210.00	411383	CORE_HALF	390.12	12.2	18.32	3.21	25.2	8.3	0.219	2800	0.017	0.1	3.79	0.14
210.00	212.00	411384	CORE_HALF	569.04	17.8	10.78	3.4	14.4	14.5	0.368	2600	0.023	0.17	7.5	0.14
212.00	214.00	411385	CORE_HALF	292.3	16.3	23.08	3.13	14.2	14.4	0.236	4300	0.18	0.25	5.76	0.45
214.00	216.00	411386	CORE_HALF	242.68	8.9	17.48	3.13	21.9	3.9	0.214	4100	0.052	0.07	1.26	0.15
216.00	218.00	411387	CORE_HALF	247.32	9.8	2.26	2.88	21.3	2.9	0.168	3400	-0.005	0.04	0.86	0.07
218.00	220.00	411388	CORE_HALF	1067.5	94.5	5.8	4.65	30.3	2.2	0.686	3000	0.006	0.09	0.78	0.16
220.00	222.00	411389	CORE_HALF	194.21	17.2	15.43	4.31	36	2.1	0.154	3600	-0.005	0.07	0.26	0.05
222.00	224.00	411390	CORE_HALF	505.81	39.3	6.3	8.25	80.5	2.6	0.405	3200	0.013	0.11	0.87	0.09
224.00	226.00	411391	CORE_HALF	463.22	74.2	10.34	4.83	74.8	2.1	0.357	3100	0.01	0.12	0.22	0.09
226.00	228.00	411392	CORE_HALF	562.03	64.4	8.62	4.15	56.8	2.5	0.399	3200	-0.005	0.13	0.63	0.13
228.00	230.00	411393	CORE_HALF	25.16	2.1	6.54	2.42	34.4	2.3	0.05	1800	-0.005	0.05	0.16	0.01
230.00	232.00	411394	CORE_HALF	337.31	23.9	7.64	3.85	33.8	23.8	0.269	2100	-0.005	0.07	0.54	0.09
232.00	234.00	411395	CORE_HALF	659.78	26.2	105.75	4.91	24.3	35.4	0.494	2200	0.066	0.27	6.89	0.16
234.00	236.00	411396	CORE_HALF	888.71	33.6	19.07	5	29.5	65.4	0.613	3400	0.012	0.25	7.1	0.18
236.00	238.00	411397	CORE_HALF	851.08	52.1	2.2	3.84	31.2	15.6	0.508	2500	0.01	0.08	0.53	0.12
238.00	240.00	411398	CORE_HALF	562.5	41.8	46.37	3.44	26.3	16.6	0.392	2400	0.008	0.42	0.44	0.13

240.00	242.00	411399	CORE_HALF	1114.37	42.7	68.89	6.66	49.6	81.9	0.677	2100	10.578	0.14	92.97	0.16
242.00	244.00	411401	CORE_HALF	569.45	23.3	48.61	4.14	22.5	40.1	0.317	2600	0.155	0.07	6.15	0.07
244.00	246.00	411402	CORE_HALF	303.06	21.3	23.09	4.87	26.4	26.8	0.217	2100	0.046	0.14	4.63	0.12
246.00	248.00	411403	CORE_HALF	456.37	19.7	14.98	4.59	22.3	19.9	0.209	900	0.331	0.06	35.8	0.09
248.00	250.00	411404	CORE_HALF	415.47	13	9.93	3.59	22.3	32.5	0.249	1300	0.327	0.07	17.77	0.07
250.00	252.00	411405	CORE_HALF	605.01	22.6	27.19	3.25	34.3	43.2	0.407	3300	0.009	0.16	1.48	0.17
252.00	254.20	411406	CORE_HALF	574.02	29.6	15.21	2.11	19.6	17.1	0.465	1200	-0.005	0.22	0.21	0.25
254.20	256.00	411407	CORE_HALF	723.47	87.6	25.1	7.7	16.3	52.7	0.566	2400	0.007	0.97	1.02	1.18
256.00	258.00	411408	CORE_HALF	186.36	46.6	21.35	2.96	13	15.2	0.173	2300	0.013	0.46	1.38	1.21
258.00	260.00	411409	CORE_HALF	492.49	15.6	7.17	5	36.3	17.6	0.328	6800	0.014	0.4	5.8	0.15
260.00	262.00	411410	CORE_HALF	164.98	23.5	4.9	3.34	48.7	9.9	0.143	5800	0.19	0.16	2.81	0.5
262.00	264.00	411411	CORE_HALF	207.24	16.1	12.18	3.57	43.8	12.9	0.185	4700	0.049	0.32	2.61	0.35
264.00	266.00	411412	CORE_HALF	552.67	19	8.31	5.78	44.9	19	0.664	6700	0.042	0.55	5.81	0.73
266.00	268.00	411413	CORE_HALF	81.42	7.7	5.16	4.72	52.6	14.4	0.097	8400	0.013	0.24	1.65	0.56
268.00	270.00	411414	CORE_HALF	499.99	22	18.11	5.14	44.1	39.8	0.639	7300	0.047	1.04	3.06	1.07
270.00	272.00	411415	CORE_HALF	3054.78	99.5	21.85	6.6	52.9	30.8	2.774	8900	0.023	0.66	4.61	1.59
272.00	274.00	411416	CORE_HALF	1136.44	37.5	5.61	6.39	45.2	39.2	0.996	5400	0.152	0.64	20.81	1.48
274.00	276.00	411417	CORE_HALF	405.16	17.5	13.88	4.81	46.9	17.9	0.427	9400	0.334	0.31	4.3	0.56
276.00	278.00	411418	CORE_HALF	219.13	10.9	19.17	2.88	49	16.5	0.189	10700	0.006	0.28	1.18	0.83
278.00	280.00	411419	CORE_HALF	182.43	9.6	22.58	2.94	41.3	12.1	0.192	8900	0.01	0.27	1.56	0.58
280.00	282.00	411421	CORE_HALF	362.99	16.9	7.85	4.2	43.8	12.7	0.348	8800	0.258	0.6	6.06	0.92
282.00	284.00	411422	CORE_HALF	2877	64.7	2.92	5.29	38.1	20.2	1.881	10600	0.128	0.68	2.78	1.92
284.00	286.00	411423	CORE_HALF	473.19	13.8	5.58	4	48.5	12.6	0.357	12300	0.035	0.33	1.84	0.18
286.00	288.00	411424	CORE_HALF	509.93	11.5	9.36	3.87	37.4	11	0.393	8000	0.059	0.23	2.04	0.17
288.00	290.00	411425	CORE_HALF	411.09	11.5	15.97	4.69	39.2	13.4	0.3	6900	0.06	0.24	2.44	0.21
290.00	292.00	411426	CORE_HALF	240.88	9.1	9.38	4.56	34.6	12.9	0.181	6600	0.035	0.23	3.71	0.32
292.00	294.00	411427	CORE_HALF	244.07	11.2	29.34	6.45	50.6	20.1	0.246	7700	1.289	0.37	15.7	0.61
294.00	296.00	411428	CORE_HALF	336.25	9.8	4.3	5.15	53.2	13.7	0.242	7100	0.021	0.21	3.64	0.09
296.00	298.00	411429	CORE_HALF	606.96	22.6	8.8	6.29	53.8	23.2	0.486	3900	0.132	0.4	8.13	0.37
298.00	300.00	411430	CORE_HALF	583.09	16.9	5.13	6.18	67.6	19.8	0.412	5200	0.036	0.23	5.69	0.11
300.00	301.00	411431	CORE_HALF	1601.72	31.2	4.89	3.93	72.1	16.6	1.132	15200	0.023	0.15	2.13	0.2
301.00	302.00	411432	CORE_HALF	137.18	6.2	4.24	4.02	56.9	14.8	0.11	13600	0.021	0.16	1.92	0.14
302.00	303.80	411433	CORE_HALF	172	7	5.23	4.83	60.8	13.9	0.175	7900	0.025	0.24	3.37	0.15
303.80	306.00	411434	CORE_HALF	2375.17	46.4	12.4	9.03	58.2	25.9	1.668	4600	0.082	0.53	8.66	0.16
306.00	307.00	411435	CORE_HALF	1694.7	42.4	17.74	9.6	55.4	63.8	1.386	3300	0.427	0.5	19.3	0.23
307.00	308.00	411436	CORE_HALF	2567.45	151.6	6.34	10.12	74.5	23.9	1.929	2800	0.153	0.52	10.2	0.41

308.00	310.00	411437	CORE_HALF	1059.65	21.4	5.35	7	57.2	53.3	0.856	3200	0.5	0.28	13.47	0.15
310.00	312.00	411438	CORE_HALF	2646.38	67.7	7.89	9.62	43.5	67.9	2.143	3600	0.217	0.45	17.92	0.56
312.00	314.00	411439	CORE_HALF	1060.52	24.9	15.9	7.26	39.1	21.6	0.824	5100	0.073	0.33	8.02	0.11
314.00	316.00	411441	CORE_HALF	247.25	9.3	20.9	6.51	40.9	18	0.234	5500	0.074	0.38	3.5	0.49
316.00	317.70	411442	CORE_HALF	1042.99	28	9.91	11.96	34.2	17.6	0.798	2500	0.169	0.53	13.67	0.18
317.70	320.00	411443	CORE_HALF	860.67	25.3	8.44	4.61	54.1	14.5	0.701	4400	0.06	0.31	7.22	0.12
320.00	322.00	411444	CORE_HALF	451.38	11.4	5.63	5.26	40.7	18.6	0.425	5500	0.038	0.28	5.05	0.05
322.00	324.00	411445	CORE_HALF	429.69	53.9	14.96	5.66	55.8	13.6	0.457	10500	0.016	0.22	1.77	0.43
324.00	325.00	411446	CORE_HALF	944.52	31.1	3.95	3.76	53.2	12.9	0.86	12400	0.007	0.12	1.21	0.11
325.00	326.00	411447	CORE_HALF	962.42	21.9	4.97	2.27	37.3	9.8	0.817	12000	0.006	0.11	0.89	0.19
326.00	328.00	411448	CORE_HALF	162.83	4.8	3.46	2.23	58.7	10.5	0.154	24100	0.005	0.21	0.66	0.06
328.00	329.00	411449	CORE_HALF	581.31	11.5	2.16	2.28	56.9	11.2	0.475	17800	-0.005	0.1	0.35	0.15
329.00	331.00	411450	CORE_HALF	533.4	14.7	1.97	1.89	55.5	12	0.47	21300	-0.005	0.09	0.37	0.15
331.00	333.00	411451	CORE_HALF	526.75	42.9	4.15	2.54	49.7	10.3	0.446	17100	-0.005	0.19	0.53	0.12
333.00	335.00	411452	CORE_HALF	574.86	31.1	5.79	2.88	42.4	13	0.52	6200	0.013	0.15	2.06	0.14
335.00	337.00	411453	CORE_HALF	760.35	38.6	4.84	3.47	47.3	16.6	0.709	15100	0.036	0.17	2.83	0.12
337.00	339.60	411454	CORE_HALF	701.12	43	6.73	6.71	47.2	18.8	0.785	6800	0.07	0.26	6.35	0.15
339.60	341.00	411455	CORE_HALF	4757.5	185.4	5.06	5.91	46.3	16.1	3.781	7000	0.081	0.35	5.02	0.53
341.00	342.00	411456	CORE_HALF	2381.06	86.2	4.1	4.33	33.2	17.3	2.058	2400	0.058	0.29	5.73	0.26
342.00	343.00	411457	CORE_HALF	631.71	25.6	2.66	4.6	49.6	14.1	0.58	18100	0.059	0.35	2.96	0.07
343.00	345.00	411458	CORE_HALF	768.96	25.7	4.08	3.16	52.4	13.8	0.617	20100	0.033	0.15	1.51	0.07
345.00	346.00	411459	CORE_HALF	1729.97	76.7	7.51	6.81	40.1	20.7	1.539	7100	0.057	0.32	5.28	0.21
346.00	347.00	411461	CORE_HALF	1368.58	59.3	18.15	6.56	59.1	34.7	1.359	5200	0.073	0.61	3.92	1.39
347.00	349.00	411462	CORE_HALF	428.49	19.7	22.48	6.73	35.9	13.4	0.506	4900	0.056	0.24	3.37	0.18
349.00	351.00	411463	CORE_HALF	44.63	12.5	85.06	8.34	25.8	21.4	0.095	3500	0.066	0.61	7.64	0.33
351.00	353.00	411464	CORE_HALF	54.72	11.6	28.09	5.72	34.9	24.6	0.075	10700	0.059	0.43	4.9	0.98
353.00	354.80	411465	CORE_HALF	42.64	8.5	9.27	4.16	37.8	18.2	0.079	12400	0.056	0.57	3.41	1.28
354.80	357.00	411466	CORE_HALF	16.84	5.1	6.31	4.47	31.4	15.2	0.075	3900	0.092	0.49	4.78	0.94
357.00	359.00	411467	CORE_HALF	27.21	5.4	5.89	3.41	45.8	16.5	0.07	2800	0.046	0.41	3.51	1.06
359.00	361.20	411468	CORE_HALF	60.84	18.3	3.89	2.69	50.9	9.9	0.48	2600	0.22	0.65	3.07	0.64
361.20	363.00	411469	CORE_HALF	59.71	12.1	1.73	2.58	54	13.9	0.159	1200	0.034	0.24	1.38	0.33
363.00	365.00	411470	CORE_HALF	387.84	23	15.58	4.03	37.3	15.6	0.429	3400	0.122	0.28	31.61	0.38
365.00	367.00	411471	CORE_HALF	44.53	6.5	3.31	3.29	44.9	7.7	0.098	2800	0.016	0.14	1.38	0.27
367.00	369.00	411472	CORE_HALF	17.68	5.4	14.76	3.15	37.9	7.7	0.065	4500	0.048	0.19	1.87	0.3
369.00	370.50	411473	CORE_HALF	11.29	1.8	4.04	3.02	37.3	8.1	0.043	3000	0.02	0.13	0.73	0.15
370.50	372.00	411474	CORE_HALF	25.02	8	2.13	2.97	30.9	9.8	0.071	4100	0.027	0.45	0.4	0.57

372.00	374.00	411475	CORE_HALF	46.69	6.5	1.38	2.44	34.5	11.4	0.1	3900	0.168	0.38	1.39	0.56
374.00	376.00	411476	CORE_HALF	32.51	8.7	0.84	2.65	34.5	12.1	0.057	3000	0.057	0.34	0.28	0.67
376.00	378.00	411477	CORE_HALF	10.59	7	0.48	2.86	30.3	6.3	0.063	3600	0.03	0.19	0.34	0.27
378.00	380.00	411478	CORE_HALF	14.13	10.1	2.81	2.42	24.1	10.8	0.112	1700	0.041	0.28	0.81	0.58
380.00	382.00	411479	CORE_HALF	15.14	12.6	18.59	3.83	24.6	10.3	0.178	4200	0.056	0.27	0.99	0.34
382.00	384.00	411481	CORE_HALF	22.43	7.8	2.94	2.39	24	11.2	0.077	3300	0.082	0.2	1.56	0.42
384.00	386.00	411482	CORE_HALF	17.35	5.1	4.26	2.2	25.2	9.7	0.045	2200	0.147	0.18	0.93	0.38
386.00	388.32	411483	CORE_HALF	46.31	10.1	6.74	2.46	27.5	18.4	0.093	3300	0.16	0.31	3.12	0.51

Geoinformatics Exploration Inc

Collar

Hole ID	RZ06_06	*Hole type*	DD		*Drilling company*		*Grid ID*	NAD83_UTM_10	
DataSet	GXL_REDTON_2006	*Depth*	220.67	m	*Geologist*		*Easting*	354290.00	*RL* 1560.00 m
Prospect	Red Zone	*Commenced*	22/09/2006		*Survey Method*		*Northing*	6171460.00	
Tenement		*Completed*	25/09/2006		*Notes*				

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
0.00	m	270.0	NAD83_UTM	-60.0	COMPASS	
38.24	m	267.2	NAD83_UTM	-59.5	CAMERA	
69.08	m	272.7	NAD83_UTM	-59.3	CAMERA	
130.76	m	272.8	NAD83_UTM	-59.4	CAMERA	
220.67	m	267.0	NAD83_UTM	-59.6	CAMERA	

Lithology

Logged by: Robin_McQuinn

			Lith 1					*Lith 2*					
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	10.67	CASE												
10.67	61.48	IID	M	at	eq		95	VIB	F				5	
61.48	63.24	IIIP	M	at	pp		100							
63.24	69.95	IID	M	at	eq		100							
69.95	83.37	IIQP	C	at	pp		100							
83.37	105.28	VFRD	F				90	IIQP	C	at	pp		10	
105.28	180.06	IIQP	C	at	pp		100							
180.06	220.67	IID	M	at	eq		60	IIQP	C	at	pp		40	

Lithology

Logged by: Robin_McQuinn

From	*To m*	*Description*
0.00	10.67	
10.67	61.48	fine to medium grained equigranular diorite locally texture destroyed. Short interval with basaltic andesite dyking and little alteration from 22.85 m to 23.92 m. Mafic dyking may be an altered form of the diorite, with sharp contacts at margins of intervals.

61.48	63.24	highly altered monzodiorite porphyry. Approximately 30% to 50% phenocrysts. Possibly differentially altered form of diorite.
63.24	69.95	texture is locally destroyed, and locally appears porphyritic. Diorite fine-grained over interval.
69.95	83.37	Course-grained plagioclase-porphyritic quartz diorite. Resorbed kfeldspar phenocrysts also possible. Phenocrysts comprise approximately 20-40% of rock.
83.37	105.28	Very fine-grained felsic-intermediate dyke with rafts of quartz diorite porphyry. Rafts comprise approximately 10% of interval. Quartz diorite approximately 20-40% phenocrysts.
105.28	180.06	Course-grained plagioclase-porphyritic quartz diorite. Resorbed kfeldspar phenocrysts also possible. Phenocrysts comprise approximately 20-40% of rock. The porphyritic texture is locally obliterated. Rock is locally completely replaced and unrecognizable for short intervals.
180.06	220.67	Long interval zoning in and out of coarse grained quartz diorite porphyry and fine-grained diorite. The texture of both lithologies is locally blasted and unrecognizable through interval.

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
10.67	17.75	INT	KF	pv	WK	EZ	pv	INT				Interval of intense epidote alteraton with abundant chlorite (possibly after biotite) and minor kfeldspar alteration visible where epidote alteration is locally less intense.
17.75	26.30	INT	CY	pv	INT	CH	vsel	MOD				Intense clay alteration, preserving some lithic texture and possibly obliterating previous alteration. Localized heavy hematite near strong fracturing zones.
26.30	60.72	STG	KF	pv	MOD	EZ	pv	STG				Relict kfeldspar alteration overpinted by pervasive and bleby epidote-chlorite alteration. Magnetite in veinlets and pervasive observed throughout interval. Some chlorite is a possibly replacement of biotite alteration.
60.72	69.11	STG	CY	pv	STG	CH	vsel	MOD				Intense clay alteration, preserving some lithic texture and possibly obliterating previous alteration. Localized heavy hematite near strong fracturing zones.
69.11	70.01	INT	KF	pv	INT	CH	pv	STG	EZ	blb	MOD	Intense k-feldspar alteration overprinted by chlorite and bleby epidote alteration. Chlorite may be after biotite.
70.01	75.31	MOD	KF	pv	MOD	CY	rep	MOD	SL	pv	MOD	zone of variably clay overprinted pervasive kfeldspar alteration. Localized zones with abundant silica and pyrite, and lack of clay alteration.
75.31	77.13	STG	KF	pv	STG	BZ	pv	STG				rock seems to be entirely kfeldspar and biotite or chlorite after biotite, with abundant silica. Possibly silicous overprint preserving alteration.
77.13	80.09	MOD	KF	pv	MOD	CY	rep	WK				kfeldspar alteration of matrix with clay replacement of phenocryst sites. Minor chlorite along fractures.
80.09	126.38	MOD	KF	pv	WK	CH	pv	WK	CY	pv	MOD	long interval with pervasive chlorite and clay alteration with short intervals of kfeldspar alteration and silicous alteration.
126.38	126.84	STG	CY	pv	INT							short interval of extremely heavy iron oxidation in pyritized clay.
126.84	131.32	MOD	CH	blb	WK	CY	rep	MOD				interval overprinted by weak chlorite and moderate clay replacement of feldspar sites in porphyry. Possible obliteration of previous alteration.
131.32	138.00	MOD	KF	pv	WK	CH	blb	MOD	SL	pv	MOD	zone with potassic and biotite alteration partially altered to chlorite and partially silicically overprinted.
138.00	153.33	STG	KF	pv	STG	BZ	pv	MOD	EZ	blb	WK	Many alteration halos observed in interval. Strong potassic alteration, moderate biotite pervasive and in blebs, with large blebs of epidote. Late quartz-sericite-pyrite overprint of zone with local clay replacement.
153.33	156.79	STG	KF	pv	STG	BZ	pv	MOD	SL	pv	STG	Strong potassic alteration, moderate biotite pervasive and in blebs. Late, strong quartz-sericite-pyrite overprint of zone.
156.79	158.48	MOD	KF	pv	WK	CH	blb	MOD	CY	rep	MOD	potassic alteration overprinted by clay and chlorite (possibly after biotite)
158.48	166.40	MOD	KF	pv	MOD	BZ	pv	WK	SL	pv	STG	Moderate potassic and biotite pervasive and in blebs. Late, strong quartz-sericite-pyrite overprint of zone.
166.40	167.82	MOD	KF	pv	MOD	CH	vsel	WK	CY	rep	MOD	short interval with weak kfeldspar alteration of the porphyry matrix, overprinted by strong clay replacement of plagioclase lath phenocryst sites.

167.82	220.67	MOD	EZ	pv	MOD	CH	pv	MOD	EZ	blb	MOD	long interval with pervasive biotite alteration, chlorite alteration (some likely after biotite) and locally intense bleby epidote alteration. Possibly silicic overprint of interval.

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
10.67	17.62		ZVE	STK	8	0.4				8								interval dominated by stockwork epidote veining hosting significant chalcopyrite.
17.62	25.30		ZVQ	PLN	4	0.5	80	ZVC	STR	4	0.1							Tabular quartz veins at high angles to the core axis with sulfides (and chalcopyrite) and many calcite stringers of varying orientations
25.30	50.00		ZVE	STK	7	0.4		ZVC	STR	7	0.2		ZVO	STR	0.5	0.1		localized anastamosing epidote stockwork veins host significant chalcopyrite. Less abundant calcite stringers without chalcopyrite or pyrite. Very minor magnetite veinlets observed throughout.
50.00	60.27		ZVQ	PLN	10	0.7	80	ZVC	STR	10	0.2							Tabular quartz veins at moderate to high angles to the core axis contain some chalcopyrite and pyrite. Calcite stringers of many orientations are all barren.
60.27	62.02		ZVQ	STK	12	0.3		ZVCL	STR	12	0.3							Anastmozing stockwork quartz and chlorite veining with minor pyrite on/near the contact between diorite and monzodiorite porphyry.
62.02	65.54		ZVQ	STR	6	0.2				6								Sparse, irregular and variably oriented quartz stringers in interval.
65.54	75.23		ZVQ	PLN	5	1	45	ZVQ	STK	5	0.3		ZVC	STR	1	0.1		larger tabular quartz veins with chaotic quartz stockworking and localized carbonate-iron oxide stringers.
75.23	77.28		ZVQ	STR	1	0.2		ZVCL	HLN	1	0.1							short interval with quartz stringer and more abundant chlorite veinlets, possibly after biotite
77.28	86.65		ZVQ	PLN	5	1	25	ZVQ	STR	5	0.2		ZVCL	HLN	1	0.1		long interval with sparse, thick, tabular quartz vein, sometimes associated with sulfides. Smaller quartz stringers, local hairline chlorite veinlets and carbonate-iron oxide veins also present in interval.
86.65	94.55		ZVC	STR	4	0.2		ZVO	PLN	4	1		ZVCL	HLN	0.5	0.05		abundant quartz-carbonate veinlets with many orientations. Locally abundant clay veining and chlorite spider veinlets also present in interval.
94.55	99.10		ZVQ	PLN	14	0.7	0	ZVC	STR	14	0.2							Abundant, low-angle, tabular quartz veining with hematite on selvages. Abundant, late calcite stringers of many orientations.
99.10	106.47		ZVC	STR	3	0.2		ZVQ	STR	3	0.4		ZVCL	HLN	0.5	0.1		interval with very abundant, variably-oriented calcite veining, sparse quartz stringers and locally abundant chlorite spider veining.
106.47	114.49		ZVQ	PLN	10	0.5	0			10								interval with many/one anastomozing quartz-chlorite-sericite tabular vein at a very low angle to the core axis. Abundant pyrite and less abundant chalcopyrite in the vein and in the selvage.

114.49	118.21	ZVCL	STK	7	0.2	ZVC	FRV	7	0.2						short zone with chlorite-sericite stockwork, varying greatly in orientation, and quartz-carbonate veining on fracture surfaces
118.21	126.19	ZVQ	STK	6	0.2	ZVC	FRV	6	0.2		ZVCL	STK	1	0.1	locally abundant quartz stockwork viening varying in orientation and thickness. . Quartz-carbonate-iron oxide coating fracture surfaces and sparse chlorite spider veinlets, possibly after biotite.
126.19	127.59	ZVO	STK	45	0.5	ZVQ	PLN	45	1	50	ZVCL	STK	3	0.1	zone of extremely abundant clay-pyrite viening (and iron-oxide staining) with tabular quartz on either side. Minor chlorite stringer stockwork also present.
127.59	140.61	ZVCL	STK	3	0.1	ZVQ	STR	3	0.2						Spider chlorite veinlets define the interval with ubiquitous quartz-carbonate vienlets and fracture coatings.
140.61	154.52	ZVQC													lack of chlorite veinlets with ubiquitous quartz-carbonate veinlets and fracture coatings. Very few quartz veins at low angles to the core axis.
154.52	180.21	ZVQ	PLN	8	0.3	ZVCL	STR	8	0.1		ZVQC	STR	2	0.2	quartz stringers of many orientations (some at low angles to core axis) with chlorite spider veinlets and ubiquitous quartz carbonate veinlets and fracture coatings.
180.21	184.88	ZVC	STR	2	0.1	ZVO	STR	2	0.3	45					Carbonate stringers ubiquitous through interval with magnetie veinlets sparse through interval.
184.88	186.51	ZVQ	PLN	7	1.1	ZVCL	STR	7	0.1						small interval with tabular quartz veining with epidote and chlorite on selvages with the ubiquitous late carbonate stringers,
186.51	210.14	ZVQC	STR	3	0.2	ZVE	STK	3	0.2		ZVO	STR	0.3	0.2	interval with locally strong epidote stockworking and sparse epidote stringers, varying greatly in orientation. Ubiquitous quartz-carbonate stringers and tabular veins also present in interval. Very sparse magnetite veinlets also present in interval.
210.14	213.91	ZVQC	STR	3	0.3			3							small interval with quartz-carbonate stringers only.
213.91	220.67	ZVE	STK	5	0.1	ZVQC	STR	5	0.2		ZVCL	STK	1	0.1	abundant pyrite in many vein types through interval. Locally strong epidote stockworking, and chlorite stockworking (different localities) with ubiquitous quartz-carbonate stringers.

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
10.67	17.65	short zone of very little pyrite and abundant chalcopyrite strongly associated with epidote veining. Abundant malachite on fracture surfaces.	CCP	vsel	0.4
			MAL	fsel	0.2
			PY	diss	0.05
17.65	21.40	short interval with bleby chalcopyrte associated with epidote patches, and veined chalcopyrite associated with clay veins. More pyrite than chalcopyrite associated with hairline veining/fracturing.	PY	vsel	0.4
			CCP	vsel	0.2

			CCP	blb	0.1
21.40	25.06	zone with only very sparse, small chalcopyrite observed.	CCP	blb	0.05
25.06	31.95	zone with abundant chalcopyrite associated with sparse epidote veining and blebs.	CCP	vsel	0.3
			CCP	blb	0.2
			MAL	fsel	0.05
			PY	diss	0.05
31.95	37.82	interval with very little chalcopyrite, no pyrite and spotty malachite coating fractures.	CCP	vsel	0.05
			MAL	fsel	0.05
37.82	49.96	long interval of very little dissemintated pyrite with abundant chalcopyrite in blebs and disseminated. Chalcopryite associated with epidote and kfeldspar alteration through interval.	CCP	blb	0.4
			CCP	vsel	0.3
			PY	diss	0.05
49.96	54.44	One small bleb of chalcopyrite associated with a vein, and no observed pyrite.	CCP	vsel	0.05
54.44	59.22	interval with significan chalcopyrite in many forms, predominantly associated with biotite alteration, kfeldspar alteration and quartz veining. One small hairline quartz veinlet with pyrite.	CCP	diss	0.4
			CCP	vsel	0.3
			CCP	blb	0.2
			PY	vsel	0.2
59.22	71.63	Very minimal sulfide associated with veining. Possible molybdenite in quartz veinlet.	PY	diss	0.1
			PY	vsel	0.1
			CCP	vsel	0.05
71.63	72.62	short interval with chalcopyrite associated with tabular quartz veining (B veins) and disseminated pyrite.	PY	diss	0.3
			CCP	vsel	0.1
			PY	vsel	0.1
72.62	106.48	Long interval with very little diffuse/disseminated chalcopyrite and minimal pyrite in many forms. One large, tabular quartz (B) vein with very abundant chalcopyrite in the vein and diffuse in the selvage from 82.18 m to 82.39 m. Vein at 27 degrees to core axis.	CCP	vsel	0.1
			PY	diss	0.1
			PY	vsel	0.1
			PY	blb	0.05
106.48	112.52	interval contains significant pyrite and chalcopyrite on the selvage of a tabular quartz vein(s) (B?) at a very low angle to the core axis.	PY	vsel	0.4
			PY	diss	0.35
			CCP	vsel	0.15
			CCP	diss	0.1
112.52	123.97	minor pyrite in many forms and only very trace chalcopyrite associated with chlorite alteration.	PY	diss	0.2
			PY	vsel	0.1
			CCP	diss	0.05
123.97	125.35	short inteval with relatively abundant chalcopyrite in chlorite and quartz veins and selvages.	PY	diss	0.3
			CCP	vsel	0.2
			PY	vsel	0.2
125.35	131.27	locally very abundant pyrite in clay vein selvages with moderately abundant disseminated pyrite through interval. Very trace disseminated chalcopyrite observed.	PY	vsel	0.4
			PY	diss	0.2

			CCP	diss	0.05
131.27	134.34	short interval with abundant disseminated pyrite, and moderately abundant chalcopyrite associated with micro quartz veinlets.	PY	diss	0.5
			CCP	vsel	0.2
134.34	150.96	interval with very localized minor disseminated chalcopyrite and abundant pyrite in many forms. Chalcopyrite associated with kfeldspar alteration.	PY	diss	0.6
			PY	vsel	0.2
			CCP	diss	0.05
150.96	152.17	short interval with trace disseminated chalcopyrite and abundant disseminated pyrite	PY	diss	0.8
			CCP	diss	0.1
152.17	166.00	interval with very abundant pyrite, and very trace disseminated chalcopyrite observed. Possible very minor vein hosted molybdenite.	PY	diss	0.7
			PY	vsel	0.5
			PY	blb	0.5
			CCP	diss	0.05
166.00	167.80	short interval with very abundant pyrite in many forms, and less abundant chalcopyrite in quartz veins and chlorite stringers.	PY	diss	0.8
			PY	vsel	0.7
			CCP	vsel	0.4
167.80	186.82	long interval with very abundant pyrite in many forms and only very trace chalcopyrite in tabular quartz viens.	PY	diss	0.6
			PY	fsel	0.5
			PY	blb	0.5
			CCP	vsel	0.05
186.82	190.00	interval with small increase in chalcopyrite and significant decrease in pyrite content. Chalcopyrite is associated with tabular quartz veining as well as bleby epidote altertion.	CCP	vsel	0.15
			PY	diss	0.1
			PY	vsel	0.05
190.00	220.67	long interval zoning in and out of strong pyrite (associated with fine-grained diorite intervals) and significant chalcopyrite only in very trace tabular quartz veining.	PY	diss	0.4
			PY	vsel	0.2
			CCP	vsel	0.05

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
10.67	18.95		ZRO	INT								very abundant fracturing near surface with hematite and rare epidote coating surfaces.
18.95	23.82		ZRO	MOD								some iron oxidation fracture coatings and quartz-sericite fracture coatings.
23.82	26.70		ZRO	STG								abundant iron-oxidized fractures with rare quartz-sericite fractures, and some malachite on iron-oxidized fractures.
26.70	30.64		ZRO	MOD								sparse fracturing with malachite and epidote or quartz and sericite coatings.
30.64	32.68		ZRO	WK								sparse iron-oxide and chlorite on hackley fracturing
32.68	37.80		ZRO	INT								Abundant hematite, chlorite, epidote and clay on fracture surfaces. Some intervals reduced to rubble/mush.
37.80	45.54		ZRO	MOD								Rare fractures with quartz-sericite coatings. Sparse iron-oxidized hackley fracturing.
45.54	61.07		ZRO	WK								Very sparse fracturing with quartz coatings
61.07	68.08		ZRO	STG	45							Abundant iron-oxidized, sub-parallel fracturing. Heavy clay and chlorite on some surfaces.
68.08	76.49		ZRO	TR								Carbonate-iron oxide coating on sparse hackley frature surfaces.

76.49	77.54	ZRO	STG	Very abundant fractureing/rubbling. Some surfaces coated with chlorite (after biotite?)
77.54	80.22	ZRO	WK	Quartz veining or carbonate-iron oxide coating on sparse fracture surfaces.
80.22	94.63	ZRO	TR	iron oxide-carbonate coating on very rare fractures. Abundant quartz stringer veining.
94.63	99.10	ZRO	MOD	hematite, chlorite, carbonate and iron oxide on abundant fracture surfaces at very low angles to the core axis.
99.10	106.59	ZRO	WK	carbonate (without iron oxide) on sparse fracture surfaces
106.59	114.44	ZRO	MOD	chlorite, quartz and some hematite on anastomozing fracture surfaces at very low angles to the core axis
114.44	126.17	ZRO	WK	calcite, iron-oxidation and minor chlorite on sparse fracture surfaces.
126.17	129.24	ZRO	MOD	chlorite and localized very heavy iron-oxidation on fracture surfaces
129.24	143.85	ZRO	TR	calcite on low-angle fractures, and other rare fractures. Light iron-oxidation with calcite on a few fracture surfaces.
143.85	155.26	ZRO	MOD	thicker calcite and iron-oxidation on relatively abundant fracture surfaces of many orientations. Rare specular hematite on fracture surfaces.
155.26	220.67	ZRO	WK	calcite, quartz and chlorite coating fracures independently in interval.

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
4.50	ZVCL	4.5	40.0	290.0		65	37	high	chlorite and quartz alteration zones.
51.34	ZVQ	0.4	35.0	327.0		82	63	high	quartz-chlorite stringer
51.64	ZVT	0.5	30.0	43.0		84	126	high	quartz-tuormaline vein
52.05	ZVC	1.5	57.0	203.0		12	358	high	carbonate veinlet
52.46	ZVQ	0.2	35.0	122.0		44	186	high	quartz stringer
53.00	ZVC	0.4	40.0	5.0		81	94	high	hematite-carbonate veinlet
54.04	ZVE	0.3	60.0	47.0		55	116	high	epidote stringer
55.05	ZVQ	2.1	60.0	47.0		55	117	high	quartz-carbonate-chlorite tabular vein
55.81	ZRO	0.001	30.0	172.0		30	256	high	hematite-chlorite fracture surface
56.95	ZVC	0.3	20.0	85.0		75	166	high	chlorite-carbonate stringer
57.43	ZVQ	1.5	20.0	85.0		75	166	high	quartz-chalcopyrite-carbonate tabular vein
57.67	ZVQ	0.3	65.0	326.0		53	73	high	quartz veinlet
57.74	ZVQ	0.3	50.0	280.0		53	38	high	quartz veinlet
57.85	ZVQ	0.3	25.0	155.0		39	233	high	quartz veinlet
57.96	ZVCL	0.65	60.0	60.0		52	124	high	chlorite hairline veinlet
58.51	ZVCL	1.5	35.0	78.0		66	152	high	chlorite hairline zone
58.64	ZVQ	0.3	60.0	270.0		42	42	high	hairline quartz-carbonate veinlet
69.23	ZVQ	0.3	40.0	180.0		19	273	high	quartz stringer
69.90	ZVQ	0.2	40.0	120.0		42	183	high	hairline quartz stringer
70.11	ZVQ	3	29.0	290.0		75	34	high	thick, tabular quartz vein with chlorite and sericite in selvage
70.48	ZVQ	0.6	67.0	332.0		52	79	high	tabular quartz pyrite vein with chlorite in selvage
70.77	ZVQ	0.2	45.0	52.0		67	130	high	quartz chlorite stringer
71.00	ZVO	0.2	15.0	42.0		82	313	high	Hematie stringer with possible chlorite
72.60	ZVQ	0.5	30.0	325.0		86	63	high	large tabular quartz vein with chalcopyrie and pyrite in center
73.05	ZVCL	0.2	50.0	168.0		12	231	high	chlorite veinlet

73.57	ZVQ	1	43.0	101.0	49	165	high	quartz stockworking with chlorite selvage
73.83	ZVO	0.2	30.0	280.0	69	27	high	sericite veinlet with sub-parallel carbonate veinlet
74.60	ZVCL	0.3	60.0	350.0	60	87	high	fuzzy chlorite-sericite veinlet
75.30	ZVT	0.1	27.0	90.0	67	168	high	tourmaline stringer
75.86	ZRO	0.3	40.0	63.0	68	140	high	caltie-iron oxide-hematite coating on fracture surface. Many parallel.
80.43	ZVCL	0.5	40.0	357.0	81	90	high	fuzzy chlorite vein.
80.49	ZVQ	0.5	42.0	355.0	79	89	high	tabular quartz-sericite vein, anastomozing.
82.32	ZVQ	3.2	27.0	285.0	74	29	high	thick, tabular quartz vein with chlorite selvage with abundant chalcopyrite and pyrite.
82.84	ZRO	0.001	15.0	318.0	82	232	high	calcite-chlorite coating on fracture surface.
85.01	ZVO	0.1	37.0	52.0	75	133	high	hematite veinlet (many sub-parallel)
85.53	ZVO	0.2	35.0	140.0	36	208	high	sericite veinlet
86.22	ZVCL	0.3	13.0	333.0	76	246	high	fuzzy chlorite veining (many sub-parallel)
86.54	ZVQ	0.5	32.0	340.0	87	76	high	large tabular quartz vein with pyrite. Sub parallel chlorite-sericite-hematite fuzzy feining.
87.33	ZVQ	0.2	40.0	54.0	71	134	high	Quartz-sericite vein
88.23	ZVC	0.3	35.0	42.0	79	127	high	carbonate-hematite spider veining.
89.14	ZVCL	0.3	45.0	300.0	65	50	high	chlorite-hematite fuzzy veinlet.
89.54	ZVCL	0.2	50.0	80.0	53	145	high	hematite-chlorite spider veining.
89.60	ZVQ	0.5	30.0	27.0	88	116	high	quartz-sericite vein with hematite on selvage.
89.88	ZVCL	1.2	35.0	299.0	73	44	high	chlorite spider veining
90.77	ZVCL	0.2	35.0	115.0	48	183	high	hematite-chlorite-clay veinlet
91.23	ZVO	0.3	40.0	342.0	80	79	high	fuzzy clay-hematite vein
93.40	ZVO	0.1	25.0	223.0	45	333	high	hematite (chlorite) hairline veinlet.
93.55	ZRO	0.001	70.0	28.0	49	105	high	unmineralized fracture surface.
93.65	ZVC	1	40.0	310.0	72	55	high	carbonate-chlorite-sericite veinlet with fuzzy selvages.
94.49	ZVQ	0.5	28.0	50.0	83	136	high	quartz stringer with hematite.
94.96	ZVQ	0.3	58.0	262.0	40	38	high	tabular quartz vein with minimal pyrite on selvage.
97.99	ZRO	0.001	8.0	205.0	55	304	high	chlorite-clay coating fracture surface.
98.18	ZVQ	0.9	62.0	276.0	43	49	high	tabular quartz vein with chalcopyrite on selvages.
98.47	ZRO	0.001	15.0	257.0	71	359	high	carbonate-iron oxide-chlorite on fracture surface.
98.88	ZVQ	0.3	40.0	63.0	68	140	high	quartz-sericite-chlorite veinlet with sub-parallel carbonate veinlets.
99.04	ZVCL	0.1	45.0	260.0	48	23	high	fuzzy, chlorite-clay veinlet
99.36	ZVCL	0.1	35.0	288.0	69	36	high	fuzzy chlorite veinlet.
99.44	ZVQ	0.3	50.0	203.0	16	337	high	quartz stringers. Many sub-parallel
100.27	ZVQ	0.001	20.0	211.0	45	316	high	anastomozing, tabular quartz-sericite-chlorite-hematite vein (with possible carbonate)
101.16	ZVQ	1.2	25.0	215.0	42	324	high	anastomozing quartz-carbonate-hematite vein
101.55	ZVC	0.001	25.0	70.0	78	153	high	carbonate-chlorite-clay fracture coating.
102.27	ZVCL	1.1	60.0	70.0	49	131	high	localized chlorite brecciation.
103.41	ZVQ	0.2	70.0	206.0	15	58	high	hairline quartz veinlet
103.52	ZVQ	0.7	15.0	37.0	80	309	high	tabular quart vein, possibly molybdenite on selvage.
103.91	ZRO	0.3	20.0	135.0	51	214	high	chlorite-sericite/clay-hematite on fracture selvage.
108.14	ZVCL	0.3	30.0	27.0	88	116	high	hairline chlorite veinlet, anastomozing/erratic.
108.56	ZVQ	0.2	10.0	257.0	75	357	high	tabular quartz-pyrite-hamatite-clay/sericite vein with minor chalcopyrite.

109.45	ZVQ	0.2	20.0	275.0	75	17	high	quartz-chlorite-hematite stringer.
109.80	ZVCL	0.5	25.0	7.0	85	279	high	chlorite vein
109.85	ZVO	1.2	12.0	57.0	85	328	high	anastomozing hemaite-pyrite-sericite-clay vein.
111.00	ZVQ	1.3	7.0	62.0	82	335	high	biotite-quartz vuggy anastomozing veining.
112.12	ZVCL	0.2	48.0	28.0	70	112	high	hairline chlorite
113.66	ZVQ	1.1	10.0	247.0	70	348	high	comb quartz-chlorite at low angle.
114.72	ZVCL	0.3	25.0	63.0	81	148	high	hairline chlorite vein
115.51	ZVQ	0.1	55.0	32.0	63	113	high	quartz-chlorite stringer
130.04	ZVCL	0.1	70.0	303.0	44	69	high	hematite-chlorite spider veinlets.
130.05	ZVQ	0.4	50.0	278.0	52	39	high	tabular quartz-pyrite vein
130.14	ZVQ	0.3	22.0	195.0	39	295	high	tabular quartz-stringer
130.42	ZVCL	5	48.0	5.0	73	96	high	biotite-chlorite alteration zone
130.47	ZVO	1.75	2.0	47.0	72	323	high	chalcedonic vein??? Banded and brecciating zone.
131.10	ZVQ	0.3	10.0	21.0	71	295	high	quartz-chlorite stringer.
131.46	ZVQ	0.2	20.0	10.0	80	282	high	quartz-carbnate-hematite stringer.
131.95	ZVQ	0.15	25.0	70.0	78	153	high	quartz-hematite-chalcopyrite stringer.
131.96	ZVQ	0.3	50.0	283.0	54	42	high	tabular quartz-chalcopyrite veinlet.
132.10	ZVQ	0.1	45.0	78.0	58	148	high	quartz-hematite-chalcopyrite stringer.
132.75	ZVCL	2.3	25.0	320.0	89	57	high	chalcopyrite in chlorite-biotite spider veinlet zone
133.33	ZVQ	0.2	12.0	195.0	49	292	high	quartz-carbonate-hematite stringer
133.44	ZVQ	0.1	46.0	37.0	70	119	high	quartz stringer with trace chalcopyrite.
137.81	ZRO	0.001	29.0	127.0	47	199	high	carbonate-pyrite on fracture surface.
139.22	ZVCL	1.2	42.0	317.0	73	60	high	chlorite-clay-pyrite zone.
139.50	ZVQ	0.3	60.0	270.0	42	44	high	tabular quartz vein.
140.14	ZVCL	0.3	49.0	109.0	41	164	high	chlorite-pyrite spider veining with many sub-parallel veins.
140.55	ZVCL	0.5	73.0	78.0	38	120	high	chlorite-sericite spider veining zone with many sub-parallel zones.
141.47	ZVCL	0.2	52.0	353.0	68	87	high	stockwork-spider chlorite veining.
141.57	ZVQ	0.3	47.0	292.0	60	45	high	tabulare quartz-pyrite vein.
143.14	ZVQ	0.6	60.0	337.0	59	79	high	quartz-sericite-carbonate-pyrite-chlorite stringer.
144.00	ZVQ	0.2	21.0	47.0	89	315	high	quartz stringer.
144.68	ZVC	0.15	52.0	22.0	67	106	high	hematite-carbonate stringer/hairline.
146.00	ZVC	0.3	7.0	210.0	57	308	high	vuggy carbonate on fracture surface.
146.13	ZVCL	0.5	26.0	320.0	88	57	high	chlorite stringer.
146.72	ZVQC	0.2	25.0	244.0	56	353	high	quartz-carbonate fracture coating.
147.18	ZVQC	0.1	25.0	215.0	42	323	high	quartz-carbonate stringer.
149.30	ZVCL	0.1	29.0	328.0	88	64	high	chlorite-pyrite hairline fracture.
163.69	ZVQ	0.3	18.0	15.0	78	285	high	anastomozing quartz-pyrite stringer.
163.72	ZVQ	0.2	65.0	85.0	40	131	high	quartz-carbonate hematite hairline veinlet.
164.20	ZVQ	1.3	23.0	92.0	69	170	high	quartz-sericite-chlorite spider stockwork zone
165.04	ZVT	7	52.0	45.0	63	120	high	tourmaline-quartz-chlorite spider veinlet zone with pyrite.
165.35	ZVT	0.5	63.0	270.0	40	45	high	quartz-sericite-pyrite tabular vein.
165.38	ZVQ	0.3	63.0	52.0	51	118	high	quartz-sericite stringer.

166.24	ZVQ	0.3	15.0	3.0	75	274	high	vuggy quartz-carbonate stringer.
166.80	ZVQ	3.5	35.0	330.0	82	66	high	quartz-tuormaline-magnetite-calcite-chlorite veining zone with abundant pyrite and less abundant chalcopyrite
167.33	ZVCL	0.5	24.0	345.0	84	257	high	chlorite-pyrite-chalcopyrite stockwork veining
167.64	ZVQ	0.1	45.0	313.0	69	57	high	quartz-chlorite stringer with pyrite and trace chalcopyrite.
168.52	ZRO	0.3	17.0	182.0	43	273	high	carbonate fracture coating.
169.15	ZVC	0.2	39.0	335.0	79	71	high	carbonate stringer.
170.54	ZVQ	0.6	42.0	189.0	18	292	high	tabular quartz vein with pyrite.
170.78	ZVE	0.1	30.0	330.0	87	65	high	epidote-chlorite stringer.
171.14	ZVC	0.3	14.0	210.0	51	309	high	vuggy carbonate-hematite veinlet.
171.27	ZVC	0.2	50.0	27.0	68	108	high	anastomozing carbonate-hematite veinlet.
172.51	ZVC	0.1	25.0	3.0	85	273	high	carbonate veinlet.
173.62	ZRO	0.2	27.0	351.0	87	262	high	carbonate fracture coating.
175.50	ZRO	0.5	33.0	47.0	80	128	high	chlorite-carbonate hematite on fracture
176.00	ZVC	0.05	29.0	21.0	90	108	high	hariline carbonate veinlet.
176.82	ZVC	0.4	25.0	22.0	86	290	high	carbonate veinlet.
176.98	ZVE	3	62.0	310.0	53	63	high	epidotized zone with pyrite.
177.00	ZRO	0.001	10.0	320.0	77	229	high	carbonate on fracture surface.
179.30	ZVC	0.4	34.0	49.0	78	129	high	vuggy carbonate-chlorite vein.
181.19	ZVCL	0.5	36.0	60.0	72	137	high	Magnetite-chlorite-pyrite stringer vein.
181.84	ZVCL	2.3	29.0	63.0	78	142	high	Magnetite-chlorite-pyrite spider stockwork zone.
183.47	ZVE	0.3	42.0	130.0	35	187	high	epidote stringer
183.51	ZVC	0.3	42.0	289.0	63	37	high	carbonate-clorite veinlet.
185.00	ZVE	10	58.0	73.0	49	131	high	epidote zone with quartz veining.
185.56	ZVQ	3.2	70.0	230.0	23	47	high	quartz-sericite-chlorite-pyrite tabular vein.
185.84	ZVQ	0.1	70.0	15.0	50	96	high	quartz hairline fracture.
186.04	ZVQ	0.4	43.0	83.0	57	149	high	magnetite-quartz-carbonate-hematite stringer
186.41	ZVE	5	40.0	53.0	71	129	high	epidote-chlorite-tourmaline-quartz zone
188.49	ZVE	0.2	15.0	301.0	88	213	high	epidote-chlorite stringer.
189.03	ZVQ	0.3	72.0	246.0	28	52	high	tabular quartz-carbonate-pyrite vein.
189.42	ZRO	0.001	30.0	38.0	85	121	high	carbonate coating on fracture surface
189.56	ZVC	0.2	18.0	230.0	55	332	high	carbonate hairline veinlet
190.80	ZVE	0.6	25.0	352.0	85	262	high	early, anastomosing epidote veinlet.
191.04	ZVC	0.2	19.0	275.0	76	13	high	carbonate veinlet.
193.07	ZVE	0.65	35.0	335.0	83	68	high	early epidote vein.
193.60	ZVE	1.5	40.0	182.0	20	273	high	epidote-chlorite zone.
194.21	ZVCL	0.9	50.0	18.0	69	101	high	magnetite-chlorite-pyrite vein/zone.
194.59	ZRO	0.001	78.0	128.0	25	112	high	chlorite-hematite-pyrite-calcite on fracture surface.
196.15	ZVCL	4.3	60.0	187.0	4	9	high	chlorite fracture zone, many parallel.
197.00	ZVC	0.7	55.0	256.0	39	26	high	carbonate-hematite tabular stringer.
197.07	ZVO	0.3	28.0	211.0	38	316	high	magnetite veinlet
197.57	ZVCL	0.3	80.0	183.0	20	87	high	chlorite-carbonate-pyrite stringer
198.18	ZRO	0.001	25.0	47.0	87	130	high	chlorite-carbonate on fracture surface

199.07	ZVQ	0.3	32.0	314.0	81	50	high	quartz-carbonate-chlorite vein.
199.14	ZVC	0.05	42.0	45.0	72	122	high	carbonate veinlet
199.93	ZVQ	0.5	22.0	309.0	88	42	high	quartz-sericite-pyrite tabular vein.
200.00	ZVE	0.9	35.0	332.0	83	66	high	early epidote vein.

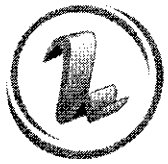
Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
10.00	18.00	411484	CORE_HALF	2637.66	76.8	7.28	2.94	41.9	26.2	1.664	5700	0.015	0.23	3.2	0.11
18.00	20.00	411485	CORE_HALF	1974.9	57.6	22.38	4.46	56.4	29.2	1.513	11600	0.019	0.34	2.92	0.18
20.00	22.00	411486	CORE_HALF	2884.97	63.7	61.2	4	54.9	16.5	2.012	5400	0.025	0.25	0.97	0.16
22.00	24.00	411487	CORE_HALF	739.79	20.4	16.74	2.87	63.8	8.5	0.461	11200	0.008	0.11	0.43	0.07
24.00	26.00	411488	CORE_HALF	2541.67	60.4	43.12	5.27	59.2	76.1	2.192	7000	0.019	0.75	8.98	0.1
26.00	28.00	411489	CORE_HALF	333.47	11.1	12.68	1.74	59.4	10	0.266	11200	0.005	0.15	1.4	0.01
28.00	30.00	411490	CORE_HALF	1420.75	41.8	1.55	2.36	53	8.5	1.341	5600	0.009	0.15	0.83	0.06
30.00	32.00	411491	CORE_HALF	662.76	21.1	3.22	1.88	66.4	9.1	0.635	16300	0.009	0.18	0.85	0.03
32.00	34.00	411492	CORE_HALF	464.94	30.9	2.93	2.4	53.4	9.4	0.424	4200	-0.005	0.14	0.7	0.03
34.00	36.00	411493	CORE_HALF	777.63	21.6	3.16	2.58	56.3	9.3	0.909	12100	0.009	0.23	0.72	0.02
36.00	38.00	411494	CORE_HALF	1126.93	24.8	4.68	1.84	39.9	10.9	0.735	3300	0.017	0.15	1.26	0.02
38.00	40.00	411495	CORE_HALF	2580.18	63	7.22	2.74	50.5	7	1.699	11500	0.007	0.2	0.88	0.2
40.00	42.00	411496	CORE_HALF	1625.19	30.5	7.06	2.82	46.6	7.1	1.133	5000	0.01	0.18	0.56	0.09
42.00	44.00	411497	CORE_HALF	2265.98	41.9	15.56	2.64	53.9	7.7	1.994	6400	0.005	0.28	0.74	0.12
44.00	46.00	411498	CORE_HALF	1024.18	23.5	74.59	2.62	44	7.4	0.924	6000	0.011	0.15	0.51	0.09
46.00	48.00	411499	CORE_HALF	1057.73	26.1	80.78	3.2	48.9	7.9	0.737	4400	0.02	0.12	0.9	0.09
48.00	50.00	466001	CORE_HALF	471.83	22.5	41.11	2.77	44	7.9	0.444	6100	0.007	0.1	0.65	0.04
50.00	52.00	466002	CORE_HALF	236.2	5.8	21.69	5.16	38	31	0.214	7000	-0.005	0.37	3.65	0.02
52.00	54.00	466003	CORE_HALF	307.83	11	11.79	2.4	47.7	28.5	0.242	5800	0.006	0.11	1.02	0.03
54.00	56.00	466004	CORE_HALF	655.58	14	8.32	2.55	57.2	12	0.607	7400	-0.005	0.18	0.81	0.05
56.00	58.00	466005	CORE_HALF	2530.75	43.7	326.93	4.32	50.8	142.3	1.933	6100	0.018	0.37	8.06	0.27
58.00	60.00	466006	CORE_HALF	1999.39	34.2	136.9	4.42	45.9	416.4	1.793	6000	0.069	0.19	1.78	0.17
60.00	62.00	466007	CORE_HALF	1614.38	30	108.22	3.34	56.4	309.3	1.465	3800	6.013	0.33	40.72	0.25
62.00	64.00	466008	CORE_HALF	46.15	19.5	14.94	2.7	37.6	16.7	0.134	4100	0.628	0.23	4.95	0.49
64.00	66.00	466009	CORE_HALF	131.52	27.4	37.16	3.04	45.1	24.8	0.197	3800	1.236	0.41	10.97	1.17
66.00	68.00	466010	CORE_HALF	770.97	12.9	26	3.55	65.5	29.7	0.56	5300	2.797	0.05	46.18	0.06
68.00	70.00	466011	CORE_HALF	144.08	18.6	9.39	3.84	52.4	14.5	0.204	5500	0.306	0.23	3.83	0.25
70.00	72.00	466012	CORE_HALF	236.97	10.9	28.74	2.39	30.9	21.9	0.306	4300	0.48	0.15	5.44	0.24
72.00	74.00	466013	CORE_HALF	176.96	10.1	37.14	2	29.3	14.5	0.195	2600	0.201	0.14	6.06	0.24
74.00	76.00	466014	CORE_HALF	115.01	8.4	49.31	2.52	33.9	12.8	0.124	5100	0.073	0.15	2.2	0.14

76.00	78.00	466015	CORE_HALF	105.07	8.4	49.6	3.19	32.1	5.9	0.169	3900	0.082	0.14	1.59	0.15
78.00	80.00	466016	CORE_HALF	40.94	33.2	58.22	3.39	36.3	8.8	0.115	3200	0.219	0.13	2.13	0.2
80.00	82.00	466017	CORE_HALF	47.79	14.4	8.36	2.63	30.6	9	0.102	2200	0.15	0.12	4	0.21
82.00	83.00	466018	CORE_HALF	8278.56	134.5	30.73	4.29	33.1	218.4	4.84	3700	0.067	0.48	14.72	1.04
83.00	84.00	466019	CORE_HALF	38.62	7.5	12.5	4.01	27.3	6.6	0.078	3900	0.029	0.06	0.42	0.11
84.00	86.00	466021	CORE_HALF	267.92	58.6	5.65	3.33	36.2	14	0.467	5700	0.017	0.13	2.21	0.15
86.00	88.00	466022	CORE_HALF	98.32	13.8	3.87	3.47	39.4	7.7	0.122	5000	0.044	0.1	1.04	0.09
88.00	90.00	466023	CORE_HALF	102.12	13.3	0.94	3.84	35.9	8.2	0.125	5700	0.015	0.07	0.96	0.09
90.00	92.00	466024	CORE_HALF	193.34	22.8	1.22	4.03	50.3	13.9	0.216	7200	0.087	0.14	6.31	0.07
92.00	94.00	466025	CORE_HALF	99.8	15.6	1.71	5.67	45.9	13	0.149	6300	0.276	0.13	3.3	0.18
94.00	96.00	466026	CORE_HALF	64.06	11.5	7.72	4.38	35.8	8.6	0.109	3800	0.414	0.1	2.51	0.13
96.00	98.00	466027	CORE_HALF	290.96	9.1	6.67	5.48	45.6	31	0.272	5400	1.156	0.12	20.07	0.13
98.00	100.00	466028	CORE_HALF	109.84	16.3	31.12	3.71	39.9	12.7	0.269	3200	0.44	0.27	6.24	0.22
100.00	102.00	466029	CORE_HALF	100.27	6.9	1.65	3.5	40.9	10.6	0.112	5600	0.105	0.08	2.9	0.09
102.00	104.00	466030	CORE_HALF	75.85	10	0.7	4.25	40.4	9.2	0.104	3900	0.015	0.07	1.38	0.04
104.00	105.00	466031	CORE_HALF	89.25	7.6	1.01	4.3	38.4	11.4	0.174	3600	0.205	0.08	4.15	0.07
105.00	106.00	466032	CORE_HALF	261.04	15.4	90.44	4.86	39.3	17.8	0.207	3300	1.461	0.1	9.21	0.09
106.00	107.00	466033	CORE_HALF	4760.28	804	1102.06	4.06	43.5	91.9	2.913	1900	0.93	0.48	30.65	0.88
107.00	108.00	466034	CORE_HALF	4645.5	812.6	643.33	3.45	33.8	87.1	2.357	1700	0.13	0.3	14.96	0.77
108.00	110.00	466035	CORE_HALF	2406.99	191.3	355.91	4.54	34.3	148.3	1.444	2500	0.294	0.34	60.57	0.69
110.00	112.00	466036	CORE_HALF	1548.82	61.7	269.7	8.47	40.5	63.2	1.78	2000	12.917	0.9	88.09	0.72
112.00	114.00	466037	CORE_HALF	327.61	21	76.81	3.93	32.2	42.7	0.445	2800	1.195	0.18	21.93	0.23
114.00	116.00	466038	CORE_HALF	753.79	49.4	115.74	3.4	37.2	54.7	0.55	2100	1.959	0.23	42.55	0.33
116.00	118.00	466039	CORE_HALF	127.12	42.4	135.67	2.6	24.4	19.6	0.253	2400	0.282	0.14	13.31	0.19
118.00	120.00	466041	CORE_HALF	109.43	18.2	55.66	2.54	28.3	12.6	0.202	3900	0.398	0.18	11.9	0.54
120.00	122.00	466042	CORE_HALF	1266.28	41.8	30.6	3.5	41.1	84.4	0.885	2100	2.859	0.24	82.36	0.43
122.00	124.00	466043	CORE_HALF	339.82	43.7	217.96	3.86	27.2	17.9	0.255	3100	0.162	0.25	7.74	0.42
124.00	126.00	466044	CORE_HALF	1271.05	91.5	122.61	3.12	32.1	30.5	0.959	2600	0.123	0.24	5.32	0.55
126.00	128.00	466045	CORE_HALF	343.72	68.6	406.62	4.44	20.1	25.4	0.415	4100	0.606	1.13	15.39	0.93
128.00	130.00	466046	CORE_HALF	784.18	51.5	28.64	13.99	67.8	67	0.73	3500	29.403	0.65	104.13	1.14
130.00	131.50	466047	CORE_HALF	592.86	47.9	33.32	4.51	38.9	31.7	0.597	4300	4.071	0.35	31.14	0.46
131.50	133.00	466048	CORE_HALF	1233.89	58	139.17	2.63	37.8	58.2	0.993	2100	0.406	0.3	3.38	0.38
133.00	135.00	466049	CORE_HALF	1317.77	91.1	106.96	2.12	31	133.4	0.963	2800	0.067	0.19	1.43	0.21
135.00	137.00	466050	CORE_HALF	330.3	29.3	152.37	2.36	31.4	63.3	0.294	2500	0.087	0.39	1.35	0.99
137.00	139.40	466051	CORE_HALF	268.98	23.8	38.91	2.26	34.2	19.7	0.236	3900	0.02	0.32	0.46	0.83
139.40	141.00	466052	CORE_HALF	1031.61	106.7	65.33	4.76	23.9	91.8	0.82	2700	0.015	0.33	4.93	0.97

141.00	143.00	466053	CORE_HALF	906.4	62.7	40.36	2.09	30.3	100.8	0.662	3800	-0.005	0.23	0.55	0.58
143.00	145.00	466054	CORE_HALF	878.68	58.3	72.82	2.29	34.9	19	0.713	2700	-0.005	0.29	0.44	0.57
145.00	147.00	466055	CORE_HALF	609.58	51.8	82.03	2.29	33	13.1	0.504	3700	0.007	0.46	0.47	1.12
147.00	149.00	466056	CORE_HALF	201.57	36.8	82.57	3.51	39.2	10.8	0.21	4700	0.013	0.39	0.58	1.21
149.00	151.00	466057	CORE_HALF	843.96	83.7	308.88	3.07	35.2	12.6	0.651	2900	0.011	0.33	0.31	0.8
151.00	153.00	466058	CORE_HALF	1950.12	256.8	147.87	4.71	33.4	9.1	1.386	2900	0.005	0.33	0.35	1.17
153.00	155.00	466059	CORE_HALF	1192.76	107.7	197.71	4.37	34.1	24.1	0.961	3000	0.012	0.46	0.65	1.89
155.00	156.70	466061	CORE_HALF	2001	142.9	400.02	3.5	33.4	36.4	1.665	3200	0.021	0.41	0.58	1.13
156.70	158.00	466062	CORE_HALF	71.04	27.5	195.56	3.84	25.4	17.8	0.776	3000	2.645	0.43	10.95	1.07
158.00	160.00	466063	CORE_HALF	683.96	72.1	388.15	4.04	28.9	27.2	0.755	3100	0.217	0.42	8.21	1.71
160.00	162.00	466064	CORE_HALF	1101.28	176.5	255.57	2.91	28.6	24.7	1.311	3400	0.041	0.39	0.51	1.7
162.00	164.00	466065	CORE_HALF	485.48	205.4	82.95	2.89	25.5	27.6	1.098	3800	0.007	0.44	0.54	1.64
164.00	166.00	466066	CORE_HALF	279.09	57.8	227.45	4.21	32.9	39.9	0.753	4100	0.168	0.53	6.81	1.22
166.00	167.00	466067	CORE_HALF	3820.05	207.6	497.14	370.46	151.2	262.4	9.665	5000	1.52	1.42	202.58	4.6
167.00	168.00	466068	CORE_HALF	8443.38	356.5	354.18	19.08	60.5	120.5	15.335	2700	0.016	0.89	13.18	6.37
168.00	169.00	466069	CORE_HALF	169.18	75.5	628.51	4.31	43.6	21.7	0.355	4000	0.012	0.49	1.89	3.58
169.00	171.00	466070	CORE_HALF	341.6	82.4	182.06	3.16	49.2	10.8	0.371	4800	0.011	0.34	1.1	1.37
171.00	173.00	466071	CORE_HALF	319.84	114.1	184.84	2.72	42.6	11.7	0.318	5200	0.008	0.41	0.67	1.38
173.00	175.00	466072	CORE_HALF	550.84	67.4	81.84	2.69	39.2	7.9	0.475	4100	0.009	0.32	0.64	0.73
175.00	177.00	466073	CORE_HALF	2930.84	178.9	49.76	2.56	47.4	11.2	2.432	4000	-0.005	0.41	0.59	1.33
177.00	178.00	466074	CORE_HALF	98.79	28.8	10.93	1.66	40.7	9.4	0.111	4100	-0.005	0.23	0.46	0.64
178.00	179.00	466075	CORE_HALF	42.21	8.6	3.79	1.83	45	14.1	0.071	4600	-0.005	0.32	0.64	0.81
179.00	180.00	466076	CORE_HALF	42.62	5.5	4.68	1.71	36.4	9.6	0.044	4000	-0.005	0.18	0.61	0.45
180.00	181.00	466077	CORE_HALF	57.74	10.8	2.1	1.63	47.5	15.1	0.069	13500	0.005	0.49	0.38	1.87
181.00	182.00	466078	CORE_HALF	134.36	20.3	2.22	1.69	52.5	21.9	0.132	22300	-0.005	0.49	0.28	2.08
182.00	183.00	466079	CORE_HALF	163.21	28.2	3.86	2.33	51.8	31.9	0.146	15500	0.007	0.77	0.29	3.38
183.00	184.00	466081	CORE_HALF	63.18	12.2	5.56	1.87	44.5	18.4	0.097	9400	-0.005	0.24	0.45	1.07
184.00	186.00	466082	CORE_HALF	86.69	17.7	3.68	2.69	35.9	19.4	0.127	8700	-0.005	0.84	0.68	2.17
186.00	188.00	466083	CORE_HALF	330.36	49	8.22	2.65	44.6	10.7	0.27	8900	-0.005	0.28	0.87	0.4
188.00	190.00	466084	CORE_HALF	178.07	23.7	5.8	1.46	46.2	9.3	0.16	13400	-0.005	0.11	0.38	0.13
190.00	192.00	466085	CORE_HALF	186.42	20.2	7.59	2.11	43.3	9.9	0.157	8600	-0.005	0.21	0.48	0.36
192.00	194.00	466086	CORE_HALF	135.37	10.3	18.8	2.07	47.1	7.9	0.131	9400	-0.005	0.15	0.47	0.37
194.00	196.00	466087	CORE_HALF	194	10.7	30.29	1.69	40.3	7.4	0.164	11300	0.005	0.19	0.47	0.33
196.00	198.00	466088	CORE_HALF	255.82	18.8	7.69	1.06	48	18.4	0.222	18800	-0.005	0.51	0.35	0.99
198.00	200.00	466089	CORE_HALF	93.35	11.3	2.7	2.79	35.5	7.5	0.093	6300	-0.005	0.13	0.26	0.11
200.00	202.00	466090	CORE_HALF	123.05	90.5	22.73	2.54	38.1	9	0.119	9300	-0.005	0.19	0.66	0.24

202.00	203.00	466091	CORE_HALF	218.64	23.3	1.7	2.25	59.9	20.5	0.198	19600	-0.005	0.31	0.32	0.99
203.00	205.00	466092	CORE_HALF	126.46	16.2	1.02	1.98	53.7	12.9	0.099	20800	-0.005	0.19	0.38	0.94
205.00	207.00	466093	CORE_HALF	464.92	40.6	3.54	2.88	49.1	16.9	0.353	10900	-0.005	0.51	0.63	2.52
207.00	209.00	466094	CORE_HALF	116.33	21.4	3.62	2.82	47.8	18.9	0.126	5500	-0.005	0.43	0.8	2.2
209.00	210.00	466095	CORE_HALF	162.67	25.9	2.35	2.5	58.5	28.4	0.164	9000	0.007	0.51	0.32	2.35
210.00	211.00	466096	CORE_HALF	356.96	37.2	1.28	3.1	61.7	31.3	0.255	3700	-0.005	0.44	0.35	3.41
211.00	213.00	466097	CORE_HALF	75.54	14.8	4.16	1.86	37.4	12.4	0.072	1900	-0.005	0.17	0.23	0.46
213.00	214.00	466098	CORE_HALF	194.94	20.5	16.21	2.07	37.8	12.1	0.144	2300	0.007	0.18	0.34	0.65
214.00	215.00	466099	CORE_HALF	437.34	48.4	6.12	3.23	54.6	20.1	0.402	11100	0.005	0.6	0.35	2.03
215.00	217.00	466101	CORE_HALF	85.93	10.9	4.05	3.29	39.6	9.4	0.118	4900	-0.005	0.21	0.79	0.48
217.00	218.00	466102	CORE_HALF	109.98	9.6	6.61	1.77	55.5	11.7	0.101	10500	-0.005	0.13	0.4	0.35
218.00	219.00	466103	CORE_HALF	548.43	17.6	2.3	2.8	61.8	9.8	0.569	16800	-0.005	1.19	0.39	0.23
219.00	220.67	466104	CORE_HALF	85.45	5.6	0.88	2.55	45.8	8.4	0.062	6900	-0.005	0.08	0.78	0.03



Geoinformatics Exploration Inc

GEOINFORMATICS EXPLORATION
DRILL HOLE LOG

RZ06_07

Collar

Hole ID	RZ06_07	*Hole type*	DD		*Drilling company*		*Grid ID*	NAD83_UTM_10	
DataSet	GXL_REDTON_2006	*Depth*	371.25	m	*Geologist*		*Easting*	354440.00	*RL* 1620.00 m
Prospect	Red Zone	*Commenced*	26/09/2006		*Survey Method*		*Northing*	6171450.00	
Tenement		*Completed*	30/09/2006		*Notes*				

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
0.00	m	270.0	NAD83_UTM	-60.0	COMPASS	
66.45	m	269.8	NAD83_UTM	-60.7	CAMERA	
127.41	m	270.0	NAD83_UTM	-61.0	CAMERA	
188.37	m	272.5	NAD83_UTM	-60.9	CAMERA	
249.33	m	270.9	NAD83_UTM	-60.5	CAMERA	
310.29	m	276.6	NAD83_UTM	-59.6	CAMERA	
371.25	m	263.7	NAD83_UTM	-58.3	CAMERA	

Lithology

Logged by: Robin_McQuinn

			Lith 1						*Lith 2*					
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	10.97	CASE												
10.97	10.98	IIDM	M	at	eq		100							
10.98	24.34	IIDP	M	at	pp		100							
24.34	55.05	IIDM	M	at	eq		100							
55.05	64.42	IIMP	C	at	pp		100							
64.42	153.82	IIDM	M	at	pp	eq	100							
153.82	155.91	IIDP	C	at	pp		50	IID	M	at	pp		50	
155.91	166.18	IIDM	M	at	pp	eq	100							
166.18	167.60	IIDP	C	at	pp		100							
167.60	179.70	IIDM	M	at	pp	eq	100							
179.70	182.90	IIQP	C	pp			100							

182.90	186.21	IIDM	M	at	pp	eq	100
186.21	201.30	IIQP	C	pp			100
201.30	204.95	IIDM	M	at	pp	eq	100
204.95	209.92	IIQP	C	pp			100
209.92	212.63	IIDM	M	at	pp	eq	100
212.63	221.12	IIQP	C	pp			100
221.12	222.27	VFRD	F	at			100
222.27	237.25	IIDM	M	at	pp	eq	100
237.25	242.85	IIQP	C	pp			100
242.85	244.65	IIDM	M	at	eq		100
244.65	247.95	IIIP	m	pp	pp		100
247.95	328.00	IIDM	M	at	eq		100
328.00	344.15	IIDM	F	bx	bx		100
344.15	370.00	IIDM	F		eq		100
370.00	370.70	IIDP	m		pp		100
370.70	371.25	IIDM	F		eq		100

Lithology

Logged by: Robin_McQuinn

From	*To m*	*Description*
0.00	10.97	
10.97	10.98	very altered, very short segment before the end of the casing.
10.98	24.34	variably altered plagioclase porphyritic diorite. Phenocrysts comprise 40% to 15% of rock toward margins of interval.
24.34	55.05	variably texture-blasted, fine-grained diorite. Alteration generally increases toward the margins of the interval. Diorite contains multiple, relatively small rafts of a fine grained mafic unit.
55.05	64.42	Unaltered monzonitic porphyry. Matrix low in silica (alteration). Phenocrysts consist of Megacrystic, zoned k-feldspars, plagioclase laths, and fine-grained hornblende and/or biotite. Phenocrysts comprise approximately 30% of the rock.
64.42	153.82	Variably texture-blasted, fine to medium grained diorite. Locally slightly porphyritic in appearance.
153.82	155.91	short zone with diorite porphyry dyking through fine grained diorite (slightly porphyritic). Diorite porphyry contains only very sparse phenocrysts: approximately 10%, while fine-grained diorite appears to contain over 60% phenocrysts, where texture somewhat preserved.
155.91	166.18	Variably texture-blasted, fine to medium grained diorite. Locally slightly to strongly porphyritic in appearance.
166.18	167.60	Diorite porphyry contains only very sparse phenocrysts: approximately 10%.
167.60	179.70	Variably texture-blasted, fine to medium grained diorite. Locally slightly to strongly porphyritic in appearance.
179.70	182.90	Plagioclase porphyritic quartz diorite. Heavily altered toward margins of interval. Approximately 30-40% phenocrysts. Plagioclase and Kfeldspar phenocrysts replaced, where visible. Phenocrysts decreasing in size and percentage toward margins of interval.
182.90	186.21	Variably texture-blasted, fine to medium grained diorite. Locally slightly to strongly porphyritic in appearance.
186.21	201.30	Plagioclase porphyritic quartz diorite. Heavily altered toward margins of interval. Approximately 30-40% phenocrysts. Plagioclase and Kfeldspar phenocrysts replaced, where visible. Phenocrysts decreasing in size and percentage toward margins of interval.
201.30	204.95	Variably texture-blasted, fine to medium grained diorite. Locally slightly to strongly porphyritic in appearance.

204.95	209.92	Plagioclase porphyritic quartz diorite. Heavily altered toward margins of interval. Approximately 30-40% phenocrysts. Plagioclase and Kfeldspar phenocrysts replaced, where visible. Phenocrysts decreasing in size and percentage toward margins of interval.
209.92	212.63	Variably texture-blasted, fine to medium grained diorite. Locally slightly to strongly porphyritic in appearance.
212.63	221.12	Plagioclase porphyritic quartz diorite. Heavily altered toward margins of interval. Approximately 30-40% phenocrysts. Plagioclase and Kfeldspar phenocrysts replaced, where visible. Phenocrysts decreasing in size and percentage toward margins of interval.
221.12	222.27	short interval of very fine-grained felsic volcanic rock along margin of quartz diorite porphyry and the fine grained diorite.
222.27	237.25	Variably texture-blasted, fine to medium grained diorite. Locally slightly to strongly porphyritic in appearance.
237.25	242.85	Plagioclase porphyritic quartz diorite. Heavily altered toward margins of interval. Approximately 30-40% phenocrysts. Plagioclase and Kfeldspar phenocrysts replaced, where visible. Phenocrysts decreasing in size and percentage toward margins of interval.
242.85	244.65	Variably fine to medium grained diorite/micro-diorite. Some sections apear plag lath porphyritic - function of alteration?
244.65	247.95	crowded porphyry
247.95	328.00	
328.00	344.15	breccia zone - well healed, phyllic altered
344.15	370.00	more mafic sectin, dissem py
370.00	370.70	mainly plag phenos (m.g) in dark matrix
370.70	371.25	mafic diorite

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
10.97	22.79	WK	KF	vsel	WK	EZ	pv	WK	CH	pv	STG	long interval with minor kfeldspar alteration on vein and fracture selvages and pervasive weak alteration of plagioclase phenocrysts to epidote. Possible pervasive chlorite alteration of secondary biotite. Localized magnetite spider stringer veins scattered above the bottom of the casing.
22.79	33.65	STG	KF	vsel	MOD	MT	vsel	STG	EZ	vsel	MOD	Interval with kfeldspar alteration of vein selvages (and forming veins), abundant magnetite spider veining and thick veins of epidote and chlorite.
33.65	52.40	MOD	KF	vsel	MOD	MT	vsel	WK	EZ	vsel	WK	Interval with decreased intensity of kfeldspar alteration and magnetite spider veining.
52.40	55.05	STG	KF	vsel	MOD	MT	vsel	MOD	EZ	vsel	MOD	Interval with increased intensity of kfeldspar alteration, magnetite spider veinlets and epidote veining near margin of monzonite porphyry.
55.05	64.46	WK	CY	pv	WK							only clay alteration and weak surface weathering observed in monzonite porphyry.
64.46	70.85	MOD	KF	pv	MOD	CH	pv	MOD	CY	rep	MOD	Moderate kfeldspar alteration overprinted by chlorite and clay alteration. Alteration is pervasive and concentrated in vein selvages.
70.85	77.27	MOD	KF	pv	WK	EZ	vsel	WK	CY	rep	MOD	interval with noticeable decrease in chlorite alteration, and presence of stockwork to sizable epidote veinlets through kfeldspar altered microdioriite.
77.27	93.35	STG	CH	vsel	STG	CY	rep	MOD				Interval with any previous alteration oblitered by very strong chlorite vein selvage alteration and veining, possibly after biotite. Clay alteration of felsic sites where texture of diorite is somewhat preserved.
93.35	103.66	MOD	KF	pv	WK	CY	rep	MOD				minor kfeldspar alteration through diorite visible, with a strong clay overprint (possibly obliterating some kfeldspar alteration) and noticeable lack of chlorite alteration.
103.66	115.88	MOD	KF	pv	WK	EZ	pv	MOD	CH	pv	WK	weak kfeldspar alteration partially preserved through epidote and chlorite pervasive overprint. Some chlorite on vein selvages and fracture surfaces.
115.88	121.56	MOD	KF	pv	WK	CH	pv	MOD	CY	rep	MOD	interval with weak kfeldspar alteration overprinted by pervasive and vein selvage chloritization (after biotite?) and clay replacement of felsic sites.
121.56	133.49	INT	KF	pv	STG	EZ	pv	MOD	CH	pv	INT	zone with moderate kfeldspar alteration preserved only locally through moderate epidote and intense chloritization, obliterating the texture of the rock.

133.49	134.76	MOD	KF	pv	WK	CH	pv	MOD	CY	rep	MOD	another small interval with weak kfeldspar alteration overprinted by pervasive and vein selvage chloritization (after biotite?) and clay replacement of felsic sites.
134.76	136.25	STG	KF	pv	MOD	EZ	pv	MOD	CH	pv	STG	short interval with moderate kfeldspar alteration preserved only locally and overprinted by moderate pervasive epidote and intense chloritization.
136.25	141.81	MOD	KF	pv	WK	BZ	vsel	WK				moderate kfeldspar alteration with moderate chlorite (likely after biotite) along fracture and vein selvages.
141.81	145.92	STG	KF	pv	MOD	BZ	vsel	MOD				interval of increased intensity of biotite-magnetite-chlorite veinlets and fracture selvages.
145.92	150.33	MOD	KF	pv	WK	BZ	vsel	WK				moderate kfeldspar alteration with moderate chlorite (likely after biotite) along fracture and vein selvages.
150.33	152.93	MOD	KF	pv	WK	CY	pv	MOD				weak kfeldspar alteration partially preserved through clay-chlorite alteration.
152.93	156.10	STG	KF	pv	STG	EZ	rep	WK	CY	vsel	WK	interval with very strong kfeldspar alteration in the fine-grained diorite around the margins of the diorite porphyry.
156.10	157.08	MOD	KF	pv	WK	CY	rep	MOD				short interval of kfeldspar and clay alteration.
157.08	161.84	STG	KF	pv	STG	CH	vsel	WK	CY	rep	MOD	short interval with stronger kfeldspar alteration with the ubiquitous chlorite vein selvage alteration, and clay replacement.
161.84	184.60	MOD	KF	pv	WK	CY	rep	MOD				long, variable interval with kfeldspar and clay alteration throughout. Minor, localized chlorite on vein selvages, biotite-chlorite spider veinlets and strong clay alteration at points in the interval.
184.60	185.95	MOD	MT	blb	MOD	CH	pv	MOD	CY	rep	MOD	short interval with significant magnetite associated with chalcopyrite mineralization. Pervasive chlorite and minor clay replacement of felsic sites also visible.
185.95	194.39	STG	KF	pv	WK	CH	vsel	WK	CY	rep	STG	interval with relatively weak kfeldspar alteration and chloritization, and more complete clay-replacement of feldspar sites.
194.39	201.30	MOD	KF	pv	WK	CH	vsel	MOD	CY	rep	WK	Interval with weak kfeldspar alteration overprinted by pervasive and vein selvage chloritization (after biotite?) and clay replacement of felsic sites. Some feldspars in porphyry altered to a dark green clay (chlorite-epidote-clay-sericite?).
201.30	212.75	MOD	KF	pv	MOD	EZ	pv	WK	CH	vsel	MOD	interval defined by presence of weak epidote alteration.
212.75	227.28	MOD	KF	pv	WK	CH	vsel	WK	CY	rep	MOD	Interval with weak kfeldspar alteration overprinted by pervasive chloritization and clay replacement of felsic sites. Some feldspars in porphyry altered to a dark green clay (chlorite-epidote-clay-sericite?). Kfeldspar alteration is locally very strong.
227.28	233.59	MOD	CH	vsel	WK	CY	rep	MOD				interval with any previous alteration oblitered by chlorite vein selvage alteration and veining, possibly after biotite, and by strong clay alteration of felsic sites.
233.59	244.63	MOD	KF	vsel	MOD	EZ	blb	MOD	CH	vsel	MOD	interval with significant variations, including kfeldspar veining, epidote blebing, chlorite alteration of veins (after biotite) and localized clay alteration. Strengths of alteration vary significantly across interval.
244.63	249.55	MOD	KF	pv	MOD	CH	pv	MOD				interval characterized by the lack of epidote alteration, with kfeldspar alteration both pervasive and in vein selvages
249.55	258.70	MOD	KF	pv	MOD	EZ	pv	MOD	CH	vsel	MOD	interval with significant variations, including kfeldspar veining, epidote blebing, chlorite alteration of veins (after biotite) and localized clay alteration. Strengths of alteration vary significantly across interval.
258.70	262.00	STG	KF	pv	STG							strong kfs, ep, cl gone, mgt mostly gone
262.00	276.00	MOD	EZ	pv	MOD	KF	vsel	WK				mod-strong ep-mgt with weaker kfs, bt
276.00	294.20	MOD	CH	pv	MOD	CY	pat	mod				a/a with no phyllic overprint
294.20	302.50	MOD	EZ	pv	MOD	KF	vsel	WK				a/a with wk-mod phyllic overprint
302.50	307.00	MOD	CH	pv	MOD	CY	pv	MOD				phyllic zone
307.00	326.50	MOD	EZ	pv	MOD	CY	pat	MOD				wk-mod phyllic overprinted PP zone. MGT-Hem
326.50	342.00	STG	CH	pv	MOD	CY	pv	STG				Hem stained phyllic zone - EP, MGT gone
342.00	355.70	MOD	EZ	pv	MOD	CY	pat	WK	PR	diss	WK	wk-mod ep-mgt zone with diss py and patchy phyllic overprint

355.70	371.25	MOD	EZ	pv	MOD	CY	pat	WK	PR	diss	WK	wk-mod ep-mgt zone with diss py and patchy phyllic overprint

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
10.97	10.98		ZVO	STR	4	0.1		ZVC	HLN	4	0.1		ZVQ	PLN	1	0.3	70	short interval before the bottom of the casing with abundant magnetite veining with minor carbonate and quartz veining.
10.98	17.52		ZVE	STR	2	0.2		ZVC	HLN	2	0.1							very little veining in interval, with sparse epidote-chlorite veining, carbonate veining and very trace magnetite stringers
17.52	23.28		ZVO	STR	6	0.1		ZVC	HLN	6	0.1							magnetite stringers abundant through interval with carbonate veins, many at low angles to the core axis
23.28	33.74		ZVO	PLN	3	0.7	45	ZVE	STR	3	0.1		ZVO	STR	1	0.1		interval with moderate abundance of many vein types. Tabular, thick kfeldspar veining cut by magnetite stringers and epidote stringers. Ubiquitous late carbonate-iron oxide fracture coatings also observed.
33.74	39.44		ZVE	STR	2	0.1		ZVO	FSEL	2	0.2	45	ZVC	HLN	1	0.1		interval with significant decrease in magnetite veining. Epidote stringers and kfeldspar alteration of chloritized stringers also present.
39.44	55.06		ZVC	PLN	3	0.2		ZVO	STR	3	0.1		ZVQ	PLN	1	0.3	70	long interval with reappearance of minor magnetite spider veinlets (locally strong) with abundant thicker carbonate fracture coatings at low angles to the core axis and minor tabular quartz veining.
55.06	64.42		ZVC	PLN	2	0.2				2								only trace carbonate-iron oxide coatings on fracture surfaces visible.
64.42	70.87		ZVQ	STR	3	0.3		ZVC	STR	3	0.1		ZVCL	HLN	1	0.1		interval is dominated by quartz-hematite stringers of varying thickness and orientations, possibly formed by crack-seal action. Fuzzy chlorite stringers and carbonate-iron oxide fracture coatings
70.87	76.11		ZVE	PLN	5	0.3		ZVCL	STR	5	0.1		ZVC	STR	2	0.2		interval with hairline to thick epidote veining, often bearing chalcopyrite. Pervasive chlorite stringers and carbonate fracture coatings through interval as well.
76.11	77.86		ZVQC	STR	3	0.1				3								short interval with hairline carbonate stringers only.
77.86	93.45		ZVQ	STK	10	0.5		ZVCL	PLN	10	0.1	45						zone of intense quartz stockworking and sub-parallel zones of chlorite hairline veining. Some minor, anatomizing clay veining.
93.45	102.12		ZVO	STR	6	0.2		ZVQ	STK	6	0.3							zone with lack of intense chlorite in veins, a significant clay, with a slight decrease in the intensity of the quartz stockworking.
102.12	115.08		ZVCL	STR	3	0.2		ZVQ	PLN	3	0.2		ZVC	STR	1	0.1		zone with somewhat abundant chlorite-epidote stringers with very trace chalcopyrite, tabular quartz veins, and the ubiquitous carbonate veinlets coating rare fractures.

115.08	120.17	ZVQ	STR	4	0.2		ZVCL	STR	4	0.2						zone of sparse quartz stringers and chlorite stringers.
120.17	124.18	ZVCL	LAM	15	1	45	ZVC	FRV	15	0.2						zone very abundant, sub-parallel chlorite-epidote-kfeldspar-hematite veins, with the ubiquitous carbonate fracture coatings (some at low angles to the core axis)
124.18	133.62	ZVC	STR	2	0.1		ZVQ	PLN	2	0.4		ZVE	STR	1	0.2	carbonate and epidote stringers with sparse, thicker tabular quarts-pyrite veins.
133.62	136.10	ZVO	PLN	8	0.3		ZVQ	STR	8	0.2		ZVE	STR	1	0.2	zone with substantial local variations in veining from clay to quartz stringers to epidote stringers down hole.
136.10	141.25	ZVQ	STR	5	0.2		ZVCL	STR	5	0.2						zone of sparse quartz stringers and chlorite stringers.
141.25	150.52	ZVCL	STR	6	0.2		ZVQ	STR	6	0.3						zone of abundant chlorite stringers (likely after biotite and magnetite) with abundant chalcopyrite, and quart-pyrite veins.
150.52	156.00	ZVO	PLN	8	0.3		ZVQ	STR	8	0.2		ZVE	STR	1	0.2	zone with substantial local variations in veining from clay to quartz stringers to epidote stringers down hole.
156.00	157.79	ZVQ	STK	9	0.5		ZVCL	STR	9	0.2						short interval with abundant quartz stockworking and minor chlorite stringers.
157.79	176.93	ZVQ	STR	5	0.2		ZVCL	STR	5	0.2						Long zone of sparse quartz stringers and chlorite stringers. Localized abundant biotite-chlorite spider veining from 164.30 m to 165 m and 168.23 m to 169.50 m .
176.93	177.96	ZVO	STR	30	1		ZVQ	PLN	30	1.5						short interval with intense clay-sericite-chlorite veining and on tabular quartz vein with significant chalcopyrite.
177.96	184.65	ZVQ	STR	5	0.2		ZVCL	STR	5	0.2						Long zone of sparse quartz stringers and chlorite stringers. Localized more intense chlorite veining at 182.83 m.
184.65	186.25	ZVO	STR	10	0.1		ZVQ	PLN	10	0.3	70	ZVQC	STR	2	0.1	short interval with abundant magnetite veining with tabular quartz veining hosting chalcopyrite and minor carbonate.
186.25	201.10	ZVCL	STK	8	0.5		ZVQC	STR	8	0.5						long interval in quartz diorite porphyry with very abundant light green stockwork veining (chlorite? Sericite? Clay?) and anastamosing quartz-carbonate stringers.
201.10	203.30	ZVO	STR	3	0.3		ZVC	STR	3	0.1		ZVCL	HLN	1	0.2	short interval with kfeldspar veins/heavy alteration of selvages with minor chlorite and carbonate veining.
203.30	211.74	ZVC	STR	1	0.1		ZVCL	HLN	1	0.2						zone with sparse carbonate and chlorite stringers.
211.74	212.84	ZVO	STK	40	1		ZVCL	STR	40	0.2		ZVC	STR	2	0.2	short interval with abundant clay veining/stockworking, chlorite-biotite veinlets with kfeldspar selvages, and late carbonate stringers.

212.84	233.25	ZVQ	STK	8	0.6	30	ZVQ	PLN	8	1.2	80	ZVC	STR	1	0.2	zone with very strong quartz stockworking-brecciating hosting chalcopyrite, and lesser tabular quartz veining and trace carbonate stringers.
233.25	244.69	ZVCL	STR	5	0.2		ZVQC	STR	5	0.3						long interval with abundant chlorite-biotite stringers, with kfeldspar selvages and sub-parallel epidote veining. The ubiquitous chlorite fracture coatings are also present, often with associated quartz.
244.69	255.50	ZVCL	STR	3	0.2		ZVQ	PLN	3	1	43	ZVC	STR	1	0.2	interval with less intense veining, and many tabular, sub-parallel quartz veins hosting significant sulfides.
255.50	258.50	ZVCL	STR	1	0.2		ZVQC	STR	1							
258.50	263.00	ZVT	FRV	2	0.2		ZVCL	FRV	2							toum and chl fracture vnlets
263.00	273.00	ZVCL	FRV	2	0.2		ZVQC	STR	2							
273.00	282.00	ZVQC	PLN	3	1		ZVCL	FRV	3	0.2						qz-carb vns with some hem, variable widths, tabular to fracture filling
282.00	290.50	ZVCL	FRV	2	0.2		ZVT	FRV	2	0.2						fracture vnlets
290.50	292.50	ZVQC	PLN	4	1		ZVCL	FRV	4	0.2						
292.50	301.50	ZVQC	STR	2	0.4		ZVCL	FRV	2	0.2						
301.50	302.00	ZVT	FRV	10	0.4				10							narrow zone of tourm veining
302.00	310.00	ZVQC	STR	1	0.4				1							
310.00	314.00	ZVQC	PLN	3	1				3							
314.00	341.00	ZVQC	STR	2	0.4				2							
341.00	353.00	ZVQC	STR	1	0.2				1							
353.00	371.25	ZVQC	STR	3	0.2		ZVCL	STR	3	0.2						

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
10.97	23.91	interval with no observed mineralization	PY	blb	0.05
23.91	27.25	interval with slightly more abundant chalcopyrite associated with both kfeldspar veining and epidote veining. No pyrite observed.	CCP	vsel	0.1
27.25	51.78	zone with very minor chalcopyrite associated with kfeldspar veining. Pyrite on fracture surfaces through silicified portions of interval.	PY	fsel	0.1
			CCP	vsel	0.05
51.78	54.96	Minor blebby chalcopyrite associated with epidote alteration (blebby) and minor pyrite coating veinlets.	CCP	blb	0.1
			PY	vsel	0.1
64.44	77.38	zone with disseminated chalcopyrite associated with disseminated epidote, chlorite and magnetite. Minor pyrite in veins.	PY	vsel	0.1
			CCP	diss	0.07
77.38	91.35	interval with abundant chalcopyrite associated with quartz veins, chlorite-epidote veins and blebby clay alteration.	PY	vsel	1
			CCP	vsel	0.4
			CCP	blb	0.1
91.35	103.53	interval with only very trace pyrite observed.	PY	vsel	0.05

103.53	115.61	interval with trace disseminated chalcopyrite associated with chlorite and slightly less abundant blebby pyrite.	CCP	diss	0.07
			PY	blb	0.05
115.61	120.60	short interval with no observed chalcopyrite and minor pyrite in a tabular quartz vein selvage.	PY	vsel	0.1
120.60	131.62	longer interval with locally very abundant chalcopyrite associated with epidote and chlorite alteration, and also with a weak association with kfeldspar alteration. Coarse pyrite observed in sparse tabular quartz veining only.	CCP	blb	0.1
			PY	vsel	0.1
			CCP	diss	0.05
131.62	136.26	short interval with very minor chalcopyrite associated with epidote alteration. Abundant pyrite in tabular quartz veins and their selvages.	PY	vsel	0.15
			CCP	blb	0.05
136.26	145.95	interval with abundant chalcopyrite associated with chlorite/hematite hairline veinlets as well as disseminated in kfeldspar alteration.	CCP	diss	0.7
			CCP	vsel	0.6
			PY	vsel	0.1
145.95	152.80	very minor chalcopyrite associated with chlorite-hematite hairline veinlets (after magnetite-biotite?) and disseminated in kfeldspar alteration. Minor pyrite in vein selvages.	CCP	diss	0.1
			CCP	vsel	0.1
			PY	vsel	0.05
152.80	155.25	Increased chalcopyrite disseminated and in hematite-clay blebs	CCP	blb	0.5
			CCP	diss	0.3
			PY	diss	0.2
155.25	162.90	zone with only very minor pyrite observed on fracture selvages.	PY	fsel	0.05
162.90	167.81	zone of abundant chalcopyrite associated with hematite and kfeldspar alteration and veining. Pyrite present in quartz vein selvages.	CCP	diss	0.8
			PY	vsel	0.5
			CCP	vsel	0.4
167.81	179.43	interval with abundant chalcopyrite in quartz veins and disseminated in hematite and chlorite (after biotite?). Noticeable lack of chalcopyrite associated with clay altered localities.	PY	fsel	0.1
			CCP	diss	0.05
			CCP	vsel	0.05
179.43	182.88	interval with only very trace pyrite observed.	PY	vsel	0.05
182.88	186.15	interval with abundant chalcopyrite in quartz veins and associated with magnetite-hematite and chlorite (after biotite?)	CCP	vsel	0.2
			CCP	diss	0.15
201.30	204.90	relatively abundant chalcopyrite associated with hairline chlorite veinlets and their selvages. No pyrite observed	CCP	vsel	0.15
210.05	212.30	short interval of sparse mineralization predominantly along veins, and minor disseminated pyrite associated with the fine to medium grained diorite.	PY	vsel	0.2
			CCP	vsel	0.1
			PY	diss	0.1
212.30	222.30	interval with very rare chalcopyrite and pyrite in tabular quartz veins.	CCP	vsel	0.05
			PY	vsel	0.05
222.30	226.08	interval with abundant chalcopyrite and lesser pyrite associated with abundant stockwork quartz veining.	CCP	vsel	0.3
			PY	vsel	0.2
226.08	227.65	short interval with increased pyrite and decreased chalcopyrite, possibly related to decreased abundance of quartz stockwork veining.	PY	vsel	0.8

			CCP	vsel	0.1
232.50	237.87	interval with strong alteration and mineralization in many forms. Chalcopyrite is associated with quartz stockworking, epidote blebs and chlorite hairline veinlets.	PY	blb	0.1
			PY	vsel	0.1
			CCP	blb	0.05
			CCP	vsel	0.05
244.94	249.10	interval with strong mineralization. Disseminated pyrite and chalcopyrite associated with kfeldspar alteration. Veined sulfides are associated with sub-parallel tabular quartz veining (B).	CCP	diss	0.7
			PY	diss	0.7
			CCP	vsel	0.3
			PY	vsel	0.3
			MOL	vsel	0.1
249.10	278.30	variable py and rare cpy	CCP	vsel	0.1
			PY	diss	0.1
			PY	ff	0.1
			PY	vsel	0.1
278.30	279.50	lacally abundant py/cpy	PY	diss	0.7
			CCP	diss	0.5
279.50	341.10	variable py and rare cpy	PY	diss	0.1
			PY	ff	0.1
			PY	vsel	0.1
			CCP	vsel	0.05
341.10	371.25	abundant dissem py. No cpy seen	PY	diss	3

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
0.00	10.97		ZRO	STG								Strong fracturing related to surface processes above casing.
10.97	23.86		ZRO	MOD								Moderate fracturing with relatively abundant carbonate-iron oxide surface coatings.
23.86	28.14		ZRO	WK								Rare, chlorite-coated hackly and planar fracturing.
28.14	47.30		ZRO	MOD								Moderate planar fracturing with relatively abundant carbonate-iron oxide surface coatings.
47.30	69.42		ZRO	WK								Rare, anastomosing fracturing along veins at low angles to the core axis, coated with carbonate, iron oxide and trace chlorite.
69.42	77.95		ZRO	TR								very rare quartz vein coating on a fracture surface
77.95	84.35		ZRO	STG	25							abundant chlorite-sericite-clay fracture coatings at moderately low angles to the core axis.
84.35	90.79		ZRO	MOD								quartz or chlorite coating rare fractures
90.79	93.47		ZRO	STG								abundant quartz-carbonate-sericite coatings of fractures at very low angles to the core axis.
93.47	102.29		ZRO	MOD								moderate clay, quartz, chlorite or hematite coating fracture surfaces.
102.29	104.11		ZRO	STG								Chlorite -sericite-iron oxide coatings on planar fractures of many orientations.
104.11	115.89		ZRO	WK								chlorite coating rare planer fracture surfaces.
115.89	133.50		ZRO	WK								sparse tabular quartz veins or chloritized zones on fracture surfaces. Epidote and chlorite coating fractures at high angles to the core axis. Carbonate-iron oxide coating a fracture almost parallel to the core axis.
133.50	134.90		ZRO	MOD								clay-hematite coating on moderately abundant fracture surfaces.

134.90	150.48	ZRO	WK	interval with only chlorite stringers and quartz stockworking on fracture surfaces. No carbonatized fractures.
150.48	151.97	ZRO	WK	short interval with abundant clay/sericite fracture coatings and sparse chlorite or hematite on fracture surfaces.
151.97	156.40	ZRO	TR	interval with sparse fracturing. Epidote, chlorite, quartz or carbonate on fracture surfaces.
156.40	158.20	ZRO	MOD	sericite chlorite coating fractures at moderate angles to the core axis (conjugate?)
158.20	161.90	ZRO	TR	calcite and chlorite coating rare fractures.
161.90	170.93	ZRO	MOD	chlorite, clay, carbonate or quartz coating fracture surfaces. Locally very strong sericite/clay on rubble surfaces.
170.93	174.13	ZRO	WK	quartz on rare fracture surfaces.
174.13	194.38	ZRO	MOD	chlorite, clay, carbonate or quartz coating fracture surfaces. Interval includes zones of very strong sericite/clay on rubble surfaces.
194.38	199.64	ZRO	WK	chlorite or carbonate on rare fracture surfaces.
199.64	201.23	ZRO	MOD	chlorite and/or carbonate on abundant, sometimes rubblizing, fracturing.
201.23	214.20	ZRO	TR	carbonate or sericite on very rare fracture surfaces
214.20	219.04	ZRO	WK	interval with thick quartz veining and thin calcite veining coating relatively abundant fracture surfaces.
219.04	229.40	ZRO	TR	very few hackly fractures , some coated with thick quartz veining.
229.40	231.13	ZRO	MOD	short interval with very abundant low-angle fracturing coated with buggy carbonate-iron oxide veining.
231.13	263.00	ZRO	WK	calcite and very minor chlorite or quartz coating few fractures in interval.
263.00	269.00	ZRO	STG	broken core
269.00	312.00	ZRO	WK	healed fractures and fr veinlets. Gnerally weak, some narrow mod zones
312.00	328.30	ZRO	MOD	generally well healed fractures
328.30	337.00	ZFX	STG	well healed mod-str brx zone
337.00	341.00	ZRO	STG	well healed mod-str fr zone
341.00	344.20	ZFX	INT	well healed str-int brx zone
344.20	350.40	ZRO	WK	
350.40	371.25	ZRO	MOD	variably wk-mod

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
44.85	ZVCL	0.1	60.0	270.0		41	40	high	chlorite stringer
44.92	ZVQ	0.3	49.0	265.0		47	26	high	quartz-sericite-pyrite veinlet
45.05	ZVC	0.6	69.0	249.0		29	46	high	carbonate-chlorite-iron oxide on fracture surface
46.19	ZVE	2	32.0	356.0		87	86	high	epidote-magnetite-kfeldspar vein and stringer zone
46.83	ZVC	0.2	12.0	280.0		84	14	high	carbonate-iron oxide veinlet
47.16	ZVC	0.2	28.0	60.0		79	141	high	carbonate veinlet
47.73	ZVO	0.5	61.0	5.0		58	93	high	kfeldspar veinlet with epidote and trace chalcopyrite (tabular)
47.81	ZVE	0.1	36.0	335.0		81	70	high	epidote stringer with chalcopyrite
49.71	ZVCL	0.2	30.0	13.0		89	101	high	chlorite stringer with kfeldspar selvage
50.19	ZVC	0.1	20.0	234.0		55	337	high	carbonate veinlet
52.00	ZVQ	0.1	23.0	82.0		74	161	high	quartz-epidote stringer

52.11	ZVCL	0.2	42.0	327.0	74	65	high	fuzzy chlorite stringer
52.72	ZVO	0.2	48.0	52.0	64	126	high	magnetite veinlet with kfeldspar selvage.
53.06	ZVE	0.2	29.0	136.0	43	207	high	epidote stringer
53.30	ZVC	0.1	28.0	280.0	71	23	high	carbonate stringer
53.70	ZVE	0.2	21.0	143.0	47	220	high	epidote stringer
54.37	ZVE	0.4	32.0	344.0	87	76	high	early epidote anastomosing veinlet with chalcopyrite and magnetite
54.60	ZVO	1.5	51.0	171.0	11	238	high	clay-chlorite vein zone
54.70	ZVC	0.001	54.0	266.0	44	32	high	carbonate-hematite on surface
56.37	ZVQ	0.2	65.0	240.0	27	35	high	quartz-sericite veinlet
56.54	ZRO	0.001	25.0	170.0	36	254	high	carbonate-iron oxide on fracture surface.
57.92	ZRO	0.3	18.0	163.0	44	246	high	quartz-iron oxide on fracture surface.
59.58	ZRO	0.001	20.0	218.0	49	320	high	carbonate-iron oxide on fracture surface.
60.40	ZVQ	0.2	21.0	55.0	87	140	high	quartz stringer
61.09	ZVC	0.2	44.0	138.0	30	194	high	carbonate-iron oxide on fracture surface.
61.92	ZRO	0.001	70.0	18.0	49	98	high	sericite on fracture surface
65.07	ZVQ	1.3	25.0	13.0	86	282	high	quartz-chlorite vein.
66.00	ZRO	0.001	44.0	102.0	47	163	high	iron oxide on fracture surface.
66.25	ZVO	0.1	40.0	352.0	79	84	high	hematite hairline stringer.
66.80	ZVQ	0.5	7.0	247.0	73	343	high	quartz-hematite crack seal vein
67.21	ZVQ	0.1	27.0	70.0	76	150	high	quartz-iron oxide on fracture surface.
67.52	ZVQ	0.2	19.0	356.0	80	266	high	quartz-hematite crack seal vein
87.64	ZVCL	0.1	60.0	6.0	59	93	high	hairline chlorite-hematite vein.
88.07	ZVQ	0.5	24.0	250.0	60	355	high	quartz-hematite crack seal vein
88.30	ZVQ	0.4	60.0	174.0	3	192	high	quartz-sericite tabular vein.
89.20	ZRO	0.001	24.0	152.0	42	230	high	chlorite and chalcopyrite on fracture surface.
89.21	ZRO	0.001	17.0	345.0	79	255	high	chlorite and chalcopyrite on fracture surface.
89.96	ZVE	0.6	19.0	356.0	80	266	high	epidote-chlorite-kfeldspar-magnetite zone
90.08	ZVQ	0.3	40.0	355.0	79	86	high	quartz-carbonate-epidote stringer.
113.90	ZVQ	0.15	52.0	310.0	60	57	high	quartz stringer with carbonate and chalcopyrite
114.15	ZVC	0.2	5.0	147.0	61	232	high	carbonate stringer/ fracture coating
114.62	ZVQ	0.5	65.0	342.0	53	81	high	vuggy quartz-chlorite vein
114.86	ZVO	0.1	21.0	230.0	53	334	high	hairline hematite veinlet
114.99	ZVQ	0.3	58.0	315.0	56	63	high	quartz-chlorite-chalcopyrite tabular vein
116.36	ZVQ	0.5	61.0	253.0	34	33	high	tabular quartz-sericite vein with chalcopyrite
116.86	ZVQ	0.4	45.0	27.0	72	110	high	quartz hematite crack-seal vein.
117.34	ZVQ	1	85.0	288.0	31	81	high	tabular quartz with chlorite and pyrite in selvages.
118.64	ZVCL	0.6	52.0	306.0	59	54	high	fuzzy epidote-chlorite stringer.
119.48	ZVQ	0.2	20.0	345.0	82	256	high	quartz-sericite-clay zone
119.84	ZVQ	0.3	30.0	80.0	69	156	high	tabular quartz-sericite vein with epidote selvage.
120.30	ZVO	1.5	50.0	293.0	57	45	high	clay-sericite-hematite zone.
121.02	ZVE	0.3	45.0	260.0	47	19	high	epidote-chlorite stringer with sub-parallel k-feldspar zoning.
121.16	ZVQ	0.7	63.0	275.0	41	46	high	quartz-chlorite-epidote vein with possible magnetite

121.74	ZVE	0.3	33.0	125.0	45	193	high	epidote veinlet
122.10	ZVCL	0.2	25.0	260.0	64	4	high	chlorite-magnetite veinlet
124.55	ZVCL	0.05	38.0	6.0	81	95	high	chlorite-magnetite veinlet
124.80	ZVQ	0.3	36.0	292.0	68	36	high	tabular, vuggy quartz-chlorite-chalcopyrite veining.
125.91	ZVC	0.1	23.0	50.0	87	135	high	carbonate stringer
126.14	IFO	8.5	56.0	90.0	44	144	high	contact between dyke of heavy potassic alteration and diorite.
127.59	ZVQ	1.5	70.0	240.0	25	46	high	tabular quartz-sericite-pyrite vein.
127.83	ZVE	0.1	43.0	180.0	18	270	high	epidote stringer with chalcopyrite
128.14	ZVE	0.1	40.0	0.0	79	90	high	epidote and magnetite stringers.
130.75	ZVC	0.2	36.0	300.0	71	42	high	carbonate-epidote stringer
131.39	ZVE	5.5	60.0	11.0	59	97	high	epidote alteration zone
131.89	ZVQ	1.7	80.0	27.0	38	98	high	tabular quartz with pyrite and chlorite in selvages
133.22	ZVE	0.3	20.0	323.0	86	236	high	epidote stringers
134.17	ZRO	0.2	25.0	200.0	38	300	high	hairline clay veining and fracturing.
136.15	ZVQ	0.2	66.0	288.0	42	55	high	quartz-carbonate-pyrite veining
136.25	SCO	0.001	40.0	8.0	79	97	high	contact between k-feldspar and chlorite alteration
137.95	ZVCL	0.5	35.0	352.0	84	84	high	chlorite-magnetite veinlet
138.27	ZVQ	0.1	26.0	27.0	90	295	high	quartz-sericite stringers
139.14	ZVCL	0.35	68.0	345.0	51	83	high	magnetite-chlorite stringer
139.80	ZVCL	0.05	70.0	280.0	38	57	high	chlorite stringer with chalcopyrite
139.90	ZVCL	0.05	50.0	270.0	48	31	high	chlorite-quartz stringer/zone
141.30	ZVQ	0.05	58.0	234.0	27	19	high	quartz-chlorite-chalcopyrite stringer
141.44	ZVCL	0.3	39.0	10.0	80	98	high	chlorite-chalcopyrite stockwork zone
142.45	ZVCL	0.2	38.0	325.0	77	63	high	chlorite-quartz-hematite-chalcopyrite stringer
142.89	ZVCL	0.2	50.0	315.0	63	60	high	chlorite-quartz-hematite-chalcopyrite stringer
142.99	ZVCL	0.5	23.0	0.0	84	271	high	chlorite-quartz-k-feldspar-chalcopyrite zone
143.98	ZVCL	0.2	40.0	12.0	79	100	high	clay-chlorite-hematite zone
145.63	ZVCL	1.5	52.0	345.0	66	81	high	clay-chlorite-hematite zone
146.52	ZVE	1.4	21.0	18.0	83	288	high	anastomozing epidote alteration zone
147.90	ZVQ	3.7	48.0	333.0	69	72	high	quartz-sericite stringers
148.44	ZRO	0.25	0.0	330.0	65	237	high	epidote-chlorite-iron oxide coating on fracture surface. Some parallel surfaces.
149.57	ZRO	0.001	15.0	180.0	46	271	high	sericite-clay coating on fracture
150.89	ZRO	0.001	22.0	232.0	53	337	high	sericite-clay coating on fracture
151.26	ZVCL	0.5	65.0	47.0	49	115	high	heavy chlorite-clay stringer
153.05	ZVO	0.3	60.0	65.0	49	128	high	clay-hematite stringer with chalcopyrite and possible chlorite
153.33	ZVQ	0.2	50.0	212.0	21	344	high	quartz-sericite stringer
153.38	ZVCL	0.2	53.0	88.0	47	147	high	chlorite-hematite-sericite stringer with chalcopyrite
153.85	ZVQ	0.2	30.0	60.0	77	141	high	quartz stringers, many parallel
154.10	ZVE	0.3	18.0	350.0	79	261	high	epidote stringer
154.30	SCO	0.001	40.0	10.0	79	99	high	diorite porphyry-diorite contact
155.18	SCO	0.001	20.0	325.0	86	238	high	porphyry-diorite contact
155.19	ZVCL	0.5	52.0	165.0	12	222	high	chlorite-magnetite-epidote veinlet

155.65	ZVC	0.2	11.0	100.0	76	184	high	carbonate stringer
155.95	SCO	0.001	20.0	333.0	84	246	high	porphyry-diorite contact
156.00	ZVCL	0.3	26.0	200.0	38	301	high	chlorite-clay stringer
156.76	ZRO	0.001	18.0	240.0	60	343	high	chlorite-clay coating on fracture
158.35	ZRO	0.001	20.0	30.0	84	299	high	minor clay on fracture surface
159.36	ZVQ	0.001	15.0	228.0	57	330	high	quartz-sericite on fracture surface
159.83	ZVQ	0.3	56.0	168.0	8	214	high	quartz-hematite-chlorite veinlet
160.14	ZVCL	0.001	30.0	46.0	82	130	high	fuzzy chlorite-quartz on fracture surface
160.52	ZVCL	0.1	45.0	20.0	73	106	high	fuzzy chlorite stringer with hematite, many parallel
160.65	ZVQ	0.2	45.0	230.0	33	356	high	quartz surface coating
161.05	ZVCL	1.5	39.0	39.0	75	122	high	thick chlorite alteration vein, many parallel
164.50	SCI	0.1	40.0	355.0	79	88	low	one ori mark only. Crowded porphyry contact
171.14	ZVCL	0.3	19.0	38.0	86	308	high	fuzzy chlorite-chalcopyrite-hematite vein
171.72	ZVQ	0.2	12.0	225.0	59	326	high	quartz stringer
172.28	ZVQ	0.2	23.0	220.0	47	326	high	quartz stringer
173.10	ZVCL	0.15	23.0	17.0	85	288	high	fuzzy chlorite-chalcopyrite vein
173.20	ZVQ	0.15	20.0	46.0	89	314	high	quartz stringer
174.10	ZVO	0.2	50.0	12.0	69	100	high	hematite-chalcopyrite veinlet with k-feldspar selvage
175.53	ZRO	0.001	40.0	72.0	63	146	high	sericite-clay coating on fracture
177.17	ZRO	0.05	70.0	348.0	49	87	high	hematite veinlet with chalcopyrite
177.23	ZVC	0.001	35.0	55.0	74	136	high	carbonate coating on fracture surface.
177.80	ZVQ	2	50.0	335.0	67	75	high	tabular quartz-sericite-chlorite-chalcopyrite vein.
177.90	ZVCL	1	55.0	340.0	63	79	high	fuzzy chlorite zone
178.06	ZVQ	0.3	40.0	55.0	70	134	high	hematite-quartz-chalcopyrite stringer.
178.17	ZVCL	0.2	40.0	340.0	78	77	high	fuzzy chlorite stringer
179.06	ZVO	0.2	36.0	332.0	80	69	high	hematite stringer
179.64	ZVQ	0.1	38.0	352.0	81	86	high	quartz-hematite stringer
180.00	ZVQ	1	20.0	76.0	79	160	high	quartz stringer
180.66	ZVQ	0.25	12.0	238.0	64	339	high	quartz stringer
182.15	ZVCL	2	25.0	350.0	86	263	high	chlorite zone
189.10	ZVCL	0.5	70.0	252.0	29	51	high	tabular quartz-chlorite vein
190.76	ZVCL	0.5	80.0	118.0	26	113	high	chlorite-clay vein?
191.76	ZVCL	2.7	45.0	0.0	74	92	high	thick chlorite zone with k-feldspar selvage.
194.95	ZVQ	0.3	10.0	67.0	88	337	high	tabular-stringer quartz-chlorite-sericite vein
196.98	ZVCL	0.5	32.0	335.0	85	71	high	chlorite-sericite veinlet
198.57	ZVCL	0.5	30.0	338.0	87	73	high	fuzzy chlorite vein/alteration
198.62	ZVQ	1.2	25.0	300.0	81	40	high	tabular quartz vein with minor chalcopyrite and specular hematite
200.03	ZVCL	0.2	26.0	15.0	88	286	high	chlorite-k-feldspar selvages
218.79	ZVQ	0.6	85.0	117.0	27	101	high	quartz-breccia vein
218.86	ZVCL	0.2	28.0	345.0	90	258	high	chlorite-sericite veinlet
219.17	ZVCL	0.3	30.0	344.0	88	78	high	anastomozing chlorite veinlet with minor pyrite
220.81	ZVQ	1.9	64.0	249.0	31	38	high	tabular quartz vein with chlorite and abundant chalcopyrite

221.14	ZVCL	2	40.0	20.0	78	107	high	tabular chlorite-calcite zone
222.44	ZVQ	1	15.0	222.0	55	324	high	tabular-breccia quartz vein.
223.11	ZVQ	2.5	17.0	38.0	83	308	high	anastomozing tabular-breccia quartz vein
223.85	ZVQ	1.95	22.0	212.0	45	316	high	anastomozing tabular-breccia quartz vein with hematite
224.92	ZVQ	1.5	30.0	40.0	84	126	high	anastomozing tabular-breccia quartz vein with hematite with chalcopyrite
225.19	ZVQ	0.5	24.0	8.0	85	279	high	anastomozing tabular-breccia quartz vein with hematite with chalcopyrite
225.91	ZVQ	0.7	45.0	263.0	49	23	high	tabular quartz-chlorite-chalcopyrite-sericite vein
226.00	ZVQC	0.3	8.0	30.0	73	303	high	quartz-carbonate stringer
226.38	ZVQ	0.3	40.0	320.0	74	61	high	tabular quartz-pyrite-chalcopyrite vein.
227.32	ZVQ	0.3	20.0	45.0	88	313	high	quartz-chlorite stringer with chalcopyrite
227.34	ZVQ	0.9	60.0	5.0	59	94	high	stockwork-breccia quartz veining
227.62	ZVCL	0.2	38.0	26.0	79	112	high	fuzzy chlorite stringer with pyrite
228.15	ZVQ	0.3	40.0	325.0	75	64	high	quartz-chlorite stringer
228.89	SCO	0.1	89.0	218.0	29	90	high	heavy chlorite alteration boundary
229.53	ZVQ	1.4	38.0	330.0	78	68	high	tabular quartz-chlorite-pyrite-chalcopyrite-hematite vein
229.57	ZVC	1	12.0	41.0	80	312	high	carbonate-iron oxide vuggy vein and fracture coating.
229.58	ZVQ	0.2	10.0	203.0	53	300	high	quartz-chlorite-chalcopyrite veinlet
245.02	ZVQ	1.1	60.0	205.0	12	10	high	tabular quartz-chlorite-sericite-pyrite-chalcopyrite vein
247.55	ZVCL	0.5	50.0	345.0	69	81	high	chlorite-pyrite vein
248.75	ZVQ	1.5	35.0	285.0	67	31	high	tabular quartz-chlorite-pyrite-chalcopyrite vein
249.16	ZVCL	0.9	35.0	327.0	81	64	high	chlorite spider stringer
249.34	ZVQ	0.6	50.0	300.0	59	51	high	tabular quartz-chlorite-pyrite vein with k-feldspar selvages
249.86	SCO	0.001	43.0	38.0	72	119	high	k-feldspar chlorite alteration boundary
250.44	ZVQ	0.2	54.0	220.0	22	2	high	quartz-hematite veinlet
251.00	ZVQ	0.6	46.0	278.0	55	34	high	tabular quartz-chlorite-chalcopyrite-pyrite vein
251.37	ZVQ	0.3	50.0	287.0	55	42	high	quartz-chlorite-chalcopyrite stringer
251.77	ZVQ	1	42.0	285.0	61	36	high	quartz-chlorite-pyrite-chalcopyrite stringer
252.00	ZVQ	0.001	34.0	40.0	80	124	high	quartz fracture coating
252.15	ZVQ	0.9	42.0	209.0	25	328	high	tabular quartz-chlorite-chalcopyrite vein
252.50	ZVCL	0.3	40.0	335.0	77	72	high	chlorite stringer
252.73	ZVQ	0.6	56.0	338.0	62	78	high	tabular quartz-chlorite-chalcopyrite vein
253.44	ZVQ	0.5	50.0	315.0	64	61	high	tabular quartz-chlorite-chalcopyrite vein
253.64	ZVQ	1.2	12.0	32.0	77	303	high	anastomozing quartz-hematite stockwork
253.93	ZVCL	0.6	72.0	10.0	47	96	high	chlorite alteraion zone with k-feldspar selvage
254.16	ZVCL	1.4	35.0	20.0	83	108	high	chlorite alteration zone with more chalcopyrite than pyrite
254.76	ZVCL	0.3	40.0	15.0	79	103	high	chlorite stringer with pyrite and magnetite
255.10	ZVC	0.2	35.0	45.0	78	128	high	carbonate stringer
255.20	ZVCL	0.3	38.0	333.0	79	70	high	chlorite spider veinlets with pyrite
255.77	SCO	0.001	32.0	323.0	83	61	high	k-feldspar - chlorite alteration contact
257.07	ZVQ	0.5	47.0	295.0	60	46	high	tabular quartz-chlorite vein
257.13	ZVQ	0.3	45.0	255.0	45	17	high	tabular quartz-pyrite vein
257.75	ZVE	0.3	10.0	285.0	89	20	high	anastomozing epidote-chalcopyrite-chlorite stringer

257.97	ZVCL	0.4	68.0	343.0	51	84	high	chlorite-epidote-pyrite-hematite stringer
259.20	ZRO	0.001	8.0	296.0	85	208	high	carbonate-hematite coating on fractue surface
259.40	ZVCL	0.1	32.0	10.0	87	100	high	chlorite-pyrite stringer
269.37	ZVE	1	56.0	225.0	24	13	high	epidote alteration zone with minor chlorite
270.08	ZVCL	0.8	33.0	349.0	86	84	high	chlorite alteration zone with k-feldspar selvages and minor pyrite
270.58	ZVE	1.2	76.0	58.0	39	112	high	epidote alteration zone with sub-parallel k-feldspar alteration zone
271.02	ZVO	5	54.0	280.0	49	43	high	K-feldspar alteration zone with epidote stringers and calcite-hematite veining
271.58	ZVE	1.2	45.0	277.0	55	34	high	epidote alteration zone ithe k-feldspar selvages
272.48	ZVE	0.2	44.0	272.0	54	30	high	fuzzy epidote alteration stringer, many paraliel
272.86	ZVC	0.2	20.0	53.0	89	142	high	carbonate-hematite stringer
273.06	ZVQ	0.6	57.0	288.0	50	51	high	tabular quartz vein with chlorite and hematite
274.23	ZVQ	15	66.0	260.0	34	48	high	tabular quartz-epidote-k-feldspar-chlorite-hematite-pyrite alteration zones (with late carbonate)
274.95	SCO	0.001	54.0	55.0	58	128	high	k-feldspar - chlorite alteration contact
274.96	ZVE	1.6	64.0	238.0	26	37	high	epidote vein with minor pyrite, chlorite - partially brecciated, many parallel
275.35	SCO	0.3	42.0	223.0	32	348	high	carbonate vein on k-feldspar-chlorite alteration contact
275.70	ZRO	0.001	70.0	338.0	49	84	high	carbonate fracture coating
276.53	ZVCL	0.6	70.0	5.0	50	96	high	chlorite stringer zone
276.69	ZVQ	3.2	40.0	237.0	40	360	high	tabular quartz vein with hematite
276.94	ZVC	0.2	42.0	35.0	74	120	high	carbonate vein with k-feldspar in selvage
277.40	ZVCL	4	31.0	51.0	80	136	high	tabular chlorite-sericite vein
278.14	ZVCL	0.3	28.0	25.0	90	116	high	chlorite-hematite-pyrite stringer
279.43	ZVC	0.1	48.0	310.0	65	59	high	carbonate stringer
280.04	ZVQ	2.5	44.0	343.0	75	81	high	quartz-carbonate-chlorite
281.11	ZVC	0.1	89.0	0.0	31	94	high	carbonate stringer
282.93	ZVC	0.2	18.0	45.0	86	316	high	carbonate stringer
283.10	ZVE	0.3	8.0	335.0	71	248	high	fuzzy epidote alteration zone
284.08	SCO	0.3	52.0	25.0	66	111	high	contact between fine grained diorite (chlorite-epidote alteration) and medium grained diorite (k-feldspar and epidote altered)
285.00	ZVE	3	42.0	50.0	70	131	high	Epidote-chlorite-quartz-k-feldspar alteration zone
285.28	ZVQ	4.5	26.0	65.0	79	150	high	quartz-chlorite-pyrite alteration zone
285.45	ZVC	0.2	70.0	323.0	47	78	high	vuggy carbonate vein.
290.90	ZVQC	1	50.0	300.0	60	55	high	tabular qz-carb vn
301.60	ZVT	2	30.0	15.0	89	109	high	fracture vn - tourm
305.00	ZFO	5	50.0	55.0	62	133	high	foliation - minor flt zone?
311.20	ZVQC	1.5	50.0	35.0	67	120	high	qz-carb vn set - variable
333.55	ZFX	1	10.0	155.0	53	240	high	part of larger bx zone. Diff to find things to measure, enerally acute angle to core
339.12	ZVO	4	60.0	213.0	17	18	high	comb vn with minor cpy
355.75	ZFO	0.1	50.0	315.0	65	57	high	edge of phyllic zone
361.40	ZVT	1	35.0	30.0	83	110	high	tourm vn and narrow zone of kfs alt
370.00	SCI	0.1	65.0	165.0	10	124	high	
370.60	ZVT	1	50.0	35.0	68	107	high	
370.70	SCI	0.1	35.0	55.0	76	128	high	

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
8.00	11.00	466105	CORE_HALF	230.19	7	2.64	4.41	78.8	8.2	0.205	7900	0.006	0.15	0.56	0.06
11.00	13.00	466106	CORE_HALF	148.86	2.8	2.29	4.61	99.9	7.9	0.208	9600	-0.005	0.15	0.64	0.02
13.00	15.00	466107	CORE_HALF	152.07	5.4	1.76	4.39	79.6	7.2	0.152	8400	-0.005	0.13	0.46	0.02
15.00	17.00	466108	CORE_HALF	211.5	4.7	1.83	3.98	95	8.3	0.262	9300	-0.005	0.11	0.49	0.01
17.00	19.00	466109	CORE_HALF	313.4	8	1.49	5.3	108.7	7.7	0.376	11500	-0.005	0.12	0.7	0.03
19.00	21.00	466110	CORE_HALF	155.83	5	2.78	4.85	91	9.5	0.199	10200	-0.005	0.1	0.58	0.02
21.00	23.00	466111	CORE_HALF	294.37	7.1	3.24	3.61	126.3	7.5	0.305	10000	-0.005	0.17	0.42	0.05
23.00	25.00	466112	CORE_HALF	280.8	16.2	3	4.61	70.6	9.9	0.213	6900	-0.005	0.09	0.74	0.03
25.00	27.00	466113	CORE_HALF	167.6	8.1	3.93	7	60.6	7.5	0.163	7600	0.005	0.11	0.52	0.03
27.00	29.00	466114	CORE_HALF	169.47	9.1	3.47	5.36	56.6	8	0.162	8200	-0.005	0.15	0.51	0.03
29.00	31.00	466115	CORE_HALF	200.29	12.7	2.75	4.09	36.5	8.2	0.163	3800	-0.005	0.13	1.38	0.03
31.00	33.00	466116	CORE_HALF	211.56	10.3	2.1	2.66	42.4	7.2	0.186	4400	-0.005	0.05	0.72	0.01
33.00	33.50	466117	CORE_HALF	234.79	10.7	2.16	2.51	47.1	12.7	0.226	7800	-0.005	0.11	0.95	0.01
33.50	35.00	466118	CORE_HALF	287.68	13	3.92	6.14	26.3	9.1	0.276	2600	-0.005	0.06	0.93	0.03
35.00	37.00	466119	CORE_HALF	932.63	54.7	2.21	4.76	44.3	8.8	0.845	2900	-0.005	0.67	0.89	0.09
37.00	39.00	466121	CORE_HALF	298.25	14.9	4.42	6.67	30.4	8	0.261	2400	-0.005	0.09	0.78	0.04
39.00	41.00	466122	CORE_HALF	440.67	31.4	4.2	7.75	38.1	8.8	0.406	3100	-0.005	0.13	0.91	0.05
41.00	43.00	466123	CORE_HALF	256.16	10.8	6.02	7.76	43.7	7.2	0.292	5600	-0.005	0.32	0.52	0.02
43.00	45.00	466124	CORE_HALF	160.1	9.8	4.94	4.34	47.1	6.8	0.184	5500	-0.005	0.2	0.5	0.09
45.00	47.00	466125	CORE_HALF	193.27	8.9	4.95	3.8	43.9	6.4	0.158	3500	-0.005	0.13	0.75	0.02
47.00	49.00	466126	CORE_HALF	388.01	26.5	3.48	6.39	49.3	8.4	0.374	3600	-0.005	0.1	0.83	0.06
49.00	51.00	466127	CORE_HALF	132.56	10.1	3.12	6.16	43.1	7.9	0.148	2500	0.005	0.08	0.86	0.01
51.00	53.00	466128	CORE_HALF	147.69	16.5	3.28	5.29	49.3	7.8	0.176	7600	0.007	0.13	0.67	0.03
53.00	54.70	466129	CORE_HALF	300.78	18	11.29	4.43	58.2	7.7	0.291	8000	-0.005	0.15	0.58	0.06
54.70	56.00	466130	CORE_HALF	106.61	8.5	6.15	5.19	56.1	6.2	0.106	9800	-0.005	0.22	2.1	0.08
56.00	58.00	466131	CORE_HALF	15.62	0.8	2.58	3.4	46.6	3.2	0.052	7400	-0.005	0.14	1.05	0.07
58.00	60.00	466132	CORE_HALF	14.48	2.3	3.02	2.89	40.8	3.2	0.031	8500	-0.005	0.2	1.07	0.08
60.00	62.00	466133	CORE_HALF	24.73	2.4	1.52	3.35	30.2	5.7	0.041	5600	-0.005	0.23	1.09	0.16
62.00	64.50	466134	CORE_HALF	14.32	3.8	0.95	3.98	39.8	4	0.032	7100	0.005	0.4	0.73	0.15
64.50	66.30	466135	CORE_HALF	159.98	8.9	2.21	4.77	44.4	16.8	0.164	4900	0.007	0.07	4.52	0.18
66.30	68.00	466136	CORE_HALF	274	12	0.53	3.24	43	6.5	0.296	5600	-0.005	0.05	0.64	0.05
68.00	70.00	466137	CORE_HALF	249.27	20.8	2.99	3.92	47	15.2	0.312	6000	0.006	0.07	3.17	0.04
70.00	72.00	466138	CORE_HALF	251.19	14.6	20.82	2.74	42	9.5	0.254	5700	-0.005	0.07	0.98	0.04

72.00	74.00	466139	CORE_HALF	303.51	18.1	5.91	3.81	48.8	11	0.298	6700	-0.005	0.06	0.85	0.05
74.00	75.00	466141	CORE_HALF	138.34	10.3	3.84	3.39	32	8.2	0.151	3600	0.007	0.03	0.96	0.01
75.00	76.00	466142	CORE_HALF	240.29	14	4.61	2.79	47.9	10.5	0.269	9400	0.007	0.11	0.91	0.08
76.00	78.00	466143	CORE_HALF	341.24	41.3	3.81	2.79	46.1	12.9	0.274	8700	0.008	0.38	2.55	0.19
78.00	80.00	466144	CORE_HALF	474.96	63.2	17.38	3.88	47.1	82.8	0.925	7200	0.012	1.18	13.94	0.62
80.00	82.00	466145	CORE_HALF	1728.45	61.2	7.22	5.49	60.4	54.7	1.102	6200	0.011	0.78	40.72	0.08
82.00	84.00	466146	CORE_HALF	157.03	8.6	6.14	4.43	61.8	34.2	0.13	7900	0.012	0.23	27.2	0.2
84.00	86.00	466147	CORE_HALF	799.97	19.1	6.63	4.33	61.1	47.6	0.568	8800	-0.005	0.31	13.86	0.07
86.00	87.90	466148	CORE_HALF	150.15	10.2	13.92	2.25	66.7	11.8	2.82	4300	0.009	2.59	1.32	0.03
87.90	90.00	466149	CORE_HALF	383.54	29.3	3.74	3.33	62.8	15.9	0.306	7800	-0.005	0.07	1.4	0.01
90.00	91.00	466150	CORE_HALF	707.92	40.4	9.04	4.04	70.9	36	0.707	10800	-0.005	0.16	8.43	0.03
91.00	92.00	466151	CORE_HALF	2120.24	124.6	8.17	5.12	96.6	101.3	2.676	8400	0.008	0.36	36	0.22
92.00	94.00	466152	CORE_HALF	60.62	2.9	8.59	4.18	48.8	11.3	0.07	6600	-0.005	0.31	6.47	0.04
94.00	96.10	466153	CORE_HALF	155.22	11.3	3.81	5.81	49.2	11.6	0.151	4200	-0.005	0.15	12.48	0.01
96.10	98.00	466154	CORE_HALF	312.58	21.3	5.31	5.71	45.5	12.7	0.233	3400	-0.005	0.18	14.69	0.01
98.00	100.00	466155	CORE_HALF	262.88	25.7	6.21	6.16	40.5	15.9	0.263	2800	-0.005	0.19	29.9	0.01
100.00	102.00	466156	CORE_HALF	504.14	41.3	12.55	4	43.3	17.1	0.335	3600	0.007	0.05	5.77	0.02
102.00	104.00	466157	CORE_HALF	570.09	58.6	21.93	3.92	55.5	24.1	0.589	4800	0.009	0.14	8.14	0.04
104.00	106.00	466158	CORE_HALF	503.09	46.9	28.68	4.3	45.5	11.3	0.365	6400	0.006	0.11	1.23	0.04
106.00	108.00	466159	CORE_HALF	472.39	32.8	3.76	3.96	43.8	11.1	0.387	5900	-0.005	0.09	1.2	0.07
108.00	110.00	466161	CORE_HALF	706.23	208	10.09	2.84	55.8	11.3	0.706	8200	-0.005	0.45	0.67	0.21
110.00	112.00	466162	CORE_HALF	526.24	41.9	3.26	2.91	54.8	9.9	0.41	8100	-0.005	0.18	0.73	0.14
112.00	114.00	466163	CORE_HALF	350.12	47.7	4.95	4.99	55.3	12.2	0.262	6400	0.005	0.11	0.85	0.03
114.00	116.00	466164	CORE_HALF	145.47	18.7	4.26	5.69	41.8	9.5	0.199	3400	-0.005	0.13	1.98	0.01
116.00	118.00	466165	CORE_HALF	247.54	31.7	6.49	6.33	51.4	13.7	0.249	2400	0.006	0.2	4.8	0.03
118.00	120.00	466166	CORE_HALF	204.69	30.6	3.44	5.21	50.4	12.5	0.17	3700	-0.005	0.11	4.43	0.01
120.00	122.00	466167	CORE_HALF	133.25	22	3.48	5.11	53.5	16.6	0.099	8400	-0.005	0.09	2.9	0.01
122.00	124.00	466168	CORE_HALF	870.5	56.2	6.11	3.79	58.1	14.7	0.617	7400	0.005	0.17	0.97	0.06
124.00	126.00	466169	CORE_HALF	236.65	26.3	3.13	1.89	63.1	17	0.171	15900	-0.005	0.07	0.61	0.03
126.00	128.00	466170	CORE_HALF	740.78	77.4	2.71	3.05	64	16.7	0.539	19000	-0.005	0.09	0.7	0.11
128.00	130.00	466171	CORE_HALF	2866.92	198.1	12.18	4.36	51.4	19.6	2.075	13600	0.007	0.32	1.1	0.31
130.00	132.00	466172	CORE_HALF	415.63	43.1	3.87	4.85	60.2	17.7	0.317	8100	-0.005	0.14	1.38	0.03
132.00	133.50	466173	CORE_HALF	624.11	62.1	13.85	3.34	73.1	19.2	0.46	21000	0.005	0.14	1.45	0.06
133.50	135.00	466174	CORE_HALF	121.08	17.7	5.63	5.1	58	27.3	0.12	10000	0.007	0.19	9.32	-0.02
135.00	137.00	466175	CORE_HALF	256.32	21.2	6.74	5.2	55.4	16.2	0.238	9600	0.007	0.16	1.43	0.05
137.00	139.00	466176	CORE_HALF	1367.89	124.3	10.44	8.98	47.4	11.6	1.063	2400	0.008	0.28	1.34	0.17

139.00	141.00	466177	CORE_HALF	752.74	64.8	6.07	7.6	43.1	10.4	0.609	2700	-0.005	0.27	0.68	0.12
141.00	143.00	466178	CORE_HALF	604.62	31.8	7.1	6.83	42.4	6.4	0.475	3100	0.005	0.18	0.58	0.08
143.00	145.00	466179	CORE_HALF	410.14	36.9	13.85	6.47	39.8	5.8	0.327	5900	0.005	0.1	0.35	0.06
145.00	147.00	466181	CORE_HALF	296.46	13.3	8.63	6.15	33.8	6.2	0.215	3300	-0.005	0.13	0.4	0.05
147.00	149.00	466182	CORE_HALF	506.47	51.4	19.8	7.45	43.1	14.4	0.474	3200	-0.005	0.28	1.26	0.13
149.00	150.50	466183	CORE_HALF	215.4	24.6	4.85	7.2	38.2	7.9	0.258	3000	-0.005	0.24	1.38	0.04
150.50	151.80	466184	CORE_HALF	193.57	18.7	7.09	7.33	45.1	47.1	0.219	3300	0.21	0.17	20.7	0.06
151.80	153.80	466185	CORE_HALF	843.51	65.3	10.04	7.13	35.1	22.6	0.546	3400	-0.005	0.16	1.22	0.14
153.80	156.00	466186	CORE_HALF	241.37	17.6	2.97	4.43	51.6	12.2	0.228	8700	0.005	0.11	0.82	0.04
156.00	158.20	466187	CORE_HALF	1323.74	76	14.67	9.75	78	477	0.981	2900	1.381	0.22	49.56	0.14
158.20	160.00	466188	CORE_HALF	116.44	14.2	3.04	9.31	33.7	10.9	0.247	2400	0.013	0.11	1.77	0.02
160.00	162.00	466189	CORE_HALF	356.68	25.8	5.11	8.34	38.4	44.8	0.366	2500	0.015	0.16	1.94	0.05
162.00	164.00	466190	CORE_HALF	761.5	45.6	8.84	7.71	38.1	148.1	0.576	3500	0.263	0.24	2.69	0.11
164.00	165.00	466191	CORE_HALF	7736.78	258.5	13.07	6.51	39.9	184.2	3.987	4600	0.012	0.35	2.46	0.89
165.00	166.00	466212	CORE_HALF	939.44	39.3	5.48	4.62	38.9	125	0.606	2700	0.184	0.16	8.46	0.09
166.00	168.00	466192	CORE_HALF	366.75	23.3	4.69	3.33	43.3	31.1	0.254	5600	0.095	0.1	2.09	0.04
168.00	169.90	466193	CORE_HALF	615.74	29.7	10.15	3.75	38.1	54.2	0.401	4800	0.008	0.16	1.6	0.06
169.90	170.90	466194	CORE_HALF	469.52	45.8	11.74	7.92	63	101.9	0.39	4100	2.865	0.12	37.51	0.08
170.90	173.00	466195	CORE_HALF	1298.7	109.4	16.85	5.75	41.6	58.9	0.818	4600	0.007	0.2	1.31	0.12
173.00	174.20	466196	CORE_HALF	578.78	32.8	14.77	5.72	39.4	31.2	0.414	3300	0.018	0.09	6.14	0.05
174.20	176.00	466197	CORE_HALF	628.62	29.9	25	5.13	44.8	53.5	0.465	3600	0.309	0.16	25.8	0.12
176.00	178.00	466198	CORE_HALF	756.35	35.8	13.76	6.32	41.8	52.9	0.496	4800	0.162	0.22	7.59	0.13
178.00	180.00	466199	CORE_HALF	1804.61	90.9	41.51	8.09	76.7	219.3	1.183	4400	1.465	0.21	57.87	0.15
180.00	182.00	466201	CORE_HALF	349.63	12.7	2.76	5.2	55.4	36.7	0.3	4600	1.455	0.09	22.16	0.2
182.00	184.00	466202	CORE_HALF	540.72	28.1	4.25	7.44	50.2	32.3	0.419	4100	1.153	0.08	22.55	0.15
184.00	186.00	466203	CORE_HALF	2616.37	128.4	11.96	6.64	45.3	164.7	1.668	3700	0.203	0.17	9.09	0.25
186.00	188.00	466204	CORE_HALF	574.47	37.5	4.04	3.47	49.7	65.7	0.454	4200	1.173	0.07	15.33	0.07
188.00	190.00	466205	CORE_HALF	355.97	15.4	1.27	4.45	70.1	68	0.269	4500	2.378	0.05	28.2	0.06
190.00	192.00	466206	CORE_HALF	309.95	10.5	0.4	2.69	49.2	9.1	0.243	4500	0.023	0.03	1.24	0.04
192.00	194.50	466207	CORE_HALF	497.3	17.5	1.84	4.03	55.9	16.4	0.43	5100	0.087	0.08	4.78	0.04
194.50	196.00	466208	CORE_HALF	245.21	6.4	2.66	4.74	58.3	14	0.212	6200	0.008	0.14	5.05	0.02
196.00	198.00	466209	CORE_HALF	652.65	26.3	2.43	3.94	53.5	70	0.427	5300	0.241	0.08	7.8	0.06
198.00	200.00	466210	CORE_HALF	242.03	18.4	0.71	2.32	44.2	7.3	0.259	4100	-0.005	0.06	0.45	0.03
200.00	202.00	466211	CORE_HALF	412.26	34.7	3.38	3.84	56.5	15.8	0.305	3900	0.721	0.11	7.79	0.1
202.00	204.00	466213	CORE_HALF	245.63	41.1	3.07	5.34	55.1	14	0.205	6800	0.006	0.1	0.86	0.04
204.00	206.00	466214	CORE_HALF	266.18	23.1	4.84	2.83	49	8.9	0.223	5900	-0.005	0.17	0.45	0.12

206.00	208.00	466215	CORE_HALF	471.03	14.1	4.26	2.58	57.9	6.8	0.39	2600	-0.005	0.11	0.47	0.05
208.00	210.00	466216	CORE_HALF	328.17	11.5	3.17	2.81	59	7.9	0.294	3600	-0.005	0.08	0.53	0.03
210.00	212.00	466217	CORE_HALF	428.17	20.1	7.77	3.71	38.8	10.7	0.291	6000	-0.005	0.14	0.68	0.08
212.00	214.00	466218	CORE_HALF	482.85	17.1	4.23	7.73	52.2	29.9	0.283	5100	0.039	0.18	7.83	0.04
214.00	216.00	466219	CORE_HALF	179.21	12.6	2.84	3.91	37.5	15.1	0.162	4500	0.736	0.05	7.74	0.14
216.00	218.00	466221	CORE_HALF	312.53	15.5	3.7	4.68	44.9	42	0.298	5300	0.624	0.15	4.4	0.16
218.00	220.00	466222	CORE_HALF	260.26	15.1	3.88	3.55	53.5	15.9	0.24	9000	0.024	0.2	3.71	0.04
220.00	222.00	466223	CORE_HALF	596.07	24.5	2.43	3.65	68.9	34.4	0.493	5600	1.882	0.1	17.7	0.04
222.00	224.00	466224	CORE_HALF	863.33	43.3	1.76	3.28	54.2	18.3	0.533	4700	0.017	0.13	1.4	0.04
224.00	225.00	466225	CORE_HALF	2176.44	57.4	9.12	6.03	30.7	533.4	0.777	3100	0.396	0.24	11.02	0.19
225.00	227.00	466226	CORE_HALF	1885.74	115.9	4.73	8.27	35	301.1	0.966	3000	0.167	0.28	17.82	0.27
227.00	229.00	466227	CORE_HALF	618.5	34.8	3.52	4.39	36.4	97.3	0.367	3600	0.06	0.1	4.95	0.06
229.00	231.00	466228	CORE_HALF	526.15	27.5	18.51	10.06	74.1	109	0.497	3100	6.702	0.28	33.84	0.11
231.00	233.00	466229	CORE_HALF	293.14	22.4	2.68	5.54	43.6	48	0.238	3300	0.808	0.09	9.04	0.03
233.00	235.00	466230	CORE_HALF	509.19	26.3	6.59	6.38	61.1	22.3	0.388	6000	0.033	0.23	0.81	0.14
235.00	237.00	466231	CORE_HALF	467.85	28.4	4.47	4.48	47.1	12.4	0.247	6800	-0.005	0.08	0.72	0.07
237.00	239.00	466232	CORE_HALF	279.82	42.7	2.71	4.6	52	14.8	0.179	5600	0.013	0.09	1.84	0.05
239.00	241.00	466233	CORE_HALF	499.06	27.7	3.41	5.78	70.2	19	0.276	2500	0.009	0.13	15.42	0.04
241.00	243.00	466234	CORE_HALF	302.01	19.6	3.46	3.02	60.6	8.7	0.195	6500	0.012	0.09	1.29	0.05
243.00	244.70	466235	CORE_HALF	593.93	32.5	4.66	4.16	41.5	9.9	0.291	4600	-0.005	0.1	0.55	0.12
244.70	246.00	466236	CORE_HALF	722.9	46.7	5.74	5.79	39.9	12.3	0.482	3400	0.014	0.17	3.67	0.44
246.00	247.00	466237	CORE_HALF	2076.28	81	6.6	8.69	30.2	13.7	1.044	2600	-0.005	0.2	0.29	0.72
247.00	248.00	466238	CORE_HALF	2255.49	113.6	7.71	8	26.4	16.6	1.286	2800	0.013	0.31	0.24	0.93
248.00	249.15	466239	CORE_HALF	4225.23	130.7	7.87	5.01	35.4	46.7	1.913	3700	0.013	0.28	0.46	0.86
249.15	251.00	466241	CORE_HALF	934.34	70.5	5.66	4.89	44.7	63.6	0.507	4200	-0.005	0.16	0.66	0.18
251.00	253.00	466242	CORE_HALF	480.21	56.5	3.41	8.12	40.9	16.7	0.287	3200	-0.005	0.09	0.84	0.07
253.00	255.00	466243	CORE_HALF	340.42	16.9	3.63	9.61	42.8	17.1	0.213	2600	-0.005	0.08	0.46	0.09
255.00	257.00	466244	CORE_HALF	262.28	19.2	7.64	9.56	46	7.2	0.154	2400	-0.005	0.09	0.37	0.25
257.00	259.00	466245	CORE_HALF	869.22	37.7	6.14	7.9	39.7	9.9	0.382	2700	0.005	0.11	0.4	0.39
259.00	261.00	466246	CORE_HALF	2211.86	79	72.85	9.08	49.3	8.9	1.077	3800	-0.005	0.23	0.71	1.08
261.00	263.00	466247	CORE_HALF	3624.13	181.5	11.96	8.48	41.9	8.7	1.282	2900	0.005	0.24	0.47	1.47
263.00	265.00	466248	CORE_HALF	187.56	11.2	2.94	5.74	33.5	6.4	0.137	4000	-0.005	0.11	0.47	0.46
265.00	267.00	466249	CORE_HALF	172.62	10	3.43	4.13	29.7	5.5	0.098	4300	0.005	0.04	0.39	0.07
267.00	269.00	466250	CORE_HALF	360.2	28.4	3.72	3.77	31.7	5.7	0.198	2600	-0.005	0.05	0.43	0.12
269.00	271.00	466251	CORE_HALF	458.89	36.8	3.68	4.21	37.9	7.8	0.254	2100	-0.005	0.07	0.72	0.18
271.00	273.00	466252	CORE_HALF	353.58	26.4	2.16	5.72	44	10	0.231	2900	-0.005	0.1	0.76	0.34

273.00	275.00	466253	CORE_HALF	291.58	28	1.96	4.33	58.7	8.6	0.221	2400	-0.005	0.06	0.81	0.05
275.00	277.00	466254	CORE_HALF	701.69	31.6	13.31	4.43	63.2	12.6	0.533	3100	-0.005	0.23	0.65	0.53
277.00	279.00	466255	CORE_HALF	1800.64	89.8	8.14	4.08	46.4	10.3	0.784	7500	0.041	0.14	2.54	0.39
279.00	281.00	466256	CORE_HALF	1669.68	59.2	5.37	2.51	50.8	18.3	2.36	11100	0.009	0.14	0.45	0.51
281.00	283.00	466257	CORE_HALF	166.93	17.8	5.87	2.82	52.3	8	0.238	8000	-0.005	0.23	0.33	0.23
283.00	285.00	466258	CORE_HALF	171.26	7.3	2.95	4.36	40	10.4	0.138	3200	-0.005	0.06	0.65	0.08
285.00	287.00	466259	CORE_HALF	646.73	24.2	2.32	5.32	51.1	12.8	0.413	6000	-0.005	0.19	0.63	0.44
287.00	289.00	466261	CORE_HALF	1153.54	51.1	5.92	5.77	43	11.6	0.77	4300	0.062	0.37	0.82	0.26
289.00	291.00	466262	CORE_HALF	620.92	29.3	4.83	5.45	52.2	10.3	0.359	5800	0.046	0.17	0.35	0.08
291.00	293.00	466263	CORE_HALF	662.32	38	4.06	4.87	59.2	30.6	0.462	9000	0.026	0.22	0.91	0.18
293.00	295.00	466264	CORE_HALF	383.59	36.5	3.66	4.47	36.9	8.5	0.249	4200	0.026	0.18	0.49	0.31
295.00	297.00	466265	CORE_HALF	2229.61	123.3	20.2	4.01	38.9	9.7	1.272	5100	-0.005	0.23	0.46	0.68
297.00	299.00	466266	CORE_HALF	516.79	55.4	4.66	3.02	44.4	12.2	0.363	6100	0.005	0.21	0.48	0.32
299.00	301.00	466267	CORE_HALF	525.12	52.9	6	4.45	41.8	8.1	0.256	2900	-0.005	0.13	0.6	0.75
301.00	303.00	466268	CORE_HALF	449.01	22.8	3.24	4.28	41.4	8.2	0.274	2700	0.034	0.46	1.32	0.3
303.00	305.00	466269	CORE_HALF	320.35	43.8	4.07	6.08	51.2	26.9	0.385	4600	3.855	0.29	25.67	0.24
305.00	307.00	466270	CORE_HALF	654.09	47	11.5	3.05	36.9	23.5	0.382	4500	0.228	0.15	3.66	0.11
307.00	309.00	466271	CORE_HALF	204.39	81.4	3.86	3.07	47.3	8.7	0.141	6000	0.013	0.08	0.72	0.07
309.00	311.00	466272	CORE_HALF	187.74	76.3	2.89	2.56	41	8.5	0.119	3100	-0.005	0.08	0.78	0.02
311.00	313.00	466273	CORE_HALF	230.73	35	3.48	3.57	44.1	7.4	0.116	1000	0.011	0.1	0.64	0.04
313.00	315.00	466274	CORE_HALF	739.88	45.7	8.73	4.67	37.9	9.8	0.349	4100	-0.005	0.21	0.79	0.41
315.00	317.00	466275	CORE_HALF	1051.25	48	8.83	3.34	52	8.8	0.47	10200	-0.005	0.42	0.27	1.09
317.00	319.00	466276	CORE_HALF	206.84	19.5	14.94	3.61	62.1	10.9	0.155	7300	0.011	0.29	1.25	0.25
319.00	321.00	466277	CORE_HALF	227.11	13.8	15.57	3.19	58.6	10.7	0.175	7600	0.017	0.24	1.05	0.24
321.00	323.00	466278	CORE_HALF	11.34	7.5	2.69	3.4	53.3	16.3	0.022	8700	0.016	0.31	3.26	0.1
323.00	325.00	466279	CORE_HALF	3.27	8.7	4.41	3.12	57.7	13.2	0.014	7600	0.02	0.18	2.2	0.15
325.00	327.00	466281	CORE_HALF	2.76	1.6	7.54	3.05	79.1	15.8	0.032	7600	0.009	0.32	3.77	0.15
327.00	329.00	466282	CORE_HALF	7.33	7.8	11.73	3.61	99.9	15	0.02	4000	0.04	0.37	4.09	0.15
329.00	331.00	466283	CORE_HALF	17.31	3.9	8.04	4.04	71.1	11.4	0.036	2900	0.155	0.24	5.95	0.09
331.00	333.00	466284	CORE_HALF	28.82	2.7	6.38	6.32	54.8	32.1	0.019	1500	0.047	0.56	24.13	0.11
333.00	335.00	466285	CORE_HALF	22.17	1.1	13.8	5.42	136.2	14.4	0.023	1800	0.032	0.15	8.8	0.05
335.00	337.00	466286	CORE_HALF	22.72	1.4	11.59	4.37	94.9	10.4	0.029	2000	0.067	0.33	7.03	0.07
337.00	339.00	466287	CORE_HALF	133.46	3.5	37.69	7.71	53.5	27.7	0.067	3300	0.056	0.47	27.34	0.07
339.00	341.00	466288	CORE_HALF	213.96	15.3	5.92	4.23	40	22.7	0.12	2600	0.691	0.62	12.46	1.5
341.00	343.00	466289	CORE_HALF	35.1	13.8	4.96	3.38	37.1	16.3	0.049	4400	0.081	0.55	3.72	1.58
343.00	345.00	466290	CORE_HALF	54.91	33.1	8.89	4.28	34.1	29.9	0.074	10600	0.112	1.11	3.85	2.9

345.00	347.00	466291	CORE_HALF	32.23	15.4	22.86	2.39	49.1	14.4	0.04	17500	0.056	0.67	2.12	2.05
347.00	349.00	466292	CORE_HALF	119.2	40.7	16.65	2.17	45	15	0.087	19800	0.068	0.64	1.1	2.54
349.00	351.00	466293	CORE_HALF	66.42	132.4	16.87	4.01	45.2	28.3	0.088	14200	0.137	1.08	3.13	3.98
351.00	353.00	466294	CORE_HALF	69.38	99.6	14.53	2.59	57.2	24.6	0.1	26500	0.14	1.02	1.79	3.6
353.00	355.00	466295	CORE_HALF	277.71	120.7	10.42	2.31	62.6	25.5	0.234	26700	0.13	0.97	0.82	5.02
355.00	357.00	466296	CORE_HALF	855.34	168.4	4.31	3.1	47.6	30.6	0.673	16600	0.06	0.78	0.89	5.14
357.00	359.00	466297	CORE_HALF	31.09	18.7	26.85	3.59	46.9	15.6	0.085	14500	0.044	0.51	1.06	2.5
359.00	361.00	466298	CORE_HALF	32.35	19.4	4.28	3.2	46.5	15.5	0.07	12000	0.077	0.76	0.69	2.64
361.00	363.00	466299	CORE_HALF	21.75	28.6	8.42	3.87	33.1	17.3	0.146	5800	0.298	1.53	3.77	2.57
363.00	365.00	466301	CORE_HALF	26.57	17.9	14.01	3.36	26.2	13.3	0.071	10100	0.036	0.78	3.11	1.77
365.00	367.00	466302	CORE_HALF	42.18	18.4	9.2	2.3	29.4	13.4	0.06	14500	0.005	1.1	0.57	3.39
367.00	369.00	466303	CORE_HALF	89.16	13.4	4.2	1.07	51.1	12	0.067	22700	-0.005	0.54	0.14	2.28
369.00	371.25	466304	CORE_HALF	22.47	8.5	6.12	1.87	36.1	11.1	0.035	13600	-0.005	0.52	0.38	2.03

Geoinformatics Exploration Inc

GEOINFORMATICS EXPLORATION
DRILL HOLE LOG

TK06_01

Collar

Hole ID	TK06_01	*Hole type*	DD		*Drilling company*	*Grid ID*	NAD83_UTM_10	
DataSet	GXL_REDTON_2006	*Depth*	365.76	m	*Geologist*	*Easting*	360111.00	*RL*
Prospect	TAK Zone	*Commenced*			*Survey Method*	*Northing*	6175683.00	
Tenement		*Completed*			*Notes*			

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
0.00	m	330.1	NAD83_UTM	-60.0	CAMERA	
60.96	m	322.6	NAD83_UTM	-59.7	CAMERA	
121.92	m	323.2	NAD83_UTM	-60.3	CAMERA	
182.88	m	325.6	NAD83_UTM	-60.9	CAMERA	
243.84	m	324.5	NAD83_UTM	-61.4	CAMERA	
304.80	m	328.4	NAD83_UTM	-61.6	CAMERA	
365.76	m	330.8	NAD83_UTM	-61.6	CAMERA	

Lithology

Logged by: John_Mair

			Lith 1					*Lith 2*					
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	7.62	CASE												
7.62	48.65	VITB	M	pp	pp		100							
48.65	61.85	VIT	M	pp	pp		100							
61.85	73.20	VITB	M	pp	pp		100							
73.20	77.04	VIT	M	pp	pp		100							
77.04	79.80	VITB	M	pp	pp		100							
79.80	80.20	VIT	M	pp	pp		100							
80.20	81.00	VITB	M	pp	pp		100							
81.00	98.65	VIT	M	pp	pp		100							
98.65	107.10	VIT	M	pp	pp	am	100							
107.10	133.90	VITB	M	pp	pp		100							

133.90	138.00	VIT	M	pp	pp		100
138.00	142.00	VIB	F	bs	eq		100
142.00	146.25	VITB	M	pp	pp		100
146.25	150.90	VITB	M	pp	pp		100
150.90	178.23	VITB	M	pp	pp		100
178.23	179.45	VIB	F	bs	eq		100
179.45	199.85	VITB	M	pp	pp		100
199.85	203.14	VIB	F	bs	eq		100
203.14	238.77	VITB	M	pp	pp		100
238.77	240.75	VITB	M	pp	pp	am	100
240.75	243.15	VIB	F	bs	eq		100
243.15	245.50	VITB	M	pp	pp		100
245.50	255.77	VITB	M	pp	pp	am	100
255.77	278.33	VITB	M	pp	pp		100
278.33	283.60	VIB	F	bs	eq		100
283.60	298.60	VITB	M	pp	pp	am	100
298.60	337.52	VIT	M	pp	pp		100
337.52	339.92	VIB	F	bs	eq		100
339.92	349.26	VITB	M	pp	pp	am	100
349.26	365.76	VITB	M	pp	pp		100

Lithology

Logged by: John_Mair

From	*To m*	*Description*
0.00	7.62	
7.62	48.65	Basaltic trachyandesite Medium to coarse grained pyroxenes in fine matrix. Other phenocrysts include alkali feldspar, plagioclase feldspar and k-feldspar. Other phenocrysts tend to be subrounded and include k-feldspar and plagioclase -these are subtle and only visible with handlens. Unit contains magnetite throughout.
48.65	61.85	increase in abundance of feldspar phenocrysts, feldspars are rounded. Other phenocrysts include pyroxene, magnetite
61.85	73.20	Basaltic trachyandesite Medium to coarse grained pyroxenes in fine matrix. Other phenocrysts include alkali feldspar, plagioclase feldspar and k-feldspar. Other phenocrysts tend to be subrounded and include k-feldspar and plagioclase -these are subtle and only visible with handlens. Unit contains magnetite throughout.
73.20	77.04	increase in abundance of feldspar phenocrysts, feldspars are rounded. Other phenocrysts include pyroxene, magnetite
77.04	79.80	Basaltic trachyandesite. Medium to coarse grained pyroxenes in fine matrix. Other phenocrysts include alkali feldspar, plagioclase feldspar and k-feldspar. Other phenocrysts tend to be subrounded and include k-feldspar and plagioclase -these are subtle and only visible with handlens. Unit contains magnetite throughout.
79.80	80.20	increase in abundance of feldspar phenocrysts, feldspars are rounded. Other phenocrysts include pyroxene, magnetite
80.20	81.00	Basaltic trachyandesite Medium to coarse grained pyroxenes in fine matrix. Other phenocrysts include alkali feldspar, plagioclase feldspar and k-feldspar. Other phenocrysts tend to be subrounded and include k-feldspar and plagioclase -these are subtle and only visible with handlens. Unit contains magnetite throughout.
81.00	98.65	increase in abundance of feldspar phenocrysts, feldspars are rounded. Other phenocrysts include pyroxene, magnetite . Textural change to smaller less defined phenocrysts.
98.65	107.10	unit is identical to overlying unit but differentiated based on the presence of possible amygdales which are relatively large(up to 1.5cm) infilled with varying proportions of epidote, quartz and possible k-spar. Amygdales are rounded, blobby. Often show epidote rim with quartz/calcite core.

107.10	133.90	Basaltic trachyandesite. Medium to coarse grained pyroxenes in fine matrix. Other phenocrysts include alkali feldspar, plagioclase feldspar and k-feldspar. Other phenocrysts tend to be subrounded and include k-feldspar and plagioclase -these are subtle and only visible with hand lens. Unit contains magnetite throughout. Local patches of "amygdales" as described in overlying unit, although smaller in size, up to 8 mm in diameter.
133.90	138.00	unit is identical to overlying unit but differentiated based on the presence of possible amygdales which are relatively large(up to 1.5cm) infilled with varying proportions of epidote, quartz and possible k-spar.
138.00	142.00	basaltic andesite. Colour of unit is reminiscent of groundmass of overyling porphyritic rocks however, unit is generally non-porphyritic and massive. Possible fine-grained amphibole phenocrysts.
142.00	146.25	Basaltic trachyandesite. Unit appears to be a porphyritic volcanic within which the dominant phenocryst is pyroxene, since altered to epidote
146.25	150.90	Unit is similar to overlying unit only higher content of feldspar phenocrysts (although still minimal) and distinct 'amygdales' - large rounded 'blobs' of k-spar intergrown with calcite and epidote
150.90	178.23	Basaltic trachyandesite. Unit appears to be a porphyritic volcanic within which the dominant phenocryst is pyroxene, since altered to epidote. Other phenocryst types are present in lesser amounts, and finer grained, including plagioclase and amphibole (?). There is a relatively finer grained heavily altered intersection in the unit from 152.5 to approx. 154.1m, althought relict textures indicate that this is part of the same lithology. Unit contains local areas of larger phenocrysts possible representing amygdales, similar to the "amygdales" described in the unit above.
178.23	179.45	basaltic andesite. Colour of unit is reminiscent of groundmass of overyling porphyritic rocks however, unit is generally non-porphyritic and massive. Possible fine-grained amphibole phenocrysts. The overlying and underlying units contain interfingers of this finer grained unit. (possible pillow selvages ?)
179.45	199.85	Basaltic trachyandesite. Unit appears to be a porphyritic volcanic within which the dominant phenocryst is pyroxene, since altered to epidote. Other phenocryst types are present in lesser amounts, and finer grained, including plagioclase and amphibole (?). Upper portion of the interval contains interleaved veinlets of the overlying lithology possibly representing pillow selvages.
199.85	203.14	Basaltic Andesite - unit is fine grained and generally non-porphyritic.Alteration is more extensive than previously logged basaltic andesites
203.14	238.77	Basaltic trachyandesite. Unit appears to be a porphyritic volcanic within which the dominant phenocryst is pyroxene, since altered to epidote. Other phenocryst types are present in lesser amounts, and finer grained, including plagioclase and amphibole (?).
238.77	240.75	Interval is highly similar to overlying basaltic trachyandesite however it is characterised by a high abundance of possible amygdales (up to 1.5cm in diameter) infilled with quartz, epidote and k-spar.
240.75	243.15	fine grained dark rock with possible fine grained amphibole phenocrysts. Portions of unti are highly fractured with carbonate veining.
243.15	245.50	Basaltic trachyandesite. Unit appears to be a porphyritic volcanic within which the dominant phenocryst is pyroxene, since altered to epidote. Other phenocryst types are present in lesser amounts, and finer grained, including plagioclase and amphibole (?).
245.50	255.77	Interval is characterised by a high abundance of possible amygdales (up to 1.5cm in diameter) infilled with quartz, epidote and k-spar.
255.77	278.33	Local patches of possible amygdales.
278.33	283.60	Interval is dominated by fine grained massive dark volcanic rock although local areas of porphyritic material are present. A subtle fabric is present in the rock from 281.05 to 281.24m (possible flow banding?)
283.60	298.60	Interval is a highly variable flow package with areas dominated by possible amygdale (generally epidote filled), areas containing a high proportion of plagioclase phenocrysts (less mafic flows?), as well as rare narrow non-porphyritic volcanic units. Lower contact is characterised by possible fault gouge.
298.60	337.52	This unit is similar to overlying porphyritic volcanics however it is characterised by an increased abundance of plagioclase phenocrysts.
337.52	339.92	Interval is dominated by fine grained massive dark volcanic rock although local areas of porphyritic material are present.
339.92	349.26	Interval is a highly variable flow package with areas dominated by possible amygdales (infilled variably by carbonate, k-feldspar and epidote), areas containing a high proportion of plagioclase phenocrysts (less mafic flows?), as well as rare narrow non-porphyritic volcanic units.
349.26	365.76	Interval is characterised by medium grained pyroxene phenocrysts set in an afinitic groundmass. These phenocrysts are altered to epidote.

Alteration

From	*To m*	*Total Int.*	*Alt1*	*Style*	*Int.*	*Alt2*	*Style*	*Int.*	*Alt3*	*Style*	*Int.*	*Comments*
7.62	35.70	WK	EZ	pv	WK	MT	pat	MOD	KF	ff	TR	Epidote associated with alteration of pyroxene and presence of patchy moderate magnetite alteration
35.70	45.00	WK	EZ	pat	WK	MT	pat	WK	KF	ff	TR	irregulary spaced patches of epidote alteration

45.00	48.65	TR	EZ	pv	TR							epidote alteration of pyroxene
48.65	49.30	MOD	KF	pv	TR	CN	pv	WK	SL	pv	WK	weak sericitization also evident
49.30	51.20	STG	KF	pv	WK	CN	pv	MOD	SL	pv	WK	pervasive sericite alteration also evident
51.20	54.60	WK	EZ	pv	WK	KF	pat	WK	CN	ff	WK	epidote alteration of pyroxene
54.60	55.80	MOD	KF	pat	WK	EZ	pv	MOD	CH	pv	WK	
55.80	62.80	WK	EZ	pv	WK	CH	pv	TR	KF	pv	TR	epidote alteration of pyroxene
62.80	64.25	STG	CN	pv	MOD	SL	pv	WK	SR	pv	WK	fault/gauge zone
64.25	73.25	WK	EZ	pv	WK	CN	pv	TR	KF	ff	TR	epidote alteration of pyroxene, possible garnet associated with carbonate and epidote alteration patches.
73.25	98.56	TR	EZ	pv	TR	KF	ff	TR	CN	pv	TR	locally epidote alteration increases
98.56	107.10	WK	EZ	pv	TR	KF	ff	TR	CN	rep	MOD	Carbonate is seen both as fracture controlled veinlets and as possible replacement within amygdales. At 106.32m there is a small patch of redish-brown semi-vitrious mineral with no clearly defined crystal boundries - possible garnet (sphalerite?); associated with carbonate.
107.10	123.85	WK	EZ	pv	TR	KF	ff	TR	CN	ff	WK	The most significant alteration in this interval consists of fracture controlled carbonate in anastomosing microfractures. Pyroxene phenocrysts are pervasively altered to epidote.
123.85	125.37	WK	EZ	rep	WK	KF	ff	TR	CN	ff	TR	
125.37	138.00	WK	EZ	pv	TR	KF	ff	TR	CN	ff	WK	The most significant alteration in this interval consists of fracture controlled carbonate in anastomosing microfractures. Pyroxene phenocrysts are pervasively altered to epidote. From 135.84 to 136.2m is an interval of strong fracture controlled epidote alteration with minor pyrite.
138.00	142.00	TR	EZ	ff	TR	CN	ff	TR	KF	ff	TR	Finer grained less altered unit.
142.00	145.50	TR	EZ	pv	WK	CN	ff	TR	KF	ff	TR	Unit is distinguished by epidote alteration of pyroxene phenocrysts. Local k-spar veining is seen often associated with epidote. Local areas of carbonate filled microfractures.
145.50	152.50	WK	EZ	pv	WK	CN	ff	WK	KF	ff	TR	Unit is similar to overlying unit however, it is distinguished by an increased abundance of carbonate microfractures
152.50	154.10	MOD	EZ	pv	STG	CH	bib	WK	CN	ff	WK	Bottom portion of the unit is characterised by possible hydrothermal garnet alteration; the most distinct feature of this unit is a zone of epidote and chlorite alteration centred on a quartz vein at 153.18m. The zone is lineated parallel to the quartz vein which has an alpha angle of 35degrees.
154.10	178.23	TR	EZ	pv	WK	CN	ff	TR	KF	ff	TR	Unit is distinguished by epidote alteration of pyroxene phenocrysts. Local k-spar veining is seen often associated with epidote. Local areas of carbonate filled microfractures.
178.23	179.45	TR	EZ	ff	TR	CN	ff	TR	KF	ff	TR	Finer grained less altered unit.
179.45	194.37	TR	EZ	pv	WK	CN	ff	TR	KF	ff	TR	Unit is distinguished by epidote alteration of pyroxene phenocrysts. Local k-spar veining is seen often associated with epidote. Local areas of carbonate filled microfractures.
194.37	199.85	WK	EZ	pv	WK	CN	ff	TR	KF	pv	WK	Patchy pervasive kspar alteration (siderite?), seen as patches and replacement of phenocrysts locally. Local k-spar veining is seen often associated with epidote. Local areas of carbonate filled microfractures. Pervasive epidotisation of phenocrysts.
199.85	203.14	MOD	KF	vsel	MOD	EZ	vsel	WK	CN	ff	TR	Interval is charaterised by the presence of finegrained intergrowths of kspar and epidote pervaiding the wall rock around various fractures. Carbonate is still present in microfractures minimally.
203.14	206.36	MOD	KF	vsel	MOD	EZ	vsel	WK	EZ	pv	WK	Unit is altered similar to overlying fine grained unit however epidotised pyroxene phenocrysts are no ubiquitous
206.36	207.65	MOD	CN	ff	MOD	HM	fsel	WK	CH	pv	WK	Unit is characterised by a relativley high density of carbonate healed fractures and microfractures.

207.65	214.10	MOD	KF	vsel	MOD	EZ	vsel	WK	EZ	pv	WK	Interval is dominated by epidotisation of pyroxene phenocrysts with local patchy areas of kspar (siderite?) and epidote vein selvage.
214.10	240.75	WK	EZ	pv	WK	EZ	vsel	TR	CN	ff	TR	epidotisation of pyroxene phenocrysts is ubiquitous. Local epidote veining +/- k-spar. Trace carbonate fractures and microfractures in local restricted areas.
240.75	243.15	WK	CN	fsel	WK	EZ	vsel	TR	CH	fsel	TR	interval is characterised by areas strongly fractured and carbonate infilled.
243.15	278.33	WK	EZ	pv	WK	CN	fsel	TR	EZ	vsel	TR	Large interval of generally weakly altered rocks within which the dominant alteration is epidotisation of pyroxene phenocrysts with subordinate amounts of epidote veining and carbonate fracture fill.
278.33	283.26	TR	EZ	vsel	TR	CN	fsel	TR	KF	vsel	TR	Unit is an interval of relativley unaltered volcanic rock although small local areas of stronger alteration are contained within.
283.26	299.87	WK	EZ	pv	WK	CN	fsel	TR	EZ	vsel	TR	Most characteristic alteration of this unit is epidotisation of pyroxene phenocrysts.
299.87	300.60	STG	BLE	pv	STG	CH	pv	MOD	CN	ff	MOD	Interval is a strongly altered bleached zone centred on the calcitic fracture/breccia located at 300.23m. Disseminated flecks of haematitie are noted locally.
300.60	307.67	WK	EZ	pv	WK	CN	fsel	TR	EZ	vsel	TR	Most characteristic alteration of this unit is epidotisation of pyroxene phenocrysts.
307.67	308.10	STG	BLE	pv	STG	CH	pv	MOD	CN	ff	MOD	Interval is a bleached altered zone associated with faulting. Similar to above noted bleached zone.
308.10	337.52	WK	EZ	pv	WK	CN	fsel	TR	EZ	vsel	WK	Most characteristic alteration of this unit is epidotisation of pyroxene phenocrysts. Epidote veining/selvage is relatively commonplace.
337.52	339.92	TR	EZ	vsel	TR	CN	fsel	TR				Fine grained less altered volcanic.
339.92	341.00	MOD	CH	vsel	WK	EZ	blb	WK	CN	vsel	WK	
341.00	349.26	WK	EZ	vsel	TR	CN	fsel	TR	EZ	blb	TR	
349.26	349.45	STG	EZ	vsel	MOD	CN	vsel	MOD	SD	vsel	MOD	
349.45	365.76	TR	EZ	vsel	TR	CN	fsel	TR	EZ	pv	TR	

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
7.62	22.00		ZVQC	HLN	0.5	0.5		ZVO	FRV	0.5	2	40						
22.00	33.40		ZVE	HLN	0.5	0.5	30	ZVQC	FRV	0.5	2	10	ZVO	FRV	0.5	10	15	epidote veins have variable angles
33.40	37.00		ZVO	FRV	2	2	20	ZVC	HLN	2	0.5	45	ZVE	HLN	0.5			irregular magnetite vein weak in intensity and approx 6mm but variable
37.00	48.80		ZVE	HLN	0.5	0.5		ZVQC	HLN	0.5	0.5		ZVO	FRV	0.5	4	15	
48.80	51.00		ZVQC	TEN	5	4	70			5								at 50.9m breccia vein at base of zone
51.00	55.90		ZVQ	TEN	2	8	60	ZVQ	FRV	2	5	30	ZVQC	HLN	0.5	0.5		
55.90	63.80		ZVO	HLN	0.5	2	70	ZVC	HLN	0.5								
63.80	65.20		ZVQC	FTV	2	50	40	ZVQ	TEN	2	10	45						one quartz vein only
65.20	98.56		ZVQ	TEN	0.5	15	60	ZVO	FRV	0.5	6	15	ZVC	HLN	0.5	0.5	45	quartz veins mostly devoid of sulphides, K-spar veins contain pyrite and minor chalcopyrite. Also present quartz-carb veinlets less than 10degrees to core, 2 mm thick in trace amounts
98.56	107.10		ZVQC	HLN	2	0.25		ZVQ	TEN	2	10		ZVO	FRV	0.5	2		interval is characterised by the relative abundance of carbonate filled microfractures/microveinlets.
107.10	126.90		ZVQC	HLN	2	0.25		ZVQC	TEN	2	1		ZVO	FRV	0.5	3		At 116.60m is a quartz vein with minor k-spar and pyrite approx. 2cm wide at 45 degrees to core

126.90	129.39	ZVE	FRV	2	4	35	ZVC	HLN	2	0.25		ZVO	FRV	0.5	3	15	Quartz vein at 128.2m, 3cm wide with associated chlorite and pyrtie
129.39	135.84	ZVC	HLN	2	0.25		ZVQC	TEN	2	1		ZVO	FRV	0.5	2		At 135.36m there is a small zone of strong epidote veining carrying up to 2% pyrite
135.84	136.16	EZ	FRV	20		20			20								
136.16	145.50	ZVC	HLN	0.5	0.25		ZVQC	TEN	0.5	1		ZVO	FRV	0.5	2		
145.50	152.50	ZVC	HLN	2	1		ZVO	FRV	2	2							The interval is dominated by carbonate veining
152.50	206.36	ZVC	HLN	0.5	0.5		ZVO	FRV	0.5	2		ZVQ	FRV	0.5	5		Hairline carbonate fractures are ubiquitous. Quartz veins are locally present occasionally containing pyrite. At 182.34m is a large coarsly crystaline calcite vein, associated alteration extends downhole for another 8cm and contains significant amounts of pyrite (alpha angle:41 egrees)
206.36	207.65	ZVC	STK	5	30	40	ZVQ	FRV	5	5	50						zone of relatively strong carbonate veining. A one-off quartz vein containing pyrite and chalcopyrite at 207.07m and is crosscut by the carbonate veining.
207.65	211.80	ZVC	HLN	2	0.5		ZVQ	FRV	2	4	40						
211.80	241.03	ZVC	HLN	0.5	0.5		ZVQ	FRV	0.5	4		ZVE	FRV	0.5			small interval of moderate carbonate veining from 222.12 to 222.41m
241.03	243.15	ZVC	STK	5	3				5								An area of realativley strongly carbonate veining along fractures. Locally veining is developed to an extent that a brecciated appearance is developed.
243.15	245.95	ZVE	FRV	0.5	2	32	ZVQ	FRV	0.5	3	45	ZVC	HLN	0.5	0.5		Interval is characterised by epidote veining. Minor amounts of quartz-k-spar-pyrite veining are seen, seeming to all maintain a similar trend.
245.95	292.93	ZVC	HLN	0.5	0.5		ZVQ	FRV	0.5	10	17	ZVO	FRV	0.5	2		Veining in this interval is generally weak to trace. Hairline carbonate veining is ubiquitous. Several pyrite mineralised quartz-k-spar veins are noted, particularly between 250 and 260m depth. A massive chalcopyrite vein 1.5cm wide associated with siderite and calcite is located at 266.7m.
292.93	293.05	ZVC	FRV	5			ZVE	FRV	5								Unit is heavily carbonate veined may represent a structural corridor of some kind.
293.05	299.87	ZVQ	FRV	0.5	3				0.5								
299.87	300.66	ZVC	HLN	5	0.5		ZVC	FRV	5	7							Relatively strongly veined carbonate interval associated with a structural zone.
300.66	307.67	ZVQ	FRV	0.5	3		ZVE	FRV	0.5	5		ZVC	HLN	0.5	0.5		
307.67	308.10	ZVC	HLN	5	0.5		ZVC	FRV	5	7							Relatively strongly veined carbonate interval associated with a structural zone.
308.10	365.76	ZVQ	FRV	0.5	3		ZVE	FRV	0.5	5		ZVC	HLN	0.5	0.5		Thick quartz-kspar vein noted at 316.18m, extending downhole for approximately 12cm. Thin quartz-kspar-carbonate veins tend to ubiquitously host pyrite mineralization to some degree. A vein of this type is noted at 338.35m and 340.23m

Mineralisation

From	To	Description	Mineral Code	Style	%
7.62	62.00		PY	ff	0.05
			CCP	ff	0.025
62.00	63.70		PY	diss	1
63.70	64.20	pyrite is hosted in carbonate rich fault vein.	PY	pat	3
64.20	71.00	chalcopyrtie is hosted in broadly spaced quartz tension veins.	PY	vein	0.15
			CCP	vein	0.1
			CCP	vsel	0.05
71.00	85.00		PY	ff	0.05
			CCP	vein	0.025
85.00	100.70		PY	ff	0.1
			CCP	vein	0.05
100.70	140.50	pyrite is seen in quartz-k-spar veins and veinlets as well as locally in quartz-carbonate veinlets. Chalcopyrite rich fracture at 120.35m associated with k-spar-chlorite-carbonate.	PY	vein	0.2
			PY	ff	0.1
			CCP	vein	0.05
140.50	145.90	The interval is characterised by an increased abundance of vein-hosted pyrite.	PY	vein	0.5
			PY	ff	0.2
			PY	diss	0.1
			CCP	vein	0.05
145.90	192.00	Very little mineralisation in this zone, although local traces hosted by veins	PY	vein	0.1
			PY	ff	0.05
			CCP	vein	0.025
192.00	240.57		PY	ff	0.15
			PY	vein	0.1
			CCP	vein	0.025
240.57	243.85		PY	diss	0.3
			PY	vein	0.1
243.85	299.87	Interval is dominated by fracture-hosted pyrite on open, sometimes calcitic or haematitic fractures.Occasional relativley thick quartz -k-spar veins, notably at 248.91m, 257.52m, 259.60m 264.48m, 285.33m,and 286.58m . A zone of strong chaclopyrite at 266.7m, the chalcopyrite forms a vein approx 1.4cm wide and is associated with siderite and calcite. (Alpha angle is 65). Although pyrite is nearly ubiquitous relatively little chalcopyrite is seen aside from the aforementioned section.	PY	ff	0.3
			PY	vein	0.15
			CCP	vein	0.05
299.87	300.66	Altered bleached zone with high percentage of pyrite associated with faulting/fracturing.	PY	mot	2.5
300.66	307.67	interval is weakly pyrite mineralised with the most dominant style being open pyritic fractures. Quartz-k-spar-carbonate veinlets are often mineralised with pyrite.	PY	ff	0.3
			PY	vein	0.2
			CCP	vein	0.025
307.67	308.10	Altered bleached zone with high percentage of pyrite associated with faulting/fracturing.	PY	mot	1
			PY	diss	0.5

308.10	365.76	Interval is weakly pyrite mineralised with the most dominant style being open pyritic fractures. Quartz-k-spar-carbonate veinlets are often mineralised with pyrite. 314.88m possible molybdenite.	PY	ff	0.35
			PY	vein	0.3
			CCP	vein	0.025
			MOL	vein	0.025

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
7.62	23.00		ZRO	WK								
23.00	25.00		ZRO	MOD								
25.00	30.00		ZRO	WK								
30.00	32.00		ZRO	TR								
32.00	39.00		ZRO	WK								
39.00	41.00		ZRO	TR								
41.00	48.90		ZRO	WK								
48.90	51.00		ZRO	STG								50.85m - fault breccia zone
51.00	59.00		ZRO	WK								
59.00	60.70		ZRO	TR								
60.70	63.50		ZRO	MOD								
63.50	64.30		ZRO	STG								64m -fault/breccia zone
64.30	69.50		ZRO	TR								
69.50	72.00		ZRO	WK								
72.00	97.50		ZRO	TR								
97.50	98.20		ZRO	WK								
98.20	127.10		ZRO	TR								
127.10	128.50		ZRO	MOD								
128.50	135.33		ZRO	WK								
135.33	137.00		ZRO	MOD								
137.00	144.57		ZRO	WK								
144.57	144.83		ZRO	MOD								
144.83	145.50		ZRO	WK								
145.50	148.13		ZRO	MOD								
148.13	206.36		ZRO	WK								Small zone of possible gouge at 149.50m, alpha angle 55degrees; clay mineras present.
206.36	207.65		ZRO	MOD								
207.65	222.12		ZRO	WK								
222.12	222.42		ZRO	MOD								
222.42	241.03		ZRO	TR								At 233.92m small zone of calcite yield breccia.
241.03	241.33		ZFC	STG								
241.33	243.15		ZFX	MOD								
243.15	245.63		ZRO	TR								
245.63	245.75		ZRO	STG								
245.75	263.17		ZRO	TR								

263.17	298.33	ZRO	WK	
298.33	298.90	ZFG	MOD	
298.90	299.87	ZRO	TR	
299.87	300.20	ZRO	MOD	
300.20	300.40	ZFX	STG	
300.40	300.66	ZRO	MOD	
300.66	307.67	ZRO	WK	
307.67	308.10	ZFX	STG	
308.10	337.52	ZRO	WK	
337.52	339.92	ZRO	TR	
339.92	341.79	ZRO	WK	
341.79	341.97	ZFX	STG	Carbonate healed fault breccia.
341.97	345.45	ZRO	WK	
345.45	345.95	ZRO	MOD	
345.95	365.76	ZRO	WK	

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
68.00	ZVO	0.3	28.0	290.0		75	84		Tension vein
69.30	ZVQ	0.3	60.0	120.0		29	206		tension vein
69.57	ZVQ	1.5	60.0	140.0		20	215		
95.60	ZVQ	0.5	18.0						fracture hosted vein(unoriented)
120.38	ZVO	0.05	53.0	40.0		62	169		fracture with minor pyrite and major chalcopyrite.
141.89	ZVQC	0.1	58.0	76.0		48	188		part of a set of similarly oriented fractures in the area.
157.00	ZVQC	0.3	56.0	232.0		27	68		part of a conjugate set
191.28	ZFG	4	25.0	68.0		78	205		minor fault with clay gouge with associated pyrite as blebs and disseminations
230.48	ZVO	3	28.0	32.0		87	173		
231.33	ZVO	0.2	52.0	162.0		13	270		part of a set of similar veins in the area
240.07	ZVQ	1	78.0	100.0		29	170		
240.75	SCS	0.001	48.0	320.0		66	116		
241.03	ZFO	15	40.0	350.0		78	137		
266.70	ZVO	1.4	64.0	305.0		48	117		
288.20	ZVO	0.2	55.0	230.0		26	66		chalcopyrite also present
288.34	ZVQ	0.6	50.0	130.0		29	237		
312.60	ZVQ	0.2	25.0	60.0		81	201		
312.70	ZVQ	1.4	55.0	60.0		54	186		
314.88	ZVO	0.4	45.0	227.0		32	49		vein contains possible molybdenum
316.83	ZVQ	1	52.0	100.0		42	214		
316.90	ZVE	0.2	48.0	240.0		36	65		veinlet
316.95	ZVO	0.3	35.0	205.0		31	11		veinlet
317.25	ZVO	0.1	80.0	80.0		32	168		fracture veinlet

318.00	ZVQ	0.2	20.0	50.0	89	195	quartz veinlet with pyrite and trace chalcopyrite present
318.44	ZVQ	0.7	43.0	220.0	30	39	tension vein of quartz containing pyrite and chalcopyrite.
318.69	ZVQ	0.1	44.0	230.0	34	51	chalcopyrite also present
320.30	ZVQ	0.3	10.0	160.0	54	304	
320.45	ZVQ	0.1	40.0	50.0	71	187	tension vein
320.71	ZVQ	0.4	33.0	50.0	77	190	
321.10	ZVQ	0.8	35.0	270.0	60	77	
321.50	ZVQ	0.2	70.0	70.0	40	179	
323.02	ZVQ	2	30.0	90.0	64	224	shear vein
324.20	ZVE	0.2	45.0	190.0	18	353	veinlet
324.73	ZVQ	0.1	50.0	60.0	59	190	
326.08	ZVQ	0.2	45.0	230.0	33	53	
326.27	ZVQ	0.2	35.0	240.0	46	52	
326.60	ZVO	0.2	80.0	40.0	37	160	
327.32	ZVQ	0.2	40.0	90.0	56	218	chalcopyrite and siderite also present
327.40	ZVQ	0.1	90.0	78.0	28	149	
349.51	ZVQ	0.2	45.0	5.0	73	154	
350.55	ZVQC	0.1	20.0	223.0	51	26	
350.71	ZVQC	0.4	50.0	355.0	68	147	
351.31	ZVQ	0.25	57.0	83.0	45	200	pyrite also present
351.54	ZVQ	0.2	35.0	253.0	52	65	
352.46	ZVQ	0.2	75.0	35.0	42	163	
354.23	ZVQC	0.2	45.0	212.0	25	33	
354.58	ZVQ	0.25	60.0	57.0	51	183	
354.70	ZVQC	0.1	35.0	242.0	47	55	
354.90	ZVQC	0.15	12.0	32.0	78	2	
355.95	ZVQC	0.4	85.0	118.0	26	160	
356.65	ZVQC	0.25	20.0	220.0	50	23	
357.17	ZVQC	0.4	70.0	285.0	38	118	
357.77	ZVQ	0.3	38.0	345.0	80	139	
358.30	ZVQ	0.25	28.0	83.0	69	221	
358.76	ZVQC	0.3	70.0	85.0	36	186	
359.60	ZVQ	0.5	60.0	52.0	52	181	
359.77	ZVQC	0.5	45.0	258.0	46	77	

Samples

From	*To*	*Sample ID*	*Sample type*	*Cu_ppm*	*Au_ppb*	*Mo_ppm*	*Pb_ppm*	*Zn_ppm*	*As_ppm*	*Ag_ppm*	*K_ppm*	*Hg_ppm*	*Bi_ppm*	*Sb_ppm*	*S_%*
22.50	24.30	408400	CORE_HALF	110.99	3.4	0.45	31.02	59.5	11.8	0.333	8600	0.006	0.76	0.06	0.12
24.30	25.60	408401	CORE_HALF	202.22	27.9	1.16	17	80.4	11.8	0.3	11700	-0.005	0.26	0.08	0.16
25.60	28.00	408402	CORE_HALF	183.35	9.8	0.85	18.71	68.4	16.8	0.247	8900	-0.005	0.31	0.08	0.06
28.00	29.40	408403	CORE_HALF	79.62	3.6	0.24	5.17	60.6	20.2	0.08	8800	-0.005	0.06	0.07	0.02

33.50	35.00	408404	CORE_HALF	162.79	4.6	0.41	10	88.8	27.1	0.174	13600	-0.005	0.16	0.1	0.11
48.80	51.00	408405	CORE_HALF	70.22	5.8	5.2	24.13	63.9	47	0.178	4200	0.006	0.31	1.44	0.3
51.00	52.20	408406	CORE_HALF	110.44	36.4	1.14	8.73	79.3	19.1	0.207	7700	-0.005	0.29	0.44	0.07
52.20	53.60	408407	CORE_HALF	20.36	2	0.18	10.69	63.7	18.1	0.086	9900	-0.005	0.23	0.07	0.02
53.60	56.00	408410	CORE_HALF	141.75	6.7	6.45	92.41	67.4	17.6	0.807	9400	-0.005	2.82	0.08	0.02
62.00	64.30	408411	CORE_HALF	84.85	27.9	4.21	35.28	77.9	246.3	0.139	5100	0.032	0.16	3.23	1.29
64.30	66.00	408412	CORE_HALF	58.23	4.8	2.18	35.32	82.5	13.4	0.321	9700	-0.005	1.13	0.09	0.01
69.20	71.20	408413	CORE_HALF	250.86	34	0.87	12.01	80.9	24	0.337	11100	-0.005	0.35	0.12	0.06
83.00	84.05	408414	CORE_HALF	103.24	2.8	0.57	43.85	55.6	24.6	0.417	7000	-0.005	1.31	0.13	0.13
85.00	87.00	408415	CORE_HALF	59.36	9.5	1.65	11.4	62.7	25.2	0.096	9200	-0.005	0.14	0.07	0.03
95.00	96.00	408416	CORE_HALF	114.34	5.8	0.45	14.19	65.5	4	0.171	10400	-0.005	0.34	0.07	0.05
97.00	98.00	408417	CORE_HALF	117.8	3.3	0.41	5.5	84.2	5.2	0.154	13100	-0.005	0.12	0.05	0.1
100.00	102.10	408418	CORE_HALF	98.33	3.9	0.7	13.21	74	6.7	0.127	10700	-0.005	0.29	0.07	0.06
108.50	110.00	408419	CORE_HALF	125.29	6.8	4.42	4.1	76.4	8.9	0.158	12800	-0.005	0.11	0.1	0.03
112.00	114.10	408420	CORE_HALF	225.19	2	0.46	11.35	72.3	2.9	0.211	9700	-0.005	0.24	0.08	0.19
115.00	117.00	408421	CORE_HALF	171.95	4.5	0.77	13.53	80	3.6	0.261	12900	-0.005	0.35	0.06	0.21
119.00	121.00	408422	CORE_HALF	181.38	2.1	0.54	45.22	78.7	8	0.402	12700	-0.005	0.99	0.08	0.11
132.00	134.00	408423	CORE_HALF	122.64	2.4	5.02	18.62	65.7	3.2	0.189	8600	-0.005	0.39	0.09	0.13
135.00	137.00	408424	CORE_HALF	186.5	31.3	0.5	23.54	62.6	2.7	0.225	7400	-0.005	0.31	0.09	0.42
139.00	141.00	408425	CORE_HALF	206.14	3.6	3.82	12.85	83.3	4.8	0.249	22100	-0.005	0.35	0.05	0.33
141.00	143.00	408426	CORE_HALF	220.12	4.5	0.39	9.07	68	5.3	0.229	12000	-0.005	0.2	0.08	0.15
146.00	148.05	408427	CORE_HALF	159.06	8	0.5	17.05	90.6	4	0.17	11500	0.005	0.18	0.31	0.16
148.05	150.10	408428	CORE_HALF	104.34	4.4	0.69	35.39	74.6	4.5	0.198	9800	0.011	0.55	0.55	0.12
151.00	152.50	408430	CORE_HALF	85.4	2.2	1.55	6.95	68.2	4.5	0.085	7100	-0.005	0.12	0.31	0.09
152.50	154.00	408431	CORE_HALF	90.82	7.5	6.88	79.98	86.9	28.4	0.451	3200	0.045	1.56	1.48	0.38
158.00	160.00	408432	CORE_HALF	99.12	2.7	2.25	10.45	72.6	6.7	0.166	9400	0.022	0.22	0.42	0.09
160.00	162.00	408433	CORE_HALF	114.09	3.2	0.52	6.32	64.3	4.2	0.138	8300	0.011	0.17	0.15	0.1
163.50	165.00	408434	CORE_HALF	179.22	36.6	0.51	4.61	57.9	4.4	0.206	7700	0.005	0.32	0.12	0.09
171.00	173.00	408435	CORE_HALF	105.95	2.2	2.63	9.13	60.8	3.5	0.119	9500	-0.005	0.16	0.07	0.08
173.00	174.00	408436	CORE_HALF	147.63	2.4	2.65	4.6	65.4	3	0.152	9100	-0.005	0.12	0.07	0.07
175.50	177.50	408437	CORE_HALF	56.41	2.1	4.14	7.44	60.4	5.3	0.12	8900	-0.005	0.25	0.07	0.04
177.50	179.00	408438	CORE_HALF	88.02	4.5	0.66	13.67	71.2	9.1	0.154	9800	-0.005	0.23	0.05	0.07
182.00	183.00	408439	CORE_HALF	276.21	21.5	1.39	65.88	94.2	141.6	0.893	6200	0.091	2.32	8.14	0.71
185.00	187.00	408440	CORE_HALF	137.1	3.2	0.69	15.36	109.1	9	0.195	7500	0.006	0.38	0.09	0.11
187.50	189.50	408441	CORE_HALF	92.08	3	0.3	5.2	100.7	11.1	0.096	6500	-0.005	0.14	0.13	0.13
189.50	191.50	408442	CORE_HALF	146.24	4.4	4.5	8.09	131.5	66.7	0.154	5400	0.011	0.25	0.78	0.44

191.50	193.00	408443	CORE_HALF	172.87	2.6	6.22	31.52	129.9	5.7	0.383	8500	0.007	0.78	0.09	0.16
198.00	200.00	408444	CORE_HALF	148.75	13.9	2.43	8.48	92.7	9.8	0.155	6000	-0.005	0.21	0.14	0.27
200.00	202.00	408445	CORE_HALF	106.86	17.7	0.67	8.21	148.3	10.1	0.166	8000	-0.005	0.25	0.08	0.14
204.00	206.00	408446	CORE_HALF	593.32	3	1.03	5.03	198.3	10.7	0.423	7300	-0.005	0.13	0.21	0.14
206.00	208.00	408447	CORE_HALF	156.23	2.7	2.39	5.34	189.5	5	0.149	4300	-0.005	0.09	0.34	0.15
209.00	211.00	408448	CORE_HALF	86.66	3.2	1.23	5.02	117.6	3.9	0.085	4500	-0.005	0.12	0.19	0.1
211.00	212.00	408450	CORE_HALF	238.95	2.8	0.48	6.45	101.5	4.4	0.208	5000	-0.005	0.22	0.12	0.04
228.00	230.00	408451	CORE_HALF	123.64	2.8	0.81	4.42	70.8	4.2	0.1	11300	-0.005	0.04	0.14	0.19
230.00	231.50	408452	CORE_HALF	120.59	2	1.16	16.45	75.6	4	0.1	12300	-0.005	0.21	0.11	0.3
241.00	242.00	408453	CORE_HALF	503.17	2.9	8.97	13.15	151.2	55.6	0.444	22600	0.017	0.33	0.27	1.62
242.00	244.00	408454	CORE_HALF	112.8	1.2	1.44	6.85	89	8.4	0.085	17500	0.007	0.11	0.14	0.51
244.00	246.00	408455	CORE_HALF	66.42	0.5	0.45	5.56	93.1	6.3	0.051	13500	0.007	0.08	0.18	0.28
248.50	250.00	408456	CORE_HALF	117.56	3.9	1.23	7.33	86.8	8.1	0.093	10200	0.007	0.1	0.21	0.43
252.00	254.00	408457	CORE_HALF	122.53	1.4	1.42	7.38	89.8	4.8	0.1	13500	-0.005	0.09	0.12	0.3
254.00	256.10	408458	CORE_HALF	78.9	3.6	2.77	4.56	77.8	7.6	0.068	11400	0.011	0.05	0.18	0.23
256.10	258.00	408459	CORE_HALF	87.11	3.1	0.49	9.37	61.6	4.2	0.09	10700	-0.005	0.14	0.11	0.26
258.00	260.00	408460	CORE_HALF	113.33	3.9	2.06	4.23	60.9	3.7	0.069	8800	-0.005	0.06	0.1	0.29
260.00	262.00	408461	CORE_HALF	115.85	2.2	0.23	4.25	60.7	2.5	0.081	8800	-0.005	0.07	0.1	0.23
264.00	266.00	408462	CORE_HALF	160.01	3	0.98	7.79	66.1	2.3	0.094	8800	0.005	0.15	0.1	0.36
266.00	267.00	408463	CORE_HALF	4690.02	27.6	1.78	5.93	209.6	2.5	3.205	8900	0.011	0.31	0.15	0.77
271.00	272.00	408464	CORE_HALF	291.08	8.6	1	5.81	71.5	3.3	0.32	8500	-0.005	0.1	0.09	0.34
272.00	274.00	408465	CORE_HALF	152.59	4.8	0.67	10.79	84.8	3.7	0.158	8100	0.01	0.2	0.1	0.56
276.00	278.00	408466	CORE_HALF	218.1	2.4	1.65	32.51	100.4	4	0.189	7800	0.006	0.55	0.15	0.71
278.00	280.00	408467	CORE_HALF	217.93	3	0.98	25.43	108.7	7.5	0.206	9600	-0.005	0.44	0.17	0.87
281.00	283.00	408468	CORE_HALF	91.29	2.2	0.73	6.91	97.1	9.3	0.11	8500	0.013	0.18	0.36	0.27
285.00	287.00	408470	CORE_HALF	76.8	6.9	0.45	15.51	71.2	8.9	0.178	9300	-0.005	0.44	0.26	0.25
287.00	289.00	408471	CORE_HALF	92.41	2.6	1.45	5.73	69	5.2	0.115	9500	-0.005	0.12	0.15	0.24
291.50	293.50	408472	CORE_HALF	72.65	5.2	0.91	5.28	67.6	10.2	0.077	11100	-0.005	0.08	0.26	0.2
293.50	295.00	408473	CORE_HALF	89.07	3.5	0.55	4.77	70.6	7.1	0.103	11300	0.005	0.08	0.27	0.17
299.85	300.00	408474	CORE_HALF	149.03	3.6	21.02	29.82	56.4	22.8	0.171	4800	0.041	0.09	9.88	0.51
306.00	307.00	408475	CORE_HALF	79.01	4.8	0.59	6.41	59.3	5.6	0.081	8600	0.016	0.05	0.25	0.15
307.50	308.50	408476	CORE_HALF	74.7	3.8	0.48	11.6	70.2	32.6	0.112	5600	0.052	0.09	2.21	0.52
310.00	312.00	408477	CORE_HALF	54.57	2.2	0.79	4.4	63.5	3.5	0.064	7400	-0.005	0.04	0.2	0.16
315.50	317.00	408478	CORE_HALF	116.04	1.5	0.59	7.76	66.7	20.3	0.082	8200	0.013	0.07	0.29	0.41
326.00	328.00	408479	CORE_HALF	19.32	1.8	0.33	3.34	63.2	5.5	0.028	7200	0.009	0.04	0.21	0.07
330.50	332.50	408480	CORE_HALF	105.06	2.8	0.94	5.22	63.2	5.4	0.077	9900	-0.005	0.08	0.2	0.43

336.00	337.50	408481	CORE_HALF	45.04	7.9	0.51	8.42	53.5	9.8	0.075	8300	-0.005	0.13	0.36	0.21
342.00	344.00	408482	CORE_HALF	20.25	1.2	0.49	3.39	71.8	13.7	0.034	15400	-0.005	0.07	0.33	0.05
349.00	350.00	408483	CORE_HALF	476.89	8.3	1.14	5.01	73.1	5.1	0.551	8600	0.009	0.24	0.96	0.3
358.75	361.00	408484	CORE_HALF	105.85	3.7	0.87	6.33	57.6	4.4	0.099	11200	-0.005	0.13	0.13	0.57

GEOINFORMATICS EXPLORATION
DRILL HOLE LOG

TK06_02

Geoinformatics Exploration Inc

Collar

Hole ID	TK06_02	*Hole type*	DD		*Drilling company*	*Grid ID*	NAD83_UTM_10	
DataSet	GXL_REDTON_2006	*Depth*	307.24	m	*Geologist*	*Easting*	360131.00	*RL*
Prospect	TAK Zone	*Commenced*			*Survey Method*	*Northing*	6175841.00	
Tenement		*Completed*			*Notes*			

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
0.00	m	335.1	NAD83_UTM	-60.0	CAMERA	
63.40	m	334.2	NAD83_UTM	-61.3	CAMERA	
124.36	m	336.5	NAD83_UTM	-61.6	CAMERA	
185.32	m	336.5	NAD83_UTM	-62.0	CAMERA	
246.28	m	341.2	NAD83_UTM	-62.2	CAMERA	
307.24	m	347.9	NAD83_UTM	-62.3	CAMERA	

Lithology

Logged by: McLean_Trott

			Lith 1					*Lith 2*					
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	12.19	CASE												
12.19	55.92	VITB	M	bs	am	pp	100							
55.92	123.42	VITB	M	pp	pp		100							
123.42	126.50	VIB	F	bs	eq		100							
126.50	150.64	VITB	M	pp	pp	am	100							
150.64	152.55	VIB	F	bs	eq		100							
152.55	171.30	VITB	M	pp	pp		100							
171.30	182.90	VITB	M	pp	pp	am	100							
182.90	208.46	VITB	M	pp	pp		100							
208.46	219.80	VITB	M	pp	pp	am	100							
219.80	232.15	VITB	M	pp	am	pp	100							
232.15	258.76	VIT	M	pp	pp		100							

258.76	263.22	VIB	F	bs	eq	100
263.22	287.50	VITB	M	pp	pp	100
287.50	307.24	ViTB	M	pp	pp	100

Lithology

Logged by: McLean_Trott

From	To m	Description
0.00	12.19	
12.19	55.92	Unit is a thick relatively homogenous amygdaloidal flow package. The most prominent characteristic of this interval is the presence of small (up to 0.6cm diameter) ubiquitous, rounded to subrounded 'amygdales'. These are variably infilled with either epidote or feldspar (plagioclase > k-feldspar). It should be noted that there is a possibility that this unit represents a high level intrusive within which phenocrysts have been rounded by flowage and now resemble amgydales. Phenocrysts are ubiquitous and are comprised dominantly by epidote altered pyroxenes, anhedral amphiboles, as well as rare, fine-grained plagioclase laths. This rock has been tentatively classified as a basaltic trachyandesite- however, it should be noted that this classification refers to the rock as amygdaloidal, thereby discounting the silica and alkalis in the feldspar "amygdules". If these "amygdules" were indeed phenocrysts, the alkali and silica content of this unit would likely be increased to some extent, recategorizing this rock as trachyandesite rather than basaltic trachyandesite.
55.92	123.42	Interval is a thick, relatively heterogenous volcanic sequence within which the most dominant feature is epidote altered pyroxene phenocrysts. Interval contains local narrow intersections of 'amygdaloidal' material. These amygdules are generally infilled with feldspar although epidotisation of these amygdules is seen locally. Interval also contains rare local finegrained non-porphyritic intersections. Unit contains several small zones of relatively strongly altered rock, probably fault related. Two felsic looking porphyry dykelets intersect this interval, the first from 88.62m to 88.82m and the second from 91.24m to 91.35m. This lithology is pinkish-brown in colour and contains an abundance of coarse grained feldspar phenocrysts. These dykelets are rhyolitic in appearance.
123.42	126.50	basaltic andesite. Colour of unit is reminiscent of groundmass of overlying porphyritic rocks- however, unit is generally non-porphyritic and massive.
126.50	150.64	Interval is a thick, relatively heterogenous volcanic sequence within which the most dominant feature is epidote altered pyroxene phenocrysts. Interval commonly contains "amygdules", although they are not entirely ubiquitous. These amygdules are generally infilled with feldspar although epidotisation of these amygdules is seen locally.
150.64	152.55	basaltic andesite. Colour of unit is reminiscent of groundmass of overyling porphyritic rocks however, unit is generally non-porphyritic and massive.
152.55	171.30	Unit is a thick relativley consistant volcanic package, dominated by porphyritic material within which the dominant phenocryst is pyroxene, since altered (probably to epidote). Other phenocryst types are seen in small quantities including plagioclase and rare amphibole. This unit contains rare local zones featuring 'amygdules', infilled with feldspar and/or epidote.
171.30	182.90	Interval is a thick, relatively heterogenous volcanic sequence within which the most dominant feature is epidote altered pyroxene phenocrysts. Interval commonly contains "amygdules", although they are not entirely ubiquitous. These amygdules are generally infilled with feldspar although epidotisation of these amygdules is seen locally.
182.90	208.46	Unit is a thick relatively consistent volcanic package, dominated by porphyritic material within which the dominant phenocryst is pyroxene, since altered (probably to epidote). Other phenocryst types are seen in small quantities including plagioclase and rare amphibole. This unit contains rare local zones featuring 'amygdales', infilled with feldspar and/or epidote.
208.46	219.80	Interval is a thick, relatively heterogenous volcanic sequence within which the most dominant feature is epidote altered pyroxene phenocrysts. Interval commonly contains "amygdules", although they are not entirely ubiquitous. These amygdules are generally infilled with feldspar although epidotisation of these amygdules is seen locally.
219.80	232.15	Unit is highly similar to opverlying unit except 'amygdales' are seen in greater abundance.
232.15	258.76	Interval is highly similar to previously logged basaltic trachyandesite however this interval contains a significant quantitiy of plagioclase phenocrysts, shifting the chemistry of the rock as a whole towards a more alkalic and siliceous composition.
258.76	263.22	Interval appears to be fine grained non-porphyritic equivalent of the basaltic trachyandesite described earlier. Local patches of porphyritic materail are noted locally +/- amygdales. These areas may represent partially resorbed material picked up from underlying flows.
263.22	287.50	A porphyritic extrusive rock containing abundant phenocrysts, comprised mainly of pyroxene with lesser amounts of amphibole and plagioclase.
287.50	307.24	Unit is virtually identical to overlying porphyritic rocks however, phenocrysts are less dominant and more widely dispersed. Interval displays possible volcanic textures locally including possible flow banding at 259.04m.

Alteration

From	To	m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
12.19	59.77		WK	EZ	pv	TR	EZ	rep	TR	CN	ff	TR	Interval is characterised by epidote alteration of pyroxene phenocrysts and epidote replacement of amygdules locally. Also noted are patches and blebs of epidote and k-spar veining in trace amounts. At 44.95m there is a small patch of carbonate-epidote-siderite alteration probably stemming from a vein
59.77	61.67		STG	BLE	pv	STG	CH	pv	WK	AL	pv	MOD	Interval represents a bleached, altered volcanic rock.
61.67	82.56		WK	EZ	pv	WK	EZ	blb	TR	CN	ff	TR	Interval is characterised by epidote alteration of pyroxene phenocrysts and rare local epidote replacement of amygdules. Also noted are patches and blebs of epidote and k-spar veining in trace amounts.
82.56	86.31		MOD	CY	pv	MOD	CH	pv	WK	KF	pat	TR	Interval may represent a partially annealed fault system.
86.31	94.09		WK	EZ	pv	WK	EZ	blb	TR	CN	ff	TR	Interval is characterised by epidote alteration of pyroxene phenocrysts. Also noted are patches and blebs of epidote and k-spar veining in trace amounts.
94.09	97.38		MOD	EZ	vsel	WK	KF	vsel	WK	CN	ff	TR	Unit is relatively strongly altered and veined with epidote and k-spar. Some of the k-spar may in actuality be garnet or siderite (?). A sulphide hosting magnetite vein is observed at 94.76m. Alteration intensity on a whole is at the lower end of the moderate scale and gradually decreases with depth.
97.38	102.30		WK	EZ	pv	WK	KF	vsel	TR	EZ	vsel	TR	Most prevalent alteration in this interval is the epidotisation of pyroxene phenocrysts. Minor k-feldspar-epidote veining is present.
102.30	103.12		MOD	CN	fsel	WK	KF	pat	WK	EZ	vsel	WK	The interval is distinguished by a higher density of carbonate filled fractures, patchy areas of k-feldspar alteration but sometimes intergrowths of epidote are present.
103.12	123.42		WK	EZ	pv	WK	CN	ff	TR	KF	vsel	TR	
123.42	126.50		TR	CN	ff	TR	EZ	blb	TR				Interval is relatively unaltered. Minor carbonate fracture veining, local blebby epidote alteration (fracture related).
126.50	138.52		WK	EZ	pv	WK	CN	ff	TR	KF	vsel	TR	
138.52	139.60		MOD	CH	pat	WK	KF	pat	WK	CN	blb	TR	Interval is somewhat more altered than surrounding rock. Patchy chlorite (epidote?) intergrown with patchy k-spar seen locally.
139.60	150.64		WK	EZ	pv	WK	CN	ff	TR	EZ	blb	TR	
150.64	152.55		TR	CN	ff	TR							Weakly altered, fine grained, massive volcanic unit. Unit may be epidote altered to some degree on a micro scale but this is impossible to ascertain visually.
152.55	187.65		WK	EZ	pv	WK	CN	ff	TR	EZ	blb	TR	Interval is a large sequence of weakly altered volcanic rock. Dominant alteration style is pervasive epidote replacement of pyroxene crystals. Small quantities of carbonate filled fractures are nearly ubiquitous. Local blebby epidote +/- k-spar.
187.65	188.05		MOD	CH	fsel	MOD	CN	ff	TR				Small zone of greater alteration. Possibly fault related.
188.05	258.76		WK	EZ	pv	WK	CN	ff	TR	EZ	blb	TR	Interval is a large sequence of weakly altered volcanic rock. Dominant alteration style is pervasive epidote replacement of pyroxene phenocrysts. Small quantities of carbonate filled fractures are nearly ubiquitous. Local blebby epidote +/- k-spar.
258.76	263.22		TR	CN	ff	TR	EZ	blb	TR				Relatively unaltered finegrained volcanic unit.
263.22	287.50		WK	EZ	pv	WK	CN	ff	TR	EZ	blb	WK	
287.50	307.24		TR	EZ	pv	TR	CN	ff	TR				

Veining

From	To	m	Vein1	Style	Int.	Av. thick (mm)	Av. Angle	Vein2	Style	Int.	Av. thick (mm)	Av. Angle	Vein3	Style	Int.	Av. thick (mm)	Av. Angle	Comments
12.19	20.62		ZVQ	TEN	0.5	15		ZVC	FRV	0.5	0.3		ZVQ	FRV	0.5	8		In addition to the noted vein types, hairline carbonate fracture veinlets are nearly ubiquitous.

20.62	20.73	ZVQ	FRV	50	110				50							thick quartz-k-feldspar vein that appears to running at a low angle to the core axis, although it is impossible to determine exact reading due to the broken nature of the core at this point.
20.73	59.77	ZVQ	TEN	0.5	15		ZVQ	FRV	0.5	8		ZVC	HLN	2	0.5	Interval is veined variably with a variety of styles, although the styles noted are the most characteristic.
59.77	61.67	ZVQ	FRV	2	10		ZVO	FRV	2	8	32					
61.67	82.56	ZVC	FRV	2	1.5	45	ZVO	FRV	2	4		ZVQ	FRV	0.5	6	
82.56	86.31	ZVC	FRV	2	1.5		ZVQ	FRV	2	5						
86.31	102.30	ZVC	FRV	2	1.5		ZVO	FRV	2	4		ZVQ	FRV	0.5	6	A pyrite-magnetite vein is noted at 94.76m, 3mm wide with an alpha angle of 20.
102.30	103.12	ZVC	FRV	2	2		ZVC	FRV	2	2		ZVO	FRV	2	2	Interval is marked by an increase in carbonate fracture veining
103.12	123.42	ZVQ	FRV	0.5	4	80	ZVC	HLN	0.5	0.5		ZVE	FRV	0.5		
123.42	126.50	ZVC	FRV	0.5	3		ZVE	FRV	0.5	3						Little or no veining present in this interval.
126.50	150.64	ZVC	FRV	0.5	0.5		ZVQ	FRV	0.5	20	45	ZVQ	FRV	0.5	3	0 Carbonate fracture veining is ubiquitous but variable; several quartz-kspar-pyrite veins are noted subparallel to the core.
150.64	152.55	ZVC	HLN	0.5	1		ZVC	FRV	0.5	4	65					Interval is a weakly veined volcanic unit. Hairline carbonate fracture veins dominate and often contain pyrite and trace chlorite
152.55	244.50	ZVC	HLN	0.5	1		ZVE	FRV	0.5	3		ZVQ	FRV	0.5	7	Interval displays very little veining. Hairline carbonate fracture veins are nearly ubiquitous, with lesser amounts of other vein types observed locally.
244.50	307.24	ZVC	HLN	0.5	1		ZVE	FRV	0.5	3						Interval displays very little veining. Hairline carbonate fracture veins are nearly ubiquitous, with lesser amounts of other vein types observed locally.

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
12.19	23.50	Interval is poorly mineralised in general. Mineralisation tends to be more prevalent in veins particularly in quartz and quartz-kspar veins. Chalcopyrite is seen locally, intimately intergrown with pyrite.	PY	vein	0.3
			PY	ff	0.15
			CCP	vein	0.025
23.50	57.22	This unit is similar to the above, however, molybdenite is developed along veins in 3 places; at 23.62m 37.73m and 50.80m. This first such appearance appears to be vein related (quartz-k-spar-carbonate-chalcopyrite) the second is smeared out along a fracture surface, the third is a bleb hosted by a quartz-chlorite vein.	PY	vein	0.3
			PY	ff	0.15
			CCP	vein	0.05
			MOL	vein	0.025
57.22	59.77	Interval contains a small subunit of disseminated pyrite from 58.54m to 58.78m. Possibly fault related.	PY	vein	0.3
			PY	diss	0.1

			CCP	vein	0.025
59.77	61.67	Poorly mineralised bleached zone.	PY	vein	0.2
61.67	128.50	Mineralisation is associated with a variety of vein types including quartz-kspar and carbonate-haematite. Fracture mineralisation is less predominant than in previous unit. Rare local pyrite-magnetite veining is seen.	PY	vein	0.4
			PY	ff	0.2
			CCP	vein	0.025
128.50	129.90		PY	vein	0.4
			PY	ff	0.2
			MOL	vein	0.05
			CCP	vein	0.025
129.90	133.50		PY	vein	0.4
			PY	ff	0.2
			CCP	vein	0.025
133.50	142.24	A subtle increase in vein type sulphide mineralisation compared to the overlying unit.	PY	vein	0.7
			PY	ff	0.2
			CCP	vein	0.025
142.24	154.50	Possible molybdenite at 150.87m, trace amounts in a carbonate-chlorite-pyrite vein.	PY	ff	0.5
			PY	vein	0.5
			CCP	vein	0.05
			MOL	vein	0.025
159.00	187.65		PY	ff	0.3
			PY	vein	0.1
			CCP	vein	0.025
187.65	188.05	Chloritically altered potential fault zone. Higher abundance of pyrite in surrounding rock.	PY	diss	0.6
			PY	ff	0.4
			CCP	vein	0.025
188.05	233.00		PY	ff	0.3
			PY	vein	0.1
			CCP	vein	0.025
233.00	249.33		PY	vein	0.4
			PY	ff	0.2
			CCP	vein	0.025
249.33	253.50		PY	ff	0.5
			PY	vein	0.25
			CCP	vein	0.025
253.50	279.74		PY	ff	0.2
			PY	vein	0.2
			CCP	vein	0.025
279.74	295.75		PY	vein	0.4
			PY	ff	0.2
			CCP	vein	0.025
297.71	307.24	chalcopyrite rich zone approx. 1.5cm thick at 304.81m	PY	vein	0.3
			PY	ff	0.15

CCP	vein	0.05	

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
12.19	14.30		ZRO	TR								
14.30	14.55		ZRO	WK								
14.55	27.70		ZRO	TR								
27.70	28.56		ZRO	MOD								
28.56	38.62		ZRO	TR								
38.62	39.03		ZRO	WK								
39.03	55.92		ZRO	TR								
55.92	59.77		ZRO	WK								
59.77	61.67		ZRO	MOD								
61.67	83.22		ZRO	WK								
83.22	86.31		ZRO	MOD								
86.31	93.16		ZRO	WK								
93.16	96.00		ZRO	MOD								
96.00	99.12		ZRO	WK								
99.12	99.37		ZRO	STG								Possible fault zone
99.37	102.30		ZRO	WK								
102.30	103.12		ZRO	MOD								
103.12	112.30		ZRO	WK								
112.30	115.30		ZRO	MOD								Core is strongly rubbled
115.30	117.96		ZRO	WK								
117.96	119.20		ZRO	MOD								Core is strongly rubbled
119.20	124.36		ZRO	WK								
124.36	125.94		ZRO	TR								
125.94	135.86		ZRO	WK								
135.86	136.60		ZRO	MOD								Core is strongly rubbled
136.60	149.76		ZRO	WK								
149.76	149.88		ZFG	STG								
149.88	158.83		ZRO	TR								
158.83	161.90		ZRO	MOD								
161.90	166.50		ZRO	TR								
166.50	187.65		ZRO	WK								
187.65	188.05		ZFO	STG								
188.05	203.37		ZRO	TR								
203.37	203.79		ZRO	WK								
203.79	205.50		ZRO	TR								
205.50	205.55		ZFO	STG								
205.55	219.27		ZRO	TR								
219.27	219.31		ZFO	STG								

219.31	242.05	ZRO	TR
242.05	242.30	ZRO	MOD
242.30	258.76	ZRO	WK
258.76	263.22	ZRO	TR
263.22	280.60	ZRO	WK
280.60	282.25	ZRO	MOD
282.25	288.74	ZRO	TR
288.74	307.24	ZRO	WK

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
23.27	ZVQ	2	45.0	87.0		53	216		
23.62	ZVQ	1	45.0	92.0		51	220		
23.68	ZVO	0.4	55.0	35.0		61	177		
26.67	ZVQ	1	30.0	63.0		76	207		
26.75	ZVQ	1.3	60.0	125.0		26	221		
29.96	ZVQ	1	30.0	65.0		75	209		
44.90	ZVQ	0.3	22.0	128.0		53	268		One of a pair 6 cm apart.
50.80	ZVQ	0.5	32.0	65.0		73	208		Molybdenum at the intersection of this vein and the other vein at 50.81m
50.81	ZVQ	1	70.0	163.0		11	185		Molybdenum at the intersection of this vein and the other vein at 50.81
60.42	SCO	0.05	25.0	38.0		88	188		
60.73	ZVQ	2.5	40.0	12.0		78	164		
61.42	ZVO	0.4	32.0	73.0		70	214		part of a set of similar orientation in the area.
61.67	SCO	0.05	15.0	85.0		79	233		
62.09	ZVQ	1	32.0	108.0		54	242		
62.24	ZVC	0.1	47.0	83.0		53	212		
129.14	ZVC	0.25	45.0	202.0		21	24		
129.21	ZVQ	1	60.0	207.0		13	71		Possible molybdenite associated.
136.30	ZVC	0.1	87.0	268.0		28	150		
137.48	ZVQC	0.2	45.0	118.0		39	243		
138.00	ZVQ	0.4	10.0	265.0		79	67		
143.08	ZVQ	2	35.0	30.0		80	181		Minor chlorite and minor pyrite also present in the vein.
143.69	ZVQ	0.8	25.0	193.0		38	356		Minor chlorite and minor pyrite also present in the vein.
164.07	ZVQC	0.2	42.0	168.0		21	311		
165.00	ZVO	0.4	65.0	55.0		47	185		
165.75	ZVO	2.5	40.0	40.0		73	187		
166.45	ZRO	0.001	30.0	160.0		34	305		Feldspar-carbonate-chlorite -pyrite coating fracture surface
171.84	ZRO	0.001	15.0	240.0		63	47		Open carbonate fracture with pyrite
181.98	ZVO	0.8	50.0	125.0		32	243		
182.23	ZVO	0.2	25.0	100.0		63	243		
183.48	ZVC	1	75.0	65.0		37	180		

190.95	ZRO	0.001	17.0	318.0	86	297		Epidote and carbonate on the fracture surface
191.83	ZVQ	0.8	43.0	167.0	21	309	low	
194.05	ZVQC	0.3	18.0	250.0	65	58	low	
194.92	ZVC	0.3	37.0	58.0	71	203	low	
207.17	ZVQC	0.35	78.0	172.0	16	164	high	
208.11	ZVQ	0.2	72.0	180.0	10	158	high	
209.78	ZVC	0.4	30.0	160.0	35	307	high	
210.04	ZVC	0.4	60.0	127.0	25	229	high	
210.84	ZVE	0.3	18.0	315.0	88	296	high	
211.53	ZVQC	0.4	85.0	235.0	25	149	high	
212.54	ZVE	0.2	68.0	27.0	48	172	high	
215.48	ZVQ	0.5	60.0	260.0	36	103	low	
215.81	ZVQC	0.25	62.0	53.0	50	188	low	
216.46	ZVQC	0.2	40.0	172.0	23	323	low	
221.83	ZVC	0.15	72.0	48.0	42	179	high	
222.41	ZVQC	0.2	55.0	233.0	28	79	high	
222.80	ZVQC	0.45	15.0	280.0	81	85	high	
224.52	ZVC	0.2	65.0	76.0	41	198	high	
228.42	ZVQC	0.2	25.0	67.0	78	218	low	
235.64	ZVQ	0.5	45.0	240.0	38	72	low	
236.24	ZVO	0.45	75.0	247.0	26	127	low	
238.47	ZVO	0.15	58.0	202.0	12	60	high	
243.54	ZVO	0.25	45.0	268.0	50	95	low	
244.12	ZRO	0.001	60.0	278.0	43	114	low	quartz, k-spar, chlorite and pyrite +/- chalcopyrite on fracture surface
245.98	ZVQ	0.3	68.0	110.0	28	209	low	
249.58	ZRO	0.001	55.0	70.0	51	206	low	quartz, k-spar and pyrite on the surface
251.92	ZRO	0.001	18.0	33.0	84	13	low	quartz, k-spar, magnetite and pyrite on the surface
254.66	ZVO	0.4	55.0	64.0	53	203	high	
255.48	ZVQ	0.5	25.0	280.0	73	93	high	
257.84	ZRO	0.001	66.0	80.0	39	202	high	calcite and pyrite on the fracture surface
258.42	ZVQ	0.35	15.0	225.0	57	37	high	
261.40	ZVQ	0.3	50.0	180.0	12	343	high	
263.22	SCO	0.001	20.0	200.0	44	10	low	contact is anastomosing
263.62	ZVQ	0.2	80.0	282.0	31	144	low	
265.39	ZVQC	0.3	82.0	95.0	28	180	low	
266.44	ZVQC	0.3	45.0	50.0	66	200	low	
267.49	ZVQC	0.4	30.0	165.0	34	320	low	
268.33	ZVE	2.5	70.0	305.0	42	139	high	
269.26	ZRO	0.001	68.0	105.0	30	210	high	pyrite filled fracture
270.58	ZVO	1.5	62.0	312.0	51	137	high	
272.01	ZVC	0.3	55.0	58.0	54	201	low	
273.67	ZRO	0.001	85.0	20.0	32	167	low	carbonate, chlorite, pyrite on fracture surface

274.28	ZVO	1	65.0	180.0	3	164	high	
274.89	ZRO	0.001	60.0	195.0	8	64	high	epidote, k-spar, pyrite, magnetite on fracture surface
275.11	ZVO	0.2	60.0	0.0	58	164	high	
275.40	ZVQC	1	15.0	20.0	79	4	high	
294.17	LIO	4	50.0	165.0	15	306	low	possible volcanic flow banding
295.00	LIO	4	48.0	150.0	22	283	low	possible volcanic flow banding

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
13.00	15.00	408497	CORE_HALF	178.86	1.7	0.26	6.08	73.1	4	0.182	9500	-0.005	0.12	0.07	0.05
15.00	17.00	408498	CORE_HALF	128.52	2.1	1.66	5.57	75	3.3	0.158	9900	-0.005	0.13	0.05	0.05
18.00	20.00	408499	CORE_HALF	181.62	2.2	0.97	31.13	81.7	2.7	0.409	10800	-0.005	0.81	0.08	0.14
22.50	24.60	408500	CORE_HALF	246.81	3.5	1.18	120.97	70.5	8	1.461	5600	0.008	4.83	0.17	0.14
26.60	28.60	408501	CORE_HALF	464.45	3	1.87	28.23	68.9	5.9	0.634	7800	0.006	0.79	0.1	0.16
31.00	33.00	408502	CORE_HALF	136.74	4.9	15.25	162.59	87	8.8	1.823	12000	-0.005	4.91	0.06	0.14
39.50	41.50	408503	CORE_HALF	130.63	0.8	16.14	14.58	81.3	9.7	0.132	11200	-0.005	0.34	0.1	0.3
50.50	52.50	408504	CORE_HALF	314.86	2.7	2.08	67.26	79.7	3.6	0.801	15300	-0.005	2.2	0.07	0.08
53.05	55.00	408485	CORE_HALF	151.79	3	0.21	8.39	70.2	3.8	0.15	15300	0.005	0.21	0.09	0.03
55.00	57.22	408486	CORE_HALF	51.89	2.4	0.58	67.28	75.3	19.3	0.524	14200	0.009	2.02	0.09	0.11
57.50	59.50	408487	CORE_HALF	189.58	3.2	0.44	15.83	68.7	8	0.225	6000	0.011	0.32	1.7	0.32
59.50	61.80	408488	CORE_HALF	196.71	3.6	11.03	31.92	84.1	33.2	0.331	3300	0.28	0.27	37.88	0.53
61.80	63.75	408490	CORE_HALF	153.57	0.4	2.33	7.38	65.7	5.9	0.142	5800	0.016	0.11	0.34	0.15
76.00	78.00	408491	CORE_HALF	111.57	1.3	0.59	13.02	66.4	5.1	0.133	9600	0.007	0.24	0.29	0.25
83.00	85.00	408492	CORE_HALF	263.2	3.7	2.03	19.05	92.6	6.8	0.248	3900	0.037	0.34	2.63	0.43
85.00	87.00	408493	CORE_HALF	317.55	2.4	16.11	12.24	89.4	5.2	0.243	7900	0.017	0.26	0.36	0.74
87.00	89.00	408494	CORE_HALF	147.93	1.3	1.48	7.99	70	4.6	0.112	6600	0.009	0.13	0.17	0.26
93.00	95.00	408495	CORE_HALF	237.6	2.7	2.19	8.29	77.9	4.4	0.184	6300	0.011	0.21	0.14	0.44
95.00	97.10	408496	CORE_HALF	313.52	4.1	7.3	46.91	81.2	3.3	0.572	9900	-0.005	1.57	0.13	0.81
97.50	99.50	408505	CORE_HALF	135.26	3.7	13.62	22.08	78.6	4.5	0.313	8400	0.005	0.58	0.11	0.3
103.80	105.80	408506	CORE_HALF	118.99	1.6	3.46	9.38	63.4	7.9	0.123	8500	-0.005	0.18	0.11	0.36
110.50	112.50	408507	CORE_HALF	82.05	1.3	1.6	18.61	70.9	12.6	0.211	8500	0.01	0.45	0.17	0.29
116.00	117.00	408508	CORE_HALF	111.9	1.5	0.69	4.78	73.8	3.2	0.078	10300	-0.005	0.06	0.12	0.38
119.20	121.00	408510	CORE_HALF	154.5	0.6	3.89	4.96	79.2	2	0.133	14300	-0.005	0.07	0.07	0.24
123.00	124.30	408511	CORE_HALF	449.46	6.9	48.67	26.25	96.6	1.8	0.597	19800	0.015	0.7	0.06	1.24
128.00	130.00	408512	CORE_HALF	88.7	2.2	1.25	28.05	70.3	4.7	0.227	8200	-0.005	0.68	0.11	0.2
134.00	135.00	408513	CORE_HALF	81.94	5	2.99	5.11	67.8	2.2	0.109	11700	-0.005	0.09	0.07	0.1
138.00	140.00	408514	CORE_HALF	83.77	2.8	4.28	23.17	63.2	3.3	0.261	10200	-0.005	0.74	0.1	0.24

140.00	141.00	408515	CORE_HALF	63.53	2.1	5.97	31.98	58.5	6.3	0.331	7700	-0.005	0.99	0.09	0.19
143.00	144.00	408516	CORE_HALF	97.28	2.8	20.19	4.15	60.5	2.4	0.088	11700	-0.005	0.08	0.07	0.12
146.55	148.50	408517	CORE_HALF	110.2	2.6	2.69	9.68	66.2	1.7	0.139	14400	-0.005	0.28	0.07	0.12
149.00	151.00	408518	CORE_HALF	93.51	2.4	5.79	13	67.8	3.9	0.163	17800	-0.005	0.37	0.08	0.27
159.00	161.00	408519	CORE_HALF	69.96	2.3	1.37	12.87	62	10.4	0.098	7300	-0.005	0.23	0.24	0.21
164.95	167.00	408520	CORE_HALF	142.71	4.4	2.33	4.18	53.7	1.7	0.159	9100	0.006	0.09	0.11	0.08
169.00	170.00	408521	CORE_HALF	155.05	2.2	0.89	6.36	61.4	1.7	0.134	9300	0.011	0.09	0.06	0.26
184.50	186.00	408522	CORE_HALF	159.3	5	2.87	42.75	96.5	1.9	0.432	15500	-0.005	0.75	0.08	0.09
187.00	189.00	408523	CORE_HALF	79.42	2	3.3	4.69	55.8	3.3	0.074	9100	0.011	0.08	0.14	0.16
191.50	193.00	408524	CORE_HALF	176.21	3.7	5.4	5.77	60.4	2.4	0.245	9400	0.007	0.34	0.1	0.1
193.00	195.00	408525	CORE_HALF	95.67	2	0.3	3.18	57.5	3.3	0.097	9600	-0.005	0.04	0.11	0.1
202.50	204.00	408526	CORE_HALF	115.85	6.7	0.75	12.33	74.3	4.1	0.188	14200	-0.005	0.11	0.18	0.13
205.00	207.00	408527	CORE_HALF	84.5	4.2	0.54	4.69	61.7	3.3	0.111	11300	-0.005	0.1	0.14	0.15
214.80	216.10	408528	CORE_HALF	83.25	5.1	0.97	2.77	60.4	10.8	0.073	11700	0.007	0.07	0.27	0.26
234.00	236.00	408530	CORE_HALF	78.85	8	0.42	8.87	56.1	3.2	0.099	9100	-0.005	0.14	0.26	0.15
238.40	240.00	408531	CORE_HALF	85.98	2.5	0.46	5.69	59.7	2	0.081	6400	0.009	0.06	0.1	0.15
250.50	251.50	408532	CORE_HALF	95.31	2.4	1.76	5.85	54.5	5.1	0.061	7400	-0.005	0.06	0.43	0.15
280.50	282.80	408533	CORE_HALF	124.98	4.9	0.41	11.56	68.3	3.4	0.149	9400	0.011	0.19	0.14	0.16
283.50	285.00	408534	CORE_HALF	107.77	2.1	0.33	8.79	59.6	3.8	0.117	10200	-0.005	0.1	0.3	0.1
286.70	288.00	408535	CORE_HALF	736.34	10.6	0.7	8.9	66.5	5.4	0.739	11900	0.016	0.26	0.17	0.2
304.00	305.00	408536	CORE_HALF	260.08	6.3	0.6	5.14	76.8	2.6	0.303	23000	-0.005	0.09	0.07	0.09

Geoinformatics Exploration Inc

GEOINFORMATICS EXPLORATION
DRILL HOLE LOG

TK06_03

Collar

Hole ID	TK06_03	*Hole type*	DD		*Drilling company*	*Grid ID*	NAD83_UTM_10	
DataSet	GXL_REDTON_2006	*Depth*	286.50	m	*Geologist*	*Easting*	359426.00	*RL*
Prospect	TAK Zone	*Commenced*	24/07/2006		*Survey Method*	*Northing*	6175901.00	
Tenement		*Completed*	29/07/2006		*Notes*			

Survey

At		*Azimuth*	*AzimuthID*	*Dip*	*Method*	*Comments*
0.00	m	155.0	NAD83_UTM	-60.0	CAMERA	
33.53	m	161.3	NAD83_UTM	-59.8	CAMERA	
94.49	m	158.4	NAD83_UTM	-60.4	CAMERA	
155.45	m	162.6	NAD83_UTM	-61.2	CAMERA	
216.41	m	165.5	NAD83_UTM	-61.6	CAMERA	
277.37	m	167.4	NAD83_UTM	-62.0	CAMERA	

Lithology

Logged by: Mclean_Trott

			Lith 1						*Lith 2*					
From	*To m*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Code*	*GSize*	*Qual*	*Text1*	*Text2*	*%*	*Comments*
0.00	9.14	CASE												
9.14	36.59	VIT	M	pp	pp		100							
36.59	37.16	VMB	F	bs	eq	ma	100							
37.16	95.02	VITB	M	pp	pp		100							
95.02	99.56	VIT	M	pp	pp		100							
99.56	116.19	VITB	M	pp	pp	am	100							
116.19	117.77	VITB	M	pp	pp	am	45	VMB	F	bs	eq	ma		
117.77	156.43	VITB	M	pp	pp		75	VMB	F	bs	eq	ma		
156.43	188.63	VITB	F	pp	pp		100							
188.63	198.20	VITB	M	pp	pp		100							
198.20	260.01	VIT	M	pp	pp		100							
260.01	286.50	VITB	M	pp	pp		100							

Lithology

Logged by: Mclean_Trott

From	To m	Description
0.00	9.14	
9.14	36.59	Trachyandesite. Lithology for this interval is dominated by greyish-black, intermediate to mafic rock with abundant phenocrysts comprised of altered plagioclase, amphibole and altered pyroxenes. Phenocrysts are commonly epidotised or chloritised. This area contains numerous 'ripup clasts' of coarse grained porphyritic material, intrusive in appearance. One noteable example of this material is seen at 27.55m. These inclusions may represent wall rock from the source volcanic pipe, extruded with the lava. Epidote alteration is common place, although variable, and may represent sea-floor alteration.
36.59	37.16	Basalt. Fine grained dark greyish-black volcanic rock. Rock locally has a reddish hue, likely due to oxidation of primary magnetite.
37.16	95.02	Basaltic trachyandesite. Rock is dark greenish-black with abundant phenocrysts, dominated by altered pyroxenes (chloritised?). Possible 'amygdules' are ubiquitous, in the form of medium grained, spherical structures, generally feldspar filled, although locally epidotised.
95.02	99.56	Trachyandesite. Lithology for this interval is dominated by greyish-black, intermediate to mafic rock with abundant phenocrysts comprised of altered plagioclase, amphibole and altered pyroxenes. Phenocrysts are commonly epidotised or chloritised. Interval is highly similar to overlying basaltic trachyandesite except for an increased abundance of plagioclase phenocrysts (generally epidotised), and a decrease in the abundance of "amygdules".
99.56	116.19	Basaltic trachyandesite. Rock is dark greenish-black with abundant phenocrysts, dominated by altered pyroxenes (chloritised?). Possible 'amygdules' are ubiquitous, in the form of medium grained, spherical structures, generally feldspar filled, although locally epidotised
116.19	117.77	Basaltic trachyandesite, identical to the overlying interval, interleaved with fine-grained basaltic material. Although both lithologies are ubiquitously magnetic, the basaltic material appears to have a stronger magnetic signature.
117.77	156.43	Basaltic trachyandesite. Rock is dark greenish-black with abundant phenocrysts, dominated by altered pyroxenes (chloritised? And/or epidotised). Rare, local "amygdules" as described previously. Basaltic, non-porphyritic material is locally observed interfingering with the dominant porphyritic lithology.
156.43	188.63	Basaltic trachyandesite. Similar to basaltic trachyandesites described further uphole; however, this interval is relatively homogeneous, and is more weakly porphyritic. Phenocrysts are finer-grained, and dominated by altered pyroxenes.
188.63	198.20	Basaltic trachyandesite. Rock is dark greenish-black with abundant phenocrysts, dominated by altered pyroxenes (chloritised? And/or epidotised). Rare, local "amygdules" as described previously. Local areas contain plagioclase phenocrysts
198.20	260.01	trachyandesite, interval is a large , heterogeneous interval of volcanic rocks, general to strongly porphyritic. The most obvious phenocryst type, is fine to med grain, feldspar laths, commonly epidotized, with subbordinate amounts of chloritized pyroxene phenocrysts. Phenocryst populations are highly variable, although the most characteristic assemblage within the interval is dominated by plagioclase. Local "amygdules" as described previously.
260.01	286.50	top portion of interval from 260.01 to 260.33 m depth appears bleached/epidotized, with abundant amphibole phenocrysts visible. The rest of the interval is a heterogeneous volcanic sequence characterized by abundant phenocrysts of varying compositions and variably altered. Portions of this interval appear to be less strongly porphyritic and finer grained.

Alteration

From	To m	Total Int.	Alt1	Style	Int.	Alt2	Style	Int.	Alt3	Style	Int.	Comments
9.14	19.62	WK	EZ	pv	WK	EZ	fsel	WK	CN	ff	TR	Unit is overall weakly altered. Pervasive epidotisation of plagioclase phenocrysts is commonplace (seafloor alteration?). Epidote is also commonly seen as vein style as well as blebby alteration. In general epidote appears to increase in abundance with depth. Open haematitic fractures are commonplace (near surface weathering?).
19.62	20.59	MOD	EZ	fsel	MOD	EZ	pv	WK	CN	ff	TR	Alteration in this interval is similar in style to the overlying unit however, it contains two narrow zones of epidote (probably fracture related) from 19.62m to 19.82m and from 20.49m to 20.59m.
20.59	36.59	WK	EZ	pv	WK	EZ	fsel	WK	CN	ff	TR	Unit is overall weakly altered. Pervasive epidotisation of plagioclase phenocrysts is commonplace (seafloor alteration?). Epidote is also commonly seen as vein style as well as blebby alteration.
36.59	37.16	TR	CN	ff	TR	HM	pv	TR				Interval appears to be less affected by epidote alteration. Lithology has a reddish tint probably due to trace pervasive haematite pigmentation.
37.16	46.50	WK	EZ	pv	WK	EZ	fsel	WK	CN	ff	TR	Unit is overall weakly altered. Pervasive epidotisation of plagioclase phenocrysts is commonplace (seafloor alteration?). Epidote is also commonly seen as vein style as well as blebby alteration.

46.50	71.17	WK	CH	pv	WK	CN	ff	TR	HM	rep	TR	Interval is lithologically similar to overlying unit however, epidotisation of pyroxene phenocrysts appears to have given way to chloritisation. Minor haematite replacement of plagioclase amygdules.
71.17	95.02	WK	CH	pv	WK	CN	ff	TR	EZ	fsel	TR	Alteration throughout this interval is very similar to the alteration observed in the overlying unit; however, this interval is marked by the reappearance of epidote alteration, generally seen in increased abundance with depth. Epidote fracture selvages are seen locally, as well as local epidote alteration of phenocrysts.
95.02	99.56	WK	EZ	pv	WK	CH	pv	WK	EZ	fsel	TR	Alteration in this interval is marked by the presence of epidotised plagioclase phenocrysts.
99.56	116.19	WK	CH	pv	WK	EZ	rep	TR	EZ	fsel	TR	Pervasive alteration of pyroxene phenocrysts to chlorite is commonplace, as well as minor alteration to epidote. Local epidote veining/fracture selvage.
116.19	117.77	TR	CH	pv	TR	EZ	rep	TR	CN	ff	TR	Zone of weaker alteration overall- material similar to the overlying interval is interleaved with unaltered, basaltic material.
117.77	156.43	WK	CH	pv	WK	EZ	rep	TR	EZ	blb	TR	Pervasive alteration of pyroxene phenocrysts to chlorite is commonplace, as well as minor alteration to epidote. Local epidote veining/fracture selvage/blebs. Of interest are small zones characterized by the presence of haematitic banding/veining. Two of these zones are noted, from 185.26m to 186m, and from 127.55m to 127.90m. Local, irregular blebs and patches of garnet (?) alteration. Two small zones of unusually strong potassic alteration are noted, characterized by pinkish-orange pervasive k-feldspar, and associated with strong sulphide mineralization (including chalcopyrite).
156.43	188.63	TR	CH	pv	WK	CN	ff	TR	EZ	fsel	TR	Interval is altered to a lesser extent than the overlying material.
188.63	260.01	WK	CH	pv	WK	EZ	blb	TR	EZ	rep	wk	Pervasive alteration of pyroxene phenocrysts to chlorite is commonplace, as well as minor alteration to epidote. Local epidote blebs. Epidotization of plagioclase phenocrysts is commonplace. Small zone/vein of epidote observed from 221.25 to 221.34 m. Small amounts of orange kspar are associated with this zone. Large bleb of unusual alteration at 190.25 with core of carbonate and magnetite, rimmed by brownish red garnet (?) , which is in turn rimmed by epidote. Similar blebs of alteration sitting at 248.2 m, 259.6 m. .
260.01	260.33	MOD	EZ	pv	WK	EZ	fsel	TR				Small interval within which the ground mass has been pervasively altered by epidote to varying degrees. This alteration results in amphibole phenocrysts standing out from the ground mass markedly.
260.33	286.50	WK	EZ	rep	WK	CH	pv	WK	CN	fsel	TR	Large interval of variably altered rock that is generally weak. Epidotization/chloritization of phenocrysts is ubiquitous. Minor carbonate fracture veining.

Veining

From	*To*	*m*	*Vein1*	*Style*	*Int.*	*Av. thick (mm)*	*Av. Angle*	*Vein2*	*Style*	*Int.*	*Av. thick (mm)*	*Av. Angle*	*Vein3*	*Style*	*Int.*	*Av. thick (mm)*	*Av. Angle*	*Comments*
9.14	26.05		ZVE	FRV	2	4		ZVC	FRV	2	0.5							Interval is ubiquitously veined with varying proportions of epidote and carbonate-haematite. Epidote veining is seen in a variety of thicknesses, whilst carbonate-haematite veining is generally in narrow, angular fracture veinlets. Other vein types are seen, including quartz-kfeldspar, although these alternate vein types are rare.
26.05	29.70		ZVE	FRV	5			ZVC	FRV	5								Interval is characterised by an increase in epidote veining.
29.70	36.59		ZVE	FRV	2	4		ZVC	FRV	2	0.5							

36.59	37.16	ZVC	FRV	0.5	1			0.5		Very little veining present in interval. Dominant vein type is carbonate veining of microfractures.
37.16	46.50	ZVE	FRV	2	4	ZVC	FRV	2	0.5	Interval is ubiquitously veined with varying proportions of epidote and carbonate-haematite. Epidote veining is seen in a variety of thicknesses, whilst carbonate-haematite veining is generally in narrow, angular fracture veinlets. Other vein types are seen, including quartz-kfeldspar, although these alternate vein types are rare.
46.50	71.17	ZVC	FRV	0.5	1			0.5		Veining in this interval is generally restricted to narrow carbonate veins
71.17	125.26	ZVC	FRV	0.5	1	ZVE	FRV	0.5	2	Veining in this interval is dominated by narrow carbonate fracture veins. Thin, local epidote veins are noted.
125.26	126.00	ZVC	FRV	0.5	1	ZVO	FRV	0.5	3	Veining in this interval is characterized by haematitic alteration veins.
126.00	127.55	ZVC	FRV	0.5	1	ZVE	FRV	0.5	2	Veining in this interval is dominated by narrow carbonate fracture veins. Thin, local epidote veins are noted.
127.55	127.90	ZVC	FRV	0.5	1	ZVO	FRV	0.5	3	Veining in this interval is characterized by haematitic alteration veins.
127.90	212.45	ZVC	FRV	0.5	1	ZVE	FRV	0.5	2	Veining in this interval is dominated by narrow carbonate fracture veins. Thin, local epidote veins are noted.
212.45	215.30	ZVC	FRV	0.5	1	ZVE	STR	0.5	5	Veining in this area is dominated by epidote
215.30	286.50	ZVC	FRV	0.5	1	ZVE	FRV	0.5	2	Veining in this interval is dominated by narrow carbonate fracture veins. Thin, local epidote veins are noted. At 270.66 m a well mineralized carbonate vein is observed, running at a shallow angle to the core axis (cpy > py).

Mineralisation

From	*To*	*Description*	*Mineral Code*	*Style*	*%*
9.14	17.40	Weakly mineralised zone. Dominant mineralisation is vein hosted sulphides with a variety of vein types seen hosted these sulphides including quartz-k-feldspar, epidote-carbonate and haematite-carbonate.	PY	vein	0.4
			PY	ff	0.2
			CCP	vein	0.05
17.40	45.50	Zone is generally less mineralised than last zone. Dominant style of mineralisation is fracture hosted pyrite along open, generally haematitic fractures. Minor veining including quartz-k-feldspar and quartz-chlorite.	PY	ff	0.3
			PY	vein	0.15
			CCP	vein	0.05
45.50	50.00	Interval is characterised by a number of gougy faulted zones containing pyrite (refered to as pervasive in the table)	PY	pv	0.4
			PY	ff	0.2
			CCP	ff	0.05
60.15	60.35	Interval characterized by abundant fine-grained pyrite, generally disseminated (microfracture dispersed), or fracture related.	PY	diss	0.8

			PY	ff	0.4
			CCP	ff	0.05
93.90	94.48	Relatively well mineralized zone (dominantly pyrite). Core in this interval is rubbly, fractured- sulphides may be related to a fracture/fault plumbing system.	PY	diss	0.6
			PY	ff	0.2
			CCP	ff	0.05
102.18	150.05	Large interval of extremely weakly mineralized rock- mineralization is generally in the form of widely spaced, local pyritic fractures.	PY	ff	0.2
			PY	vein	0.2
150.05	156.43	Interval of relatively strong mineralization. Two restricted sub-zones of exceedingly strong mineralization are observed within this generally well-developed zone. These zones are seen from 153.35 m to 153.50 m depth, and from 154.68 to 154.83 m depth. These zones are characterised by peculiar orange k-feldspar (hematite pigmentation?), epidote, chlorite and magnetite blebs. They appear to trend at a shallow angle to the core axis, although precise orientation here is impossible to determine. These zones are cut by the ubiquitous carbonate +/- hematite fracture veining. Sulphide mineralization in these sub-zones is in the form of large, irregular blebs of pyrite and chalcopyrite.	PY	blb	0.7
			PY	diss	0.5
			CCP	blb	0.2
156.43	212.05	Large interval of poorly mineralized rock. At 192.64 m several carbonate hosted, cpy veinlets are observed.	PY	ff	0.15
			PY	vein	0.15
			CCP	vein	0.05
212.05	212.27	small zone of disseminated py mineralization	PY	diss	0.7
			PY	vein	0.3
212.27	232.00	weakly mineralized interval, dominated by fracture-hosted coarse pyrite	PY	ff	0.2
			PY	vein	0.15
			CCP	vein	0.05
232.00	237.13	subtle increase in mineralization	PY	ff	0.45
			PY	vein	0.3
			CCP	vein	0.05
237.13	270.10	large interval of weakly mineralized to barren rock.	PY	ff	0.2
			PY	vein	0.01
270.10	271.00	interval is characterized by carbonate vein (s), running at a shallow angle to the core axis, well mineralized with cpy and py. Vein also contains chlorite.	CCP	vein	0.6
			PY	vein	0.4
271.00	286.50	large interval of weakly mineralized to barren rock.	PY	ff	0.2
			CCP	vein	0.05
			PY	vein	0.01

Structure

From	To	m	Struct 1	Int.	Angle	Struct 2	Int.	Angle	Struct 3	Int.	Angle	Description
9.14	22.42		ZRO	WK								
22.42	22.95		ZRO	MOD								Broken rubbly core
22.95	26.05		ZRO	WK								
26.05	29.70		ZRO	MOD								
29.70	37.50		ZRO	WK								

37.50	39.33	ZRO	MOD	Broken rubbly core
39.33	45.80	ZRO	WK	
45.80	50.47	ZRO	MOD	Broken rubbly core. Local small strong intersections of clayey material possibly representing fault gouge.
50.47	59.54	ZRO	TR	
59.54	60.77	ZRO	MOD	Broken, rubbly core- zone contains sulphidic zone (coincidence? Related?).
60.77	73.07	ZRO	WK	Little fracture veining- abundant open fractures.
73.07	73.33	ZRO	STG	Core is strongly broken- has a gravelly appearance.
73.33	93.88	ZRO	WK	Little fracture veining- abundant open fractures.
93.88	94.57	ZRO	STG	Broken, rubbly core. Interval contains pyritic zone. Possible fault gouge observed locally- clayey material.
94.57	101.07	ZRO	WK	Little fracture veining- abundant open fractures.
101.07	101.58	ZRO	MOD	Broken, rubbly core
101.58	109.11	ZRO	WK	Little fracture veining- abundant open fractures.
109.11	109.38	ZRO	MOD	Broken, rubbly core.
109.38	118.74	ZRO	WK	Little fracture veining- abundant open fractures.
118.74	118.80	ZFG	STG	Core is clayey- possible fault gouge (mostly annealed)
118.80	125.26	ZRO	WK	Little fracture veining- abundant open fractures.
125.26	126.00	ZRO	MOD	Increased abundance of fracture veining- often hematitic.
126.00	127.55	ZRO	WK	Little fracture veining- abundant open fractures.
127.55	127.90	ZRO	MOD	Increased abundance of fracture veining- often hematitic.
127.90	151.79	ZRO	MOD	Little fracture veining- core is locally well broken up/fractured. Structural intensity is on the lower end of the moderate scale (ie weak to moderate).
151.79	161.02	ZRO	WK	hairline carbonate microfractures are ubiquitous although weak in density. Core is locally fractured (open fractures)
161.02	212.45	ZRO	TR	
212.45	215.30	ZRO	MOD	Zone has a relatively high density of epidote fracture veining.
215.30	286.50	ZRO	WK	hairline carbonate microfractures are ubiquitous although weak in density. Core is locally fractured (open fractures). Narrow intervals of possible faulting, located from 277.7 to 277.77, and from 281.45 to 281.6.

Point Structure

Depth m	Feature	Width	Alpha	Beta	Gamma	Dip/ Plunge	Dip/ Plunge Dir.	Reliability	Description
23.90	ZVE	0.2	20.0	149.0		46	117	low	part of a set of similarly oriented epidote veinlets
26.93	ZVC	0.25	15.0	29.0		78	189	low	associated hematite
108.88	ZVC	0.1	33.0	220.0		38	221	low	
112.37	ZVC	0.1	30.0	330.0		86	314	low	vein also contains epidote
112.64	ZVC	0.1	15.0	349.0		76	149	low	
113.14	ZVC	0.2	49.0	289.0		56	292	low	vein also contains epidote
114.10	ZVQ	0.2	23.0	302.0		84	288	low	vein also contains carbonate
117.50	ZVE	0.4	30.0	205.0		35	200	low	
121.18	ZVE	0.6	15.0	309.0		86	111	low	
138.72	ZVC	0.05	45.0	73.0		59	34	low	

161.99	ZVC	0.7	82.0	175.0	21	345	low	vein also contains py, cpy, with epidote selvage
163.11	ZFG	1.2	47.0	53.0	64	20	low	gougey faulted band
163.18	ZVC	0.6	35.0	155.0	31	120	low	vein also contains py, hematite
163.40	ZVQ	0.2	48.0	112.0	39	60	low	quartz-kspar-pyrite veinlet
169.42	ZVE	0.4	29.0	310.0	81	301	low	minor associated carbonate
190.42	ZVQ	0.3	60.0	355.0	59	341	low	vein also contains epidote, kspar
191.96	ZVC	0.2	27.0	45.0	84	24	high	
193.26	ZVC	0.5	85.0	142.0	25	352	high	vein also contains chlorite, hematite
195.96	ZVC	0.4	55.0	68.0	52	27	low	vein also contains chlorite
197.20	ZRO	0.05	46.0	98.0	47	54	low	vein also contains pink calcite, and chlorite, pyrite
198.97	ZVQ	0.25	40.0	334.0	76	324	low	vein also contains carbonate, pyrite
199.50	ZVQ	1.5	52.0	85.0	48	40	low	vein also contains chlorite
208.32	ZVQ	0.4	45.0	85.0	54	46	low	vein with epidote & magnetite selvage
208.60	ZVC	0.3	35.0	10.0	83	353	low	hematite
209.89	ZVQ	0.3	55.0	123.0	30	62	low	vein also contains chlorite
212.83	ZVC	0.2	76.0	100.0	29	15	high	
213.47	ZVQ	0.6	51.0	84.0	49	41	high	vein also contains carbonate, chloritic selvage
215.25	ZVQ	0.4	78.0	120.0	25	11	high	vein also contains globular pyrite, coarse magnetite, chloritic selvage
221.86	ZVE	0.3	40.0	81.0	59	47	low	vein also contains carbonate (calcite)
222.10	ZVC	0.5	48.0	83.0	52	43	low	vein also contains pyrite, chlorite, and quartz
225.28	ZVQ	0.2	49.0	36.0	66	11	low	pyritized
231.18	ZVC	0.1	62.0	226.0	21	277	low	
232.10	ZVQ	0.6	52.0	96.0	44	49	low	vuggy, with trace kspar, chlorite
232.14	ZVC	0.2	75.0	153.0	16	11	low	also contains pyrite
239.97	ZVC	0.2	40.0	62.0	67	34	high	
242.50	ZVC	0.2	65.0	190.0	6	296	high	
242.72	ZVC	0.3	35.0	210.0	33	216	high	
244.91	ZVC	0.6	50.0	195.0	14	208	high	vein also contains epidote
255.40	ZVC	0.5	29.0	27.0	87	10	low	vein also contains chlorite
256.09	ZVC	0.5	55.0	196.0	11	224	low	vein also contains chlorite
257.95	ZRO	0.05	35.0	198.0	29	198	low	hematite, pyrite, minor carbonate
266.78	ZVC	0.05	55.0	250.0	35	279	high	siderite
267.87	ZVE	0.3	50.0	63.0	57	30	high	carbonate
272.99	ZVC	0.1	20.0	238.0	58	238	low	vein is part of a similarly oriented set of hairline carbonate fractures
284.78	ZVC	0.05	72.0	180.0	10	347	low	epidote, kspar, cpy

Samples

From	To	Sample ID	Sample type	Cu_ppm	Au_ppb	Mo_ppm	Pb_ppm	Zn_ppm	As_ppm	Ag_ppm	K_ppm	Hg_ppm	Bi_ppm	Sb_ppm	S_%
9.00	11.00	408537	CORE_HALF	240.7	32.6	1.57	9.19	70.2	44.4	0.459	3700	0.014	0.17	0.31	0.91
12.95	14.00	408538	CORE_HALF	32.65	28.7	12.1	4.03	46.1	3.5	0.106	4400	-0.005	0.51	0.3	0.4
17.68	19.20	408539	CORE_HALF	34	15.2	1.51	2.49	40	3.5	0.062	4400	0.005	0.15	0.33	0.2

26.00	28.00	408540	CORE_HALF	81.16	16.7	4.89	2.17	49.7	4.6	0.119	6000	0.008	0.19	0.51	0.34
28.00	30.00	408541	CORE_HALF	434.15	25.4	3.69	2.99	55.9	4	0.561	6800	0.01	0.28	0.69	0.31
30.00	31.50	408542	CORE_HALF	495.99	24.3	13.48	2.43	70.8	5.8	0.54	13200	-0.005	0.19	0.34	0.2
34.00	35.40	408543	CORE_HALF	30.33	7.1	1.06	1.58	61.2	12.8	0.073	9600	-0.005	0.1	0.62	0.27
42.00	44.00	408544	CORE_HALF	4.23	11.7	0.18	1.74	42.8	11.5	0.029	7900	-0.005	0.03	0.4	0.02
45.00	46.00	408545	CORE_HALF	37.89	25.5	0.32	3	56.8	11.7	0.085	4000	0.008	0.06	0.24	0.14
60.00	61.00	408546	CORE_HALF	42.95	37.1	0.94	24.95	98.7	38.2	0.2	15800	0.008	0.14	0.2	0.85
93.73	94.57	408547	CORE_HALF	46.34	29.8	3.7	7.82	64.1	10.9	0.224	12100	0.027	0.73	0.35	0.71
149.00	150.50	408548	CORE_HALF	30.3	88.9	7.3	19.6	73.5	22	0.385	14900	0.008	0.71	0.49	0.93
153.00	154.00	408550	CORE_HALF	2293.87	281.5	1.2	6.3	61	4.7	3.894	7400	0.007	0.19	0.2	0.71
154.00	155.00	408551	CORE_HALF	174.11	46.8	1.09	2.28	47.9	4.3	0.296	8800	0.006	0.06	0.19	0.17
155.00	156.50	408552	CORE_HALF	113.38	17.8	0.94	9.45	56.7	7.7	0.234	9800	0.005	0.17	0.15	0.11
161.95	163.50	408553	CORE_HALF	28.31	3.8	0.41	106.46	42.5	2.5	0.66	11100	0.007	1.53	0.08	0.08
178.80	180.20	408554	CORE_HALF	9.1	26.4	0.15	2.1	38.6	2.7	0.055	8200	0.006	0.07	0.14	-0.02
199.50	201.00	408555	CORE_HALF	27.7	4.1	0.54	2.84	36.3	2.7	0.05	9300	-0.005	0.05	0.21	0.03
213.00	215.00	408556	CORE_HALF	42.42	6.9	0.51	3.53	60.6	8.9	0.073	14800	-0.005	0.04	0.29	0.03
222.00	223.35	408557	CORE_HALF	81.04	4.5	0.58	3.34	61.9	2.3	0.117	15500	0.013	0.05	0.11	0.04
235.00	237.00	408558	CORE_HALF	46.02	6.2	0.65	3.21	61	10.1	0.07	16600	-0.005	0.03	0.21	0.04