Addendum to Mt. Sicker Property Report on the 1986 Drill Programme and Geophysical Report FAME GRANT 10962E-15

March 25, 1987

by H. Gibson M. Gray

827175

CORPORATION FALCONBRIDGE COPPER



6415 - 64th Street Delta, B.C., Canada V4K 4E2 Telephone (604) 946-5451

March 24, 1987

Dr. J. Gammon, Manager
Exploration British Columbia
Mineral Resources Division
Ministry of Energy, Mines and
Petroleum Resources
Parliament Buildings
Victoria, B. C.
V8V 1X4

Re: Fame Grant 10962E-15

Dear John;

Please find enclosed an addendum to FAME Report 10962E-15 containing summary and detailed drill logs for holes MTS-28 to 31 (4) and an itemized cost statement. The FAME program has made a significant contribution to our exploration program on Mt. Sicker and will be a contributing factor to new discoveries in the area.

If you have any questions please call.

Yours truly,

H. L. Gibson

Senior Exploration Geologist

HLG/ik

Addendum to Mt. Sicker Property

Report on the 1986 Drill Programme

Victoria Mining Division

NTS 92B/13W

48° 59' Latitude, 123° 51' Longitude

Owner/Operator: Corporation Falconbridge Copper

by: H. L. Gibson

January 30, 1987

Claims

Queen Bee

Herbert

Key City

Morley-Jane

Tony

Estelle

XL

GRANT #10962E-15

MTS-28

MTS-28, located to test the up-plunge extension of a strong (+35%) pyrite-pyrrhotite-chalcopyrite stringer zone, failed to intersect significant mineralization.

Summary Log

0 - 84.51	Dacite crystal tuff, fault at 32.41m.
84.51 - 95.00	Andesitic crystal tuff and ash.
95.00 - 96.01	Diorite
96.01 - 103.0	Laminated andesitic tuff, <2% py.
103.0 - 104.5	Laminated dacitic tuff and chert - hematitic.
104.5 - 105.9	Andesite ash.

MTS-29 and MTS-30

Holes MTS-29 and MTS-30 test stratigraphy to the Myra-Nitinat transistion within the core of the Mt. Sicker anticline and along the north and south margins of a graben-like structure bounded by the Nugget Creek and Mine faults.

Summary Log

MTS-29	
0 - 88.40	Dacite to rhyodacite crystal tuffs, 1-8% pyrite.
88.40 - 103.93	Chert with banded massive magnetite (0.35m).
103.93 - 302.61	Diorite
302.61 - 397.06	Dacite to rhyodacite crystal tuffs, 1-10% py.
397.06 - 495.45	Andesite tuff, 1-15% py.
495.45 - 508.00	Dacitic crystal tuff, 5-15% py.
508.00 - 562.05	Andesite tuff, 2-8% py.

562.05 - 568.20	Rhyodacite quartz porphyritic flow, 1-3% py.
568.20 - 663.75	Andesite tuff, crystal tuff.
663.75 - 685.10	Quartz-eye dacitic crystal tuff, 3-8% py.
685.10 - 695.25	Andesitic crystal tuff.
MTS-30	
0 - 139.59	Diorite
139.59 - 206.85	Rhyodacite, quartz-porphyritic flow, 1-5% py, 2-3%
	sphalerite locally.
206.85 - 480.91	Dacite to rhyodacite ash, crystal tuff, 1-5% py.
480.91 - 558.39	Andesite tuff and crystal tuff.
559.72 - 632.36	Diorite.
632.36 - 645.26	Andesitic tuff, crystal tuff.

MTS-31

MTS-31 tested the faulted eastern extension of the Lenora-Tyee Mine Package 1km east of the former mine and 250m southeast of MTS-27.

Summary Log

0 - 42.37	Diorite
42.37 - 54.14	Dacite crystal tuff.
54.14 - 58.22	Fault.
58.22 - 101.69	Dacitic crystal tuff, fine ash, minor chert.
101.69 - 245.36	Diorite.

ITEMIZED COST STATEMENT

1987 DRILLING

Contractor - F. Boisvenu

15	33m.				\$110,133.32
Ma	chine, Man and	d Cat ho	urs		5,778.63
Ма	terials				3,672.35
Salaries					N
Н.	Gibson	2 days	at \$350/day	7	700.00
М.	Gray	34 days	at \$300/da	ау	10,200.00
Ε.	Denholm	7 days	at \$150/da	ay	1,050.00
Field Expense	es				
Tr	uck	17 days	at \$50.00/	day/	850.00
Fo	od/accommodat:	ion 34	days at \$4	40.00/day	1,360.00
					
			Total	L	\$133,744.30

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

* METRIC UNITS

HOLE NUMBER MTS-28	GRID CFC		FIELD COORDS	3+65N	DEP. 2+77E	ELEV 460m.		165 ⁰	COLLAR DIP _2	450 HOLE SIZE N	Q FINAL DEPTH 137.72m
PROJECT PN 304	CLAIM#		SURVEY COORDS			,	DATE STARTED: DATE COMPLETE	Jan 21/87 ED: Jan 23/87	CONTRACTO	OR: F. Boisvenu NAGE: Duncan	CASING: 3.05m left in
PURPOSE Test Pos	tuk-Fulton boz	rizon above MT	S-26 string	er zone	<u> </u>		· • · · · · · · · · · · · · · · · · · ·		- <u> </u>	RQD COLLAR SUR	LOG PULSE EM SURVEY
1000	tun Tutton not	TEON GOVE III		cr zone.				1			VET MULTISHOT SURVEY
	ACID T	ESTS				TROPARI TESTS				MULTISHOT DATA	
DEPTH (ft)	CORRECTED ANGLE	DEPTH()	CORRECTE ANGLE	ED	DEPTH()	AZIMUTH	DIP	DEPTH'()	AZIMUTH	DIP .
100	45-46 ⁰									·	·
200	44-45 ⁰										
300	46 ⁰										
450	LOST										
	,										
							, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
				- 1							· · · · · · · · · · · · · · · · · · ·
					····			 	•		
											
	<u>.</u>										

HOLE NO .	MTS-28
	BRIDGEPORT RICHMOND

LOGGED BY ____M. J. Gray

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
0 to 3.05	CASING					
3.05 to 5.18	ANDESITE CRYSTAL ASH TUFF	Colour - medium to dark green/grey Grain Size - fine +/- medium Very weakly foliated. Andesite crystal ash tuff. 25-35% 1 mm Fp phenos, trace (1 mm quartz eyes, chloritized matrix, possibly some mafic phenos present. Note: Trace magnetite diss. throughout, f.g.	Fol'n 45 (45–55)	Very weak - weak pervasive chloritization +/- minor sericitization. Trace epidote.	Trace py.	Litho: BCO 6151 3.05-5.18m Note dissolution texture in bands, probably former calc veins.
5.18 to 14.16	DACITE QTZ EYE-FP CRYSTAL ASH TUFF +/- MINOR DAC-AND ASH	Colour - medium grey, local grey-green Grain Size - fine - medium Weakly, locally strongly foliated. 5.18-8.84: Medium grey dacitic ash - crystal tuff. Crudely laminated, 2-5% (1-1 mm grey-white qtz eyes, approx. 5% 1 mm cloudy white Fp phenos.	Fol'n 60 (60-45)	Weak sericitization. Locally silicified(?) (7.63-8.23m as bands 1mm) (1mm calcite veinlets throughout. Tr chlorite.	Tr - 1% py	Note dissoluation texture due to calcite veins. Note local tr-1% f.g. specularite. BCD Litho #6152 5.18 - 8.18m
		8.34-10.47: Dacitic andesite well foliated. No qtz eyes. 10.47-14.16: Medium to light grey-green dacite ash - crystal tuff, 1-8% (5% avg.) (1-1mm qtz eyes.	45 60 (45-65)	Very weak - weak ser, tr. chl throughout. Strong - intense qtz-carbonate + limonite 1-2mm veinlets parallel to foliation @ 11.00-11.30, 11.40-11.88, 11.95-12.10, 12.20-12.25, 12.37-12.62.	Tr-1% py overall Locally 3% f.g. diss. py at 11.30-11.40.	Note chi patches/veinlets in qtz-calc-lim alteration. BCD Litho #6153 11.00 - 13.57m

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
14.16 to 14.39	AND.+/- DAC F. ASH TUFF	Colour - light green Grain Size - very fine - fine Poor - moderately laminated, weakly foliated Andesite-Dacite fine ash tuff; no qtz eyes.	Layering 65-70	Weak - weak/moderate chloritization, some (1mm black chl. veinlets with bleached envelopes.	Trace py	Possible marker ash bed.
14.39 to 24.88	DAC +/- DAC-AND CRYSTAL ASH TUFFS WITH MINOR LAPILLI TUFF	Colour - medium grey-green Grain Size - fine matrix, fine-medium crystab+ lapilli. Weakly foliated, crudely - poorly laminated. 14.39-15.55: Dac-and grey/green lapilli tuff, 20% 2-4mm size felsic frags, 2-3% (1mm qtz eyes, 10-20% (2mm Fp(?) crystals	Fo1'n (15-70)	Very weakly sericitic, local tr chl.	Tr py ((1%)	Tr - 2% hem diss. throughout interval.
		15.55-18.61: Medium greey/grey Dac-And coarse ash tuff, <2%-3% <pre></pre> <pre></pre> <pre></pre> <pre>than above.</pre>	45 (40-50)	Very weak-weak sericitization/ chloritization Mod qtz+/-cal+/-lim 4mm veinlets (up to 50mm)	Tr py - <1%	
		18.61-19.60: Medium green/grey Dac-And crystal-lapilli tuff, trace qtz eyes(?), 5% 2-3mm lapilli felsic frags, matrix coarse-fine ash (Mafic clots possibly frags).	45	Very weak - weak ser/chl	Tr py	Subtle division.
		19.60-22.47: Medium grey, Dac-And ash tuff, homogeneous looking; 1-3% (2mm qtz eyes, 10-20% (1-1mm Fp phenos.	30~35	Tr ser. Weak 2mm calc veins	Тг ру	Litho BCD 6154 19.60 - 22.47m
		22.47 - 23.51: Medium to light grey +/- green Dac-And coarse ash tuffs +/- crystal ash tuff crudely laminated, locally mod.foliated. 10-20% Fp phenocrysts (1-1mm, <2% (1-1mm quartz eyes	Fo]'n 45 (45-70)	Trace - very weak sericitization +/: chl, weakly bleached. Weak selective epidotization of (2mm Fp phenocrysts.	Tr – no visible sulphides (py)	Note: pink oxidized hem. locally on frac.
		23.51 - 24.88: Light grey quartz eye dacite ash tuff. 5-10% (1-1mm quartz eyes.	45 (30-45)	Weakly sericitized pervasive.	Tr ру	1-2% diss. hem.

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
24.88 to 26.52	DACITE ASHES (very blocky section)	Colour - greys - greens Grain Size - fine Blocky ground, core dacite ashes, not above qtz-eye dacite. (35% recovery).		Includes a 3-5cm qtz vein in one piece of core, with moderate ser/chl. Generally very weak sericitization/chloritization.	Тт ру	
26.52 to 29.57	DACITE · ASHES (very blocky)	Colour - Light grey - green Grain Size - very fine - fine Blocky ground (30% recovery) bleached light grey dacite ashes, some pieces with 2-3% qtz eyes.		Very weak - weak ser, tr. chl, weakly bleached.	Tr py – no visible sulphides.	Tr - 2% Hem dissem.
29.57 to 32.61	DAC-AND ASH? (very blocky section)	Colour - greys & greens Grain Size - fine-medium Broken pieces include dacite ash and gouge (recovery <10%).				
32.61 to 34.14 (poss. 24.57 to 34.14)	FAULT ZONE (GOUGE)	Colour - buff - pale green - slightly pink Grain Size - fine-medium gouge, frags > coarse Gouge & sheared/milled dacite ash.	Top ctc? internal 5 bottom ctc?	Clay gouge, locally calcareous. Massive white-milky qtz veins throughout >5mm (20cm. Trace Hematite diss. Bleached dacite ash? hosts fault. Variable weak-strong seritization +/- chloritization.	Tr - 1% py	24.57 - 32.61 (5% recovery, most pieces redrilled core. Lost water? in this section.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
34.14 to 55.47	DACITE- ANDESITE ASH TUFF, LOCAL CRYSTAL TUFF	Colour - light - medium green - grey Grain Size - fine Weakly, locally moderately foliated. Crudely laminated, locally poorly laminated. Homogeneous looking unit. 34.14 - 35.66: Med. grey/green	Fol'n 30	Massive white qtz veins throughout interval + K-spar + chl C/A 15. ie) 35.13-35.56m	Tr - <1% py.	1-3% dissem.
		dacite-and. ash tuff; 5% qtz eyes		Tr - very weak		hematite.
		(1mm. 35.66 - 39.82: similar to above, locally 2-5% 1mm qtz eyes in f.g. ash tuff, crudely laminated.	25-30	seritization/chloritization Tr - very weak seritization/chloritization	Tr - <1% py.	2-3% dissem. hematite(?) grains
		39.82 - 41.36: Lt. grey/green dacite-andesite ash tuff with 5-10% 1 mm qtz eyes. Weak - mod. foliation, crudely laminated.	15-30	Very weak ch1/seritization pervasive + weak - mod. bleaching. Qtz 20-50mm thick veins weak intensity.	Tr - <1% py.	conspicuous. Poss. part of small dyke (andesite) noted.
		41.36 - 50.80: Med - light green - grey dacite-andesite ash tuffs, very homogeneous looking, locally poorly laminated.	Fo1'n 30 (5-40)	Tr - very weak ser/chl pervasive. Very weakly bleached. Weak - mod 3mm qtz veins throughout.	Tr - <1% py mainly locally 43.70-44.10:-1% 47.00-47.30: 2-3%	BCD 6155 Litho 43.08 - 46.08m
		50.80 - 50.90: Fault Gouge 50.90 - 55.47: Lt. grey-green Dac-And ash (f.g.) tuff; 5-15% (1-1mm qtz eyes. Crudely laminated, weak foliation.	30 45 (20–45)	Clay - ser - limonite. Very weak ser/chloritization pervasive. Weak - moderately bleached.	Tr py. Tr py.	Diss. Hem(?) (1-2% throughout. Litho BCD #6156 52.49 - 55.47m.
55.47 to 56.22	DIORITE DYKE	Colour - medium - light green Grain Size - fine & very fine Very weakly foliated, equigranular, massive looking. Contacts not seen. Approx. 50% (1mm Fp crystals Approx. 50% (1mm Mafic crystals.	Top ctc 55?? Bottom ctc 60??	Weak pervasive chl +/- ep. Mod. 2-4mm calc veins throughout.	No visible sulphides.	Non magnetic.

Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
DAC-AND ASH TUFFS (SIMILAR TO ABOVE).	Colour - medium - light green with purplish-grey hues. Grain Size - fine Weakly foliated, crudely laminated. Dac-And ash tuff; VP to 3-5% (1-1mm qtz eyes.	40 (20-45)	Tr - very weak ser/chloritization. Mod Qtz-calc-limonite veinlets.	No visible sulphides.	2-3% Hem dissem, imparts pur-grey hue locally.
DACITE ASH TUFF +/- QTZ EYE CRYSTAL TUFF, MINOR ANDESITE- DACITE ASH & LAFE &	Colour - medium-dark grey with slight purple hue, local patches of light - medium green Grain Size - fine-aphanitic matrix, fine crystal, some lapilli Weak - moderately foliated, crudely laminated, interlayered dacite & andesite-dacite (5-25cm bands) and	Fol'n	Overall pervasive hemitization, very weak seritization, very weak chloritization (Andesitedacite).	No visible sulphides.	Possible chl hem assoc., as they are seen together locally as f.g. clots. Note reddish white streak when rocks are scratched.
MINOR CHERTY TUFF (INCLUDES	57.00 - 60.96: medium-dark grey dacite ash tuff, up to 8% (2mm qtz eyes, fine-aphanitic matrix also up to 8% Fp phenos. Homogeneous	45 (40-45)	Very weak seritization, pervasive hematite "dusting" 2–5% < <pre>Cl mm grains.</pre>	No visible sulphides.	sci acciled.
QTZ-FP PORPHYRY DYKES)	60.96 - 61.36: Light green & medium-light grey andesite-dacite lapilli tuff. Lapilli frags (avg. 3mm), Lapilli 5-10% are white-beige, crudely spherical, no pronounced concentric zones, some have qtz'eyes.	45 (layering)	Weak chloritization, weak seritization pervasive. Hemitization in "grey" portions.	No visible sulphides.	Note lapilli frags are felsic.
	61.36 - 62.83: medium-dark grey (purple hue), minor light green. Dacite ash tuff, local 2-5% (1mm	Fol'n 45 (40-50)	Very weak seritization, local chloritization pervasive hematite dusting as above.	No visible sulphides.	
	62.83 - 63.18: Medium green-grey andesite-dacite, lapilli ash tuff. Matrix is fine ash, lapilli frags are felsic, range 2-20mm, pink-white-beige colour, with round outlines and Ellip/lense shapes 25-30%. Frags locally over 10cm, avg 5-15%. Frags at 63.05 - 63.18 are maroon hemitized "eye" shapes possible boudined out layers? (5-10%) or hemitized felsic frags 3mm-15mm, avg. 5-8mm	45	Weak — moderate chloritization +/- seritization.	No visible sulphides.	Litho BCD #6157 62.83 - 63.18m
	DAC-AND ASH TUFFS (SIMILAR TO ABOVE). DACITE ASH TUFF +/- QTZ EYE CRYSTAL TUFF, MINOR ANDESITE- DACITE ASH & LAPILLI TUFF & MINOR CHERTY TUFF (INCLUDES MINOR QTZ-FP PORPHYRY	DAC-AND ASH TUFFS (SIMILAR TO ABOVE). Dac-And ash tuff; VP to 3-5% (1-1mm qtz eyes. DACITE ASH TUFF +/- QTZ EYE CRYSTAL TUFF, MINOR ANDESITE- DACITE ASH TUFF & Indicate ash tuff; VP to 3-5% (1-1mm qtz eyes.) DACITE ASH TUFF, MINOR ANDESITE- DACITE ASH TUFF & Indicate ash tuff; VP to 3-5% (1-1mm qtz eyes.) DACITE ASH TUFF, MINOR ANDESITE- DACITE ASH ITUFF & Indicate ash tuff; IP to 8% LAPILLI TUFF & Indicate ash tuff, up to 8% (2mm qtz eyes, fine-aphanitic matrix also up to 8% Fp phenos. Homogeneous looking. QTZ-FP QCHERTY DYKES) DACITE ASH TUFF (1) Indicate ash tuff, up to 8% (2mm qtz eyes, fine-aphanitic matrix also up to 8% Fp phenos. Homogeneous looking. QTZ-FP ONOPHYRY DYKES) DACITE ASH TUFF (2) Indicate ash tuff, up to 8% (2mm qtz eyes, fine-aphanitic matrix also up to 8% Fp phenos. Homogeneous looking. QTZ-FP ONOPHYRY DYKES) DACITE ASH TUFF (2) Indicate ash tuff, up to 8% (2mm qtz eyes, fine-aphanitic matrix also up to 8% Fp phenos. Homogeneous looking. QTZ-FP ONOPHYRY DYKES) DACITE ASH TUFF (2) Indicate ash tuff (3 matrix also up to 8% (2 mm qtz eyes, fine-aphanitic matrix also up to 8% Fp phenos. Homogeneous looking. QTZ-FP ONOPHYRY DYKES) DACITE ASH TUFF (2) Indicate ash tuff, up to 8% (2 mm qtz eyes, fine-aphanitic matrix, fine ash, lapilli frags are felsic, range 2-20mm, pink-white-beige colour, with round outlines and Ellip/lense shapes 25-30%. Frags locally over 10cm, avg 5-15%. Frags at 63.05 - 63.18 are maroon hemitized "eye" shapes possible boudined out layers? (5-10%) or hemitized felsic frags 3mm-15mm, avg.	DAC-AND ASH TUFFS (SIMILAR TO ABOVE). DACITE ASH TUFF +/- QTZ EYE QRain Size - fine ANDESITE- DACITE ASH TUFF, MINOR ANDESITE- MINOR ANDESITE- DACITE ASH TUFF & ABOVEI DACITE ASH TUFF & ANDESITE- DACITE ASH TUFF & ANDESITE- DACITE ASH TUFF & ANDESITE- DACITE ASH ANDESITE ANDESITE- DACITE ASH ANDESITE DACITE ASH ANDESITE- DACITE ASH ANDESITE DACITE ASH ANDESITE COLON-TOTAL ANDESITE DACITE ASH ANDESITE DACITE ASH ANDESITE DA	DAC-AND ASH TUFFS (SIMLAR TO ABOVE). DACITE ASH TUFF +/- QTZ EYE CRYSTAL TUFF, MINOR ANDESTIFE DACITE ASH TUFF & MNOR CHERTY TUFF QTZ EYE DACITE ASH TUFF & MNOR TUFF & MUFF	DAC-AND ASH TUFFS (SIMILAR TO ABOVE), Colour - medium - light green with ASH TUFFS (Grain Size - frine ABOVE), DACTE ASH Colour - medium-dark grey with ASH TUFF + TUFF +/- TOT ZE'E CRYSTAL TUFF, MINOR ANDESITE- DACITE ASH LAPILIT TUFF & LAPILIT TUFF & LAPILIT TUFF & CALAPILIT

lana.

Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
	63.18 - 63.92: Pale green-grey and maroon siliceous f.g. tuff (cherty tuff?) to dacitic ash, poorly laminated? 3-8mm poorly defined hemitite rich vs pale green chert tuff bands over a 20cm section.	Lam. (?) 65	Very weak chl. locally, hem. as dissem. in bands also throughout. Moderate-strong calc. 1 mm veinlets.	No visible sulphides.	Hemitite bands maroon – slight red, poss. selective hemitization of indiv. ash.
	Note brecciation at 63.18. Healed by calcite veins.				
	63.92 - 64.35: Light green +/- grey dacite-andesite ash tuff, up to 5% Clmm qtz eyes, quite siliceous. Possible dyke? at 64.22 - 64.30m	Top Ctc? approx.60 Fol'n 40- 60 Bot. Ctc 35 dyke	Trace – very weak chl/ser. Grey sections pervasive hematization.	No visible sulphides.	Subtle division. Note dyke mentioned beige - pale green qtz eye rhyolite porphyry <2mm 10% qtz eyes.
	64.35 - 67.18: Medium grey, locally light grey dacite ash with qtz eyes (up to 5% generally (1-1mm). Homogeneous unit, locally laminated poorly. Note narrow dyke @ 66.00 - 66.04m	Fol'n 45 (40–60)	Pervasive hemitite dusting, tr ser/chl, moderate <1 mm calc stringers	No visible sulphides.	2-5% dissem. hematite grains, metallic luster. Litho BCD #6158 64.36 - 67.18m.
	same as previous section. 67.18 - 68.02: Similar to above but has intermittent lcm-3cm bands of crystal tuff/lapilli tuff. Felsic frags (some with qtz eyes) 2mm-20mm(?), 60-80% of bands.	80-60 ctc Lay/Fol'n 40 (35-45)	Pervasive hemitite, Trace ser/chl, very weak chl in Lapilli tuff bands.	No visible sulphides.	2–5% hematite as above. Bands or patches of lapilli tuff, Poss. thicker
	68.02 - 68.27: Similar to (64.30 - 67.18m) Dacite ash. 68.27 - 68.47: Qtz-fp porphyry rhyolite dyke; beige - pale green, 15% (2mm qtz eyes. Flow structure	50 Top Ctc 50 Bot Ctc	As above Traces of hemitite.	No visible sulphides.	where folded. 2-5% hematite as above. Note greenish rind surrounding
	noted.	65			qtz/fp crystals.

From To

68.27) dacite ash with 5-10% qtz eyes. 69.08 - 69.39: Same as above though light green-grey "bleached", (5% qtz eyes 1-(2mm. 69.39 - 69.48: Qtz-fp porphyry dyke?? or felsic band. Similar to previous dykes. 69.48 - 72.40: Medium-dark grey (purple hue + green hue) dacite ash - crystal tuff. Has up to 10% (1mm-grains. Clmm grains. Mo visible sulphides. Very weak chl/ep. Bot ctc 69.48 - 72.40: Medium-dark grey (purple hue + green hue) dacite ash - crystal tuff. Has up to 10% Clmm-lmm qtz eyes. Also crystals? with greenish hue 10%. Poss. frag at 71.58 approx. 5X8cm. 72.40 - 72.90: Medium grey-green dacitic-ash tuff +/- lapilli tuff. Local lapilli frags felsic 5% 2-5mm over narrow 10mm section. 72.90 - 73.05: Medium - light green Layering/ dusting. Nil-trace ser. (lamm grains. (lmm g	<u>rom</u> To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
69.08 - 69.39: Same as above though light green-grey "bleached", (5% qtz eyes 1-(2mm. 69.39 - 69.48: Qtz-fp porphyry dyke?? or felsic band. Similar to prevoive dyke? or felsic band. Similar to prevoive dyke? 40: 40: 40: 40: 40: 40: 40: 40: 40: 40:			68.27) dacite ash with 5–10% qtz	55		No visible sulphides.	2-5% hematite (1mm grains.
69.39 - 69.48: Qtz-fp porphyry dyke?? or felsic band. Similar to previous dykes. 69.48 - 72.40: Medium-dark grey (purple hue + green hue) dacite ash - crystal tuff. Has up to 10% (1mm-lmm qtz eyes. Also crystals? with greenish hue 10%. Poss. frag at 71.58 approx. SX8cm. 72.40 - 72.90: Medium grey-green dacitic-ash tuff +/- lapilli tuff. Local lapilli frags felsic 5% 2-5mm over narrow 10mm section. 72.90 - 73.05: Medium - light green lapilli tuff andesite/dacite, 30% felsic frags eye shape 2-6mm. 73.05 - 73.25: F.g. medium grey - green dacite ash. 70			69.08 - 69.39: Same as above though light green-grey "bleached",	30-40	pervasive dissem.	No visible sulphides.	2-3% hematite <pre></pre> (1mm grains.
(purple hue + green hue) dacite ash - crystal tuff. Has up to 10% Pervasive dissem. - crystal tuff. Has up to 10% Pervasive dissem. (lmm-lmm qtz eyes. Also crystals? hematite. Tr sericite. with greenish hue 10%. Poss. frag Chlorite is weak selective at 71.58 approx. 5X8cm. 72.40 - 72.90; Medium grey-green dacitic-ash tuff +/- lapilli tuff. Local lapilli frags felsic 5% 2-5mm over narrow 10mm section. 72.90 - 73.05; Medium - light green lapilli tuff andesite/dacite, 30% Fol'n Tr ser/chl, pervasive trace py. felsic frags eye shape 2-6mm. 73.05 - 73.25; F.g. medium grey - Fol'n Tr ser/chl, pervasive hematite. Tr ser/chl, pervasive trace py. hematite in matrix. No visible sulphides. 73.05 - 73.25; F.g. medium grey - Fol'n No visible sulphides. Tr ser/chl, pervasive trace py. hematite in matrix. Frags. 73.05 - 73.25; F.g. medium grey - Fol'n No visible sulphides. Tr ser/chl, pervasive hematite.		•	69.39 - 69.48: Qtz-fp porphyry dyke?? or felsic band. Similar to	70		No visible sulphides.	
dacitic—ash tuff +/- lapilli tuff. Local lapilli frags felsic 5% 2-5mm over narrow 10mm section. 72.90 - 73.05: Medium - light green lapilli tuff andesite/dacite, 30% felsic frags eye shape 2-6mm. 73.05 - 73.25: F.g. medium grey - green dacite ash. Tr ser/chl, pervasive hematite in matrix. Tr ser/chl, pervasive hematite in matrix. No visible sulphide - trace py. hematite in matrix. frags. No visible sulphides. 2-3% dissem. hematite.			(purple hue + green hue) dacite ash - crystal tuff. Has up to 10% (1mm-1mm qtz eyes. Also crystals? with greenish hue 10%. Poss. frag	30	Pervasive dissem. hematite. Tr sericite. Chlorite is weak selective	No visible sulphides.	Minor quartz feldspar porphyry dykes @ 69.81 m,
lapilli tuff andesite/dacite, 30% Fol'n Tr ser/chl, pervasive trace py. above - not in felsic frags eye shape 2-6mm. 45 hematite in matrix. frags. 73.05 - 73.25: F.g. medium grey - Fol'n No visible sulphides. 2-3% dissem. green dacite ash. 45 Tr ser/chl, pervasive hematite.			dacitic-ash tuff +/- lapilli tuff. Local lapilli frags felsic 5% 2-5mm	40-45		No visible sulphides.	Hematite same as above.
green dacite ash. 45 Tr ser/chl, pervasive hematite.			lapilli tuff andesite/dacite, 30%	Fol'n			Hematite same as above – not in frags.
						No visible sulphides.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
73.25 to 77.25	ANDESITE & ANDESITIC- DACITE ASH	Colour - medium-light green +/- grey Grain Size - fine - lapilli Weak - moderately foliated, locally well laminated tuff over 20cm (i.e. 74.47) overall crudely laminated. Andesite/Andesitic-dacite fine - coarse grained ash tuff & interlaminated lapilli ash tuff & minor (10%) interlaminated grey dacite(?) f.g. ash. Lapilli tuff (poss. crystal tuff?) Similar to 72.90 - 73.05.	Folin 45 Layering 45?	Very weak +/- weak ser/chl.	No visible sulphides.	Litho BCD #6159 73.39 - 77.16m Lapilli tuff bands 10cm-50cm. Some interlaminated dacite bands with 2-5% hematite near end of interval.
77.25 to 85.22	DACITE & DACITE/ ANDESITE FINE ASH - FINE CRYSTAL TUFF MINOR INTER- LAYERED LAPILLI TUFF	Colour - medium - light green, lapilli tuff is light green. Grain Size - fine +/- lapilli. Weak - moderately foliated, relatively homogeneous ash - crystal ash tuff, minor lapilli tuff bands (5cm-25cm) at 77.46, 78.48, 79.97 - 80.47. Lapilli tuff 10-20% 2mm lapilli felsic frags.	Fol'n 50 Layering 45-55	Very weak ser, tr. chl. Pervasive hematite dusting.	No visible sulphides.	2-5% very fine dissem. hematite throughout.
85.22 to 88.95	DACITE- ANDESITE LAMINATED ASH TUFF & CHERTY TUFF +/- CHERT (INTERLAM.)	Colour - light green & grey - green Grain Size - very fine - medium ash, aphanitic cherty tuff Weakly - moderately foliated, ash & cherty ash & cherts are well laminated. Laminations (1mm-10mm Avg. 2-5mm. Approx. 25% cherty tuff, 5% chert(?), 70% Dacite-andesite f.g. ash.	Layering 40-60 (30-65)	Very weak chl/ser locally weak. No pervasive hematite dusing but local sections have 1-2% dissem. hematite in ash layers.	No visible sulphides - trace py except locally 1-2% f.g. py ie) 86.40, 86.96.	Litho BCD #6160 85.58 - 89.01

<u>From</u> <u>To</u>	<u>Rock Type</u>	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
88.95 to 91.64	DACITE +/- DACITE- ANDESITE LAPILLI +/- CRYSTAL TUFF	Colour - Light green-grey. Grain Size - matrix - fine-medium Frags - lapilli, Crystals - fine-medium. Weakly foliated, crude local laminations. Lapilli tuff - crystal lithic tuff heterolithic frags/crystals include 10-15% cherty tuff/chert, 10% (2mm qtz eyes, 10-20% Dacite-rhyolite quartz fleldspar porphyry(?) frags. Frags lenticular up to 5cm X 3cm, Avg. 3-5mm, lapilli tuff dominated from 88.95 - 89.61, crystal-tuff(?) dominated to end.	Layering? 40-45	Trace – very weak chl/ser.	1-3% pyrite f.g. dissem & blebs from 88.95 - 89.81. Trace py throughout rest of interval.	Note 1-2% hematite dissem. locally throughout interval. Litho BCD #6161 89.01 - 91.87m
91.64 to 91.87	FAULT	Colour - light-medium green Grain Size - fine matrix, lapilli Strongly sheared lapilli tuff, minor clay gouge on upper plane.	Top 25 Bot. 55	Moderate ser/chl, minor clay.	Trace py.	1–2% hematite dissem.(included in BCD 6161)
91.97 to 95.01	ANDESITE - FINE ASH TUFF (EXTREMELY WELL LAMINATED)	Colour - light-medium camouflage green Grain Size - aphanitic - fine Weak - moderately foliated, extremely well laminated, ((1-3mm laminations avg. (1mm. Andesite - fine ash tuff (Homogeneous overall).	Lam. 45-50 (40-70) Upper ctc 55	Weak locally, weak - moderate chl +/- ser +/- ep. Moderate - strong calcite veins, gashes parallel to layering, also contorted vein folded into fol'n.	No visible sulphides – 1% Locally 1% py.	(PSEUDO- VARVELIKE LAMS.) Tr-2% dissem. local hematite. Note felsic dyke same as below at 94.60 - 94.70m. Lam. bands not very sharp. Litho BCD #6162 92.01 - 95.01m

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
95.01 to 96.01	FELSIC DYKE (POSS. PHASE OF DIORITE)	Colour - light grey with light green margins. Grain Size - fine. Massive, equigranular, leucoratic lgith grey - beige throughout. (15% chl altered mafics, 80% Fp (?), no qtz recognized.	Upper Ctc 75 Bot. Ctc 40	Bleached(?) strong Moderate chloritization.	No visible sulphides.	Gradational grey centre to green outsides then chilled very fine - aphantic margins. Litho BCD #6163 95.01 - 96.01
96.01 to 103.17	ANDESITE FELSIC ASH TUFF/ (EXTREMELY WELL LAMINATED, SAME AS ABOVE)	Colour - light-medium camouflage green. Grain Size - aphanitic-fine Same as above (91.87 - 94.34)	45-70 Lam.	Same as above (91.87 - 94.34) weak - moderate chl +/- ser +/- ep locally.		Note patches hematite dissem. locally, tr throughout to 2% hematite to 3%. Note clots of mafics <<1 x lmm smeared parallel to foliation locally.
103.17 to 104.43	DACITE TUFF +/- MINOR CHERTY TUFF (EXTREMELY WELL LAM. ASH)	Colour - beige/buff & dull purple Grain Size - aphanitic - fine Weakly foliated, extremely well laminated. Laminations (1-2mm Avg. (1mm, good sharp interlaminae ctcs. Bands are beige/buff and dull purple (15%) hematite rich bands.	55-60	Very weak - weak seritization. Hematite? in bands poss. primary. Weak calcite { mm str.	No visible sulphides.	1% hematite dissem. throughout in addition to hematite-rich bands. Litho BCD #6164 103.17 -104.43m

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
104.43 to 106.14	ANDESITE & ANDESITE- DACITE FINE ASH TUFFS	Colour - medium-light-dark green. Grain Size - very fine - fine - aphanitic. Weak locally moderately foliated. Poorly laminated fine andesite & andesite-dacite ash tuff, laminations not sharp avg. 4-10mm. Note local mafic clots/lenses (1mm X 2mm.	Fol'n/ Layering? 70	Moderate & weak-moderate chl +/- ser. Calc veinlets 1 mm moderate throughout generally parallel to foliation also local floods of calc.	Tr - 2% py. Locally see 8X8mm, eudhedral py cubes. ie) 105.50 2% py assoc. with calc lenses(?)	Note lower ctc with dyke is transitional, bleached, hard to pin down location within 30cm. Therefore approx. 60cm gradational/ bleached section.
106.14 to 112.93	DACITE FINE ASH TUFF	Colour - grey-beige locally with greenish hue. Grain Size - very fine - fine +/- aphanitic No visible volcantion. Massive fine - very fine grained faint bands, dacite fine ash tuff. >50% felsic minerals, some sections almost aphanitic. ie) 107.15 - 107.68, 108.23 - 108.61	Upper ctc grada- tional lower ctc 75-80	Tr - very weak ser? Weak - moderate calcite veins and lenses, (2mm veins. Weak qtz veins 1-3mm. Calc.veins parallel to approx. 80 C/A Bleached? moderately.	Py Tr-5%, some as disseminations mainly as str. and dissem. with in qtz f.g. euhedral. 106.14-106.89 1% py dissem. 106.89-108.51 3-5% (1mm str. 108.51-112.36 Tr py dissem. 112.36-112.93 3-5% py str. Py str. parallel to quartz/calc. veins.	(poss. bleached diorite?) but very felsic & no suggestion of foliation. Note hematite dissem. throughout 1%, sections with less py, up to 5% hematite. Litho BCD #6165 106.94 - 109.95m
112.93 to 113.57	ARGILLITE (WITH SILICEOUS DACITE OR CHERTY TUFF INTERLAM.)	Colour - black & med-light grey Grain Size - very fine - aphanitic Weak - moderately foliated, extremely well laminated, 1mm sharp ctc laminations, alternating argillite and cherty tuff or dacite f.g. ash.	Top ctc approx. 75 lam. 75 Bot. ctc approx.55	Moderate irregular calcite veins 3-8mm thick. perpendicular to laminations. Moderate qtz veins irregular as above parallel and perpendicular to laminations. Graphite throughout.	Py 5-10% as str. 1-2mm parallel to laminations/foliations, f.g. brassy-yellow. Also irregular blebs and dissem.	Foliation is marked by carbonaceous planes. Litho BCD #6171 112.93 - 113.57m (Saw)

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
113.57 to 119.94	DACITE TO RHYODACITE ASH TUFF +/- CRYSTAL TUFF	Colour - very light grey/green. Grain Size - aphanitic-fine. Weakly foliated, massive, homogeneous looking unit. Up to 10% ((1mm qtz eyes. Dacite-rhyodacite ash tuff, (?poss. flow?). 113.57 - 114.56: Crystal-ash tuff with lapilli (5%) frags including 1% argillite chips. C/A foliation at upper contact 10-15. 114.56 - 114.60: Argillaceous tuff band similar to above argillite. 114.60 - 119.94: Homogeneous dacite-rhyodacite ash/crystal-ash tuff, (10% (1mm qtz eyes.	Bot. ctc Grad. Fol'n 60-70 (45-75)	Pervasive very weak - weak seritization, tr. chl. Bleached.	Tr - 1% py throughout, locally up to 3% py as dissem. & blebs. Small blebs of cpy @ 116.20 in a !-2mm py str. (1% over 5cm).	Note C/A 10-15 of crystal-ash-lapilli tuff vs ctc. Litho BCD #6166 116.00 - 119.00m
119.94 to 124.00	FLOW- BRECCIA DACITE	Colour - light grey matrix, medium green frags also white. Grain Size - aphanitic - fine. Massive with elongate fragments (poor outlines) of feldspar porphyry dacite, possible rhyolite matrix.	Тор?	Trace ser/chl. Weak - moderate (1mm calc veins throughout coat fractures.	Tr - 5% py, avg. Tr-2% locally up to 2% f.g. py dissem. + 1-2mm irregular str., f.g. blebs. 122.23-122.33 5% str. py.	Litho BCD #6167 121.56 - 123.15m Note minor chloritic fragment 2X8mm.
124.00 to 132.90	DACITE FLOW	Colour - medium - dark green-grey + light grey. Grain Size - aphanitic - fine. Massive, very weakly foliated. Dacite flow(?) weakly feldspar porphyritic (<1 mm grains) homogeneous unit. Narrow bykes at 126.93, 127.03, 132.22, 132.36-132.44.	Fol'n 60 (50-80)	Very weak ser/chl, locally weak. Weak - moderate 2-4mm thick calcite irregular veinlets generally parallel to foliation. Very weak qtz veins 5-25mm thick with (1mm weak chl selvages.	Tr-5% py as f.g. dissem. blebs up to 4X4mm, avg. 2X2mm. 123.25-123.65: Tr-<1% py 123.65-126.00: 2-5% py Locally 5% over 35cm. 126.00-132.90: Tr-<1% py.	Tr qtz eyes(?) Litho BCD #6168 128.60 - 131.60m Very siliceous.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
132.90 to 135.23	QUARTZ-FP PORPHYRY RHYOLITE(?)	Colour - beige-white Grain Size - aphanitic-groundmass, fine-medium phenos Weakly foliated, flow banded, distinct quartz porphyry rhyolite flow (F.W.) 10-20% qtz eyes, (1-3mm, Avg. 1-2mm, Ang-round. Note qtz-porphyry-rich bands.	Fol'n Flow B. 60-65	Tr - very weak seritization. Fracture/veinlets of (1mm ser(?)	No visible sulphides, except locally over narrow sections ie) 134.43-134.48: 3-5% py dissem as patches parallel to foliation f.g. 134.78-134.93: 3-5% py same as above.	Footwall quartz porphyry. Litho BCD #6169 133.03 - 134.90m
135.23 to 137.56	FELDSPAR PORPHYRY DACITE- RHYOLITE	Colour - dark green - black. Grain Size - groundmass - very fine, phenos - medium. Massive, foliation not evident. Feldspar porphyry, porphyritic, groundmass - very fine grained - aphanitic, mafics + feldspar phenos Sub-anhedral 1-3mm Avg. 1-2mm grains	Upper ctc 70? Lower ctc 30	Very weak chloritization. Silicified(?) pervasive fractures/veinlets of ser(?) <1 mm moderate throughout.	Tr py throughout.	Litho BCD #6170 135.35 - 137.31m
137.56 to 137.72 E.O.H.	QUARTZ PORPHYRY RHYOLITE (SAME AS ABOVE)	Colour - beige - white. Grain Size - aphantic - groundmass, fine - medium phenos. Flow banded(?) qtz porphyry rhyolite (same as above 132.90 - 135.23).	Fol'n Flow B. 45	Tr - very weak seritization. Fractures/veinlets of ser? as above.	No visible sulphides.	Dissem. hematite? in fractures. Poss. altered version of above feldspar porphyry.

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (mg.)	TO (m)	SiO:	Al ₂ O ₃	CaO	MgO	Na _z O	K₂O	FeO	MπO	TiO₂	Ва	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	As ppm	Sr%	Sb ppm	Zr%	Total
6151	3.05	5.18	53.97	18.88	2.81	4.30	5.01	2.04	9.28	0.28	0.75	.046	37	73	21	.3	10	7	.04	7	.013	97.42
6152	5.18	8.18	66.99	16.75	1.67	1.17	1.48	5.43	4.03	0.07	0.34	.088	2	19	6	.2	5	1	.02	1	.013	98.05
6153	11.00	13.57	63.87	17.42	3.39	0.87	4.28	3.26	4.40	0.21	0.28	.093	3	23	7	.2	5	1	.03	3	.009	98.11
61 54	19.60	22.47	63.66	16.93	3.61	1.10	4.60	2.99	4.52	0.22	0.26	.094	3	46	13	.2	5	1	.04	3	.008	98.05
6155	43.08	46.08	71.04	14.84	1.41	1.67	2.33	2.96	3.53	0.07	0.27	.072	2	56	9	.2	10	1	.02	2	.010	98.21
											•						•					
6156	52.49	55.47	65.81	17.71	1.89	1.70	3.88	2.63	4.06	0.08	0.31	.063	1	45	9	.2	5	4	.03	3	.015	98.17
							•	<u> </u>	-													
6157	62.83	63.18	64.48	19.33	3.20	1.64	4.28	1.44	3.34	0.05	0.34	.072	1	57	13	.2	5	1	.04	2	.018	98.23
		<u> </u>		1	<u> </u>	•		<u> </u>	· · · · · · · · · · · · · · · · · · ·	•												
6158	64.36	67.18	69.04	16.24	1.38	1.21	4.86	1.35	3.56	0.03	0.30	.068	1	42	9	.2	5	1	.03	2	.012	98.08.
																						
6159	73.39	77.16	66.20	17.26	4.11	2.16	2.91	0.84	4.02	0.05	0.39	.040	1	75	13	.2	10	1	.03	3	.013	98.04
					<u> </u>	<u> </u>	•		<u> </u>		•											
6160	85.58	89.01	66.35	16.91	2.59	1.80	4.00	2.13	3.76	0.08	0.44	.073	10	78	13	.2	5	4	.03	3	.011	98.18
					*		•															

			M. J. Gray	5 N
Hole No	MTS-28	Entered by	Lodded by	Page No
TOIC 110	1120 20	Cittored by		

. ZIPPY PRINT * - BRIDGEPORT RICHMOND

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

6161 89.01 91.87 69.31 15.96 1.56 2.67 0.75 3.31 4.26 .05 0.26 .102 5 77 11 .2 5 11 .02 3 .011 6162 92.01 95.01 49.79 19.20 6.19 5.27 1.58 2.76 11.16 .22 1.31 .038 114 76 21 .3 5 28 .03 7 .005 6163 95.01 96.01 64.05 16.63 4.39 1.95 3.61 2.10 4.61 .20 0.39 .169 13 42 .13 .2 10 1 .04 3 .005 6164 103.17 104.43 48.15 19.86 7.29 3.57 0.65 4.66 11.65 .18 1.39 .064 118 78 13 .2 5 1 .02 8 .005 6165 106.94 109.95 54.52 15.97 7.33 4.37 3.06 1.10 10.25 .21 0.79 .087 118 101 33 .3 5 38 .03 9 .005 6167 112.93 113.57 62.66 10.61 11.63 1.55 1.05 1.61 7.92 .33 0.49 .110 57 70 25 .2 10 62 .03 8 .005 6166 116.00 119.00 69.66 15.29 2.26 2.35 0.51 9.37 4.18 .08 0.37 .085 276 71 9 .2 5 4 0.2 3 .012 . 6168 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009 0								JOR OXID					INACE ELEMENTS					•					
6162 92.01 95.01 49.79 19.20 6.19 5.27 1.58 2.76 11.16 .22 1.31 .038 114 76 21 .3 5 28 .03 7 .005 6163 95.01 96.01 64.05 16.63 4.39 1.95 3.61 2.10 4.61 .20 0.39 .169 13 42 .13 .2 10 1 .04 3 .005 6164 103.17 104.43 48.15 19.86 7.29 3.57 0.65 4.66 11.65 .18 1.39 .064 118 78 13 .2 5 1 .02 8 .005 6165 106.94 109.95 54.52 15.97 7.33 4.37 3.06 1.10 10.25 .21 0.79 .087 118 101 33 .3 5 38 .03 9 .005 6171 112.93 113.57 62.66 10.61 11.63 1.55 1.05 1.61 7.92 .33 0.49 .110 57 70 25 .2 10 62 .03 8 .005 6166 116.00 119.00 69.66 15.29 2.26 2.35 0.51 9.37 4.18 .08 0.37 .085 276 71 9 .2 5 4 .02 3 .012 9 6168 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009 0	SAMPLE NUMBER			SiO ₂	Al ₂ O ₁	CaO	MgO	Na _z O -	K₁O	FeO	MnO	TiO ₂	Ва	ppm Cu				ppb Au	As	Sr%	ррш Sb	Zr%	Total
6163 95.01 96.01 64.05 16.63 4.39 1.95 3.61 2.10 4.61 .20 0.39 .169 13 42 .13 .2 10 1 .04 3 .005 6164 103.17 104.43 48.15 19.86 7.29 3.57 0.65 4.66 11.65 .18 1.39 .064 118 78 13 .2 5 1 .02 8 .005 6165 106.94 109.95 54.52 15.97 7.33 4.37 3.06 1.10 10.25 .21 0.79 .087 118 101 33 .3 5 38 .03 9 .005 6171 112.93 113.57 62.66 10.61 11.63 1.55 1.05 1.61 7.92 .33 0.49 .110 57 70 25 .2 10 62 .03 8 .005 6166 116.00 119.00 69.66 15.29 2.26 2.35 0.51 9.37 4.18 .08 0.37 .085 276 71 9 .2 5 4 .02 3 .012 6167 121.56 123.15 71.25 15.32 2.01 0.22 6.52 0.73 1.69 .06 0.34 .032 23 24 7 .2 15 1 .02 2 .011 6168 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009	6161	89.01	91.87	69.31	15.96	1.56	2.67	0.75	3.31	4.26	.05	0.26	.102	5	77	11	.2	5	11	.02	3	.011	98.27
6163 95.01 96.01 64.05 16.63 4.39 1.95 3.61 2.10 4.61 .20 0.39 .169 13 42 .13 .2 10 1 .04 3 .005 6164 103.17 104.43 48.15 19.86 7.29 3.57 0.65 4.66 11.65 .18 1.39 .064 118 78 13 .2 5 1 .02 8 .005 6165 106.94 109.95 54.52 15.97 7.33 4.37 3.06 1.10 10.25 .21 0.79 .087 118 101 33 .3 5 38 .03 9 .005 6171 112.93 113.57 62.66 10.61 11.63 1.55 1.05 1.61 7.92 .33 0.49 .110 57 70 25 .2 10 62 .03 8 .005 6166 116.00 119.00 69.66 15.29 2.26 2.35 0.51 9.37 4.18 .08 0.37 .085 276 71 9 .2 5 4 .02 3 .012 6167 121.56 123.15 71.25 15.32 2.01 0.22 6.52 0.73 1.69 .06 0.34 .032 23 24 7 .2 15 1 .02 2 .011 6168 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009		1			·	·						····											
6164 103.17 104.43 48.15 19.86 7.29 3.57 0.65 4.66 11.65 .18 1.39 .064 118 78 13 .2 5 1 .02 8 .005 6165 106.94 109.95 54.52 15.97 7.33 4.37 3.06 1.10 10.25 .21 0.79 .087 118 101 33 .3 5 38 .03 9 .005 6171 112.93 113.57 62.66 10.61 11.63 1.55 1.05 1.61 7.92 .33 0.49 .110 57 70 25 .2 10 62 .03 8 .005 6166 116.00 119.00 69.66 15.29 2.26 2.35 0.51 3.37 4.18 .08 0.37 .085 276 71 9 .2 5 4 .02 3 .012 6167 121.56 123.15 71.25 15.32 2.01 0.22 6.52 0.73 1.69 .06 0.34 .032 23 24 7 .2 15 1 .02 2 .011 6168 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009 6169 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009	6162	92.01	95.01	49.79	19.20	6.19	5.27	1.58	2.76	11.16	.22	1.31	.038	114	76	21	.3	5	28	.03	7	.005	97.55
6164 103.17 104.43 48.15 19.86 7.29 3.57 0.65 4.66 11.65 .18 1.39 .064 118 78 13 .2 5 1 .02 8 .005 6165 106.94 109.95 54.52 15.97 7.33 4.37 3.06 1.10 10.25 .21 0.79 .087 118 101 33 .3 5 38 .03 9 .005 6171 112.93 113.57 62.66 10.61 11.63 1.55 1.05 1.61 7.92 .33 0.49 .110 57 70 25 .2 10 62 .03 8 .005 6166 116.00 119.00 69.66 15.29 2.26 2.35 0.51 3.37 4.18 .08 0.37 .085 276 71 9 .2 5 4 .02 3 .012 6167 121.56 123.15 71.25 15.32 2.01 0.22 6.52 0.73 1.69 .06 0.34 .032 23 24 7 .2 15 1 .02 2 .011 6168 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009 6169 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009									·	.												· · · · · · · · · · · · · · · · · · ·	
6165 106.94 109.95 54.52 15.97 7.33 4.37 3.06 1.10 10.25 .21 0.79 .087 118 101 33 .3 5 38 .03 9 .005	6163	95.01	96.01	64.05	16.63	4.39	1.95	3.61	2.10	4.61	.20	0.39	.169	13	42	. 13	.2	10	1	.04	3	.005	98.15
6165 106.94 109.95 54.52 15.97 7.33 4.37 3.06 1.10 10.25 .21 0.79 .087 118 101 33 .3 5 38 .03 9 .005							•								•						,		
6171 112.93 113.57 62.66 10.61 11.63 1.55 1.05 1.61 7.92 .33 0.49 .110 57 70 25 .2 10 62 .03 8 .005 9	6164	103.17	104.43	48.15	19.86	7.29	3.57	0.65	4.66	11.65	.18	1.39	.064	118	78	13	.2	5	1	.02	8	.005	97.51
6171 112.93 113.57 62.66 10.61 11.63 1.55 1.05 1.61 7.92 .33 0.49 .110 57 70 25 .2 10 62 .03 8 .005 9		·																		,			
6166	6165	106.94	109.95	54.52	15.97	7.33	4.37	3.06	1.10	10.25	.21	0.79	.087	118	101	33	.3	5	38	.03	9	.005	97.72
6166								_															
6167 121.56 123.15 71.25 15.32 2.01 0.22 6.52 0.73 1.69 0.6 0.34 0.032 23 24 7 0.2 15 1 0.02 2 0.011 9 1 1 1 1 1 1 1 1	6171	112.93	113.57	62.66	10.61	11.63	1.55	1.05	1.61	7.92	.33	0.49	.110	57	70	25	.2	10	62	.03	8	.005	97.98
6167 121.56 123.15 71.25 15.32 2.01 0.22 6.52 0.73 1.69 .06 0.34 .032 23 24 7 .2 15 1 .02 2 .011 9 .06 .06 .07							<u> </u>														.		
6168 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009 9	6166	116.00	119.00	69.66	15.29	2.26	2.35	0.51	9.37	4.18	.08	0.37	.085	276	71	9	.2	5	4	.02	3	.012	98.18
6168 128.60 131.60 62.17 19.58 4.63 1.43 4.93 1.07 3.51 .13 0.53 .035 5 28 13 .2 10 2 .04 3 .009 9							•					· · ·						·			r		·
	6167	121.56	123.15	71.25	15.32	2.01	0.22	6.52	0.73	1.69	.06	0.34	.032	23	24	7	.2	15	1	.02	2	.011	98.20
															.					•		·-	
6169 133.03 134.90 60.60 19.84 4.63 1.66 4.51 1.13 5.00 .13 0.55 .040 13 27 9 .2 5 1 .04 4 .010 c	6168	128.60	131.60	62.17	19.58	4.63	1.43	4.93	1.07	3.51	.13	0.53	.035	5	28	13	.2	10	2	.04	3	.009	98.07
6169 133.03 134.90 60.60 19.84 4.63 1.66 4.51 1.13 5.00 .13 0.55 .040 13 27 9 .2 5 1 .04 4 .010							-					•						,			,		
	6169	133.03	134.90	60.60	19.84	4.63	1.66	4.51	1.13	5.00	.13	0.55	.040	13	27	9	.2	5	1	.04	4	.010	98.09
										- 								· ·	<u> </u>				

			Laggad by M. J. Gray	Page No. 16
Hole No.	MTS-28	Entered by	Logged by	Page No

ZIPPY PRINT * - BRIDGEPORT, RICHMOND

LITHOGEOCHEMISTRY

MAJOR OXIDES

TRACE ELEMENTS

						MA	JOR OXID	E5						RACE E	LEMENI	3						
SAMPLE NUMBER	FROM (III)	TO (ML)	SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K₁O	Fe()	МпО	TiO;	Ba	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	ppm As	Sr%	ppm Sb	Zr%	Total
6170	135.35	137.31	61.56	18.65	3.50	1.16	7.19	0.84	4.43	0.13	0.54	.030	4	26	9	.2	5	1	.02	4	.010	98.06
	1			1	r	·		Γ	r					·		,				·	· · · · · · · · · · · · · · · · · · ·	
	<u> </u>							ļ								<u> </u>		 	<u> </u>			<u> </u>
	 _					T	I .		·					r		, .	т		r	T	· · · · · ·	
	<u> </u>									<u> </u>		÷						 	<u> </u>			<u> </u>
	т	r			1			ı	T		·						· ·		1		1	
								<u> </u>												<u> </u>		<u> </u>
	Υ	г				Γ	1	·	r	, -	r			T			1		τ			
··								<u> </u>								<u> </u>		 	<u> </u>	<u> </u>	<u></u>	<u> </u>
	1				1	,	1	,		· · ·	·			r	r	т	T				1	
	<u> </u>							<u> </u>								<u> </u>		 		<u> </u>	<u> </u>	<u> </u>
	-	T .		·		r	1				т			,		r	· · ·	 	г		т	1
]			<u> </u>	<u> </u>				<u> </u>							<u> </u>			<u></u>			<u> </u>
	· · · · · · · · · · · · · · · · · · ·	 		1		1		T	ſ	1	<u></u>	!					T		r .	1	·	T
	<u> </u>				<u> </u>	<u> </u>		<u> </u>	L											<u> </u>	<u> </u>	<u> </u>
	T	1.		1	,	· •	·	т	1	·	r			1	·	г	T	 	1	·	Т	
					<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>			<u> </u>	L						<u> </u>	<u> </u>
		· 		T	 	T	1	T	T	1	1	T -		1	T	l	T		T .	Τ		· · · · · ·
	<u> </u>	<u></u>	<u> </u>	<u> </u>		<u> </u>	L	<u> </u>			<u> </u>	<u> </u>					<u> </u>			L	<u> </u>	<u>l</u>
														- Con-						17		
lole No	M	rs-28		_	Entere	ed by		·			Log	ged by	M. J	Gray			F	Page No		17		

ZIPPY PRINT - - BRIDGEPORT RICHMOND

CORPORATION FALCONBRIDGE COPPER DRILL HOLE RECORD

X METRIC UNITS

MTS~29	GRID		FIELD COORDS	2+55S	1+00W	476.5m.	COLLAR BRNG.	N/A	COLLAR DIP -90°	SIZE N		695.25m.
PROJECT PN 304	CLAIM#		SURVEY COORDS.				DATE STARTED DATE COMPLET	Jan 24/87 TED: Feb 15/87	CONTRACTOR: CORE STORAGE:	F. Boisven Duncan	u CASING:	5.79m 1
PURPOSE Test Myra-l	Nitinat contact	(H-W horizon)	for evider	nce of vo	olcanogenic mas	sive sulphid	es.			RQD COLLAR SUF	LOG	PULSE EM SURVEY MULTISHOT SURVEY
	ACID T	ESTS				TROPARI TESTS			MUI	TISHOT DATA		
DEPTH (m)	CORRECTED ANGLE	· DEPTH(m,)	CORRECT ANGLE	ED	DEPTH(m)	AZIMUTH	DIP	DEPTH () A	ZIMUTH	C	DIP
30.48	89.5°	*365.76	90°		693.73	280.5°	88°					
60.96	90°	396.22	86-87	,0								
91.44	90°	424.70	87 ⁰									
121.92	89°	455.18	85°									
152.40	89°	485.66	84-85	0								
182.88	90°	516.14	85 ⁰									
213.36	90°	548.64	85-86	o								
243.84	88.5°	579.12	84-85	;°								
274.32	?88-90°	609.60	84°									
304.80	88.5-89.5°	670.56	84°									

	MTS-29	
OLE NO		

88°

88-89°

* 2nd Drill Hole

LOGGED BY M. J. Gray

335.28 365.76

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
0 to 5.18	CASING					
5.18 to 11.48	DACITE- RHYOLITE FLOW (POSS. ASH?)	Colour - light greenish grey. Grain Size - aphanitic-groundmass, fine +/- medium crystals. Weakly foliated, massive, flow banded. Dacite-rhyolite flow 5-15%, (1mm qtz eyes; (5%, (1mm Fp phenos.	5 (0-20) Fol'n	Tr – very weak seritization, tr. chl.	1-3% py as f.g. dissem. Locally a blebs.	
11.48 to 12.19	FLOW BOTTOM BRECCIA? OR TOP?	Colour - medium grey - white +/- green. Grain Size - fine. Massive, brecciated qtz-rich flow bottom(?) has bands of irregular microfaulted fragments strongly bleached/epidotized?		Bleached frags/bands poss. epidotized. Pervasive silicif.(?) with chl. throughout along frags.	2-5% py as dissem., patches & blebs.	Qtz-chl-ep/ bleach frag. rock.
12.19 to 16.37	ANDESITE FP PORPHYRY FLOW(?) (POSS. DYKE)	Colour - medium green. Grain Size - fine-ash, fine-medium crystals. Very weakly foliated; massive internally, flow structure at margins. Porphyritic; Fp phenocrysts 1-(2mm up to 10%, also mafic phenos 1-(2mm up to 10%. Top of flow-brecciated, poss. related to above flow bottom(?)	Fol'n 0-20 Top ctc 15 Bot.ctc 10-15	Pervasive very weak chloritized. Very weak selective epidotization of Fp crystals. also moderate epidotization in bands, also poss. Ep of rinds of frags? at top of interval.	7-5% py avg. 2-3% f.g. dissem. and str. in qtz veinlets. Note 3-5% py in first 75m of interval in breccia(?)	Top of interval is breccia (flow top or flow bottom) see above. Litho BCD #6101 13.59 - 16.87m

<u>From</u> <u>To</u>	Rock Type -	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
16.87 to 44.97	DACITE- RHYOLITE QTZ-EYE-FP CRYSTAL ASH TUFF + MINOR DACITE ANDESITE CRYSTAL ASH TUFF	Colour - light greenish grey. Grain Size - aphanitic - matrix crystal - fine-coarse. Weakly - very weakly foliated. Locally bedded/laminated Dacite-rhyolite flow (same as 5.18 - 11.48m). Up to 25% qtz eyes avg. 10%, (1-6mm, Avg. (1-2mm. Fp phenocrysts locally up to 5%, avg. 2-3% where present (1-3mm, Avg. 1mm. Crystal ash beds marked by variations in qtz eye %, presence/absence of Fp phenos, local very fine ash-laminated, also by qtz eyes size & shape. Beds vary from 0.5cm thick v.f.g. ash +/- chert ash (1%) to 3m qtz-rich crystal-ash tuff beds. Avg. >1m to 2m thick crystal tuff beds. Layering 0-10 towards end of interval(?)	Fol'n/ Layering 40-45 (0-55)	Very weak - weak pervasive seritization +/- chl.	1-8% py, average 3-5% mainly dissem., also stringers with quartz veins. Py is f.g. brassy subeuhedral.	Litho BCD #6102 30.60 - 33.60; qtz eye - rich (15%) crystal- ash bed. No clay/ser alteration of Fp phenocrysts. Litho BCD #6102 30.60 - 33.60m
44.97 to 45.11	ANDESITE- DACITE DYKE	Colour – pale green. Grain Size – fine – aphanitic. Massive bleached andesite–dacite dyke.	Top ctc 65 Bot. ctc 25	Strongly bleached with white-grey qtz veins irregular throughout.	2-3% f.g. py dissem. + mainly on frac.	
45.11 to 51.09	DACITE- RHYOLITE QTZ EYE-FP CRYSTAL TUFF (SAME AS ABOVE) + MINOR DACITE- ANDESITE CRYSTAL	Colour - light greenish grey to medium greenish grey. Grain Size - aphanitic - very fine matrix, crystals - fine-coarse. Same as above (16.87 - 44.97), mainly dacite-rhyolite crystal ash with 2-3% 4-6mm qtz eyes, 5-10% (1-3mm qtz eyes, 2% (1mm Fp. Poss. more dacitic (chl) at 48.11 - 52.84m.	Fol'n 20-10? (0-35)	Very weak pervasive seriziation +/- chl. Locally weak - very weak chl +/- ser at 48.11 - 52.80.	2-3% f.g. dissem. py throughout. Local sections have 5-10% py dissem. as blebs and medium-coarse grains ie) 46.56 - 46.86, 48.11 - 48.64, 50.77 - 51.09.	'Note 4-6mm qtz eyes are spherical.

TUFF

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
51.09 to 51.42	ANDESITE DYKE (SAME AS ABOVE 44.97 – 45.11M)	Colour - light pale green Grain Size - fine - aphanitic Massive (same as above).	Top ctc 65 Bot. ctc 80	Strongly bleached, very weak chl. Minor 5mm thick quartz veins.	2% f.g. dissem. py.	
51.09 to 88.40	RHYO- DACITE QTZ EYE-FP CRYSTAL TUFF MINOR ASH TUFF + MINOR CHERTY TUFF	Colour - light greenish grey to off white. Grain Size - fine-aphanitic matrix, fine-coarse crystals. Same as above dacite-rhyolite crystal tuffs but more rhyolitic(?) overall. 51.09 - 52.85: Greenish chloritic dacite 52.85 - 61.56: Grey/green, qtz 15%/ Fp 5-10% Dacite- rhyolite crystal tuff. 61.56 - 62.36: Grey/green crystal ash 10% qtz, (5% Fp dacite-rhyolite 62.36 - 67.70: Grey/white, Fp 15%/qtz 5-10% crystal tuff rhyodacite. 67.70 - 69.20: Grey/green crystal ash fine matrix 85% (3% Fp, 5-10% qtz.	Layers 40 (10-45)	Trace - very weak seritization. Local minor irregular 5-20mm qtz veins.	1-8% py throughout, f.g. dissem. + blebs, avg. 2-3%. Locally up to 5-8% py over up to 50cm intervals.	Note this interval dominated by Fp-qtz crystal tuff. Litho BCD #6103 54.25 - 57.25m
		69.20 - 83.30: Light grey/white Fp 5-15%, 2-5% >3mm qtz eyes, 5-10% (3mm qtz eyes. Throughout this section see interbedded crystal tuff beds 2cm-25cm thick of Fp-rich crystal tuff, rest is a qtz eye, Fp crystal tuff rhyodacite.	45 (35–65)		3% py avg.	Litho BCD #6104 80.00 - 83.00m
		83.30 - 88.40: Light - medium green/grey. Qtz <10% <3mm, Fp <<5%, <1mm crystal tuff + cherty tuff dacite + cherty exhalite.	45-55	Tr Ep.	1-2% ру.	Poss. a cherty-tuff (exhalite) crystal tuff transition between 83.30 - 88.40m. Vague beds.

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u> .	Remarks
88.40 to 100.93	CHERTY TUFF/ SILICEOUS EXHALITE + RHYO- DACITE - DACITE	Colour - light grey - light grey/green - white. Grain Size - aphanitic - fine. Very weakly foliated, overall massive section of cherty ash tuff with <5% andesite bands.		Tr - weak Ep in andesitic bands. Tr ser/chl in cherty tuff & crystal tuffs.	No visible sulphides - tr py throughout except in andesitic bands 3-8% f.g. pyrite.	*Note Fe-formation exhalative horizon (next page for description).
	CRYSTAL TUFF (AND MINOR ANDESITIC BANDS AND	88.40 - 89.54: white-light grey rhyolite Fp crystal tuff(?) and minor cherty tuff, looks disrupted approx. 35% Fp (1-2mm phenos.	Fol'n 45-60	Tr ser/chl.	No visible sulphides.	Note 1% dissem. submetallic grey-black mineral v.f.g. (Hem?).
	FE FORMATION BAND)	89.54 - 91.32: white - very light grey aphanitic-v.f.g. cherty tuff with minor bands 5% Fp phenos, 2-3% (2mm qtz eyes also 2cm andesitic(?) band at 91.00m.	Layering? 40-45 (40-70)	Same as above, also weak epidote in andesitic band.	No visible sulphides except andesitic band 3-5% dissem. f.g. py.	1-2% dissem. un-ident. min. black-grey.
		91.32 - 91.54: Light-medium green andesitic band(?); poss. dacitic with chl/sauss. of Fp - crystal	35	Weak chloritization, weak epidote locally.	5% f.g. dissem. py.	Litho BCD #6105 90.00 - 93.00m (1pc sawn).
		tuff. 91.54 - 94.88: white - light grey, tr green. Cherty rhyodacite ash tuff. Up to 10% (1mm qtz eyes locally.	45-60(?)	Tr - very weak ser.	No visible sulphides except and/chl band @ 91.84 3-5% py as blebs.	1-2% un-ident. min. (same as above.)
		Locally brecciated. 94.38 - 95.95: Very light grey rhyodacite crystal tuff - minor	45(?)	Tr ser.	No visible sulphides.	
		cherty tuff, 10-15% (2mm qtz eyes. 95.95 - 96.92: Very light grey-green cherty fine ash tuff with vague chloritic seams/bands, poss. insitu breccia up to 10% ((1mm qtz eyes.	45-50	Tr ser.	No visible sulphides.	1% dissem. grey-black *mineral(mag.or hem?) Litho BCD #6113 96.02 - 96.92m.

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u> .	Sulphides	<u>Remarks</u>
		96.92 - 97.27: Fe-formation band(?), crudely layered magnetite-quartz-chlorite assemblage/rock. 50% mag v.f.g., 30% qtz v.f.g aphanitic, 20% v.f.g. chlorite quartz is light grey, magentite and chl together as irregular shaped patches/bands.	Top ctc 55 Bottom ctc 65 Layers? 45	Weak-moderate chl throughout. Irregular calcite veinlets, indistinct frac. fillings, strong <1-2mm thick. Weak selective Ep at top ctc, local patches within band and at bottom.	1−2% dissem. f.g. py.	Litho BCD #6106 (sawed) 96.92 – 97.27m
		97.27 - 99.66: Very light grey-green, massive, v.f. ash rhyodacite - cherty tuff. Poss. a v.f. crystal tuff.	Layers 45-65	Tr ser/chi.	No visible sulphides.	
		99.66 - 100.93: Light-medium green-grey dacite - rhyolite fine crystal tuff, 10-15% ((1mm qtz eyes.	65 (55-65)	Tr ser/chl.	No visible sulphides.	
100.93 to 108.75	DIORITE FP PORPHYRY AND V.F.G. DIORITE	Colour - dark green - medium green. Grain Size - v.f.g. & fine groundmass, medium-coarse pheno. Massive v.f.g. diorite and Fp porphyry diorite (dykes?)	Top ctc 80	Very weak - moderate chi, locally bleached, trace Ep as veins.	Tr py f.g. dissem. throughout.	
		100.93 - 103.23: Fe porphyry diorite medium green, note chilled contact with flow structure in 10cm margin. Fp phenos 8% 1-3mm sub-hedral mafic phenos? 10% (1-1mm (chl)		Bleached weakly throughout, weak chl?, weak 2-8mm calcite veins. Tr qtz +/- Ep 8mm veins.	Tr py.	Litho BCD #6107 100.93 - 103.15m
		name 106.28: V.f.g. diorite pseudo-breccia due to calcite veins. 5-7% (.5mm leucoxene grains. Dark green-black.		Strong calcite irregular 1-2mm veins cause insitu- pseudo breccia texture, weak chl pervasive.	Tr dissem. f.g. py.	3
		106.28 - 107.42: Fp porphyry diorite dyke(?) Very sharp contact 10% 1-3mm Fp subhedral phenos very similar to above. Groundmass - f.g., medium-dark green.	Top ctc 45 Bot.ctc ?grada.	Very weak chi pervasive.	Тг ру.	2–5% dissem. hem?
		107.42 - 108.75: V.f.g. diorite pseudo breccia similar to 103.23 - 106.28.		Weak chl.	Тт ру.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
108.75 to 110.06	QUARTZ VEIN	Colour - milky white. Grain Size - fine. Massive, milky white quartz vein. Fragments of f.g. diorite within vein.	Top ctc 40-55 Bot. ctc 45-50	Qtz, minor calc. on frac.	No visible sulphides.	1% grey unident min. assoc. with chl.
110.06 to 137.65	DIORITE; (INCLUDES FP PORPHYR, V.F.G. DIORITE, FOLIATED DIORITE, M-C GRAINED	Colour - medium-dark green. Grain Size - v.f.g coarse. Massive, locally foliated(?) minor pseudo-breccia of v.f.g. diorite, range medium-coarse grained equigranular to Fp porphyry to v.f.g. diorite. 110.06 - 112.87: Dark green, fine-medium grained equigranular. Weakly foliated.	Fol'n 30?	Tr - weak chl, local dissem. Calcite irregular veinlets conc. in v.f.g. (Pseudobreccia) calc-flood. Calcite throughout, parallel to foliation.	Tr - 2% throughout py dissem. Tr py.	Leucoxene conspicuous in v.f.g. diorite. Local grains of mag, and hem. 1-3% dissem. hem(?).
	DIORITE)	112.87 - 116.10: Dark green, f.g., weakly foliated, subporphyritic Fp. 116.10 - 118.81: Dark-medium green Fp porphyry (weakly), groundmass - f.g.		Local pseudo breccia, calcite throughout. Weak chl, local Ep veins. Calc. pseudo breccia locally.	Tr py. Tr py.	5% grains/ patches hem <1-2mm.
		groundmass - 7.9. 118.81 - 123.87: Black-dark green, foliated, streaky texture. (Sheared?) medium grained equigranular.	Fol'n 30?	Calc. parallel to foliation as Rods? very weak - weak chl.	Tr - 2% py.	Litho BCD #6108 118.81 - 121.81m Poss. 2% dissem. hem(?)
		123.87 - 125.51: Dark green, f.g. diorite, local pseudo breccia.		Calc. parallel to foliation, strong-intense fills frac. of breccia. Weak chl.	Tr - 1% py.	Insitu-breccia due to calcite veins.
		125.51 - 127.65: Medium-dark green, medium grained - Fp porphyry diorite.		Weak chi pervasive.	Tr py.	
		127.65 - 132.03: V.f.g. diorite, local Fp phenocrysts. Pseudo breccia.		Weakly pervasive.	Tr - 1% py.	2% dissem. hem?
		132.03 - 134.10: Medium-dark green, medium grained weakly Fp porphyry.		Very weak ch1.	Tr. py.	2-3% dissem. Magnetite.
		134.10 - 137.65: V.f.g. dark green diorite, pseudo breccia.		Very weak chl. Calc irregular veins throughout.	Tr.py.	Poss. medium grained sheared diorite.

<u>From</u> <u>To</u>	Rock Type	<u>Texture and Structure</u>	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
137.65 to 139.74	QUARTZ VEIN	Colour - milky white - grey. Grain Size - fine. Massive f.g. milky white to grey qtz vein. Frags and bands of diorite locally throughout.	Top ctc 45 Bot. ctc 35-40	Qtz vein with tr - weak chl +/- ser, calc on fractures as narrow stringers.	No visible sulphides.	
139.74 to 151.34	DIORITE (SAME AS ABOVE)	Colour - medium-dark green. Grain Size - v.f.g. 139.74 - 141.39: V.f.g. diorite, pseudo breccia, some Fp phenocrysts. 141.39 - 142.34: Medium grained weakly Fp porphyry diorite. 142.34 - 146.70: V.f.g. dark green, pseudo breccia. 146.70 - 148.04: Medium-coarse grained diorite to FP porphyry, sub-anhedral Fp. 148.04 - 151.34: Dark green - black, weak - moderately foliated?/	Fol'n 15 (0-20)	Very weak - weak calcite pervasive. Pseudo breccia, calcite veins strong. Calcite veins throughout, very weak chl pervasive. Calcite strong-intense insitu breccia, very weak chl. Weak insitu breccia healed by irregular calcite. Weak selective epidotization of feldspars. Strong - intense calcite veins parallel to foliation shear, weak chl.	Trace - py Tr py. Tr. py. Tr - no visible sulphides. 1% dissem. py.	1-2mm 5% magnetite grains. 1-2mm 3-5% magnetite. 1-4mm 5-8% magnetite. 1-4mm 5-8% magnetite. 1-3% Magnetite, 1-2mm.
151.34 to 152.49	QTZ VEIN (SIMILAR TO PREVIOUS)	sheared, calcite parallel to foliation boudined-out. Colour - milky white - grey. Grain Size - fine. Massive qtz vein with fragments of	Top ctc 30 Bot. ctc	Qtz vein, minor calc. on fract., 2-5% chl seams discon.	Tr py, Tr cpy at bottom ctc.	Poss. only sheared near atz veins.
		diorite included.	30			

<u>From</u> <u>Ţo</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
152.49 to 302.61	DIORITE (SIMILAR TO	Colour - medium-dark green. Grain Size - fine - coarse.				
	PREVIOUS INVERVAL)	152.49 - 153.06: Foliated medium grained diorite.	Fol'n 25	Calcite veins as above, very weak chl.	Tr py.	1-3% Mag. dissem. grains.
		153.06 - 155.34: Fine grained? diorite with pseudo breccia throughout. Note mag. dissem. throughout.		Calcite veins heal insitu breccia. Weak pervasive chl.	Тгру.	5-10% dissem. magnetite, 1-4mm grains.
		155.34 - 157.58: Fine-medium grained dark green + white diorite with weak foliation? Note calc. throughout boudined veins(?)	Fol'n 20	Calcite as foliation veins. Poss. sheared out. Very weak chl.	Тт ру.	3% dissem. hem? Litho BCD #6109 153.06 - 156.06m
		157.58 - 159.23: Dark green v.f.g. pseudo breccia diorite.	Top ctc Grada. 80?	Calcite strong - intense heals insitu breccia, very weak chl.	Тт ру.	1-2% mag. throughout, 1-2mm.
		159.23 - 161.29: Medium-dark, medium-coarse grained diorite; equigranular, 50% Fp, 35% mafics, 10% mag.		Tr chl, tr calcite veins.	Тгру.	10% dissem. m.g. magnetite.
		161.29 - 161.59: V.f.g. massive diorite? dyke, very dark green.	Topictic 20	Calcite veinlets weak, weak chi pervasive.	Tr - 1% py.	
		161.59 - 162.25: Medium grained, foliated, diorite, weak breccia. 162.25 - 162.55: Diorite?, v.f.g. dyke same as above.	Bot.ctc 10 Top ctc 25	Calcite veins moderate- strong, heal local breccia.	Tr py.	5% dissem. mag. 1-2mm.
		162.55 - 164.63: Dark green, f.g. diorite pseudo breccia healed by calcite.	Bot. 10	Calcite heals insitu breccia, very weak chl. Also 40cm massive qtz vein.	No visible sulphides - tr py.	1-2% dissem. magnetite.
		164.63 - 166.51: Dark green + white diorite, medium-coarse grained 50% Fp, 10% Mag, 10% Hb?		Tr chì, Tr calc (frac).	Tr.py.	5-10% dissem. * mag. 1-2mm grains.
		166.51 - 168.77: F.g. +/- m.g. diorite - pseudo breccia, dark green - black.		Strong calcite irregular, calcite veinlets heal insitu breccia. Tr – weak chl.	Tr py 1%.	5% dissem. magnetite.

Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
	168.77 - 171.40: Medium-coarse grained dark green + pale green diorite, with pseudo trachytoidal or skeletal texture (.5 X 2-3mm acicular mag. grains crudely alligned), 50% Fp, 15% mag., 35% Hb?	Trac approx. 90	Nil	Тгру.	. 10-15% acic. medium grained grains throughout. BCD #6115 Litho 168.87 - 171.40 +Pt, P1, P205
	171.40 - 172.10: Dark green f.g. diorite, pseudo breccia. (5% Fp phenocrysts(?)		Calc heals insitu breccia. Very weak chl.	Tr py.	Note no leucoxene.
	172.10 - 179.83: Dark green & white medium grained diorite. Foliated or sheared?, varies intensity. Note dissem. calcite.	Fol'n? O	Dissem. or boudined calcite throughout, tr chl. Note calcite vein - breccia 5-30cm thick healed by qtz	Тг ру.	Tr magnetite. Note streaky texture in CS of core.
	179.83 - 182.27: F.g. weakly foliated, dark green diorite.	Fol'n? 0-15	Calcite veins parallel to foliation, similar to above. Minor 1-5cm qtz-calcite veins.	Тт ру.	2% leucoxene, Tr mag?
	182.27 - 185.87: V.f f.g., dark green to black diorite, pseudo breccia.	Fo1'n 30	Calcite veins heal insitu breccia, generally parallel to core axis.	Тгру.	Contorted looking section up to 5% dissem. medium grained throughout 1-2mm grains.
	185.87 - 187.75: Dark green + whitish look, fine-medium grained, weakly foliated, equigranular. 187.75 - 188.15: Same as above though dark green, no white Fp	Fo1'n 25	Very weak chl., calcite parallel to foliation, dissem? Same as above + very weak epidote, selective.	Tr py - no visible sulphides. Tr py.	Tr Mag? Hammered with dissem. calcite alt'n. Litho BCD #6110 185.87 - 188.15m
	crystals stand out, not as foliated. 188.15 - 194.63: Dark green - black, fine grained diorite pseudo breccia weakly foliated.	Fol'n 15 (0-30)	Calcite heals insitu breccia, weak chl.	No visible sulphides – tr py.	As above. 1-5% dissem. Mag (1mm grains.
	194.63 - 196.26: Dark - medium green, fine-medium grained diorite with streaky texture on end of	Fol'n? 35?	Calcite in foliation, boudined?	Tr – 1% py dissem.	Tr Mag.
	core. Locally brecciated. 196.26 - 200.15: Dark green - black, fine grained diorite - pseudo breccia, weak-moderately foliated.		Calcite heals insitu breccia strong. Very weak - weak chl.	Тг ру.	1-5% Magnetite (1mm grains.
	200.15 - 200.31: Medium-light green, very fine grained dyke - diorite? Note narrow chilled margin.	Top ctc 40–45 Bot. ctc 30	Weakly bleached, weak chl.	No visible sulphides.	Nil Magnetite.

<u>rom</u> <u>Fo</u>	<u>Rock Type</u>	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
		200.31 - 205.65: Medium-dark green & white. Medium, locally coarse grained equigranular diorite. 50% Fp, 10% Mag, 40% Mafics. Fp Lath shaped mainly, also tabular pandiomorphic.		Tr ch1/ep. Tr calcite veins.	Тт ру.	8-15% dissem. Magnetite 1-3mm grains avg. 8%. Poss. felsic dyke?/qtz vein 15cm @ 203.45. Assay BCD #6301 (Pt + P1) 202.00 - 204.00m
		205.65 - 208.86: Medium-coarse grained medium-dark green diorite. Similar to above, though weakly porphyritic and locally pseudo breccia. Hypidiomorphic.	Calcite 0-10	Very weak chl, tr ep. Locally strong calcite veins as gashes(?) heal breccia.	Тт ру.	Note Leucoxene grains 5%, 1-3% dissem. magnetite
		208.86 - 212.15: Medium-dark green, medium grained wealy Fp porphyritic, hypidiomorphic.		Very weak chl/ep. Tr – weak calcite.	Tr py.	Up to 5% dissem. 1–2mm Magnetite grains.
		212.15 - 216.71: Medium-dark green, fine-medium grained pseudo breccia, sheared?	Fol'n 30	Very weak chl/ep, weak Ep veins, calcite veinlets irregular, strong, heal insitu breccia.	Тг ру.	1-2% (1mm Magnetite grains.
		216.71 - 218.70: Medium-dark green weakly Fp porphyritic, fine-medium groundmass.		Moderate calcite discont. gashes, very weak chl, tr Ep veins and patches.	Tr py.	1-2% 1mm Magnetite grains.

rom To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u> .	<u>Sulphides</u>	<u>Remarks</u>
		218.70 - 223.97: Medium grained +/- coarse grained medium green and white diorite. 50% Fp, 5% Mag, 45% mafics.		Weak calcite veins throughout. Tr chl +/- Ep.	Tr py.	Approx. 5% 1-2mm magnetite grains.
		223.97 - 229.18: Medium green to grey sheared(?) diorite, has slight streaky look, locally pseudo breccia.	45	Weak - strong calcite veins parallel to foliation, one calcite/qtz vein-breccia. Tr chl.	Тг ру.	1-2% magnetite(?) 5% leucoxene.
		229.18 - 229.67: Dark green, very fine grained, diorite pseudo breccia.		Strong calcite veins heal insitu breccia. Very weak chl.	Tr py.	Tr - 1% magnetite.
		229.67 - 231.40: Medium green Fp (8%) porphyry, fine grained - groundmass. Fp 1-3mm.		Moderate calcite veins throughout, very weak - weak chl.	Tr py - no visible sulphides.	2-5% dissem. magnetite 1mm grains.
		231.40 - 244.73: Dark green + white, medium-coarse grained equigranular weak porphyritic diorite with local Fp porphyritic diorite.		Very weak calcite +/- Ep +/- chl veinlets (1-3mm. Very weak chl pervasive.	Тг ру.	2–5% dissem. 1–2mm magnetite grains.
		244.73 - 245.48: Medium-dark green, fine-medium grained, locally Fp porphyry.		Weak calcite veins.	Tr py.	Tr magnetite although 2-3% magnetite looking grains.

rom To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
		245.48 - 249.50: Dark green + white, medium grained - coarse grained, equigranular subporphyritic diorite.		Tr – weak calcite veins, tr	Тг ру.	2-5% dissem. grains magnetite.
		249.50 - 254.76: Dark green + white, medium grained, equigranular to Fp porphyritic/groundmass - fine, varies. + fine grained diorite sections.		Tr - weak calcite +/- Ep +/- chl, Tr - very weak chl.	Тгру.	3-5% magnetite grains 1-2mm. 5% leucoxene in fine grained diorite.
		254.76 - 256.00: Dark green fine grained diorite - pseudo breccia, streaky foliation?	Fol'n 25	Strong calcite veins irregular heal insitu breccia. Weak - moderate chl. Weak - moderate Otz-calcite 5mm veins.	No visible sulphides – tr py.	Tr magnetite? Note Hem/Jasper frag in qtz vein.
		256.00 - 258.55: Medium green, Fp porphyry 5%, very fine grained - groundmass diorite.		Weak calcite veins. Very weak chl.	Tr py.	1-3% dissem. magnetite.
		258.55 - 262.19: Medium - dark green + white, Fp sub porphyritic, medium-coarse grained diorite.		Very weak chl. Weak selective epidotization of 25% of Fp. Weak calcite veins throughout.	Tr py. – no visible sulphides.	1-5% dissem. magnetite.
		262.19 - 263.76: Intensely sheared fine-medium grained diorite. Fp & leucoxene drawn-out parallel to foliation mafics sheared. Medium-dark green/grey.	Fo1'n 20-25 Top ctc 90	Calcite parallel to foliation throughout, weak - moderate chl.	No visible sulphides.	1-2% leucoxene grains. Tr magnetite. Litho BCD #6111 (1 pc sawn) 262.24 - 263.66m
		263.76 - 265.53: Dark-medium green, fine grained diorite pseudo breccia.	Fol'n 40?	Moderate - strong calcite +/- qtz veins heal insitu breccia. Moderate chl +/- Ep. Qtz veins massive irregular up to 5cm.	Тг ру.	Tr Magnetite, 2-3% leucoxene throughout.
		265.53 - 265.83: Dark green and beige cast, medium grained diorite equigranular.		Calcite dissem? pervasive + moderate veins, very weak chl.	Tr py.	Tr Magnetite(?)
		265.83 - 280.57: Massive dark green + white medium-coarse grained, weakly porphyritic equigranular. Fp 50%, 5% Mag, 45% mafics.		Tr chi throughout, tr Ep selective on FP. Weak calcite +/- Fp +/- chi veins throughout.	Тт ру.	1-5% dissem. magnetite.
		280.57 - 280.97: Dark green - black, fine-medium grained, sheared? diorite with calcite parallal to foliation.	Fol'n 45-60	Calcite in foliation also qtz-calcite vein irregular 1-3cm. Very weak chl.	Тгру.	Tr - 2% magnetite. 5% leucoxene.

Rock Type	Texture and Structure .	Angle to Core Axis	Alteration	Sulphides	Remarks
	280.97 - 281.51: Medium green & white, medium grained, weakly porphyritic diorite.		Tr chl/ep, very weak calcite veins.	Tr py.	1-3% magnetite.
	281.51 - 283.94: Dark green - black, fine grained, equigranular diorite with breccia - vein section 20% diorite frags 80% calcite vein massive irregular.		Calcite vein - breccia 281.89 - 282.49, Weak calcite veins throughout, very weak chl.	Tr py.	Tr magnetite.
	283.94 - 286.47: Dark green - black + white, medium grained, weakly porphyritic diorite with minor fine grained patches.		Local weak - moderate calcite veins. Tr chl.	Tr py.	<pre>1-3% medium grained(?) fine grained.</pre>
	286.47 - 287.84: Dark green - black, fine grained diorite.		1–2cm weak calcite +/- qtz veins + brecciation at	No visible sulphides.	Tr magnetite.
	287.84 - 288.34: Dark green - black + white feldspar porphyritic diorite		vein margins. Tr chl. Tr calcite, tr chl.	Tr py.	1-3% dissem. magnetite.
	(10% Fp)2mm). 288.34 - 288.95: Dark green - black, fine grained diorite.	Top ctc 45?	Tr chl. Weak - moderate calcite veins with brecciation at margins.	No visible sulphides.	5% leucoxene, tr. magnetite.
	288.95 - 296.75: Dark green + white, feldspar porphyritic diorite, 10% Fp, 2:3mm phenos, fine - groundmass.		Tr chl, weak (1 mm calcite veinlets. Tr - weak Ep +/- calcite veins.	Tr py locally.	Tr magnetite.
	296.75 - 297.25: Dark green - black, fine grained diorite.	Topicto 45?	Tr chl, moderate Ep in vein, weak-moderate	Tr py.	Tr magnetite.
	297.25 - 302.61: Dark green - medium green, feldspar porphyritic diorite (same as above).	Bot. ctc 80	calcite veins. Tr – very weak chl, weakly bleached last 2m.	Tr py.	Tr magnetite.5cm chilled margin, non porphyritic.

From To

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
302.61 to 322.80	DACITE FINE ASH TUFF TO ULTRAFINE TUFF.	Colour - medium - light green-grey Grain Size - aphanitic-fine Massive looking, very weak - weakly foliated dacite ash tuff to dacite-andesite. Fine to ultrafine grained, locally with qtz eyes 1-4mm, And Fp phenos <2mm. Layering vague, only locally get good C/A on layering.	Top ctc 80	Locally silicified, Tr - moderate sericite, tr - moderate chl.	Tr - 15% py, fine-grained - coarse-grained avg. 3-5% dissem., locally stringer type py up to 15% over 40cm sections.	"Stringer" type pyrite associated with quartz.
		302.61 - 302.88: Light to medium grey fine dacite ash. Poorly-crudely layered. Locally brecciated.	Top ctc 80 Layering 70-80	Tr chl/ser. Silicified?	Tr dissem. fine grained py.	
		302.88 - 304.95: Light green - grey (mottled), fine grained dacite ash. Silicified(?). Poss. 5% (1mm qtz eyes.	70 50	Silicified, tr ser/chl.	Tr py - 1%.	Note: 2-3% green (Ni?) mica. Note: 1-2% dissem. black oxide. Litho BCD #6112 303.15 - 304.95m.
		304.95 - 309.65: Medium-dark green/grey, fine dacite-andesite tuff. Massive. Approx. 15% (<1mm Fp.		Weak chl/ser alteration, pervasive. Poss. weakly silicified at beginning of interval.	1-3% dissem. fine grained py, tr. coarse grained. 304.95 - 309.69 1-3% py 308.69 - 309.65 3% py.	000110 00 11301111
		309.65 - 310.05: White qtz-calcite + chl vein.	Top ? Bot 25	Qtz + calcite + chl vein.	1% dissem. py.	Dark green chl.
		310.05 - 312.43: Medium green-grey fine ash - Dacite with insitu breccia texture throughout. Localy note 5-10% 1-2mm qtz eyes over 10cm. Homogeneous, no indication of layering.	Fol'n 45	Very weak - weak ser +/- chl. Weak white 4-8mm qtz veinlets.	2-3% dissem. fine grained py throughout, local 20cm of 3-5% py dissem. blebs.	

To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
		312.43 - 312.63: Shear - fault in dacite ash (same as above) somewhat milled. Medium-light grey very little movement suspected.	Top 85 Bot. 80	Tr clay, moderate ser. no gouge.	3-5% dissem.py.	
		312.63 - 313.37: Same as above. Fine dacite ash medium green/grey.		Weak ser +/- chl.	3-5% py dissem, avg. 3%.	
		313.37 - 317.04: Medium grey-green fine - very fine dacite ash. Locally slight insitu breccia. Py is drawn out slightly parallel to foliation.	Foi'n 20 (5-35)	Very weak - weak ser +/- chl, locally mod. over 20cm. Grey-white qtz veins irregular parallel to foliation generally 3-15mm thick, weak.	3-15% py dissem. grains and patches/blebs/str. 313.37-314.44: 5-3% py 314.44-315.50: 10-15% stringer style dissem. py blebs. 315.50-316.05 3-5% dissem. py. 316.05-316.53 8% dissem/str. py. 316.53-317.04 5-7% dissem. py.	
		317.04 - 319.98: Medium-light green/grey fine dacite ash. Homogeneous more felsic than previous sections.	Fol'n 10 (5-20)	Very weak ser/chl.	3-5% dissem. py f.g.	Tr green mica, tr qtz eyes(?)
		319.98 - 321.28: Medium-dark green & light green/grey (matrix), fine grained dacite - andesite(?) ash tuff. Insitu breccia poss. silicified? Frag elongate bands 10-20cm X 1-2cm?		Silicified(?) poss. green grey silica in matrix. Tr - very weak ser/chl.	2-5% dissem.py. Fine grains & blebs.	Looks like a flow top breccia.
		321.28 - 322.80: Light grey, slightly green dacite, fine ash tuff, poss. 2-5% (1mm qtz eyes, also (1mm Fp. Weak insitu breccia as top of interval.	Fol'n 10 (5-20) Layering? 45	Very weak - weak ser. Tr	3-5% (avg.) 3% py dissem. f.g.	Litho BCD #6122 -319.78 - 322.05m

From To	Rock Type	<u>Texture and Structure</u>	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
322.80 to 329.35	RHYODACITE QTZ EYE CRYSTAL TUFF	Colour - light grey - white. Grain Size - very fine - matrix, fine - coarse crystals. Light grey - white Dacite-rhyolite qtz eye crystal tuff. 5-10% qtz eyes 1mm-5mm avg. 2-3mm. Oval-round shape.	Fol'n 0-30	Very weak ser, chl locally as seams. Patchy Ep + chl with qtz vein, Ep up to 3-4cm long veins. 328.95-329.35: Qtz+Ep+Chl +/- Fp vein, 5-8% py. Also tr magnetite.	5-8% py, 5% avg. dissem. throughout, conc. in chl seams.	Note Fp(?) 1mm in qtz veins.
329.35 to 330.62	RHYODACITE ULTRAFINE TUFF	Colour - very light - light grey Grain Size - very fine Finely/delicately laminated rhyodacite ultrafine ash tuff. Weak - very weakly foliated. Minor fault @ 329.55/Gouge.	30-35 Layering	Tr - weak ser. Tr chl with py. Tr irregular quartz veins 3-5mm +/- chl +/- py.	5% py fine grained - medium grained throughout as dissem. & patches.	No quartz eyes.
330.62 to 333.90	DACITE TO RHYODACITE FINE ASH WITH INTER- LAYERED ULTRAFINE TUFF.	Weak - moderately foliated dacite-	Layering 40 Folin 20?	Tr ser, tr chl.	1-5% dissem. py, fine grained, also dissem as str. 330.62-331.67 4-3% py 331.67-333.90 1-2% py	Poss. cherty component in this interval.
333.90 to 365.67	DACITE- ANDESITE FINE ASH AND MINOR CRYSTAL ASH TUFF	Colour - medium - light green +/- grey +/- dark green Grain Size - fine - very fine Weak - moderately foliated dacite- andesite ash crystal tuff. Homogeneous overall, locally good layering. Tr qtz eyes locally.	Layering 50-55	Variable tr - moderate chl +/- ser.	1-10% py avg. 2-3% dissem., up to 10% in str. over 10cm.	Ashes similar to "Mine Package" dacites of MTS-26 (chl altered).
		333.90 - 339.72: Medium +/- dark green to grey, fine dacite-andesite ash tuff. Homogeneous, local layering.	50-55	Weak & weak-moderate chl +/- ser. Locally quartz veins 1-2cm + chl selvages.	1-3% fine grained dissem. py.	Litho BCD #6114 336.50 - 339.50m.

<u>m</u> <u>D</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	Sulphides	Remarks
		339.72 - 340.20: Light-medium green-grey (sheared?) ash. Fine	Fo1'n 60	Weak ser, weak chi pervasive.	3-5% dissem. fine grained py + 1mm blebs.	
		grained dacite. 340.20 - 343.51: Medium green-grey dacite ash - fine crystal ash tuff. 5% mafic grains, 20% Fp crystals, remainder fine ash.	Fol'n	Weak ser/chl pervasive. Locally moderate. Minor 2-4mm thick qtz veins.	2-5% dissem. fine grained py, avg. 3% throughout. Locally 5% dissem. associated with gtz veinlets.	BCD #6116 Litho 343.04 - 346.20m
		343.51 - 346.19: Medium-dark green-grey fine dacite-andesite ash tuff, very homogeneous.	Folin 25-45 Layering 45	Weak & weak-moderate ch1 +/- ser.	qtz vernets. 2-8% fine-medium grained py, avg. 3-5% dissem. py, locally 5-8% in dissem. (poss. str.). 343.51-343.79 8% py 345.76-345.85 8% py	Note py + 5% leucoxene grains conspric. drawnout along the foliation.
		346.19 - 346.56: Dark green + medium green-grey, andesite-dacite ash + interlayered siliceous ash (cherty tuff) note folded cherty	Layering 45-50	Weak chl, str. chl associated with white quartz vein (irregular lcm).	3-5% dissem. py.	
		tuff 8mm layers. 346.56 - 347.70: Light-medium green-grey fine ash - coarse dacite. Homogeneous.	Fol'n 30-60	Weak ser, pervasive.		5% dissem. (1 mm leucoxene.
		347.70 - 361.50: Dark-medium green + grey fine grained locally coraser grained dacite-andesite + andesite-dacite fine ash.	Fol'n 15 (10-35)	Variable very weak - moderate chl +/- ser, mainly weak - moderate. Note 356.80-359.25 moderate chl/ser.	1-5% py dissem., locally 3-5% over 1-2m, avg. 2% py.	3-5% leucoxene throughout. Note local black chi bands parallel to foliation. * Litho BCD #6117 356.65 - 359.25m
		361.50 - 365.32: Very similar to above, though more chlortic/andesitic. Andesite-dacite overall.	Fo1'n 10-20	Weak ch1 +/- ser pervasive.	1-8% py avg. 1-2% py as dissem. except 363.55-364.55 3-5% dissem + 1-2mm str. py (Dissem. along plane).	More dacitic toward last 50cm of interval.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
365.32 to 365.67	DIORITE DYKE	Colour - medium green. Grain Size - fine. Massive, equigranular melanocratic.	Top ctc 60 Bot.ctc 80-75	Tr - very weak chl. Crosscut by irregular 2cm qtz-calcite vein with black chl selvage.	3% fine grained dissem. py throughout.	Relatively sharp contact. No chilled margin.
365.67 to 382.51	DACITE- DACITE/ ANDESITE FELSIC ASH TUFF + ULTRAFINE	Colour - light green/grey to medium green/grey. Grain Size - fine - very fine. Massive, weak - moderately foliated, ultrafine sections layered.		Weak ser/chl, locally moderate.	1-5% dissem. + str. py.	Note green-bright mica locally dissem, near top of interval.
	TUFF	365.67 - 373.98: Light-medium green/grey. Fine dacite +/- andesite.	Fo]'n 10-15	Very weak - weak ser/chl. Some qtz + chl+ py veins 10cm thick C/A 45.	Variable 1-5% py, Avg. 3% dissem. locally, note qtz-py-chl vein with 15-20% py over 10cm @ 369.92-370.01m.	Note local streaky chl clots/frags. BCD #6118 Litho 369.92 - 370.01m. BCD #6119 Litho 371.98 - 373.98m
		373.98 - 382.51: Medium-dark-light green fine-ultrafine dacite-andesite ash. Note layering with contorted slumps? Note 373.98 - 378.00 more andesitic, vs. 378.00 - 382.51 which is dacitic & grades to qtz eye crystal tuff.	Layering 60 (35-90) 50 Fol'n (15-45)	Variable weak & weak-moderate chl +/- seritization, pervasive.	1-8% py, avg. 2-3% fine grained dissem. py. Locally 3-8% as medium grained str. (dissem.) 2-5mm thick, range C/A 60 & 15. 380.39-382.51: 3-8% py dissem. + 2-5mm str.	Note local load cast type structures. Note light grey bed of very fine pyritic ash (5-10% py) poss. exhalite? Note qtz eyes start at 381.15. Litho BCD #6120 ,378.00 - 381.15m
382.51 to 389.53	RHYODACITE QTZ EYE CRYSTAL TUFF (POSS. FLOW?)	Colour - varies medium-light green to light grey with green hue. Grain Size - very fine - matrix, crystals (1-6mm). Massive, weak-moderately foliated qtz eye crystal tuff - rhyodacite 5-8% 1:6mm (avg. 3mm) qtz eyes round - oval medium grey. Matrix very fine ash.	Fol ¹ n 45 to 5 (10)	Very weak ser locally weak, pervasive. Tr chl at upper portion of interval.	1-2% fine grained py dissem. throughout. Locally 5-8% py over narrow sections. ie) 385.55 - 385.70 fine grained dissem. str?	Gradational to above fine ashes. Litho BCD #6121 385.00 - 388.00 Note: Hole to be continued approx. 2m away.

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
OVERLAP 377.34 to 389.53						
377.34 to 383.29	DACITE - DACITE/ ANDESITE FINE CRYSTAL	Colour - medium-light green & light grey. Grain Size - fine - very fine. Massive, weakly foliated, relatively homogeneous.	Fol'n 0-15	Very weak - weak seritization +/- chl pervasive., avg. weak.	3-5% py, avg. close to 5% dissem. + str.	
	ASH TUFF + ULTRAFINE TUFF	377.34 - 382.18: medium-light green-grey, fine ash, dacite with 2-10% (1mm qtz eyes.	Fol'n 0-15 py 20-30 + 80	<pre>lmm chl selvages in py-chl +/- qtz stringers. Trace 2mm qtz + calc veinlets.</pre>	Py 3-5%, 5% avg. as v.f.g. dissem. also as 2-3mm distinct stringers with chl envelopes.	2-3% dissem. leucoxene grains.
		382.18 - 383.29: interlayered light grey fine & ultrafine dacite ash. Ultrafine ash locally well laminated.	Layering 30-40	Very weak ser., locally weak - moderate in ultra-fine ash.	V.f.g. dissem. py, minor 1mm discon. str.	Poss. ultrafine pyritic ash correlates with original section.
		Note ultrafine 2cm band with 5-10% dissem. py @ 382.60. Locally brecciated with gouge matrix.		Chl weak-moderate as veinlets/seams 1-3mm.		
383.29 to 384.42	FAULT- QTZ BRECCIA	Colour - light green-grey-white Grain Size - fine - matrix, (1-3cm frags. Gouge and qtz vein zone. Clay-ser-chl matrix, qtz and ash frags.	Fault 10 (Int) Top ? Bot approx. 10	Infilled by white f.g. qtz vein, brecciated. Moderate-strong ser, weak-moderate chl locally. Locally clay gouge.	5% f.g. dissem. py, local str. in breccia frags.	

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u> .	<u>Sulphides</u>	Remarks
384.42 to 397.06	QTZ-EYE CRYSTAL TUFF RHYO - DACITE (POSS. FLOW?), WITH MINOR FINE DACITE ASH	Colour - varies medium-light green to light grey with green hue. Grain Size - very fine - matrix, crystals 1-8mm. Massive, weak-moderately foliated. Qtz eye crystal tuff - rhyodacite 5-10% (avg. 5%) qtz eyes 1-8mm (avg. 2-3mm), round - oval light-medium grey. Matrix - v.f. ash. Locally note v.f.g. dacite ash at 387.97 - 389.70m and (?) 387.09 - 387.25m.	Fol'n 15-30	Variably very weak - moderate sericitization +/- chl. 384.42 - 386.49 weak- moderate 386.49 - 387.38 very weak 387.38 - 387.63 moderate chl 387.63 - 388.55 very weak - weak sericite 388.55 - 389.23 weak - moderate chl 389.23 - 397.06 very weak - weak sericite.	2-8% py fine-medium grained, avg. 2-3% f.g. dissem. throughout. Locally note str. @ 391.45 - 391.75 8% str. 392.46 - 393.38 3-5% dissem., str. 394.24 - 394.29 5% str. py. Str. generally parallel to foliation.	Note calc alteration associated with stringers of py.
397.06 to 413.59	ANDESITE + ANDESITE- DACITE FINE ASH TUFF +/- ULTRAFINE TUFF. MINOR LAPILLI	Colour - medium - dark grey-green minor light grey bands. Grain Size - fine - very fine grained. Weak - moderately foliated, fine andesite/andesite-dacite ash tuff, massive, - moderately laminated locally.	Fol'n 25-50	Pervasive weak chl/ser. Locally weak-moderate & moderate ch. Also locally very weak sericitization.	1-5% dissem. py, locally bands and str. present.	This section similar to 365.61 - 384.42m
	FRAGS NOTED.	397.06 - 400.00: dark grey - green, fine massive andesite +/- dacite tuff. Note light-medium dull green patches of tuff with white crystals drawn out along the foliation.	Folin 30 Layering 20(?)	Variable pervasive weak ser and weak - moderate chl. 397.06 - 398.45: weak - chl/ser. 398.45 - 400.00: moderate chloritization	Py f.g. dissem. 1-2% throughout, locally 399.37 - 400.00 3-5% py dissem. along bands.	BCD Litho 6123 397.50 - 400.00
		400.00 - 408.89: similar to above. Andesite + andesite-dacite. Locally has up to 5% lapilli size 2-12mm fragments in fine ash matrix. Locally layered. Dark-medium-light grey with green.	Layering 50-60 Fol'n 30	Moderate-strong chi pervasive, +/- ser. 400.00 - 402.25: mod. chi. 02.25 - 403.05: mod strong chi/ser. 403.05 - 408.89: weak ser/chi	Py f.g. locally c.g. dissem. str. or bands. Avg. 1-3% py throughout. Locally stringer dissem. at 400.95 - 401.05 20% py, c.g. Also sections 3-5% py. 404.12 - 405.25, 408.34 - 408.89. Also str. @ 405.64 (10% py).	Note section 407.82 - 408.22 has cloudy white vague lapilli (2-6mm) approx. 10%.

MTS-29 Page 21

<u>From</u> <u>To</u>	Rock Type	<u>Texture and Structure</u>	<u>Angle to</u> <u>Core Axis</u>	<u>Alteration</u>	<u>Sulphides</u>	. Remarks
		408.89 - 411.10: light-medium gren/green, f.g. andesite-dacite/dacite-andesite with cherty tuff bands. Locally layers .5-10cm thick, gradational contacts.	Layers 60 (15-60) Fol'n 60-30	Weak-moderate chl/ser to 409.64m. Moderate-strong chl +/- ser to 410.04 Weak-moderate ser/chl to 411.10.	1-2% f.g. dissem. py throughout.	Note poss. siliceous felsic tuff band 10cm thick @ 410.22m.
		411.10 - 413.59: medium grey andesite-dacite fine ash, relatively massive, homogeneous. Locally crudely layered.	Fol'n 30-60 Layering 55 (35-55)	Weak chl/ser. Weak light grey 2-5mm irregular vuggy qtz veins.	l-2% py f.g. dissem. throughout.	
413.59 to 454.04	ANDESITE CRYSTAL/ ASH TUFF (TO ANDESITE - DACITE)	Colour - dark grey-green Grain Size - very fine - fine, crystal - fine Massive overall with intermittent laminated sections. Very weakly foliated. Andesite - andesite/ dacite crystal-ash tuff. 10-20% Fp(?) 1mm crystals in v.f.g. chloritic dark matrix.		Very weak - moderate chi variable. Weak sel. ep. Weak-moderate patchy ep.	1-5% dissem f.g. py avg. 1-3%, local stringers.	
		413.59 - 415.72: Fine andesite crystal ash tuff, dark green-grey, with minor v.f.g. well laminated tuff beds 5-10cm, 1-5mm laminations. Very weakly foliated.	Layering 35-40 (Crude crystal ash 50)	Weak - moderate chl +/- ser pervasive.	1-3% dissem. f.g. py, avg. 3%. Note at 494.02 py dissem. as a patches.	

<u>rom</u> To	<u>Rock Type</u>	<u>Texture</u> and Structure	Angle to Core Axis	<u>Alteration</u> .	Sulphides	<u>Remarks</u>
		415.72 - 420.15: Very homogeneous. Massive, very weakly foliated fine andesite crystal tuff. Poss. dacite andesite composition.	Fo1'n 0-20	Weak chi/ser pervasive. Also sel. chi of crystals. Locally moderate chi.	1-5% py, avg. 2-3% dissem, f.g., with local 1-4mm dissem. py str. @ 10-20 C/A	
		420.15 - 421.45: Medium-dark green-grey andesite breccia - foliated?, or lapilli tuff? Frags elongate parallel to foliation. Frags up to 20 X 3mm.	Fol'n 0-20	Weak - moderate chl throughout. Very weak lcm thick irregular white qtz veins.	1-3% py fine-medium grained dissem. py. Lócal str. 3mm at 420.95m C/A 30.	Frags include elongate chloritic/mafic, cherty - tuff "eyes" 3X3mm in a moderate chloritized matrix.
		421.45 - 424.11: Medium green-grey felsic ash tuff, homogeneous, massive. Andesite tuff.		Weak - moderate chl pervasive.	1-3% dissem.f.g.py.	
		424.11 - 427.50: Medium-dark grey-green andesite crystal ash tuff, 1mm Fp (10-15%), massive, very weakly foliated.	Fo]'n 0-20	Weak +/- mod. chl. Sel. very weak Ep of Fp crystals, also weak patches Ep-qtz alteration up to 4X4cm locally.	1-3% dissem. f.g. py and as blebs.	Note py assoc. with Ep-qtz alteration. Litho BCD #6124 424.11 - 427.11m
		427.50 - 428.68: Dark - medium green with beige (Bleached) sections, fine ash - crystal tuff andesite.		Weak ch1 +/- dissem. hematite. Weak - moderate (1mm calc str. throughout. 2 qtz/calc 1-10cm vein- breccias have 10cm b1. envelopes. Fault?	1-2% dissem.f.g.py throughout.	

<u>e</u>	<u>Texture and Structure</u>	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
	428.68 - 428.93: Fault, minor medium - light green gouge. 428.93 - 431.85: Same as above andesite + interval.				
	431.85 - 432.92: Dark green-grey andesite crystal ash tuff 10-20% 1mm Fp subh.		Very weak- weak chi/ser. Weak sel. saus. of Fp, also minor weak Ep-qtz patches.	2-5% dissem f c.g. py, avg. 3% throughout.	
	432.92 - 438.80: Fine andesite-dacite medium grey ash, homogeneous, massive, weakly foliated. Note poss. 1-3% qtz eyes {} mm (v. similar to above).	Fol'n 0-30	Very weak - weak chl pervasive. Locally weak - moderate.	1-5% py dissem. f.g. 432.92 - 434.06: 2-5% py 434.06 - 438.80: 1-2% py	
	438,80 - 441.15: Similar to above has 10-20% 1mm Fp crystals. Crystal tuff.		Weak chi +/- ser. Local - weak-moderate chi	1–2% dissem. py throughout.	
	441.15 - 442.81: Dark grey, slight green, fine andesite ash, massive, weakly foliated, homogeneous.		Weak sel. Ep of Fp. W/weak-moderate chl/ser Selective weak epidotized	<1-2% dissem. py throughout.	
	442.81 - 452.50: Dark green-grey andesite crystal tuff. Massive, very weak foliation. 5-30% (1-2mm)		of Fp. Weak chl. pervasive, locally weak - moderate.	1–2% dissem.f – m.g. pyrite.	Litho BCD #6125 443.00 - 446.00m
	(avg. 1mm) Fp phenos.		Also very weak. Sel weak saus. of Fp phenocrysts. Local sections bleached.	Locally 2-3% py.	
	452.50 - 454.04: Dark green andesite fine ash tuff. Locally sheared.	Fol'n 5-15	Weak - moderate, chloritization (moderate towards end on interval)	2-3% f.g. dissem. py throughout. 10% py dissem. in 1cm thick stringer C/A 30.	

From To

<u>From</u> <u>To</u>	Rock Type	<u>Texture and Structure</u>	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
454.04 to 454.94	ANDESITE DYKE WITH QTZ VEINS	Colour - medium-light green Grain Size - aphanitic - fine - medium. Poss. flow breccia(?), weak - moderate pervasive epidotization has destroyed textures/structures to a degree. Fp porphyry frags(?) vague up to 5cm, subround. Also insitu breccia near end of interval - angular frags.	Top qtz vein 30-35 Bottom qtz vein 40?	Pervasive weak - moderate epidotization, very weak - weak chl throughout. White quartz + chlorite +/- calc, weak - moderate density as 5mm - 15cm veins. Pinch & swell. Dark green calc as selvage and fragments.	2-5% py dissem. as m c.g. euhedral crystals. <1% cpy as irregular shaped blebs +/- pyrite.	First appearance of Cu mineralization. BCD Litho 6126 454.15 - 454.63m Note Poss. flow structure "bands" approx. 10 C/A
454.94 to 456.40	ANDSITE TUFF - CRYSTAL TUFF	Colour – dark green Grain Size – very fine – fine grained. Massive dark green, andesite, weakly foliated similar to above, fine ash – crystal tuff.	Fol'n 20	Weak - moderate chl pervasive.	2-5% py as dissem. f.g. and blebs.	
456.40 to 456.59	ANDESITE DYKE	Colour - medium-light green Similar to above dyke.	Bot.ctc 60	Also calcite 2-4mm veins.		
456.59 to 461.75	ANDESITE ASH TUFF	Colour - very dark gren-grey Grain Size - aphanitic - fine Massive, homogeneous andesite felsic ash. Note dissem. 2-3% leucoxene in matrix, variable 2-15% (1-1mm Fp crystals. Probably a tuff due to variable Fp phenocryst content throughout (2 - 20%.		Weak - moderate chl pervasive to 459.00m. Very weak - weak chl to 461.75m.	1-3% dissem. py. Locally 5-8% py medium grained. ie) 458.85 - 458.90m.	456.79 Note 1cm thick dyke with flow structure, poss. related to dykes above.

<u>From</u> <u>To</u> .	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
461.75 to 463.69	ANDESITE DYKE, FELDSPAR PORPHYRY	Colour - medium-light green Grain Size - aphanitic - fine & medium crystals. Massive, feldspar porphyry dyke. Similar to above feldspar porphyry dyke. Poss. 3-4mm amygdules approx. 2%. Locally brecciated, insitu - by gashes.	Top ctc 10-20? Bot. ctc ?	Pervasive bleached (Ep?) Fragments/gashes of qtz +/- chl veins, angular patches.	Tr - <1% py	
463.69 to 465.45	ANDESITE ASH TUFF +/- CRYSTAL TUFF	Colour - dark green-grey Grain Size - aphanitic - fine Massive, similar to above fine andesite ash tuff.		Very weak - weak chl. Weak - moderate 1-2mm thick calcite veins.	1-3% f.g. dissem. py avg. 2%.	
465.45 to 466.13	ANDESITE DYKE, FELDSPAR PORPHYRY	Colour - medium-light green Massive, feldspar porphyry, similar to above dyke. Note 1-3% poss. amygdules 3-5mm across infilled by Ep - qtz/chl. Poss. flow structure at lower margins.	Top ctc ? Bot ctc ?	Pervasive bleached, cut by massive white irregular white qtz veins with chl selvages.	1% dissem. fine-coarse grained py.	
466.13 to 470.25	ANDESITIC CRYSTAL TUFF	Colour - dark green Grain Size - aphanitic-fine-medium Massive - crudely layered, very weakly foliated, relatively homogeneous looking andesite crystal tuff.		Very weak chl.	1-2% py.	
		466.13 - 468.58: Crudely layered feldspar crystal tuff - andesitic. 10-25% lmm feldspar crystals. 468.58 - 470.25: Massive andesite ash - fine crystal tuff. 20-30% Fp (1-1mm crystals.	Layering 20 Fol'n 0-20(?)	Very weak chloritization pervasive. Weak pervasive saus. of Fp. Local patches (1cm Ep. 1-3% Patches of weak-moderate Ep +/- qtz, up to 2cm across, avg. 5mm. Also pervasive weak saus. Fp. Weak chl.	1-2% py. 1-2% fine-coarse grained euhedral py.	Note strange frags(?) at 466.93m, hard dark green poss. part of a dyke(?).

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
470.25 to 471.09	ANDESITE DYKE? (POSS. FINE ANDESITE- DACITE ASH)	Colour - dark grey - grey Grain Size - aphanitic - fine Massive, homogeneous, lack of Ep. suggests this could be a dyke though contacts are unclear/vague.	Fol'n 20?	Weak +/- moderate chl. Tr qtz 2mm veinlets.	1-3% medium-coarse grained dissem.py.	No epidote.
471.09 to 475.42	ANDESITE CRYSTAL TUFF (OR POSS FLOW)	Colour - dark green Grain Size - aphanitic-fine-medium Similar to above andesite crystal tuffs. The Ep patches are conspicuous 3-4mm across (poss. amygdules of a flow as they show spherical - oval shapes and crude zoning). Lean with alteration (Ep) due to clusters and irregular shaped patches. Feldspar crystals up to 40% (1-2mm.		Very weak - weak chl. 2-5% Ep patches 2mm-40mm across, avg. 3-4mm. Typically dissem., large patches ad clusters or pseudo bands. Also sel. weak saus. of feldspar up to 30% saus.	Tr py.	
475.42 to 476.46	ANDESITE DYKE(?) (SIMILAR TO PREVIOUS DYKE)	Colour – very dark green-grey Grain Size – aphanitic – fine Massive, homogeneous andesite dyke, poss. fine tuff but no Ep. Contacts vague.	?	Very weak chloritization.	Trace py.	
476.46 to 483.11	ANDESITE CRYSTAL TUFF	Similar to 471.09 - 475.42, except increase in Ep alteration. 10-15% patches of moderate-strong Ep up to 3cm across, avg. 5-6mm.		Epidotization as patches moderate-strong 2-30mm (10-15% beige - pist. green 20-25% weak selvages, saus. of Fp crystals. Very weak- weak chloritization.	Tr - (1% f.g. dissem. py.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
483.11 to 483.84	ANDESITE DYKE? (SIMILAR TO PREVIOUS DYKES)	Colour - dark green-grey Grain Size - aphanitic - fine Massive, similar to above dykes (Poss. fine ash tuff). Contacts (vague).		Trace of Ep - 1%. Very weak chloritization.	Trace py.	Note (1mm mafic crystals? or amygdules?
483.84 to 484.57	FELDSPAR PORPHYRY ANDESITE DYKE	Colour - medium - light greeen (bleached). Grain Size - aphanitic - fine, crystals - medium. Massive Fp porphyry in centre, has chilled fine grained margins. Very sharp contacts! 5-10% Fp phenos in centre variable size (1-3mm subhedral.	Upper 85 Bottom approx. 30	Pervasively bleached. Tr chlorite.	Py fine-medium grained as discon. str irregular patches. 2-5% Locally 5% near lower contact.	Litho BCD #6127 483.89 - 484.52
484.57 to 486.18	ANDESITE CRYSTAL TUFF	Colour - dark green Grain Size - aphanitic-fine-medium Massive, crystal tuff similar to above crystal tuffs - andesite. Fp 5-20% (1-2mm.	Top ctc approx. 30 Bot ctc 70	Weak - moderate chl. 1-2% weak-moderate Ep patches 2-10mm also sel. weak Ep or Fp.	1-5% py dissem. avg. 2-3%. Locally 3-5% py over narrow widths.	
486.18 to 486.30	ANDESITE DYKE	Colour - medium green Grain Size - fine - aphanitic Massive, weakly Fp porphyry at margins. Weakly bleached. Andesite dyke.	Bot. ctc 70	Tr chl. Pervasive weakly bleached (Ep?)	1-2% dissem. py.	Poss, a phase of diorite?
486.30 to 487.06	ANDESITIC CRYSTAL TUFF	Colour - dark green Grain Size - aphanitic-fine, crystals medium. Similar to above crystal tuff - andesitic.				•

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
487.06 to 487.66	ANDESITE DYKE	Colour - dark - medium green Grain Size - aphanitic - fine Massive, Fp porphyry near margins, similar to above dykes. No amygdules.	Top ctc 70? Bot ctc 45	Trace - weak chi. Weakly bleached (Ep?)	2% dissem. medium-coarse grained dissem. pyrite.	
487.66 to 495.45	ANDESITE CRYSTAL TUFF	Colour - dark green Grain Size - aphanitic-fine matrix, crystals fine-medium. Similar to above andesite crystal tuffs. Relatively massive, with variations 1-20% Fp phenocryst content. Very weak foliation. Fp phenocrysts decrease to 1% at 494.52 - 495.45m, dark green fine ash gradually becomes more dacitic.	Fol'n 30?	Weak/weak-moderate chl. Weak sel. epidotization of Fp phenocrysts throughout. Also local patches Ep + qtz 1-5% VP to 2 X 3cm.	Tr - 2% (avg. 1%) py f.g. overall. 15-10% dissem. py at top ctc with dyke(?) over 5cm.	Litho BCD #6128 487.86 - 490.86
DACITE-	PYRITIC FINE ASH, +/- CRYSTAL TUFF (MINOR	Colour - light-medium grey Grain Size - aphanitic - fine Very homogeneous looking, grey dacite ash with local vague qtz eyes (Tr-3%, (1-2mm). 495.45 - 496.30: Medium grey dacite-andesite fine ash tuff, very weakly foliated.	Fol'n 10-20 10-20(?)	Very weak sericite. Very weak sericite.	5-15% f.g. dissem. py throughout, also m.g. blebs. 3-5% dissem. f.g. py, avg. 3%.	
	EYE CRYSTAL TUFF TUFF	496.30 - 506.85: Light-medium grey pyritic dacite ash - coarse ash +/- qtz eyes/lapilli(?) Locally 5% 2-4mm frags(?), +/- 1-5% (1mm qtz eyes(?) Relatively homogeneous.	Fol'n 10-30	Very weak- weak sericitization.	5-15% f.g. dissem. euhedral py throughout, avg. 8-10%.	Litho BCD #6129 501.00 - 504.00m
		506.85 - 508.60: Medium grey-green dacite-andesite ash - coarse ash tuff, similar to above.	Fol'n 0-20	Very weak-weak ser, tr chl - weak chl.	8-15% f.g. dissem. py + minor 2 X 3mm patches py. Avg. 10% py.	

ANDESITE- FINE TUFF	Colour - medium - dark green-grey Grain Size - aphanitic - fine	E 11 00			
	Relatively massive, very weak - weakly foliated andesite ash tuff. Homogeneous felsic tuff. No visible layering.	Folin 20 (10-40)	Veruy weak-weak chl/ser perv. Tr - very weak qtz +/- py veins with weak-moderate chl envelopes 1-5mm.	Avg. 5% dissem. f.g. py, also local str. 508.00 - 508.40: 10% dissem. + minor discont. str. py. 508.40 - 511.15: 5-8% py dissem. + str(?) 1-10mm patchy py. 511.15 - 512.40: 3-5% py + str. 512.40 - 514.90: 1-3% py. Local str. with up to 10% py. At 510.60 C/A 20 At 510.20 C/A 45 At 512.90 C/A 5 At 513.70 C/A 10-20 At 513.60 C/A 75 At 513.80 C/A 20	Note: Py str. mainly accomp. by qtz. BCD Litho 6130 511.15 - 514.15m
ANDESITE FINE TUFF	Colour - medium-dark green +/- grey Grain Size - aphanitic - fine Massive fine andesite tuff, Relatively homogeneous. Similar to previous inverval. Locally coarse tuff. Note at 151.95 2cm bed(?) with 15% 2mm qtz eyes? Poss. Fp porphyry fragments. Also at 518.15 similar 20cm layer. Note sheared sections at 519.10 - 519.14, 521.24 - 521.74 with narrow planes (1cm of pyritic gouge. Poss. minor faults, shears have moderate- strong chloritization.	Folin 10-20 Layering? 30 Shear 60-70	Very weak - weakly chloritized pervasive. Locally moderate chl over narrow (<25cm) intervals. Tr local sel with ep. Tr local calcite veinlets. Very weak qtz 2-10mm +/-py +/- chl veins.	Variable 1-10% py, mainly dissem. f.g., also local str. and pyritized shears. 514.90 - 517.15: 1-3% dissem. py 517.15 - 519.98: 3-5% dissem. py with str. @ 517.25; 3cm, 8%, C/A 45 518.33; 2cm, 15% py, C/A 20 with qtz vein 518.95; 7cm, 25% py, C/A 55 520.39; 2mm, 50% py, C/A 70 520.49; 3cm, 20% py, C/A 45 at 522.02: 5mm, 50% py,	Poss. andesite-dacite composition. Note stringers, py is dissem. grains and blebs. Litho BCD #6131 521.09 - 522.12m
		ANDESITE Colour - medium-dark green +/- FINE TUFF grey Grain Size - aphanitic - fine Massive fine andesite tuff, Relatively homogeneous. Similar to previous inverval. Locally coarse tuff. Note at 151.95 2cm bed(?) with 15% 2mm qtz eyes? Poss. Fp porphyry fragments. Also at 518.15 similar 20cm layer. Note sheared sections at 519.10 - 519.14, 521.24 - 521.74 with narrow planes (1cm of pyritic gouge. Poss. minor faults, shears have	ANDESITE Colour - medium-dark green +/- Fol'n FINE TUFF grey 10-20 Grain Size - aphanitic - fine Massive fine andesite tuff, Relatively homogeneous. Similar to previous inverval. Locally coarse tuff. Note at 151.95 2cm bed(?) with 15% Layering? 2mm qtz eyes? Poss. Fp porphyry fragments. Also at 518.15 similar 20cm layer. Note sheared sections at 519.10 - Shear 519.14, 521.24 - 521.74 with narrow planes (1cm of pyritic gouge. Poss. minor faults, shears have	ANDESITE Colour - medium-dark green +/- Fol'n Very weak - weakly FINE TUFF grey 10-20 chloritized pervasive. Grain Size - aphanitic - fine Massive fine andesite tuff, Relatively homogeneous. Similar to previous inverval. Locally coarse tuff, Note at 151.95 2cm bed(?) with 15% 2mm qtz eyes? Poss. Fp porphyry 30 Tr local sel with ep. 2mm dtz eyes? Poss. Fp porphyr 30 Tr local calcite veinlets. fragments. Also at 518.15 similar 20cm layer. Note sheared sections at 519.10 - 519.14 ; 521.24 - 521.74 with narrow planes (1cm of pyritic gouge. Poss. minor faults, shears have	Homogeneous felsic tuff. No visible layering. Str. py. 508.40 - 511.15; 5-8% py dissem. + str(?) 1-10mm patchy py. 511.15 - 512.40; 3-5% py + str. 512.40 - 514.90; 1-3% py. Local str. with up to 10% py. At 510.20 C/A 45 At 512.90 C/A 5 At 513.70 C/A 10-20 At 513.60 C/A 20 At 516.60 C/A 20 At 516.6

From To	Rock Type	Texture and Structure	<u>Angle to</u> Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
522.20 to 524.39	ANDESITE CRYSTAL TUFF	Colour - medium green Grain Size - aphanitic-fine matrix, fine-medium crystals. Weakly foliated, crudely layered andesite crystal tuff, Fp (1-2mm, 5-15% phenos, sel. epidotized. Layering defined by bands of Fp-rich crystal tuff.	Layering? 55	Very weak chl. Sel. weak Ep. of Fp phenos. Local patchy Ep at 522.52m	Tr - 2% dissem. f.g. py.	
524.39 to 525.65	ANDESITE- DACITE FINE TUFF + MINOR LAPILLI TUFF	Colour - medium grey +/- green Grain Size - aphanitic - fine Weakly foliated, fine andesite- dacite ash with 5% felsic lapilli frags (Poss. cherty tuff) 2X2 - 3X8mm drawn out parallel to foliation.	Upper ctc 60 Layering 45-60	Very weak - tr chl/ser	3-10% dissem. f.g. Py, avg. 5% py throughout. Note 8-10% at ctc, upper (15cm) Py str. @ 525.57 C/A 45.	Note: 525.09 - 525.19m. Sheared/breccia bottom ctc 60-80.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
525.65 to 562.05	ANDESITE CRYSTAL TUFF + ANDESITE FINE TUFF, (MINOR ANDESITE- DACITE	Colour - medium-dark green to green-grey Grain Size - aphanitic-fine matrix, fine-medium crystals. Generally very weakly foliated, massive, andesite crystal tuff + andesite ash tuff. Locally crudely layered.		Tr - weak chloritization, locally weak-moderate. Variable epidotization nil-weak pathes, + sel Ep of Fp.	1–3% dissem. py.	
	TUFF) NOTE FAULTS BETWEEN 548.98 &	525.65 - 527.43: Medium-dark green, very weak - weakly foliated, crudely layered(?) andesite crystal tuff. Similar to above.	Fol'n 0-20? Layer 20?	Very weak chl. Very weak - weak sel Epidotization of Fp phenocrysts.	1–2% dissem. f.g. py.	
	556.30	527.43 - 533.05: Medium-dark green, very weakly foliated, fine-coarse grained, relatively homogeneous andesite ash tuff Poss. an andesite-dacite/dacite-andesite composition as interval is more dacitic at end, chl overprints felsic minerals.	Fol'n 10-30	Very weak - weak chloritization pervasive. Localy qtz +/- chl +/- py veins/stringers.	2-3% f.g. dissem. py throughout, locally 10-25% py, (1% cpy in str. +/- qtz ie) 529.84: 2cm, 30% py, C/A 30 531.14: 1-2cm, 20% py, C/A 15 531.24: 1cm, 10% py, 3% cpy, 15 C/A 531.49: 2cm, 10% py, 25 C/A 532.04: 2cm, 15% py (+ qtz), 20 C/A	Assay: BCD #6302 531.11 - 531.36 Litho BCD #6132 528.50 - 531.50
		533.05 - 542.24: Medium-dark grey-green, very weakly foliated andesite crystal tuff, similar to above. Variable Fp content 5-20% (1-2mm, avg. 1mm, subhedraleuhedral. Ep patches 2mm-3cm nucleate around Fp grains. No layering.	Fo]'n 20-30	Very weak - weak pervasive chloritization, weak sel ep + local patchy ep to 540.41m. Moderate sel. ep + very weak - weak patchy ep (up to 2 X 3cm sub-angular patches) to 542.24 (5-10%). Ep patches beige - pist. green.	1-2% f.g. dissem. py throughout locally str. of py at: 538.71: 2mm, 20% py, C/A 5 538.09: 1mm, 20% py, C/A 40 541.53: 1mm, 10% py, C/A 35	Note mislatch at 540.41 m.

rom To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	Remarks
		542.24 - 543.72: Weakly foliated, dark green, fine andesite ash - local crystal tuff. Relatively massive, poss. layering in crystal tuff(?). No distinct layering.	Fol'n 60-75 Layering 75?? 45?	Weak / weak-moderate chloritization. Fp phenos sel. weakly saus. Tr patchy weak epidote.	1-3% dissem f.g. py, note 1mm py str. at 542.55 C/A 75.	Subtle division based on decrease - nil Fp phenos.
		543.72 - 547.02: Dark green, relatively massive - crudely layered, weakly foliated. Andesite crystal tuff, 5-15% (avg. 5%) Fp phenos similar to previous crystal	Layering 60 Folin 50-60	Weak chi, locally mod. Weak sel saus. of Fp phenos. 1-3% patchy Ep throughout.	Tr - 1% py.	. *
		tuffs. 547.02 - 548.98: Dark green - grey fine andesite ash tuff, +/- coarse ash, similar to above fine andesite ashes.	Fo1'n 60	Moderate chloritization.	1–3% dissem.f.g.py.	
		548.98 - 556.30: Dark green, very weakly foliated, locally crudely layered, andesite crystal tuff. Similar to previous crystal tuffs. Ep patches (balls) up to 4 X 1cm	Layering 40	Weak - moderate chloritization - pervasive. Local weak-moderate 2mm calc. veins. Weak- moderate sel. saus of Fp phenos, also variable very	1-2% py f.g. dissem. throughout.	Poss. fault/ gouge at 548.98, 549.41 C/A 45, 553.56, 556.30 C/A 50.
		subr. Layering defined by Fp-rich beds.		weak - weak patchy epidote. 548.98-551.30:2% very weak Ep.		Litho BCD #6133 552.61 - 555.61m.
				551.30-552.52: 2-5% weak Ep. 552.52-554.60: 15-10% weak Ep. 554.60-556.30: 5-10% weak + very weak Ep.		
				· · · · · · · · · ·		

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
		556.30 - 557.54: Dark green fine andesite ash tuff, similar to above.	Fol'n 45	Moderate/moderate-strong chloritization pervasive.	2-3% dissem py throughout, local str. at 556.60, 2mm, m.g. py, C/A 50.	
		557.54 - 558.20: Dark green weakly foliated andesite crystal tuff 2-10% Fp phenos. Similar to previous andesite crystal tuff.		Very weak chloritization pervasive.	1-2% dissem. py.	
		558.20 - 562.05: Dark green fine grained andesite tuff, similar to above fine andesite tuff. No visible layering.	Fol'n 45-0	Weak locally, weak - moderate chloritization. Tr - weak Ep locally.	1-3% dissem.f.g.py avg.1%	
562.05 to 568.20	RHYODACITE QP FLOW WITH FLOW-TOP BRECCIA	Colour - light-medium green-grey Grain Size - aphanitic matrix/ groundmass, fine crystals Massive, weakly foliated qtz-eye flow? or very homogeneous fine ash with qtz eyes. Qtz eyes 5-10% throughout, (1mm. Groundmass/matrix aphanitic. Top 40cm of interval has vague fragments/silicified zone is matrix of flow-top breccia.	Fol'n 0-10 Lower ctc 20?	Tr - very weak ser. Local 2-5mm Qtz veins +/- py +/- chl - very weak density. Note ? vuggy qtz vein. Poss. silicified near top of section, with flow top breccia.	1-3% f.g. dissem py, avg., locally up to 5-8% with stringers +/- cpy ie) 562.62: 2-3mm, 5% py, 5 C/A 563.52: 3mm, 15% py, 2% cpy, 10-15 C/A discon. 564.82: 2mm, 15%, 10 C/A discon. 565.75: 2mm, 20%, 10 C/A + chl.	Gradational lower contact. Litho BCD #6134 564.00 - 567.00m Assay BCD #6303 563.24 - 563.44m
568.20 to 571.71	ANDESITE- DACITE FINE TUFF	Colour - medium grey-green Grain Size - aphanitic - fine Weakly foliated, relatively massive ashes range andesite-dacite composition. Fine grained, no visible layering 568.20 - 569.06: Andesite-dacite 569.06 - 569.56: Andesite 569.56 - 571.11: Dacite-andesite 571.11 - 571.71: Daice (qtz eye) 5% (1mm Lower contact with andesite crystal tuff sheared.	Fol'n 20 Layering 20 Bot Ctc 20	Weak-moderate chl/ser 5% patchy moderate epidote in andesite.	Trace - 2% dissem. py, f.g m.g. 1% py 2% py 1% py 1-2% py	

Rock Type	Texture and Structure	Angle to Core Axis	Alteration	Sulphides	Remarks
ANDESITE CRYSTAL TUFF + ANDESITE FINE ASH TUFF + ANDESITE- DACITE FINE ASH	Colour - dark green + pist. green Grain Size - aphanitic - fine matrix, fine-medium crystals. Relatively massive, very weakly foliated andesite crystal tuff, + fine andesite ash. Variable patchy Ep alteration. Similar to previous andesite crystal tuff. 571.71 - 582.29: Massive, very very weakly foliated andesite crystal tuff, dark green + Pist green. 5-20% 1mm Fp phenos, sel. saus.		Tr - weak chl. Variable very weak - weak epidote sel. & patchy alteration. Very weak-weak chloritization throughout. Sel. moderately epidotization of Fp phenocrysts also very weak - moderate patchy "ball" epidotized ie) 571.71 - 573.90: weak-very weak (5-10%) Ep. 573.90 - 575.32: Weak-moderate (20%) Ep. 575.32 - 578.41: Very weak (1-5%) Ep. 578.41 - 582.29: Weak (10%) Ep. Trace stz/calc veins.	Trace - 3% dissem. py, avg. Tr - 1% py. Trace - 1% dissem. py. Locally up to 3% f.g. py with qtz/calc veins.	Similar to above andesite crystal tuffs. Ep patchy/balls irregular round shapes.
	582.29 - 586.53: Medium-dark green-grey, massive andesite fine ash +/- fine crystal tuff (Fp phenos up to 15%). 586.53 - 597.54: Dark-medium green-grey massive fine tuff. Andesite composition. Weak- locally moderately foliated. +/- dacite-andesite. Relatively homogeneous ash.	Fol'n (0-35) 10 Fol'n 10 (0-20)	Weak locally weak-moderate chl. 1-2mm calcite veins, trace. Weak/weak-moderate chloritization +/- ser. Tr Ep locally.	Tr - 3% py f.g., avg. tr - 1%, minor <1mm stringers. 1-3% dissem. py, also trace cpy locally. ie) 589.38 cpy blebls 1% in qtz-ep vein. 586.53 - 593.45: 1-2% py.	Locally 1-5% leucoxene grains. Litho BCD #6135 589.00 - 592.00m.
	ANDESITE CRYSTAL TUFF + ANDESITE FINE ASH TUFF + ANDESITE- DACITE	ANDESITE Colour - dark green + pist. green CRYSTAL Grain Size - aphanitic - fine TUFF + matrix, fine-medium crystals. ANDESITE Relatively massive, very weakly foliated andesite crystal tuff, + TUFF + fine andesite ash. Variable patchy Ep alteration. Similar to previous andesite crystal tuff. FINE ASH 571.71 - 582.29: Massive, very very weakly foliated andesite crystal tuff, dark green + Pist green. 5-20% 1mm Fp phenos, sel. saus. 582.29 - 586.53: Medium-dark green-grey, massive andesite fine ash +/- fine crystal tuff (Fp phenos up to 15%). 586.53 - 597.54: Dark-medium green-grey massive fine tuff. Andesite composition. Weak- locally moderately foliated. +/- dacite-andesite.	ANDESITE Colour - dark green + pist. green CRYSTAL Grain Size - aphanitic - fine TUFF + matrix, fine-medium crystals. Relatively massive, very weakly FINE ASH foliated andesite crystal tuff, + TUFF + fine andesite ash. Variable patchy Ep alteration. Similar to previous andesite crystal tuff. FINE ASH 571.71 - 582.29: Massive, very very weakly foliated andesite crystal tuff, dark green + Pist green. 5-20% 1 mm Fp phenos, sel. saus. 582.29 - 586.53: Medium-dark green-grey, massive andesite fine ash +/- fine crystal tuff (Fp phenos up to 15%). 586.53 - 597.54: Dark-medium green-grey massive fine tuff. Andesite composition. Weak- locally moderately foliated. +/- dacite-andesite.	ANDESITE CRYSTAL TUFF + ANDESITE Palteration. Similar to previous andesite crystal tuff. FINE ASH TUFF + DACITE DACITE TIFF + TUFF + S71.71 - 582.29: Massive, very very weakly foliated andesite crystal tuff, dark green + Pist green. 5-20% 1mm Fp phenos, sel. saus. 582.29 - 586.53: Medium-dark green-grey, massive andesite fine ash +/- fine crystal tuff (Fp phenos up to 15%). 586.53 - 597.54: Dark-medium green-grey massive fine tuff. Andesite composition. Weak-locally moderately foliated. +/- dacite-andesite. Tr - weak chl. Variable very weak (andeside sel. & patchy variable very weak (anderate) variable very weak	ANDESITE CRYSTAL TUFF + ANDESITE Relatively massive, very weakly fine andesite crystal tuff, 4 prenous andesite crystal tuff, 571.71 - 582.29: Massive, very very weakly foliated andesite crystal tuff, 4 prenous andesite crystal tuff, 4 prenous andesite crystal tuff, 571.71 - 582.29: Massive, very very weakly foliated andesite crystal tuff, dark green + Pist green. 5-20% 1 mm Fp phenos, sel. saus. 582.29 - 586.53: Medium-dark green-grey, massive andesite fine ash +/- fine crystal tuff (Pphenos up to 15%). 586.53 - 597.54: Dark-medium for phenos up to 15%). 586.53 - 597.54: Dark-medium for phenos up to 15%). Andesite composition. Weak-locally moderately foliated. +/- dacite—andesite.

<u>From</u> <u>To</u>	<u>Rock Type</u>	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	Remarks
597.54 to 605.31	ANDESITE FINE TUFF	Colour - medium gren-green Grain Size - aphanitic-fine Weak-moderately foliated, relative homogeneous fine andesite ash. No visible layering. 2-3% dissem. v.f. leucoxene.	Fol'n 20-25	Weak + weak-moderate pervasive chl. Local patchy Ep-qtz alteration at 601.87 - 603.05m. Moderate epidotization - qtz vein(?) 40-50% Ep.	2-5% dissem. py avg. 2% f.g. py to 601.87m. 2-5% py to 605.31m. Also tr. cpy dissem. f.g. at 600.27, 601.22.	Assay BCD #6304 600.00 - 601.50m
		Note shear section at 599.12 C/A 10 Minor Fault 603.65 - 603.90m.	Fault 20 minor gouge			

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	Sulphides	<u>Remarks</u>
605.31 to 615.49	ANDESITE TUFF, MINOR ANDESITE CRYSTAL TUFF	Colour - medium green-grey to dark green. Grain Size - aphanitic-fine matrix, fine-medium crystals. Very weak - moderately foliated, relatively homogeneous, massive andesite ash tuff, minor andesite crystal tuff.		Very weak - weak chl +/- mod. Local patchy Ep.	2-5% py dissem. + minor stringers, local tr cpy as elongate blebs.	
		605.31 - 607.98: Medium-dark grey-green andesite fine tuff. Very weak - weakly foliated. Massive. 607.98 - 612.29: Massive, very	Fol'n 20	Weak/weak-moderate chloritization +/- ser.	1-3% dissem. f.g. py. Tr-(1% cpy @ 503.20 - 503.80.	Litho BCD #6136 605.31 - 607.31m.
		weak foliated andesite crystal tuff, medium-dark green/grey. Layering tenuous, based on Fp-rich altered layers.	Fol'n 20 (0-30) Layering 30?	Very weak - weak chl. Trace qtz-calc C/A 0. Tr - very weak Ep patches throughout up to 5 X 5mm, also very weak sel. Ep or	Avg. 1-3% f.g. dissem. py range 1-5%.	
		612.29 - 615.49: Relatively massive medium - dark andesite fine-coarse ash +/- crystal tuff, weakly foliated. Locally see Ep bands, poss. Fp pheno bands now altered.	Fol'n 30 Layering 30?	Fp phenos throughout. Very weak – weak chl. 2–5% weak Ep patches along foliation as bands.	2-3% py dissem. throughout.	
615.49 to 621.98	ANDESITE- DACITE ASH TUFF + CRYSTAL TUFF	Colour - medium grey-green. Grain Size - aphanitic-fine matrix, fine-coarse crystals. Relatively massive, (some ctc between ash and crystal tuff noted), andesite +/- andesite- dacite.		Tr - weak ser +/- chl.	1–5% dissem. py.	
		615.49 - 616.79: Medium grey-green fine andesite-dacite tuff, weakly foliated.	Fol'n 10 Bot ctc 35	Weak/weak-moderate ser +/- chl.	3-5% dissem. f.g. py throughout (50% at last 30cm of section). Note discon. (1mm stringers.	Poss. minor fault @ 616.19, 2cm .clay gouge.
		616.79 - 618.60: Light-medium green, weakly foliated, andesite-dacite qtz-eye/Fp crystal tuff. Matrix fine-aphanitic ash (andesite). Qtz eyes (1-6mm (avg. 1-2mm, up to 5%) Fp (1-1mm 5%.	Fol'n 20 Bot ctc 40	Very weak - weak chl. Silicified??, qtz veins + weak ser. at 618.20 - 618.60.	5% dissem. fine-medium grained py. Local stringers at 618.40 - 619.60 C/A 20-30.	Litho BCD #6138 616.79 - 618.60m. Note larger qtz eyes are oval shape vs spherical (2mm qtz eyes.
		618.60 - 621.98: Medium grey-green, massive, weakly foliated andesite-dacite fine ash.	Fol'n 15 (5–29) Bot etc 5–10	Weak chl. +/+ ser.	1-2% f.g. dissem. py (avg), Locally 2-3% py.	Litho BCD #6137 619.03 - 621.40m

From To	Rock Type	<u>Texture and Structure</u>	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
621.98 to 655.47	RHYODACITE QTZ-FP CRYSTAL TUFF (POSS. QFP)	Colour - medium-light grey with green hue. Grain Size - aphanitic groundmass, fine-very coarse crystals. Massive, very weakly foliated rhyodacite qtz Fp crystal tuff or porphyry flow? Qtz eyes 1-10% (1-12mm, Fp, 3-25% (1-2mm. Note poss. flow banding? subdivisions based on phenocryst content & size.		Tr – weak ser, tr chl. Locally silicified?	3-8% py, avg. 3-5% py, dissem. throughout, local stringers.	Qtz eyes light- medium grey.
		621.18 - 625.42: Medium grey-green, massive, Qtz Fp crystal tuff. Qtz eyes 5-10%, 1-5mm, Avg. 1-3mm round-oval shape. Fp 15-20%, 1mm subhedral-euhedral.	Foi'n 20	Tr-weak ser, tr chl, silicified? Tr Ep locally.	3-5% dissem. fine- medium grained pyrite.	
		625.42 - 632.06: Massive light grey, slightly green rhyodacite Qtz Fp crystal tuff - Fp rich. Qtz eyes 5-15% (avg. 10%), (1-6mm (avg. 2-4mm) Fp phenos 15-30% Fp (avg. 20%), (1-(2mm Mainly round qtz eyes.	Fol'n/F.8. 5-10	Tr-weak ser, tr chl, silicified?	3-5% dissem. py fine- medium grained.	Note one 12mm qtz eye. Minor shear with ser at 629.20 Litho BCD #6139 627.00 - 630.00m.
		632.06 - 639.57: Massive, flow-banded, light grey qtz eye rhyodacite + Fp crystal tuff. Qtz eyes, 5-10%, avg. 10% (1-6mm Avg. 2-4mm, dominantly oval shape. Fp (5-10%, avg. 5%, <<1 mm.	Fol'n 0-10	Tr-weak ser, tr chl, silicified?	3-5% py, avg. 5% py.	Strongly qtz porphyritic. Note: inclusions in qtz eyes. Litho BCD #6140 632.00 - 635.00m.

Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
	639.57 - 642.45: Massive, very weakly foliated, light-medium grey/green rhyodacite qtz-Fp porphyry. Fp rich, crystal tuff. Qtz eyes (5-10% (5% avg), (1-6mm (avg. 1-2mm). Fp 15-25% (avg. 20%),	Fo1'n/FB 30 (30-45)	Tr-weak ser, tr chl. Silicification, -devitrification? Tr local epidotization of Fp.	5–3% dissem.f.g.py.	
	1mm oval-round qtz eyes. 642.45 - 643.79: Light grey, massive, very weakly foliated rhyodacite - qtz eye rich tuff. Qtz eyes; 10-15%, <1-5mm (avg. <1-1mm). Fp; 5-10%, <2mm round qtz	Fol'n/FB 20-25	Tr-weak ser, silicified?	3-5% dissem.f.g.py.	
	eyes. 643.79 - 644.85: Light-medium grey - slightly green, massive, very weakly foliated qtz Fp crystal tuff rhyodacite. Qtz eyes 5-10%, (1-4mm ((1-2mm avg). Fp 15%, 1mm.	Fol'n/FB 25-30	Tr-weak ser, silicified?	3% dissem. f.g. py.	
	644.85 - 646.02: Light-medium grey-green, massive, very weakly foliated Fp rhyodacite crystal tuff, minor qtz eyes 1-5%, (1-3mm. Fp 20-25% Fp, (1-2mm (avg 1mm).		Tr-weak ser, silicified?	3–5% dissem. f.g. py.	
	646.02 - 650.90: Light-medium grey, slightly green, massive very weakly foliated qtz-Fp crystal tuff. Flow-banded? Qtz eye - rich qtz eyes 10-15%, (1-5mm (avg. 1mm). Fp 5-10%, (1-1mm. Round to oval qtz eyes.	Fol'n/FB 20-25	Tr-weak ser, (silicified?)	3-5% dissem. f.g. py - m.g. py.	
	650.90 - 652.69: Light-medium grey-green, massive, Fp-rich Qtz Fp crystal tuff rhyodacite. Qtz eyes 10%, (1-6mm (avg. 1 & 5mm). Fp 15-25%, (1-2mm (1mm avg). Round-oval qtz eyes.		Tr-weak ser, tr chl. (Silicified?)	3-5% py dissem. f.g m.g.	, Note dark-medium grey large 5mm qtz eyes.
	652.69 - 655.47: Medium-light grey, slightly green, massive, very weakly foliated, flow banded(?) Qtz eye rich rhyodacite crystal tuff. Qtz eyes 10-15%, <1-5mm (avg 1mm). Fp 5-10%, 1-<1mm. Round-oval qtz	Fo]'n/FB 5-10 Bot ctc 10-15	Tr-weak ser, chl. (Silicified?)	5% f.g m.g. dissem. py.	Litho BCD #6141 652.84 - 655.27m.

From To

eyes.

<u>From</u> <u>To</u>	Rock Type	<u>Texture</u> and <u>Structure</u>	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
655.47 to 663.55	ANDESITE, MINOR ANDESITE- DACITE TUFF - CRYSTAL TUFF	Colour - medium grey-green + light green-grey. Grain Size - fine. Massive, relatively homogeneous, weakly foliated andesite +/- andesite-dacite fine ash fine crystal tuff.	Top ctc 10-15	Very weak - weak chl +/- ser. Local weak (10-15%) patchy Ep.	1−3% dissem.f.g.py.	
	· .	655.47 - 656.07: Light green-grey, weakly foliated, fine andesite ash with 1-3% 1mm gtz eyes.	Fol'n 15	Weak minor ser, weak chl.	3-5% ру.	
		656.07 - 658.21: Medium green-grey andesite-dacite fine crystal tuff. Tr qtz eyes - 5% (1mm.	Fo'in 20	Very weak-weak ch1+/- ser pervasive. Minor Ep + qtz veins, very weak. Local Ep spot/patch sections 10-20% @ 656.07-656.42, 657.01- 657.19, 657.56-658.21.	1-5% dissem. py, avg. 1-2%.	Epidotization of Fp crystals (?) (Plag rich layers?)
		658.21 - 663.55: Medium grey, slightly green andesite-dacite fine crystal tuff. Relatively homogeneous. Approx. 5-10% (1mm round qtz eyes.	Fol'n 10-25	Very weak - weak ch1 +/- ser. Tr patchy Ep locally. Minor 2mm qtz veins +/- py locally C/A 20.	1-5% dissem. py, avg. 2% throughout. f.g. dissem. py + blebs, minor py stringers at 10 C/A ie) 663.36 3mm thick.	Litho BCD #6142 658.21 - 661.21m
663.55 to 663.75	FAULT WITH QTZ VEIN	Colour - light green & white. Grain Size - fine. Narrow fault, gouge + mud with chunks of white massive qtz vein.	?	Moderate ser/chl. Clay? Quartz vein.	1-2% dissem. f.g. py.	Significant structure.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
663.75 to 666.90	DACITE- ANDESITE QTZ EYE-FP CRYSTAL TUFF	Colour - medium-dark grey, slightly green. Grain Size - aphanitic - fine matrix, crystal - fine-medium. Massive dacite-andesite fine ash - dacite Fp crystal tuff(?)		Very weak - weak ser/chl. Tr Ep locally.	1–5% dissem. f.g. py.	Note: Prob. no displacement on fault.
		663.75 - 665.74: Massive medium-dark grey/green dacite-andesite crystal tuff. 20% 1mm qtz eyes shear at 664.41, 664.61m.	Fol'n 20?	Very weak-weak chl/ser. Tr Ep spots.	1–5% dissem. f.g. py, avg. 2–3% Minor stringers at 664.37 @ 25 C/A.	Qtz eyes lense shape.
		665.74 - 666.90: Dark-medium grey - slightly green massive dacite Fp crystal tuff, (poss. flow???) 1-5% 1mm qtz eyes.	Fol'n 1 5- 25	Very weak/weak ser +/- chl. Tr Ep./qtz veins.	2-5% dissem. f.g. py, avg. 3%.	
666.90 to 667.27	ANDESITE FELDSPAR PORPHYRY DYKE	Colour - medium green. Grain Size - aphanitic - very fine groundmass, fine-medium crystals. Massive Fp porphyry (10%) (1-1mm subhedral plag. andesite dyke. (Silicified?)	Top ctc ? Bot ctc 10 sharp	Weakly bleached, tr chl.	1-2% dissem. fine pyrite.	
667.27 to 668.38	ANDESITE- DACITE FP CRYSTAL TUFF	Colour - dark-medium grey-green. Massive dacite-Fp-qtz eye crystal tuff similar to 665.74 - 666.90m. Except 5-20% (avg. 8%) Qtz eyes <1 mm.	Fo1'n 20	Very weak-weak chl +/- ser, poss. silicified. Tr qtz veins, tr sel epidotization of Fp.	3% dissem. f.g. py throughout. Local stringers @ 25 C/A to Qtz .5cm.	
668.38 to 668.58	ANDESITE FELDSPAR PORPHYRY DYKE	Colour - medium green. Similar to above dykes.	Top ctc 10 Bot 15			
668.58 to 668.94	DACITE- ANDESITE FP- QTZ EYE CRYSTAL TUFF	Colour - dark green-grey. Grain Size - aphanitic-fine. Massive, sheared dacite crystal tuff similar to above.	Shear approx. 30 Bot ctc approx. 30	Weak-moderate ser/chl.	5% dissem. + stringer f.g. py. Stringers @ 25-50 C/A, 1-2mm.	Hem. f.g.(?) along shear planes. Note 1-5% leucoxene parallel to foliation.

From To	Rock Type	<u>Texture and Structure</u>	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
668.94 to 673.55	DACITE FELDSPAR -QTZ EYE CRYSTAL TUFF	Colour - light-medium grey-green. Grain Size - aphanitic groundmass, fine-medium crystal. Massive Fp porphyry flow(?), flow banded(?), very weakly foliated. Fp 20-30% 1mm subhedral-euhedral qtz eyes 1-3%, 1-5mm (avg. 1-3mm). Qtz eyes round-oval.	Fol'n 30 Layering approx. 30	Very weak ser. Tr chl as envelopes associated with py stringers. Minor 1cm qtz veins + Ep. (Silicified?)	3-8% py f.g. dissem. + stringers, avg. 5% py. 669.84 - 671.15: 5-8% py stringers @ C/A 20-30 + chl, as disconnected patches of py.	Litho BCD #6143 669.00 - 671.30m Crystal charged tuffs. Note medium grey oval qtz eyes.
673.55 to 674.07	ANDESITE- DACITE FELDSPAR PORPHYRY DYKE	Colour - medium green. Grain Size - aphanitic-very fine groundmass, fine-medium crystals. Massive Fp porphyry dyke 1-5% 1-2mm Fp phenocrysts.	Top ctc 15 Bot ctc 40~45(?)	Very weak chl/ser.	2% dissem.py.	
674.07 to 674.12	FAULT	Colour - light green, fine grained gouge plane.	45	Clay gouge.	2–5% dissem.py.	
674.12 to 675.77	DACITE FELDSPAR -QTZ EYE CRYSTAL TUFF	Colour - light-medium grey-green. Grain Size - aphanitic groundmass, fine-medium crystals. Massive Fp porphyry flow(?). Same as above.	Fol'n 25-40	Tr-very weak ser/chl. Silicified?	3-5% dissem.f.g.py.	
675.77 to 676.03	ANDESITE- DACITE FELDSPAR PORPHYRY DYKE	Colour - light-medium green. Grain Size - aphanitic - very fine groundmass, fine-medium crystals. Massive Fp porphyry dyke. Same as above.	Top ctc 20 Bot ctc 10	Bleached, weak. Very weak chl.	2% dissem. py.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
676.03 to 685.10	DACITE FELDSPAR- QTZ EYE CRYSTAL TUFF	Colour - light-medium green-grey. Grain Size - aphanitic groundmass, fine-medium-coarse crystals. Massive, very weakly foliated Fp porphyry crystal tuff - dacite with qtz eyes.	Fo1'n 20	Tr ser. (Silicified?)	3% f.g. dissem. py.	
		676.03 - 678.65: Fp-rich. Fp crystal tuff porphyry 15-25% Fp lmm, Qtz eyes 1-5%, 1-3mm (1-2mm avg).		As above.	3% ру.	
		678.65 - 685.10: Light grey to medium green-grey, massive qtz-Fp porphyry crystal tuff rhyodacite. (Poss. flow?) Qtz eyes 5-10% (avg 10%), (1-4mm (avg (1 and 2-3mm). FP 5-15%, (1-2mm. Qtz eyes round-oval-lenses. Flow banded(?)	Fo1'n/FB 25-30	Tr-very weak ser +/- ch1. (Silicified?)	3% dissem.f.g.py.	
685.10 to 695.25 E.O.H.	ANDESITE/ ANDESITE- DACITE FINE CRYSTAL TUFF	Colour - medium-dark-light green- grey. Grain Size - aphanitic-very fine matrix, fine-medium crystals. Relatively massive, weakly foliated. Andesite-dacite crystal tuff, locally up to 5% qtz eyes, 10% plag.		Weak-weak-moderate chi +/- ser. Sel saus. of Fp + local moderate pervasive Ep +/- qtz.	1-3% f.g. dissem. py throughout, avg. 2%.	Litho BCD #6144 687.00 - 690.00m
		685.10 - 691.21: Medium-dark green-grey andesite-dacite fine crystal tuff. Crudely layered Fp crystal bands. Variable 1-15% Fp crystals (1-2mm. Qtz eyes (1mm distinct in first 2m of interval.	Layering? 25 Fol'n 20-35	Weak - weak-moderate chl +/- ser. Sel weak saus. of Fp. Locally moderately pervasive Ep/qtz vein? at 687.20 - 687.50.	2% dissem. py.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
		691.21 - 695.25: Similar to above though slightly more mafic andesite ash crystal tuff. Dark-medium green Fp up to 15%, avg. 5%. Qtz eyes noted locally and matrix relatively siliceous throughout.	Folin 20 Layering? 25	Weak serl epidotization of Fp phenocrysts. Weak/weak-moderate chl. Very weak qtz +/- Ep +/- py veins 2-3mm thick - Ep envelopes. C/A 15.	2-3% dissem.f.g.py also stringer/patchy py with cpy. 691.29 - 692.51 (1-1% cpy. Stringers @ 30	Cpy as blebs within py stringers (irreg., discon.) Litho BCD #6145 691.29 - 692.51 m.

MAJOR OXIDES

TRACE ELEMENTS

							JOH OXID						•		FEMEN!	•						
SAMPLE NUMBER	FROM (MB)	TO (100)	SiO,	Al _ε Οι	CaO	MgO	Na ₂ O	K₁O	FeO	MnO	TiO,	Ва	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	ppm As	ppm Sb	Sr%	Zr% .	Total
6101	13.59	16.87	49.40	15.23	10.20	5.55	0.36	0.01	13.88	0.30	2.60	.005	208	43	23	0.3	5	1	6	-04	.009	97.56
Andesite feldspar porphyry flow(?)																						
6102	30.60	33.60	76.13	12.74	0.42	1.51	0.51	3.16	3.15	0.03	0.27	.150	4	7	6	0.2	10	1	2	.01	.005	98.09
Rhyoda	acite																					
6103	54.25	57.25	71.93	14.06	3.18	2.84	2.03	1.35	2.40	0.05	0.29	.047	7	10	9	0.2	5	1	2	.02	.005	98.21
Rhyoda	acite																					
6104	80.00	83.00	70.22	14.55	1.68	3.60	1.34	2.03	4.28	0.05	0.27	.071	2	12	11	0.2	15	1	2	.02	.006	98.11
Rhyoda	acite																					
6105	90.00	93.00	78.02	12.12	1.47	1.03	3.22	1.25	0.85	0.02	0.24	.086	3	5	7	0.3	10	1	1	.02	.005	98.34
Silic	ified Ex	halite																				
6113	96.02	96.92	77.60	11:24	0.90	2.18	1.32	2.12	2.51	0.03	0.23	.110	2	15	7	0.3	10	1	3	.01	.005	98.08
Silic:	ified Ex	halite		<u>L </u>			·	•	<u> </u>													
6106	96.92	97.27	50.10	3.54	2.79	1.97	0.01	0.01	38.23	0.04	0.05	.00Š	15	24	30	1.6	10	30	33	.02	.005	96.75
Fe - :	formatio	n band		1		<u> </u>	<u> </u>		·		<u> </u>											
6107	100.93	103.15	49.09	14.35	10.52	5.20	0.90	0.02	14.19	0.29	2.82	.005	236	35	25	0.5	20	1	7	.04	.011	97.45
Diori	te			<u> </u>		•	·	•	•			•				J						
6108	118.81	121.81	47.69	14.17	7.56	4.35	2.97	0.46	16.07	0.28	3.59	.009	149	52	23	0.5	10	1	11	.03	.022	97.20
Diori	te - she	ared		<u> </u>			 	•	•			•										
6109	153.06	156.06	47.53	11.41	8.59	4.26	2.35	0.06	18.06	0.37	4.57	.016	302	52	19	0.3	5.	1	11	.03	.019	97.27
Diori	te with	Magneti	e.	<u> </u>			•															
L			ш										M T							45		

		Y 7 0	Λ.Ε
NEG 20		Logged by M. J. Gray	Page No 43
Hole No. MTS-29	Entered by	Logged by	raye No.

ZIPPY PRINT = - BRIDGEPORT, RICHMOND

MAJOR OXIDES

TRACE ELEMENTS

MAJON OAIDES										IRACE ELEMENTS												
SAMPLE NUMBER	FROM (M)	TO (111)	SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K₁O	FeO	MnO	TiO ₂	Ва	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	ppm As	ppm Sb	Sr%	Zr%	Total
6115	168.87	171.40	48.50	10.75	9.32	6.07	1.54	0.24	16.84	0.38	3.78	.005	199	21	15	0.7	10	1	7	.03	.018	97.48
Diorit	e (with	Magnet	ite)																			
6110	185.87	188.15	39.59	13.85	15.81	5.35	2.30	0.83	15.94	0.47	4.20	.018	65	39	27	0.3	5	1	11	.03	.013	97.41
Diorit	te			***																		
6111	262.24	263.66	43.44	15.12	15.75	5.21	1.97	0.83	12.76	0.27	2.22	.012	38	40	31	1.5	5	16	12	.02	.009	97.62
Diorit	te																					
6112	303.15	304.95	67.73	15.05	0.90	4.82	2.98	1.58	4.25	0.09	0.46	.083	6	23	12	0.7	5	1	5	.01	.005	97.95
Dacite	e tuff																					
6122	319.78	322.05	62.78	15.03	3.14	7.04	1.25	2.28	5.93	0.11	0.43	.092	11	21	14	0.8	5	1	6	.01	.005	98.10
Dacite	- ande	site tu	ff					-														
6114	336.50	339.56	64.11	16.89	0.47	5.70	0.38	3.20	6.56	0.12	0.51	.113	7	26	13	0.8	5	1	7	.01	.005	98.08
Dacite	e - ande	site tu	f																			
6116	343.04	346.20	62.42	15.46	0.84	7.35	0.83	2.02	8.33	0.12	0.49	.073	101	32	16	1.0	5	15	9	.01	.005	97.95
Dacite	- ande	site																				
6117	356.65	359.25	63.31	16.08	0.57	6.50	0.72	2.47	7.63	0.12	0.47	.097	42	28	14	0.9	3	1	8	.01	.005	98.00
Dacite	- ande	site																				
6118	369.92	370.01	57.94	6.17	1.37	4.26	0.01	0.19	27.52	0.10	0.11	.010	458	23	29	1.5	20	39	24	.01	.005	97.68
Dacite	tuff																					
6119	371.98	373.98	67.57	15.21	0.48	4.72	1.95	2.10	5.33	0.10	0.44	.080	8	29	15	0.7	5	1	6	.01	.005	98.00
Dacite	tuff																					

Hole No.	MTS-29	Entered by	Logged by M. J. Gray	Page No46
----------	--------	------------	----------------------	-----------

ZIPPY PRINT * -- BRIDGEPORT, RICHMOND

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m)	T()	SiO ₂	Al ₂ O ₃	CaO	MgO	Na ₂ O	K _i O	FeO	MnO	TiO,	Ва	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	ppm As	ppm Sb	Sr%	Zr%	Total
6120	378.00	381.15	69.32	15.27	0.36	4.00	0.85	3.09	4.78	0.08	0.37	.114	13	22	11	0.4	5	1	6	0.01	.005	98.25
Dacit	e - ande	site tu	f																			
6121	385.00	388.00	75.71	12.97	0.19	2.05	1.17	2.80	2.89	0.05	0.21	.095	5	17	9	0.4	5	1	4	0.01	.005	98.16
Rhyod	acite																					
6123	397.50	400.00	59.14	18.92	0.44	7.32	0.14	3.48	7.75	0.15	0.58	.119	3	52	19	0.6	5	1	1	0.01	.005	98.04
Dacit	e - ande	site tu	f			_																
6124	424.11	427.11	57.79	17.38	1.67	6.68	3.52	0.79	9.35	0.20	0.67	.024	5	55	24	0.9	5	1	1	0.02	.005	98.09
Andes	ite crys	tal tuf									•											
6125	443.00	446.00	54.44	18.23	2.92	7.83	3.40	0.46	9.84	0.27	0.70	.014	1	. 54	23	0.8	5	1	1	0.02	.005	98.11
Andes	ite crys	tal tuf																				
6126	454.15	454.63	56.60	19.09	6.10	2.24	4.11	1.74	6.90	0.18	0.53	.042	160	25	15	0.7	5	1	5	0.04	.008	97.58
Andes	ite dyke	(?)			L		· · · · · · · · · · · · · · · · · · ·	.		· · · · · · · · · · · · · · · · · · ·							•					
6127	483.89	484.52	47.81	18.73	12.03	3.49	3.13	0.08	10.91	0.30	1.05	.005	37	33	29	1.1	5	1	2	0.08	.005	97.62
Andes	ite feld	spar po	phyry d	lyke		4	 		<u> </u>													
6128	487.96	490.96	53.48	17.20	5.29	7.59	2.48	0.03	10.71	0.33	0.69	.005	514	66	26	0.8	10	1	1	0.03	.005	97.84
Andes	ite crys	tall tu	f	<u></u>		·									-	ن						
6129	501.00	504.00	64.41	15.33	0.51	5.42	2.53	2.28	6.99	0.50	0.50	.071	27	60	58	0.9	5 -	3	4	0.01	.005	98.17
Dacit	e pyriti	c ash		<u> </u>					A	-	•											
6130	511.15	514.15	52.49	16.06	0.96 1	10.25	2.62	0.17	14.39	0.64	0.64	.007	30	84	35	0.6	5	17	6	0.01	.005	97.87
Andes	ite - Da	cite tu	f			<u> </u>																
L			<i>II.</i>										мт	0		-				47		

Hole No	MTS-29	Entered by	Logged by	Page No47

ZIPPY PRINT ~ - BRIDGEPORT, RICHMOND

MAJOR OXIDES

TRACE ELEMENTS

																_						
SAMPLE NUMBER	FROM (10a)	T() (m)	SiO,	Al ₂ O ₄	CaO	MgO	Na ₂ O	K _i O '	FeO	MnO	TiO,	Ва	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	ppm As	ppm Sb	Sr%	Zr%	Total
6131	521.09	522.12	56.57	16.88	2.07	10.80	1.62	0.77	13.32	0.34	0.72	.024	44	169	35	1.0	5	3	3	.01	.005	97.70
Andesite	tuff																					
6132	528.50	531.50	76.07	17.40	0.99	8.65	3.59	0.49	9.75	0.24	0.71	.013	8	81	24	0.8	5	1	2	.02	.005	97.91
Andesite	tuff																					
6133	552.61	555.61	56.43	17.81	4.98	5.47	3.12	0.91	8.25	0.27	0.66	.018	21	51	23	0.8	10	1	2	.02	.005	98.06
Andesite	crystal	tuff																	-			
6134	564.00	567.00	55.89	12.21	0.12	2.99	0.77	2.97	2.76	0.07	0.18	.076	2	29	13	0.5	5	1	3	.01_	.005	98.22
Rhyodaci	te (Flow	?)																				
6135	589.00	592.00	57.94	18.06	1.11	8.48	2.33	1.67	8.95	0.26	0.70	.037	6	62	24	0.7	5	1	1	.02	.005	98.05
Andeiste	- Dacit	e tuff																				
6136	605.31	607.31	66.73	18.46	0.94	8.79	3.58	1.11	8.25	0.25	0.70	.024	53	62	19	0.5	10	1	1	.01	.005	98.02
Andesite	- dacit	e tuff		1	<u> </u>			<u> </u>	•						<u> </u>							
6138	616.79	618.60	66.73	14.86	0.65	4.69	3.20	1.55	5.91	0.16	đ.35	.040	8	· 47	20	0.5	5	7 ·	5	.01	.005	98.15
Dacite to	ıff.	<u></u> ∍ 51.555,7			<u></u>	<u></u>		<u> </u>			<u></u>											
6137	619.03	621.40	57.94	18.69	0.62	7.73	3.57	1.63	6.93	0.24	0.71	.044	2	62	22	0.6	5	1	1	.02	.005	98.11
Dacite -	Andesit	e tuff		<u> </u>		<u> </u>			}		•					j						
6139	627.00	630.00	69.75	15.20	0.43	2.84	3.88	2.04	3.54	0.09	0.30	.061	5	27	12	0.5	5	1	4	.01	.005	98.13
Rhyodacit	e flow(?)		<u> </u>	· · · · · · · · · · · · · · · · · · ·			<u>*</u>	•		•											
6140	632.00	635.00	69.71	15.15	0.38	3.39	3.22	2.36	3.51	0.08	0.29	.072	4	29	12	0.4	10	1	4	.01	.005	98.19
Rhyodacit	:e	·																				
					0.87								W T	Grav						/, Ω		

Hole NoMTS	-29	Entered by	Logged by	M. J. Gray	Page No	48
------------	-----	------------	-----------	------------	---------	----

ZIPPY PRINT + - BRIDGEPORT, RICHMOND

MAJOR OXIDES

TRACE ELEMENTS

							OR OVID						•	NACE E		•						
SAMPLE NUMBER	FROM (M)	TO (M)	SiO ₂	Al _t O _t	CaO	MgO	Na₁O	K₂O	FeO	MnO	TiO,	Ba	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	As ppm	Sb ppm	Sr%	Zr%	Total
6141	652.84	655.27	68.45	15.07	0.70	3.99	3.85	1.63	4.07	0.13	0.31	.064	19	27	10	.4	5	1	3	.01	.005	98.29
Rhyoda	cite flo	w(?)																				
6142	658.21	661.21	55.90	17.16	1.11	10.13	3.44	0.29	9.09	0.32	0.60	.012	20	84	28	.7	5	1	1	.02	.005	98.07
Dacite	-Rhyolit	e Tuff																				
6143	669.00	671.30	66.98	13.02	0.54	4.08	3.17	1.29	8.55	0.09	0.25	.047	9	31	21	.9	10	20	10	.01	.005	98.03
Dacite	flow(?)																					
6144	687.00	690.00	56.93	17.33	2.48	7.99	2.75	0.88	8.77	0.25	0.59	.030	3	44	25	.8	5	1	1	.02	.005	98.02
Dacite	tuff																					
6145	691729	692.51	55.85	16.16	5.07	7.48	1.74	0.44	10.09	0.28	0.55	.015	2062	48	11	1.6	5	8	2	.02	.005	97.69
Dacite-	-Andesit	e tuff														-						
																					1	
	·	1		<u> </u>	· * ···································				<u> </u>	 				•							•	
6301	202.00	204.00	49.88	13.57	8.58	5.24	2.12	0.23	14.66	0.30	2.77	.008	178	33	14	1.2	5	1	9	.03	.012	97.41
	<u></u>	4			· <u>L</u>																	
		<u> </u>		.L	<u></u>				•	•												
· · · · ·					. I			<u></u>		•				*		•						
		L		-l		<u> </u>					•			-								
													<u> </u>							/ 0		

Hole No	Entered by	Logged byM. J. Gray	Page No49
---------	------------	---------------------	-----------

. ZIPPY PRINT * - BRIDGEPORT, RICHMOND

ASSAY SHEET

Sample Number	From (m_)	To (m.)	Esti Cu	mate Zn	Length (m)	º₀ Cu	⁰₀ Zn	% Pb	gm:T Ag	ppb _{Au}	9.6 S1O2	°, T1 O 2	% Na2O	o°, MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	ppb Pt	ppb P1	
6301		204.00			2.00																		
6302	531.11	531.36			0.25	.370	.01		2.0	10													
6303	563.24	563.44			0.20	.184	.01		0.8	5													
6304						.008	.01		0.7	10									-				
																	·						
																		•					
																		!					
																į							

			—								<u> </u>	1	 	 		 			
															-				
																_			
HOLE NO	MTS-29																PAGE	50	
ZIPPY PRINT	PPY PRINT A DISCUSSION RICHMOND																		

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

X METRIC UNITS

HOLE NUMBER • MTS-30	GRID CFC		FIELD COORDS	LAT. 7+24S	0+09E	ELEV. 499m.	COLLAR BRNG.	010°	COLLAR DIP -75	HOLE SIZE	NQ FINA	
PROJECT PN 305	CLAIM#		SURVEY COORDS				DATE STARTED: DATE COMPLET	Feb 17/87 ED: Mar 1/87	CONTRACTOR: CORE STORAGE	F. Boisvenu Duncan	CASING: 5	.79m.
PURPOSE					······································	<u>, L</u>			_ <u></u>	T	LOG	PULSE EM SURVEY
Test the My	ra/Nitinat cont	act stratigrap	hically be	low the Ty	ee Mine					COLLAR SUI		MULTISHOT SURVEY
	ACID T					TROPARI TESTS	3		М	JLTISHOT DATA		
DEPTH(mg.)	CORRECTED ANGLE	DEPTH (m)	CORRECTE ANGLE	ED .	DEPTH(m)	AZIMUTH	DIP	DEPTH (J	AZIMUTH	DIP	
30.48	76 ⁰	457.20	74 ⁰		014.5 -	344 ⁰	76 ⁰					
60.96	76 ⁰	487.68	74 ⁰								J	
91.44	76 ⁰	518.16	74-7	′5°								
121.92	76-75 ⁰	548.64	74 ⁰									
152.40	77°	579.12	75 ⁰									
182.88	75 ⁰	609.60	74 ⁰									
213.36	76 ⁰											
243.84	76-77 ⁰											
274.32	75 [°]											
304.80	75-76 ⁰											····
335.28	75 ⁰										<u> </u>	
365.76	75 ⁰											
396.24	74-75 ⁰											
426.72	74-75 ⁰									····		
							<u> </u>	Т				

HOLE NO	MTS-30
ZIPPY PRINT	1 - BRIDGEPORT, RICHMOND

LOGGED BY _____M. J. Gray

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
0 to 3.05	CASING					
3.05 to 139.59	DIORITE, MINOR DIORITE- GABBRO DYKES	Colour - dark green + white. Grain Size - coarse-medium-fine. Massive diorite, varies from coarse grained - medium grained. Plagioclase tabular in coarse grained diorite, some glomerocrysts. FP 1-20mm (avg. 1-2mm) 50% weakly porphyritic. Locally 1-2% Fp mega phenos 20mm. Crosscut by fine-medium grained gabbroic(?) dykes.		Tr chl, dissem. hem. grains up to 5% + fractures. Very well local wispy Ep veins C/A 45. Weak-moderate calc. 1-2mm thick veinlets throughout C/A 45. Qtz +/- Ep +/- py veins 1-10mm thick 10-20. Py up to 3% in veins.	No visible sulphides - tr py. Locally up to 3% py in qtz veins.	Poss. dacite- andesite Fp crystal tuff at 4.23 - 4.53m.
		3.05 - 4.23: Coarse grained diorite, 1% mega Fp phenocrysts. 4.23 - 4.53: Dacite-andesite crystal tuff?, poss. not in right place.				Poor recovery at start of interval.
		4.53 - 6.71: Coarse grained diorite, 1% mega Fp phenocyrsts.				Note 5-10% leucoxene in dykes; light brown-orange.
		6.71 - 7.13: Gabbro(?) medium grained dyke - fine grained. 7.13 - 10.17: Medium-coarse grained diorite.	Bot ctc 30			Litho BCD #6176 7.13 – 10.13m.
		10.17 - 11.58: Gabbro(?) medium-fine grained dyke, dark green, similar to previous dyke.	Top ctc 20			د

<u>com</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
		11.58 - 13.63: Medium-coarse grained diorite. 13.63 - 14.44: Gabbro(?) dyke similar to previous dykes. 14.44 - 16.06: Medium-coarse grained diorite. 16.06 - 16.62: Gabbro dyke? Strong	Top ctc 75		15.00m <1% cpy in qtz-chl 5mm vein.	Strong irregular calc veins.
		 intense calcite veins. 16.62 - 21.70: Medium-coarse grained diorite, note Ep veins + calc +/- hem veins. 				Note brown- bright metallic hem fract. coatings.
		21.70 - 23.22: Vein zone in diorite, obscures diorite textures. 23.22 - 24.19: Medium grained diorite with light grey aphanitic dyke(?) or vein @ 5 C/A. 24.19 - 24.54: Gabbro dyke(?) with coarse grained tan leucoxene. 24.54 - 26.82: Medium grained		Cal, qtz, hem veins.		10% leucoxene crystals.
		diorite cross-cut by weak 1-3cm Ep veins + moderate calc veinlets, + wispy Ep along fractures. 26.82 - 28.25: Medium-coarse grained diorite.				2-3% hem.
		28.25 - 28.52: Sp porphyry diorite(?) dyke, medium green. 28.52 - 29.90: Medium-coarse grained diorite. Qtz-chl vein @ 10.	Top ctc 45			
		29.90 - 30.25: Grabbro(?) dyke 5% streaked out leucoxene. Fine-medium grained. 30.25 - 32.16: Medium-coarse grained diorite, weakly porphyritic. Ep veins @ 90 crosscut by Qtz @ 5.	Fol'n? 45	•• •		
		32.16 - 34.64: Sheared & brecciated diorite, poss. gabbro dyke now bleached.	Shear/ Fol'n 35-60	Strong - intense calc. veins.		

<u>From</u> <u>To</u>	<u>Rock Type</u>	Texture and Structure	<u>Angle to</u> Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
		34.64 - 36.71: Medium-coarse grained diorite, variably veined and sheared locally.				
		36.71 - 36.81: Gabbroic(?) dyke, similar to previous.	Top ctc 45 Bot ctc 45			
		36.81 - 38.30: Medium grained diorite, tr Ep/chl.		,		
		38.30 - 38.60: Sheared, strongly, diorite. 38.60 - 43.20: Medium grained	Shear 55			
		diorite, with wispy Ep veins @ 70-90 C/A.				
		43.20 - 44.40: Sheared diorite - grabbro(?). Poss. dyke fine-medium grained, leucoxene streaked out. 44.40 - 46.63: Dark green sheared				
		dyke - gabbroic(?) 5% streaky leucoxene grains.				
		46.63 - 51.54: Medium-coarse grained diorite mottled by wispy irregular Ep veins, locally strongly				
		sheared. 51.54 - 51.91: Gabbroic(?) dark green dyke with large irregular	Topicto 20?			
		calcite vein.	Bot ctc 70			
		51.91 - 55.20: Medium-coarse grained diorite, locally sheared. 56.20 - 57.55: Strongly sheared				٤
		diorite medium-coarse, Ep wispy veins along shear at 50-80 C/A. 57.55 - 59.02: Bleached? fine				
		grained sheared diorite. 59.02 - 59.74: Leucocratic grey-white medium grained diorite.				Top ctc fault gouge over 2cm @
		59.74 - 60.86: Dark green very fine grained diorite - gabbro dyke with				60 C/A.

hybridized zone gradation lower

ctc.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure .	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
		60.86 - 65.65: Leuco-melanocratic coarse - medium grained diorite, Plag50%. 65.65 - 66.03: Dark grey-green fine-medium grained dyke, diorite(?). 5% leucoxene grains 1-2mm. 66.03 - 67.05: Coarse grained diorite. Moderate 1-2mm qtz veins. 67.05 - 68.36: Otz stockwork in	Up Ctc irreg. 45–60	Stockwork 1-2mm atz veins	1-2% py. 3-10% py (avg. 5%) as	Litho: BCD #6177
		medium grained diorite medium grey - pale green. 68.36 - 69.15: Medium-coarse grained diorite with moderate- strong 1-2mm qtz veins +/- py.		with bleaching. Moderate-strong qtz.	discont. stringers + patches. Tr cpy. 2-5% py, similar to above - tr cpy.	67.05 - 68.36m
		69.15 - 70.94: Qtz stockwork/sheared in medium grained diorite.	Bot ctc 30 Fol'n 60	Qtz stockwork.	1-8% py, 5-8% py in stockwork - vein & tr. cpy.	Note streaky leucoxene along foliation/shear.
		70.94 - 74.53: Coarse grained melanocratic diorite.		Local marrow medium grey qtz-stockwork + qtz vein with Ep envelopes.	Locally 1-2%.	
		74.53 - 75.65: Qtz stockwork - flood in medium-coarse diorite, (Similar to previous). 75.65 - 84.76: Coarse grained diorite, 1-3% mega Fp crystals 2 X 5mm to 3 X 12mm.	Top ctc 35?	Stockwork qtz.	5-10% py irregular discon. stringers & patches.	
		84.75 - 84.99: Medium grey sheared medium grained diorite. 84.99 - 87.13: Coarse grained weakly porphyritic (Fp) diorite 2-3% Fp phenocrysts.	Shear 35	Strong atz 1mm veins.	1% ру.	s

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
		87.13 - 89.32: Medium - dark green diorite, medium-coarse grained with weak qtz stockwork? 89.32 - 90.15: Coarse grained diorite weakly porphyritic.		Very weak chl, weak qtz stockwork? White lcm qtz-calc veins.	2-5% dissem.py	
		90.15 - 90.90: Medium grey, medium grained(?) diorite dyke. Poss. silicified. 90.90 - 92.39: Coarse grained Fp porphyry diorite. 92.39 - 93.03: Diorite(?) dyke, same as above 90.15 - 90.90.	Top ctc 25	Silicified(?) cross-cut by moderate qtz +/- calc. veins.		5% 1+2mm leucoxene grains.
		93.03 - 97.20: Coarse grained	Bot ctc 40			
		weakly Fp porphyritic diorite. 97.20 - 98.29: Diorite(?) dyke, same as above dykes. Medium grained dark green-grey. 98.22 - 100.20: Medium-coarse				5% leucoxene 1mm grains.
		grained equigranular diorite, 35% Fp. 65% mafics. 100.20 - 100.44: Dark grey-green diorite dyke, same as above dykes.	Bot ctc 40			
		100.44 - 101.42: Fp porphyry diorite. 15-25% Fp phenos, 1-4mm Avg. 2mm. Tabular and lath shapes. Groundmass is fine grained Fp + mafics. Medium-dark green + white				
		colour. 101.42 - 101.67: Diorite dyke, similar to above. 101.67 - 102.65: Fp porphyry diorite.				. 4
		102.65 - 103.19: Diorite(?) dyke, same as above. 103.19 - 106.52: Fp porphyry diorite, weak - moderate calc				

veins.

From	Rock Type	Texture and Structure	Angle to	<u>Alteration</u>	<u>Sulphides</u>	Remarks
To			<u>Core Axis</u>			

106.52 - 107.60: Medium grained diorite(?) dyke, same as above. 107.60 - 108.15: Fp porphyry diorite. 108.15 - 108.75: Fp porphyry diorite cross-cut by Ep +/- qtz veins (35 C/A) 108.75 - 122.84: Fp porphyry diorite, homogeneous. 122.84 - 123.34: Fine grained diorite dyke, medium grey-green. 123.34 - 126.65: Fp porphyry diorite, includes 1cm fine-aphanitic andesite dyke. 126.65 - 127.10: Medium grained Fp porphyry diorite mottled by Ep +/qtz veins. 127.10 - 128.91: Fp porphyry diorite, fine grained groundmass, 30% Fp.

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
		128.91 - 129.35: Fine grained dark green-grey diorite with 15cm qtz-epidote vein. 129.35 - 130.27: Weakly feldspar porphyritic diorite. 1-2mm feldspars, groundmass - fine grained. 130.27 - 131.31: Fine grained diorite(?) dyke.	Top ctc 50 Bot ctc approx 70			
		131.31 - 133.17: Feldspar porphyritic diorite. Same as above. 133.17 - 136.39: Very fine grained diorite, part of chilled margin(?), local feldspar phenocrysts, & feldspar porphyritic diorite.	approx /u			
136.39 to 136.77	FAULT BRECCIA	136.39 - 136.77: Beige-grey -light brown-pur ple dyke breccia. Rhyolite irregular dyke, no phenocryst s, frags include diorite?, rhyolite, calcite veins? Dykes/vei n 1-5cm thick, frags <1mm - 2cm. Milled(?) Bleached upper & lower contact envelopes.	Top ctc 30-40 Bot ctc approx 30		Tr py.	Poss, dissem, fine grained hematite imparts purple colour in the diorite.
136.77 to 137.58	DIORITE	136.77 - 137.58: Fine grained diorite dyke, poss. same as above, fine chilled(?) diorite. Locally feldspar porphyriti c. 137.98 - 138.84: Feldspar porphyritic diorite.	Lower ctc 40			·
		138.84 - 139.59: Altered diorite, poss. dyke?, dull medium green-brown, fine-medium grained overprinted by epidote + chl/leucox(?) alteration.	Bot ctc 45 Fault? Note slicken- lines	Pervasive weak-moderate epidote-chlorite + wispy epidote stringer, also strong irregular calcite 2-3mm veinlets parallel to contact or shear.	At contact irregular discont. stringers py + cpy, 3-5% py, 1-2% cpy over 10cm.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
139.59 to 153.78	DACITE TO RHYODACITE FELDSPAR PORPHYRY +/- QTZ PORPHYRY FLOW	Colour - light grey, slight green. Grain Size - aphanitic groundmass, fine-medium crystals. Massive flow-banded(?) feldspar porphyry dacite + QFP porphyry rhyodacite - rhyolite. Homogeneous flow, (poss. crystal tuff??). Groundmass is aphanitic, light grey - silicified(?). Phenocryst content varies, but relatively uniform, qtz eyes 1-10%, avg. 5% ((1-1 mm), Fp crystals 3-15%, avg. 5-10% ((1-1 mm). Mafic chl 1-2% drawn out parallel to foliation. Qtz eyes are round shape. Probably rhyodacite composition overall. More Fp rich near top of interval.	Fol'n/F.B. 0-10 (0-30)	Local cloudy devitrivication patches. Tr - weak ser/chl, note chl as narrow 1-2mm envelopes with some py +/- qtz stringers. Chl also along fractures locally as irregular 1mm seams/stringers. Weak - very weak 1-10mm qtz veins, light grey - white +/- chl +/- py.	1-2% py fine grained dissem. throughout interval. Tr bleb cpy dissem. locally. Locally stringer py + chl +/- cpy veins (cpy as blebs). Stringer veins ie) 140.99: 1-2mm, py 2% cpy, 30-40 C/A 143.58: 1mm, py-chl, 5 C/A 145.51: 1mm, qtz-py-chl, patchy, 0-20 C/A 150.77: 1mm, py, irregular, 10-20 C/A	Note 1-3% dissem. Clmm leucoxene grains. Note Fp cloudy white, subhedral, but some euhedral noted. Litho BCD #6179 141.00 - 144.00m Note at 151.79 Cl-lcm thick andesite dyke 15 C/A dark green.
1 5 3.78 to 1 54. 54	FAULT (MINOR GOUGE)	Colour - light grey-green. Grain Size - aphanitic-fine. Sheared/gouge of above felsic flow. Note change of flow(?) composition across fault.	Top ctc approx 20 Interval ctc 25-45 Bot ctc 45	Strong ser + clay gouge in distinct plane 1-10mm thick, weak irregular calcite +/- qtz veins.	1-2% dissem. fine grained pyrite.	

<u>From</u> <u>To</u>	<u>Rock Type</u>	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
154.54 to 159.21	RHYOLITE QTZ PORPHYRY FLOW	Colour - light grey - white. Grain Size - aphanitic groundmass, fine-medium crystals. Relatively massive, very weak - weakly foliated rhyolite flow, with (1-2mm (avg. (1mm) qtz eyes 1-5% throughout. Qtz eyes round-lense shape, but vague light grey near aphyric flow(?) 1-2% very fine ((1mm feldspar crystals throughout. Lower contact sheared V shape also fault with 2mm py-carbon seam.	Fol'n/FB 0-15 Top Fault 45 Bot ctc 35/V, Fault ctc 15	Weak - moderately sericitized. Late weak-moderate calcite(?) - qtz veinlets 2-10mm thick cross-cut sus stringers. 25-60 C/A Poss. white veinlets baritic(?). Local grey-white qtz veins up to 3cm thick.	Dominated by sph-cpy stringers, and py +/- cpy +/- sph +/- bar(?) stringers 1-5mm thick. Sus stringers are irregular (splays) orientations but generally parallel to foliation?FB(?). Also dissem. fine grained py throughout. 154.54 - 155.93: 2-5% py, dissem. + stringers. Stringer + qtz C/A 20-10 155.93 - 159.02: 1-5mm thick stringers spaced (5mm - 2cm apart, includes sph + py + cpy vein/stringers & py +/- cpy vein/stringer Overall 1% cpy, 2-3% sph, 3-5% py. C/A 0-10	White veinlets poss. barite? Note round - angular qtz eyes, suggest this is a crystal tuff? Assay BCD #6305 155.93 - 157.43m < .5% Cu, 2% Zn, 5% py Assay BCD #6306 157.43 - 158.00m .5% Cu, 2% Zn, 3-5% py. Assay BCD #6307 158.00 - 159.02m .5% Cu, 2% Zn, 25% py.
159.21 to 160.16	FAULT VEIN BRECCIA	Colour - light grey-green + white + medium green. Grain Size - aphanitic-fine matrix, (1-10mm fr. Fault infilled + silicified(?) with qtz veins, brecciated. Poss. a narrow fault/breccia 3-4cm 10% qtz frags 2-10mm 159.21 - 159.24m, with silicified vein zone from 159.24 - 160.16.	Top ctc Fault 15	Silicified/also white-grey qtz veins throughout, 2-20mm thick, with 1-2mm chl +/- epidote selvages 25-0 C/A. Fault plane coated with carbon & very fine grained pyrite, with slickenlines.	1-2% dissem. fine grained brassy pyrite. 2-3% very fine grained brown-grey py as selvages along qtz veins.	Rock unit brecciated/ altered is deeper unit (following unit). Due to composition and lack of Cu-Zn mineralization in breccia-fault.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
160.16 to 161.23	RHYODACITE FLOW (SIMILAR TO 139.59 - 159.21)	Colour - light grey-green hue. Grain Size - aphanitic-matrix, fine crystals. Massive rhyodacite flow very crude flow banding. 1-5% qtz eyes (<1-1 mm), 1-2% feldspar phenos (<1 mm).	Fol'n 0–20 Lower ctc 10–15	Silicified patchy devitrification. Weak sericitization. Local weak/moderate ser.	1-3% dissem.f.g. + discont.stringer py.	3-5% (1mm leucoxene dissem.
161.23 to 161.38	DACITE- ANDESITE TUFF - CRYSTAL TUFF(?) (POSS. DYKE?)	Colour - medium grey - slight brown. Grain Size - fine-aphanitic. Weakly foliated dacite-andesite(?) tuff has streaky texture due to drawn out mafic crystal, 5% (<1 mm leucoxene dissem. throughout.	Upper ctc sharp 15 Fol'n 20	Moderate-strong chi +/- ser.	1-2% py.	Crystal tuff? Note internal slicken sides?
161.88 to 162.60	FAULT- VEIN/ BRECCIA	Colour - medium grey + white + light grey. Fault - vein-breccia in above intermed. tuff. Tuff is moderate-strongly sericitized, rest is breccia-qtz vein with lower ctc qtz vein. Qtz frags 3mm-20mm incorp. into tuff.	Top ctc 10-45 Bot ctc 25	Qtz vein + brecciation. Moderate-strong ser. of tuff.	2-3% dissem. py. Note: local sph fine grained patches at 162.50 (lower ctc), up to 5% over 10-15cm.	Sharp lower ctc Mud-py seam on qtz vein. Assay BCD #6308 161.88 - 162.60m .5% Zn, 3% py.
162.50 to 166.69	RHYODACITE FLOW	Colour - light-medium grey - slightly green. Grain Size - aphanitic matrix, fine crystals. Massive, very weakly foliated, rhyodacite flow(?), note crude flow banding. Qtz eyes 5% (1-2mm (avg. (1mm) round. Mottled texture due to silicification.	Fol'n/FB 0-10	Silicified devitrification patches throughout, relatively pervasive. Local very weak ser +/- chl. Very weak qtz veins 2-30mm thick, 0-10 C/A, cross-cut by 3mm moderate-strong local calc gashes 60-90 C/A.	Trace - 1% fine grained dissem. py.	1-2% <<1mm leucoxene throughout. Litho BCD #6180 162.75 - 165.75m.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
166.69 to 167.85	DACITE- ANDESITE TUFF(?) (POSS. SHEARED DYKE)	Colour - medium-dark green-grey. Grain Size - aphanitic-fine. Similar to 161.23 - 163.28. Dacite-andesite tuff(?) or dyke(?). Locally sheared, note slickenlines. Bot ctc strongly sheared. Locally brecciated.	Fol'n 0-10 Top ctc 15 Bot ctc 35	Moderate-strong chl/ser pervasive. Weak-moderate qtz veins +/- calc 1-10mm thick. Late moderate gashlike irregular calc veins (1-2mm thick.	2-3% dissem. fine grained pyrite throughout.	Very blocky in this interval. Litho BCD #6181 166.79 - 167.85m
167.85 to 169.32	RHYODACITE FLOW	Colour - light-medium grey - slightly green. Grain Size - aphanitic groundmass, fine crystals. Weakly foliated rhyodacite flow. 2-5% (1-1mm qtz eyes, round. Flow cross-cut by grey-brown irregular dykes(?) C/A 0-15 or frags of tuff.	Fol'n 10	Very weak - weak sericitization. Locally silicified(?) - devitrification patches). Weak calc 1-2mm veins.	2-3% fine grained dissem. pyrite throughout.	
169.32 to 169.40	FAULT/ SHEAR	Colour - light green-grey. Grain Size - fine. Narrow fault/shear in rhyodacite tuff(?). Milled up tuff + gouge.	Top ctc 30 Bot ctc 40-45	Ser - clay gouge infilled by 2-3mm calc +/- qtz veins.	1-2% dissem.py.	
169.40 to 172.37	RHYODACITE FLOW (POSS. CRYSTAL TUFF)	Colour - light-medium grey - slightly green. Grain Size - aphanitic matrix, fine crystals. Same as above rhyodacite flow. Cross-cut by grey-brown dyke(?). Note: Qtz eyes up to 4mm. Shearing + insitu breccia prominent towards end of interval.	Fol'n 10-25	Very weak - weak sericitization. (Silicified(?) devit. patches). Weak calc 1-2mm veins. Weak qtz vein irregular i.e. @ 171.52. Qtz + ch1 + bright green mica (Ni or Cr Mica?) C/A 25.	1-2% dissem. py.	Note: Conspicuous cloudy patches/lenses silica.

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
172.37 to 172.35	FAULT/ SHEAR	Colour - very light grey/green. Grain Size - fine matrix, (1-10mm frags. Strongly sheared/milled felsic volc. or above, top ctc milled with clay seams. Shearing decreases intensity last half of interval. Lower contact is lithological not fault, although sheared.	Тор 20-25	Moderate—intense ser. Local clay seams - grey.	5% very fine grained dissem. + discont. (1mm py stringers.	
172.85 to 185.12	RHYOLITE QP FLOW	Colour - very light grey-white. Grain Size - aphanitic groundmass, fine-medium crystals. Massive, weakly foliated. Qtz porphyry rhyolite flow. Qtz eyes (<1-2mm, avg. (1-1mm, 3-8% avg. 5% throughout. Crude - good flow banding visable. FP phenocyrsts 1-5% (1mm.	Fol'n/FB 0-15	Very weak - weak ser. (Poss. silicified, devitrification) Local calcite veins.	2-3% fine grained dissem. Py throughout, also stringers (1-3mm irregular, 0-30 C/A of py-sph +/- cpy +/- qtz. 172.85-176.17: 2-3% dissem. Py, local 5-8% stringer py. 176.17-177.24: Stringer, 2-3% sph, 2-3% py. 177.24-183.55: Str. 2-8% py, (1-1% sph, tr cpy. 183.55-184.52: Str. + pat. 2-3 sph, 2-3% py. 184.52-185.12: Str. (1% sph, 2% py.	Litho BCD #6182 173.80 - 176.80m. Assay BCD #6309 176.17 - 177.24m. 1-2% Zn, 2-3% py. Assay BCD #6310 177.24 - 178.74m. (1% Zn, <(1% Cu, 2-8% py. Assay BCD #6311 178.74 - 180.24m. As above. Assay BCD #6312 180.24 - 181.74m As above Assay BCD #6313 181.74 - 183.55m As above Assay BCD #6314 183.55 - 184.52m 1-2% Zn, 2-3% py. Assay BCD #6315 184.52 - 185.12m (.5% Zn, 2% py.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
185.12 to 189.46	QTZ VEIN/ BRECCIA SHEAR (IN ABOVE RHYOLITE) -FAULT-	Colour - white + light grey + slightly green. Grain Size - fine - aphanitic, frags (1-30mm. Massive qtz, with seams of ser which form matrix of insitu breccia, also rotated milled breccia. Vein cross-cuts rhyolite.	Top ct: 10 Interal shear 10-45 Bot ctc 20	Massive qtz vein with shears/breccia and strong sericite. C/A 0-50. Weak - very weak ser pervasive in rhyolite.	3% pyrite dissem. + discont. stringers throughout. Tr - 1% black sph with ser also in qtz veins as irregular patches/ selvage. Tr local cpy as blebs.	Sheared + brecciated but does not appear to have a great deal of movement in zone. Assay BCD #6316 187.96 - 189.46m .5% Zn, Tr Cu, 3% py.
189.46 to 206.85	RHYODACITE QP FLOW(?) (POSS. CRYSTAL TUFF)	Colour - light grey-white. Grain Size - aphanitic groundmass/ matrix, fine crystals. Similar to above rhyolite, QP, but flow banding(?) very crude. (Poss. a crystal tuff(?)). Very homogeneous. 3-10% (avg. 5%) (1mm qtz eyes round. Tr - 5% FP (avg. 1-2%), (1mm. Locally sheared over narrow sections.	Fol'n/FB? 0-15 Top ctc 20 Bot ctc 25?	Very weak - weak sericitization. Very weak - weak calcite 2mm veinlets. Local silicified devitrification patches.	2-3% dissem. py throughout, rare stringers. Note: Tr sph - (1% @ 195.50 - 196.05m	Litho BCD #6183 198.70 - 201.70m 1-5% leucoxene (1mm grains.
205.85 to 218.85	ANDESITE/ ANDESITE- DACITE CRYSTAL TUFF	Colour - medium-dark green/grey. Grain Size - very fine-medium. Massive, weak - very weakly foliated crystal tuff. Range andesite- andesite/dacite composition. 2%, 2-3mm qtz eyes, 40% <1-2mm FP phenocrysts, 58% matrix fine-grained chloritic. Last 3m interval is ash rich crystal tuff.	Top ctc 25? Bot ctc ? Fol'n 10-20	Weak/moderate ch1 +/- ser. Locally (210.70 - 211.00) weak sel. epidote 2-3%. Also 216.25 - 217.50: 5-10% Ep. Local qtz + py veins/ stringers.	3-5% fine-medium grained pyrite dissem. + patches, also locally up to 25% in stringers +/- qtz i.e.) 207.15: lcm, py blebs, 5 C/A 210.15: 3mm, py, 15 C/A 212.87: 15cm, py/ 2-3% cpy, 40 C/A 214.47: 3mm, py, 70 C/A	Litho BCD #6184 211.00 - 214.00m Note poss. py frags(?). 211.20 minor internal fault with 3mm thick gouge 20 C/A Litho BCD #6185 212.90 - 213.16m

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
218.85 to 227.99	ANDESITE & ANDESITE/ DACITE & DACITE/ ANDESITE TUFFS	Colour - dark-medium green. Grain Size - very fine - fine. Massive ash tuff, minor crystal tuff andesite - dacite/andesite composition, moderately-strongly foliated.		Moderate - strong ch1 +/- ser.	Variable 3-15% py, local cpy, sph.	
	MINOR CRYSTAL TUFF	218.85 - 220.10: Andesite tuff - crystal tuff, relatively homogeneous.	Fo1'n 10-45	Moderate/moderate-strong chl. Very weak sel saus. of Fp (3%).	3% fine grained dissem. py.	
		220.10 - 221.80: Andesite-dacite fine ash tuff, light-medium green.	Fol'n 5-15	Moderate chl +/- ser. No epidote.	3% fine grained dissem. py. Locally 1-2mm str. py. parallel to fol'n.	
		221.80 - 222.70: Bleached andesite-dacite fine tuff, to fine crystal tuff. Pale light green. Note poss. frags? (or silicified patches).	Fol'n 0-10	Moderate chl +/- ser, moderately bleached. Moderate qtz veins +/- silicification 3-5mm thick with sus. veins 0-45 C/A.	5-15% dissem. + stringer fine grained py. (1% cpy as blebs. (1-1% brown-purple sph patchey with qtz. Note blueish metallic mineral, moly(?) (AJD).	Assay BCD #6316 221.80 - 222.70m (sawn) 9% py, <.5 Cu.
		222.70 - 225.35: Medium-light green andesite-dacite fine tuff. 1-2% 2mm qtz eyes.	Fol'n 0-15	Moderate chloritization +/- ser. Very weak sel. epidotization throughout. Local qtz-calc vein 5 C/A.	5% very fine grained dissem. py, tr cpy blebs.	Litho BCD #6136 222.70 - 225.36m.
		225.36 - 227.99: Dacite-andesite fine tuff. Similar to above, light-medium green.	0-20	Moderately bleached, moderate chl +/- ser.	3% py very fine grained disseminations + loc. str. 2-3mm thick @ 30 C/A.	Poss. bleached andesite.
227.99 to 230.92	FAULT/ SHEAR ZONE	Moderately foliated dacite— andesite tuffs similar to above. Cross-cut by numerous intermittent narrow faults/shears. i.e.) 227.99 - 5mm, clay-ser. 228.29 + 6cm, chl-ser. 228.74 - 10cm, clay, chl-ser. 228.98 - 5mm, clay, 45 C/A. 230.92 - 5mm, clay, 20 C/A.	Top ctc 20 Bot ctc 20 Internal shear 45	Moderate-strong chl +/- ser throughout. Local clay gouge on fault planes. Local qtz + py + cpy veins (brecciated?).	5% very fine grained dissem. py throughout. Also str. py with qtz veins +/- 1% cpy. i.e.) 229.84 - 230.24 8% py dissem., blebs, str., 1-2% cpy irreg. blebs.	Litho BCD #6187 229.84 - 230.24m.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
230.92 to 237.58	DACITE- ANDESITE TUFF	Colour - medium-light green. Grain Size - fine. Massive, moderately foliated homogeneous dacite-andesite tuff. Similar to previous section. Minor shear @ 237.58m., 235.24m. 3% 1-2mm qtz eyes locally.	Fol'n 0-30 Bot ctc 20	Moderate chl +/- ser. Locally weak (236.75 - 237.58).	3-5% py fine grained dissem. throughout. Locally str. discont. py 1-5mm thick with tr - <1% cpy.	Note py locally as round blebs, poss. frags?
237.58 to 241.57	DACITE CRYSTAL ASH TUFF (LOCALLY LAPILLI FRAGS)	Colour - light-pale green-grey. Grain Size - aphanitic-fine groundmass, ine-very coarse crystals, frags(?). Massive locally crudely layered(?), weakly foliated dacite crystal tuff/ash tuff. 1-5% 1mm Fp phenos, very weak saussuritized. Very fine grained - aphanitic matrix. 1-3% (1mm qtz eyes, round. Felsic lapilli tuff layer at 239.63 - 239.73. 20% felsic frags 2-8mm drawn out parallel to foliation. Shear @ 239.90m.	Top crc 20 Fol'n 0-45 Layering? 40-45	Tr - weak ser, tr chl. Silicified locally?, poss. devitrification? Chl as envlopes with py stringers. Sel. very weak saussuritization of some Fp phenocrysts (plag.).	1-3% dissem. fine grained pyrite throughout. Overall 3-8% py dissem. + stringers. Str. 1-3mm thick py +/- cpy Generally parallel to foliation, avg. 1 per 20cm C/A 0-20 & 70. C/A 70 are py -cpy str.? parallel to lapilli tuff band.	Assay BCD #6317 237.86 - 239.11m 5-8% py, 1-2% cpy Assay BCD #6318 239.11 - 240.29m 5-8% py, 1-2% cpy Litho BCD #6188 240.29 - 241.49 1% cpy
242.27 to 242.42	DIORITE DYKE	Colour - pale green-beige. Grain Size - very fine - fine. Massive diorite dyke, weakly Fp porphyritic. Sharp contacts.	Top ctc 45 Bot ctc 40	Moderately bleached. Moderate -strong calc 2mm veinlets.	5% dissem. fine grained pyrite.	

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
242.42 to 253.46	DACITE CRYSTAL- ASH TUFF (SIMILAR TO ABOVE), TO DACITE- ANDESITE TUFF. LOCAL LAPILLI FRAGS.	Colour - very light green-grey to whitish green-grey. Grain Size - aphanitic - very fine grained matrix. Crudely, locally poorly layered dacite tuff - crystal tuff, minor lapilli size frags locally. Varies from dacite/dacite-andesite composition similar to above dacite crystal tuff - ash tuff. Note poss. folds at 246.15m.	Fol'n 20 (variable) Layering ?60	Very weak - moderate ser +/- chl. i.e.) moderate chl/ser 246.18 - 246.48. Mainly very weak - weak sericitization. Silicified? Cloudy white patches throughout.	Py in stringers/veins 1mm - 40cm thick +/- qtz +/- cpy +/- chl. Py in large stringers is massive, in quartz +/- calc gange. Overall 3-10% py, Tr - 2% cpy. Stringer Q 242.69: 2mm, py-cpy, irregular C/A -20 243.00: 1-2mm py, irregular C/A 80 243.18: 2mm, cpy-py, C/A 40 243.25: 2mm, py-cpy, C/A 5 243.59: 1mm, py-cpy, C/A 10 244.44: 4mm, py-cpy, C/A 80 244.54: 10mm, qtz-cpy-py, C/A 15 245.30: 5mm, py-chl-qtz-cpy, C/A 0-5 245.67: 2cm, qtz-py, C/A 80 245.81: 2mm, cpy-py, C/A 85 245.95: 2mm, py-cpy, C/A 45 245.95: 2mm, py-cpy, C/A 45 246.15: 1cm, py-chl-cpy C/A 65	Assay BCD #6319 244.24 - 245.14m 5-8% py, 2% cpy Assay BCD #6320 245.14 - 245.99m 5-10% py, 1% cpy Minor shear/fault @ 242,81, 248.67, 248.44. Litho BCD #6189 249.97 - 250.30m Litho BCD #6190 251.18 - 251.50m

From To	Rock Type	<u>Texture and Structure</u>	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
255.32 to 264.72	ANDESITE- DACITE TUFF, MINOR CRYSTAL TUFF	Colour - light-medium grey/green. Grain Size - very fine - fine-medium. Massive - crudely layered, weak-moderately foliated, andesite-dacite tuff, minor crystal tuff (or coarse ash. Varies in colour (& composition?) from light green/grey through medium grey/green. Locally crystal tuff with 5% (1mm Fp.	Fol'n 60-80 (to 259.00) 40-15 (to end) Layering parallel to fol'n? (at 257- 258m) 60-80	Moderate-weak chl +/- ser (mainly moderate). Weak qtz +/- py +/- chl +/- cpy stringers in top 5m of interval. Very weak 1cm thick milky white quartz veins. Shear at 263.75m.	Py as stringers 1mm - 30cm thick parallel to foliation & as disseminations. 3-10% py, locally tr - 2% cpy (avg. 5% py, tr cpy). Stringers py +/- qtz +/- chl +/- cpy @ 255.96: 2mm, py-cpy, 5 C/A 256.58: 4mm, py-cpy, 55 C/A 256.88: 5-10mm, py-cpy, 50 & 70 C/A 257.27-257.57: py-qtz- cpy, 60 Bot C/A, Top 70 C/A (40% py) 257.64: 2-3mm, cpy-py, 70 C/A, Boudined stringer? 257.93-258.47: 2-5mm, qtz-py-cpy, 55-60 C/A, Poss. parallel to layering? 258.86: 2mm, py, CA 35 259.80: 3mm, py-cpy-chl 35 C/A 263.55: 3-4mm, qtz-py- cpy, 5-10 C/A/	Litho BCD #6191 259.00 - 262.00m Assay BCD #6321 256.33 - 257.27m 5-8% py, 1% cpy Assay BCD #6322 257.27 - 258.42m 10% py, 1% cpy Note poss. py frag locally ie) 257.93.
264.72 to 265.88	ANDESITE TUFF CUT BY MINOR FAULTS	Colour - medium-dark green. Grain Size - fine. Massive, weak-moderately foliated, locally sheared andesite tuff. Gouge is light-pale green. Gouge/shear @ 265.13, 2cm, 5-20 C/A. 265.47, 1cm, C/A 10.	Fol'n 0-20	Moderate-strong chl throughout (strong chl in gouge). Tr - very weak irregular quartz veins.	3-5% dissem. fine grained py as grains + blebs.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	<u>Angle to</u> Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
					246.52: 5mm, py-chl, C/A 25 246.95: 2mm, py-chl-cpy C/A 45 247.48: 1-3mm, py-chl-cpy, C/A 35 & 5 248.87: 15mm, qtz-chl-py, C/A 30 249.79: 4mm, py, C/A 45 249.79: 33cm, py-qtz+/-chl, C/A 30 250.27: 3cm, py-qtz-ep, C/A 60-80 251.10: 42cm, py (50%)-qtz-chl, C/A 20-30, (50%) 252.24: 3mm, qtz-py, C/A 5 252.90: 1mm, py-cpy, C/A 5 253.23: 1-2mm, py-chl, C/A 10-15	
253.46 to 254.37	ANDESITE- DACITE TUFF	Colour - medium green-grey. Grain Size - fine. Massive, weak-moderately foliated andesite-dacite tuff. Relatively homogeneous.	Fol'n 5-10 Top ctc 30?	Weak - moderate ch1 +/- ser. pervasive.	5% fine grained pyrite dissem. grains & blebs.	Minor shear @ 253.71 m.
254.37 to 255.32	FAULT/ SHEAR	Colour - medium green-grey. Grain Size - fine-coarse. Fault plane is 4mm thick grey py-ser-chl seam with adjacent sheared margins. Fragments are 1-4mm. Elongate (rounded) parallel to shear.	Fault seam 0–5 Shear 5–10	Moderate-strong ch1+/- ser throughout.	3-5% fine grained dissem. py, (1% cpy blebs in disconnected stringers.	Minor py-chl.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	Sulphides	<u>Remarks</u>
265.88 to 266.25	FAULT- QTZ VEIN	Colour - white + dark green. Grain Size - fine. Massive milky white quartz vein with sheared/gouge-breccia margin at top & chl-qtz contact at bottom. Also internal chl-qtz gouge C/A approx. 40.	Top ctc 20-30 Bot ctc 25	Chl envelopes, chl/ser gouge, quartz vein.	2-3% very fine grained dissem.py. Tr cpy as blebs.	
266.25 to 270.32	ANDESITE/ ANDESITE- DACITE TUFF - CRYSTAL TUFF	Colour - medium green/grey. Grain Size - fine. Massive, moderately foliated andesite - andesite/dacite tuff, minor crystal tuff (269.02 - 270.32). Crystal tuff has 1% (1mm qtz eyes, 10% (<1mm Fp crystals.	Fol'n 15 (15-30)	Moderate/moderate-weak chlto approx.269.02m. Weak chl+/- ser to 270.32m.	Avg. 5% dissem. fine grained pyrite throughout, range 3-10%. Minor cpy in str. Local str. @ 268.43: 8mm, qtz-py (10%) -cpy, C/A 30 270.04: 1-2mm, cpy-py, irregular discon. C/A 60.	Litho BCD #6192 267.10 - 270.10m
270.32 to 270.62	FAULT~ SHEAR (MINOR)	Colour - light - pale green gouge. Medium-dark green tuff. Grain Size - fine. Fault gouge at top & bot contacts 5cm clay-chl-ser gouge-breccia, also weakly sheared and tuff.	Bot ctc 40 Bot ctc 20	Clay-chl-ser gouge. Weak - moderate chloritized tuff.	2-3% fine grained dissem. pyrite.	Prob. very little movement on fault.
270.62 to 272.76	FLOW-TOP BRECCIA- DACITE	Colour - pale grey-green. Grain Size - aphanitic-fine. Flow top breccia, bands of elongate vaguely outlined fragments(?) bands are medium-dark green silicified & light grey silicified matrix. Locally note bands are Fp porphyritic.	Fol'n 25-35	Trace - local weak ser/chl. Silicified matrix (mainly silicified).	5-8% py fine-medium grained dissem. in bands + thoughout. Minor 1mm py+chl str. C.A 30.	
272.76 to 273.41	ANDESITE- DACITE TUFF (SHEARED)	Colour - medium silvery green-grey. Grain Size - fine. Massive, strongly foliated/sheared fine andesite-dacite tuff. Top ctc is sharp discord. Interval strongly sheared, poss. faulted into a dacite flow-top breccia.	Top ctc 80 Bot ctc ? Shear 60	Moderate - strong chl +/- ser.	3% fine grained dissem. py.	

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
273.41 to 303.65	DACITE FLOW WITH FLOW-TOP BRECCIA	Colour - light grey-green with dark-medium green patches (frags). Grain Size - aphanitic groundmass & breccia matrix, fine-medium phenos. Massive, very weakly foliated dacite-rhyodacite flow with flow breccia. Crude flow banding(?) locally visible. Relatively		Silicified matrix of flow top breccia, patchy – pervasive. Devitrification silicification throughout.		
		homogeneous. 273.41 - 274.80: Flow-top breccia light grey/green to medium-dark green. Poss. frags are light grey with green chloritic matrix. Frags 4mm-3cm, elongate, parallel to foliation.	Fo1'n 25	Frags moderate-strong chl/ser. Matrix moderate ser + silicified.	3-5% py dissem. throughout. Locally cpy-py-chl stringer @ 274.08 - 274.13: 2cm, py-cpy (3-5% of interval), 70-80 C/A - irregular.	Assay BCD #6323 274.01 - 274.16m 9% py, 3% cpy.
		274.80 - 275.02: Shear-fault with ser-chl-clay gouge planes, light	Top/Bot approx 35	Weak-moderate ser +/- chl & strong clay-ser-chl in	3-5% dissem. fine grained pyrite.	
		green-grey. 275.02 - 279.92: Very light grey slightly green - light grey/green flow top breccia. Matrix is rhyodacite quartz porphyry patchey silicified. Frags are light-medium green vaguely outlined ser-chl elongate patches.	Fol'n 10-20	gouge planes. Silicified (devitrification patches). Moderate ser +/- chl in first m. of interval + fragments.	Tr 3% dissem. fine grained pyrite, Tr cpy locally. Note py stringer with tr cpy @ 279.20m: 3mm, py-cpy, 30 C/A.	Note 2-5% qtz eyes <1-2mm in quartz porphyry flow breccia "matrix".
		279.92 - 294.13: Dacite flow, very weakly foliated, patchy/cloudy devitrification texture throughout. 2-5% qtz eyes, mdedium grey, round (1-3mm, avg. 1-2mm. 2-3% ((1mm leucoxene(?) throughout. Fp phenocrysts(?) 1-3% (1mm vague outlines.	Fol'n/FB 10 (0-30)	Silicification- devitrification patches throughout. Very weak ser locally.	Range 1-5% py, avg. 3% fine grained dissem. Local stringers. Tr cpy. 279.92-284.00: 3-5% dissem. py 284.00-287.30: 1-2% dissem. py 287.30-289.30: 3-5% dissem. py 289.30-290.30: 1-2% dissem. py	Litho BCD #6193 279.92 - 282.92m.
					290.30-294.13: 3-5% dissem.py	· .
					Str. 1-2mm, py +/- cpy 0-20 C/A	

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
		294.13 - 294.78: Sheared dacite flow, poss. a fault. Minor ser-clay gouge along planes.	Top 20-30 15 Bot 5-10	Moderate-strong ser, minor clay on shear planes. Calc 1cm vein @ top ctc.	5% fine grained dissem. py.	
		294.78 - 300.33: Dacite-rhyolite crystal-ash tuff - silicified, or dacite flow.(devitrification-silicification). Light green & grey (grey is patchy). Relatively homogeneous.		Patchy - pervasive silicification (prob. devitrification). Tr - very weak ser/chl.	1-5% py fine grained dissem. 294.78-297.49: 3-5% py 297.49-298.29: 1-2% py 298.29-300.33: 3-5% py	Flow - very similar to above interval.
		300.33 - 300.53: Minor shears in above dacite flow(?)	35 & 60	Ser - clay on shears.	3-5% ру.	
		above darke Flow(:) 300.53 - 303.28: Light green-grey dacite crystal tuff? or flow. Very siliceous, but no patchy/cloudy silicification. 5% 1mm round looking Fp phenocrysts, appear to be localized. 1-3% (1-2mm grey qtz eyes, lense - round shape.	Fo1'n 40	Tr - very weak ser, tr chl silicified(?).	3-5% dissem. & str. py (1 str./40cm) str. up to 5mm thick 30-40 C/A.	Minor shears @ 301.73.
		303.28 - 303.65: Shear/fault in dacite, 2cm thick gouge. Very light - light grey/green.	Top 30 Bot 30	Ser - clay in ser - gouge.	5% fine grained dissem. py.	
303.65 to 309.48	DACITE TUFF/ CRYSTAL TUFF	Colour - light-medium grey - slightly green. Grain Size - very fine matrix, fine-medium crystals. Massive - crudely layered dacite	Fol'n 20-40 Layering 20?	Trace - weak ser. Silicified?	3-5% dissem.py grains & blebs.	Litho BCD #6194 306.75 - 309.30m. Minor shears @ 306.23 C/A 25
•		ash - crystal tuff. Layering locally as crude bands of Fp. 5-10% (2mm Fp. Tr - 2% (1mm qtz eyes.				304.83 C/A 30

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	<u>Angle to</u> Core Axis	Alteration	Sulphides	Remarks
309.48 to 309.63	DACITE- ANDESITE CRYSTAL TUFF	Colour - medium green - white. Grain Size - very fine matrix, medium crystals. Moderately foliated crystal tuff bed, 40% Plag. subr. Fp.	Top ctc/ layering 15 Fol'n 15	Weak - moderate ser +/- chl. Very weak epidote.	8% dissem. fine grained pyrite.	
309.63 to 311.50	DACITE TUFF/ CRYSTAL TUFF	Colour - light-medium grey - slightly green. Grain Size - very fine matrix, fine-medium crystals. Similar to above dacite tuff/ crystal tuff.		Trace - weak ser. Silicified.	3-5% dissem.py. Local str. @ 310.58 - 310.63m, py-qtz, C/A 30.	
311.58 to 311.78	QUARTZ VEIN/ SHEAR	Colour – white & light green. Grain Size – fine. Irregular massive white qtz vein with shear chl/ser contacts.	Tap 25 Bot 20	Quartz vein with sheared ser/chl margins.	3% fine grained dissem. py in ser/chl.	
311.78 to 312.38	DACITE TUFF - CRYSTAL TUFF	Colour - light grey with green hue. Grain Size - aphanitic - very fine matrix, fine - medium crystals. Similar to above dacite tuff - crystal tuff. Weakly brecciated.	Layering 35? Bot ctc 70	Weak ser locally, silicified(?).	3% fine grained dissem. py.	
312.38 to 313.02	DYKE OR DACITE- ANDESITE FELDSPAR CRYSTAL TUFF	Colour - medium brown-green. Grain Size - aphanitic-fine. Massive moderately foliated pyritic dacite-andesite dyke? Note sharp contact at top & fault seam (<.5cm) at bottom contact. Poss. a dacite-andesite crystal tuff locally sheared, textures largely destroyed.	Folin 0–45 Topictc 70 Bot Fault 30–35	Moderate-strong ser?, locally silicified. Irregular strong calcite vein stockwork throughout.	8=15% fine grained dissem. py +/- fine grained blebs.	Note upper ctc is sharp.

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
313.02 to 320.59	DACITE TUFF - CRYSTAL TUFF	Colour - light grey-green. Grain Size - aphanitic matrix, fine-medium crystals. Massive, weakly foliated dacite tuff - qtz eye crystal tuff. 3-5% 1 mm qtz eyes - round. 5-15% (1 mm feldspar crystals. Similar to above dacite tuff.	Fol'n 35-20	Weak locally moderate ser. Locally silicified(?) - patchy.	3-5% dissem. py, avg. 3% py. Minor qtz-py stringers.	Note sheared interval at 316.95-317.20m.
320.59 to 321.87	DYKE(?) OR ANDESITE- DACITE BLEACHED CRYSTAL TUFF	Colour - light-medium grown-green +/- white. Grain Size - aphanitic-fine matrix or groundmass, fine-medium crystals. Weak - moderately folidated feldspar porphyry andesite-dacite dyke or crystal tuff. Locally moderate-strongly sheared with pseudo breccia developed and healed by calcite. Note narrow sections 1-5cm. Light brown with bright green mineral parallel to foliation associated with qtz veins.	Folin 45 Top ctc ?10? Bot ctc ?25?	Locally moderate ser., locally silicified with cloudy white qtz veins. In unsilicified sections note stockwork calcite 2-3mm veins.	5-8% fine grained dissem. py throughout.	Note bright green Ni(?) mica drawn out parallel to foliation at 321.70: 2cm, 5% 321.32: 1cm, 5%
321.87 to 322.92	DACITE- RHYOLITE CRYSTAL TUFF	Colour - light grey - slightly green. Grain Size - aphanitic-very vein matrix, fine-coarse crystals. Massive, weak-moderately foliated dacite-rhyolite crystal tuff. 5% 1-2mm found qtz eyes, approx. 10% (1mm feldspar crystals.	Fol'n 35-40	Trace – very weak ser.	3% fine grained dissem. py.	Note pseudo breccia developed from calcite vein flood.
322.92 to 323.32	DYKE? OR ANDESITE- DACITE BLEACHED CRYSTAL TUFF	Colour - light-medium green-brown. Grain Size - aphanitic-fine matrix/ groundmass, fine-medium crystals. Weak - moderately foliated dyke or bleached crystal tuff, pyritic. Similar to 320.59 - 321.87.	Fol'n 40 Top ctc 25-30 Bot ctc 45?	Calcite vein stockwork and flood heals local pseudo breccia/insitu breccia.	5-10% fine grained dissem.py.	Top ctc relatively sharp.

<u>From</u> <u>To</u>	Rock Type	<u>Texture</u> and Structure	Angle to Core Axis	. <u>Alteration</u>	Sulphides	<u>Remarks</u>
323.32 to 324.34	DACITE- RHYOLITE QTZ EYE CRYSTAL TUFF	Colour - light green-grey. Grain Size - aphanitic-fine matrix, fine-medium crystals. Similar to above qtz-eye crystal tuff.	Fol'n 20	Trace – weak ser.	3% fine grained dissem. py.	
324.34 to 325.04	DYKE(?) OR DACITE- ANDESITE CRYSTAL TUFF - BRECCIATED	Colour - light-medium green. Grain Size - aphanitic-fine matrix, fine-coarse crystals/frags. Very weakly foliated feldspar rich brecciated dyke or crystal tuff. Textures vague. Locally up to 35% lmm feldspar phenos weakly clay altered? In silicified section note 5% pale green feldspar(?) very hard.	Top ctc approx 60(?)	Silicified in central 15cm, calcite veined pseudo breccia at margins.	5-8% fine grained dissem. py.	Litho BCD #6195 324.34 - 325.04m
325.04 to 327.56	DACITE- RHYOLITE QTZ EYE CRYSTAL TUFF	Colour - light grey-green. Grain Size - aphanitic-fine matrix, fine-medium crystals. Massive, weak/weak-moderately foliated dacite-rhyolite crystal tuff, similar to previous dacite crystal tuffs. 5% (1-2mm qtz eyes (5-10% (1-2mm feldspar phenos In silicified section note 5% pale green feldspar(?) - very hard.	Fol'n 15-40 Top ctc 35-40 Bot ctc sharp	Trace – weak ser, trace ch1.	3% dissem. fine grained py, minor py as stringers.	

<u>From</u> <u>To</u>	Rock Type	<u>Texture and Structure</u>	<u>Angle to</u> Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
327.66 to 460.55	DIORITE	Colour - dark green - medium dull green-grey +/- white. Diorite includes various phases from very fine grained - medium grained and equigranular - porphyritic. Fine grained phases often brecciated by calcite veins. Feldspar porphyritic phases have 5-30% feldspar (plag.) 1-2mm phenocrysts. Some phases are cross-cutting dykes.	Top ctc 70 (45-70?)	Very weak pervasive chl +/- epidote. Very weak - moderate calcite veins throughout +/- qtz - heal pseudo- breccia (Insitu breccia parallel to foliation/ shear).	No visible sulphides - tr py.	Locally 1-5% magnetite.
		327.66 - 328.67: Fine grained + feldspar porphyritic (2-5% feldspar).	Top ctc 70			Part of chilled margin.
		328.67 - 328.94: Feldspar porphyry dyke(?). 328.94 - 330.82: Fine grained dark green-grey diorite brecciated by calcite veins. 330.82 - 332.16: Feldspar porphyry diorite.	Top ctc 45?			Crackle breccia?
		332.16 - 332.96: Fine grained diorite pseudo breccia. 332.96 - 334.37: Feldspar porphyry diorite 1-2mm feldspar (10%).		Healed by calcite veins 1-2mm.		
		334.37 - 335.39: Feldspar porphyry same as above pseudo breccia. 335.39 - 342.04: Fine grained diorite, good pseudo breccia (Insitu breccia) from 335.39 - 337.41.		Cross-cut by calcite veins, heal insitu breccia. Same as above, also massive fine grained diorite section flooded with calcite.		Poss. calcareous due to shearing.

Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
	342.04 - 346.86: Fine - medium grained moderately sheared dark green diorite.	Top ctc? 70, Bot ctc? 50	Note hematite in calcite veins. Calcite throughout as veins + dissem.?		5% leucoxene dissem. throughout.
	346.86 - 348.39: Fine grained sheared calcareous diorite. 348.39 - 349.84: Fine - medium grained strongly sheared calcareous diorite similar to above.	Fol'n 25 Shear 0-25	venis venisemi.		
	349.84 - 351.43: Medium grained				5-10% dissem.
	diorite. 351.43 - 354.18: Sheared fine		Calc pervasive in shear,		magnetite weathers slightly
	grained diorite + diorite breccia - pseudo breccia.		matrix in insitu-rotational breccia.		purple.
	354.18 - 363.34: Fine grained diorite, pseudo breccia locally, healed by irregular calcite veins. Moderately sheared.				Litho BCD #6196 360.00 - 363.00m.
	363.84 - 364.25: Medium grained equigranular diorite, 25% feldspar crystals.				2-3% magnetite dissem., some skeletal.
	364.25 - 364.80: Fine grained diorite, local pseudo breccia by	Shear 30			
	calcite veins. 364.80 - 366.38: Medium grained equigranular diorite.				5-8% skeletal magnetite weathers slightly purple.
	366.38 - 371.34: Fine grane diorite	Shear	Calcite irregular (1-2mm		5% leucoxene as
	- sheared diorite to feldspar porphyry diorite.	0-30 Bot ctc 45	veins, local pseudo breccia.		streaky patches.
	371.34 - 372.59: Medium grained				
	diorite, 30% feldspar, equigranular. 372.59 - 373.68: Fine - medium grained sheared diorite, patchy				5% leucoxene.
	calcite + gashes. 373.68 - 378.13: Medium grained diorite equigranular, moderate				
	calcite irregular veinlets. 378.13 - 380.42: Weakly feldspar				
	porphyritic medium grained diorite. 380.42 - 381.76: Feldspar porphyry diorite - medium grained diorite.	Top ctc 20-25			
	381.76 - 383.19: Fine graine diorite - feldspar porphyry diorite, pseudo		Calcite +/- quartz heals insitu breccia.		

brectia locally.

Rock Type	Texture and Structure	Angle to Core Axis	Alteration	Sulphides	<u>Remarks</u>
	383.19 - 383.68: Feldspar porphyry (5-10%) diorite, fine grained	Fol'n 20			
	383.68 - 384.94: Fine grained diorite pseudo brecia. 384.94 - 385.48: (15%) feldspar		Irregular gashes, strong calcite.		
	385.48 - 387.00: Fine grained diorite, minor feldspar porphyry diorite.	Top ctc 60			
	387.00 - 391.61: Medium grained diorite 20% 1mm feldspar - weakly porphyritic diorite.				2-3% dissem. magnetite.
	391.61 - 392.27: Fine grained diorite dyke?, calcite 5-20mm veins. 392.27 - 394.60: Feldspar porphyry	Bot ctc 45 Bot ctc			
	diorite (dyke?) 18-15% feldspar. 394.60 - 396.92: Medium grained diorite - weakly feldspar porphyry	45 Bot ctc approx 60			
	396.92 - 398.58: Fine grained diorite cross-cut by qtz-calc veins.	Fol'n 60			Litho BCD #6197
	diorite, 20-30% 1-2mm feldspar phenos, 3-5% dissem. blk oxide, fine-very fine groundmass. 410.06 - 413.47: Medium grained	60?			400.00 - 403.00m
	Rock Type	383.19 - 383.68: Feldspar porphyry (5-10%) diorite, fine grained groundmass. 383.68 - 384.94: Fine grained diorite pseudo brecia. 384.94 - 385.48: (15%) feldspar porphyry diorite. 385.48 - 387.00: Fine grained diorite, minor feldspar porphyry diorite. 387.00 - 391.61: Medium grained diorite 20% 1mm feldspar - weakly porphyritic diorite. 391.61 - 392.27: Fine grained diorite dyke?, calcite 5-20mm veins. 392.27 - 394.60: Feldspar porphyry diorite (dyke?) 10-15% feldspar. 394.60 - 396.92: Medium grained diorite - weakly feldspar porphyry diorite. 396.92 - 398.58: Fine grained diorite cross-cut by qtz-calc veins. 398.53 - 410.06: Feldspar porphyry diorite, 20-30% 1-2mm feldspar phenos, 3-5% dissem, blk oxide, fine-very fine groundmass.	Core Axis 383.19 - 383.68: Feldspar porphyry (5-10%) diorite, fine grained groundmass. 383.68 - 384.94: Fine grained diorite pseudo brecia. 384.94 - 385.48: (15%) feldspar porphyry diorite. 385.48 - 387.00: Fine grained diorite, minor feldspar porphyry diorite. 387.00 - 391.61: Medium grained diorite 20% 1mm feldspar - weakly porphyritic diorite. 391.61 - 392.27: Fine grained diorite dyke?, calcite 5-20mm veins. 392.27 - 394.60: Feldspar porphyry diorite (dyke?) 10-15% feldspar. 394.60 - 396.92: Medium grained diorite - weakly feldspar porphyry diorite. 396.92 - 398.58: Fine grained forite cross-cut by qtz-calc veins. 398.58 - 410.06: Feldspar porphyry diorite, 20-30% 1-2mm feldspar phenos, 3-5% dissem. blk oxide; fine-very fine groundmass. 410.06 - 413.47: Medium grained	383.19 - 383.68: Feldspar porphyry (5-10%) diorite, fine grained groundmass. 383.68 - 384.94: Fine grained diorite pseudo brecia. 384.94 - 385.48: (15%) feldspar porphyry diorite. 385.48 - 387.00: Fine grained diorite, minor feldspar porphyry diorite. 387.00 - 391.61: Medium grained diorite 20% 1mm feldspar - weakly porphyritic diorite. 391.61 - 392.27: Fine grained diorite dyke?, calcite 5-20mm veins. 392.27 - 394.60: Feldspar porphyry diorite (dyke?) 10-15% feldspar. 394.60 - 396.92: Medium grained diorite - weakly feldspar porphyry diorite. 396.92 - 398.58: Fine grained diorite cross-cut by qtz-calc veins. 398.53 - 410.06: Feldspar porphyry diorite, 20-30% 1-2mm feldspar phenos, 3-5% dissem. blk oxide, fine-very fine groundmass. 410.06 - 413.47: Medium grained	Core Axis 383.19 - 383.68: Feldspar porphyry (5-10%) diorite, fine grained groundmass. 383.68 - 384.94: Fine grained diorite pseudo brecia. 384.94 - 385.48: (15%) feldspar porphyry diorite. 385.48 - 387.00: Fine grained diorite, minor feldspar porphyry diorite. 387.00 - 391.61: Medium grained diorite 20% 1mm feldspar - weakly porphyritic diorite. 391.61 - 392.27: Fine grained diorite dyke?, calcite 5-20mm veins. 392.27 - 394.60: Feldspar porphyry diorite (dyke?) 10-15% feldspar. 394.60 - 396.92: Medium grained diorite - weakly feldspar porphyry diorite. 396.92 - 398.58: Fine grained diorite cross-cut by diz-calc veins. 398.53 - 410.06: Feldspar porphyry diorite, 20-30% 1-2mm feldspar phenos, 3-5% dissem, blk oxide, fine-very fine groundmass. 410.06 - 413.47: Medium grained

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	Sulphides	<u>Remarks</u>
		413.47 - 414.81: Feldspar porphyry diorite.				
		414.81 - 415.13: Fine grained diorite dyke - pseudo breccia. 415.13 - 415.28: Medium grained weakly porphyritic diorite (25% feldspar).	Fol'n 40-45	Insitu breccia healed by strong irregular calc +/-qtz.		
		415.28 - 416.27: Fine grained to feldspar porphyry diorite dyke pseudo breccia. 416.27 - 420.28: Medium grained -	Fol'n 45 Bot ctc	Strong calcite veins heal breccia - insitu.		
		weakly porphyritic diorite. 420.28 - 433.14: Homogeneous feldspar porphyry diorite 10-15%, 1-2mm feldspar phenos, groundmass is very fine - fine grained.	approx 30	Local calcite +/- qtz veins.		
		433.14 - 439.14: Weak - strongly sheared feldspar porphyry diorite, similar to above. Locally pseudo breccia, also local streaky look.	Shear 0-25	Calcite heals local insitu breccia, also calcite flooded parallel to foliation/shear.	1-2% py in qtz-calc veins.	Litho BCD #6198
		439.14 - 460.55: Feldspar porphyry diorite, massive. 5-10% feldspar (1-2mm phenos, very fine grained groundmass. Very blocky 450.19 - 454.46. Blocky throughout to 460.55m.				445.00 - 448.00m.
460.55 to 462.44	FAULT	Colour - medium - light grey-green. Grain Size - very fine - fine matrix, (2-15mm frags. Fault gouge/mill breccia parallel to core axis between diorite & dacite tuffs.	Fault 0-10 Top 5 Bot 5-10	Matrix - clay gouge + strong ser +/- chl. Moderate sericitization of felsic volcanics.	3-5% dissem. fine grained py throughout.	Lenora fault? Parallel/subpar. C/A.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	<u>Angle to</u> Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
462.44 to 463.09	DIORITE, FELDSPAR PORPHYRY	Colour - medium-dark green & white. Light brown at chill margin. Grain Size - very fine grained groundmass, fine-medium crystals. Feldspar porphyry diorite with 10cm very fine grained chilled margin shot full of calcite veinlets (stockwork?). Crude flowage structure at ctc margin as seen by aligned feldspar crystals.	Top ctc 5 Bot ctc 45	Bleached chilled margin. Calcite stockwork at chilled margin.	Trace pyrite except in chilled margin 3% py, 1% cpy dissem.	Top ctc with clay-gouge/ breccia.
463.09 to 480.91	RHYODACITE FLOW OR CRYSTAL TUFF IN FAULT ZONE	Colour - light grey with green hue. Grain Size - aphanitic matrix/ groundmass, fine-medium phenos. Massive very weakly foliated homogeneous rhyodacite flow? or crystal tuff. Locally silicified. 1-5% (2mm qtz eyes, aphanitic siliceous matrix.	Top ctc 45 Bot ctc Fault	Variable very weak - weak ser. Strong ser in faults + clay gouge. Locally silicified.	3–5% dissem. py blebs throughout.	
		463.09 - 465.65: Rhyodacite flow?, light grey-green. 5% 1-2mm round quartz eyes.		Weak/weak-moderate ser.	3-5% dissem. py grains & blebs.	
		465.65 - 465.90: Fault, light green/grey, strongly sheared with 3mm medium grey pyritic seams.	Top 60 Bot 45-60	Moderate-strong ser, minor clay.	5% dissem. py + in narrow seams.	

Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
	465.90 - 467.25: Rhyodacite, similar to above.	45	Weak ser.	3-5% dissem. py - py blebs.	Blebs not py fragments.
	467.25 - 467.27: Fault gouge, light grey bleached.	45	Ser - clay.	3% fine grained dissem.PV.	
	467.27 - 468.22: Rhyodacite, similar to above. 3-5% (1-1 mm qtz eyes, round.		Weak ser.	3-5% dissem. blebs py.	
	468.22 - 468.42: Fault, with some gouge, bleached white-gray to light green-grey.	40-50 .	Ser - clay.	3-5% very fine grained dissem. py.	
	468.42 - 469.05: Rhyodacite, similar to above.		Very weak - weak ser.	3-5% dissem. py grains + blebs.	
	469.05 - 469.41: Faults at 2 orientations(?) bleached light grey with medium grey carbon-pyrite seam(?) + pyrite-ser seam.	10 + 40	Ser - clay.	3-8% py dissem, fine grained also as a band or seam 2cm thick.	Poss. not carbon but rather a grey clay-py seam.
	469.41 - 469.77: Rhyodacite, similar to above.		Weak ser +/- moderate.	3% fine grained dissem.	
	469.77 - 469.97: Fault/shear 2 orientations, i) 10 C/A narrow clay py seams, ii) ser-clay gouge C/A 40 colour is light green-grey.		Clay - ser stringers.	5-8% dissem. fine grained- medium grained py.	
	469.77 - 470.00: rhyodacite, similar to above.				
	470.00 - 471.54: Intermittent fault & shears in rhyodacite. 60% of interval is milled ser - clay gouge.	Faults 10, 45, 30, 5	Gouge is clay-ser +/- chl. Rhyodacite is weak - moderately sericitized.	3-5% dissem. fine grained pyrite.	Rhyodacite, poss. flow.
	Light-medium grey-green.			0.5% ()	1 355 - DOD #6100
	471.54 - 472.83: Rhyodacite, similar to above. Locally insitu brecciated.		Weak - moderate ser. Locally silicified?	3–5% fine grained dissem. py.	Litho BCD #6199 471.72 - 474.72m.
	472.83 - 473.40: Gouge/broken up rhyodacite/milled. Light green-grey. Note grey clay fault seam 3-4mm thick @ 473.29 C/A 25.	Fault 10-30	Gouge is ser-clay.	3-5% very fine grained dissem. py.	
	473.40 - 474.89: Rhyodacite similar to above with minor shears throughout.		Weak - moderate ser.	5% dissem.py.	
	474.89 - 476.63: Light grey-green rhyodacite flow or tuff - crystal tuff(?). Silicified locally. 2-3% lmm atz eyes - round, 95% aphanitic		Very weak - locally moderate ser. Locally silicified.	5-3% dissem. fine grained py.	Note locally dissem. blue-grey metallic mineral.

From To

matrix.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	<u>Angle to</u> Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
		476.63 - 478.96: Rhyodacite flow or tuff with strong - intense fracture, intermittent faults (gouge). Interval is shattered poss. insitu breccia on large fault margin. Light green-grey.	Faults 20 & 35	Silicified locally. Very weak - locally moderate ser. Faults are clay-ser (1cm seams with adjacent sheared/milled margins.	2-5% dissem. py, locally as blebs.	
478.96 to 480.92	FAULT- GOUGE ZONE	Colour - very light green-grey - white minor dark grey. Grain Size - matrix very fine, frags fine-coarse. Entire interval is gouge/ fine clay-ser-chl (rhyodacite & andesite) milled cataclasite. Internal clay seams @ C/A 25, note medium grey carbon? wispy seams. Last 26cm of interval appears to have been andesitic.	Top 30 Tor 10-15?	Strong ser-ch1 throughout. Local graphite (carbon?) seam at 480.60m.	3% fine grained dissem. py throughout.	Litho BCD #6200 479.72 - 480.47m. (split)

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
480.92 to 486.00	ANDESITE TUFF - CRYSTAL TUFF IN FAULT ZONE	Colour - dark - medium green. Gouge, light-medium green. Grain Size - fine - very fine grained. Massive weakly foliated andesite tuff, locally sheared and cut by a number of faults with gouge (clay-ch) +/- py). Andesite tuff relatively homogeneous.	Fol'n/ shear approx 30 Faults 20 (0-30) Top ctc ? Fault	Very weak - weak chl throughout (moderate- strong chl adjacent to faults). Very weak patchy epidote throughout as vague cloudy light green balls approx. 5-10%. Clay-chl on narrow (1cm fault planes.	1-3% dissem. py throughout, also py in fault seams ie) 483.19m lcm, py-clay, C/A 20. Locally py as (1cm blebs with epidote patches.	Litho BCD #6201 481.00 - 484.00m Faults at: 481.00: <1cm, gouge, 0-5 C/A 481.90: 2-3cm, breccia-gouge, ? C/A 482.25: .5cm, clay-chl, 15 C/A 482.70-483.55: 1-2cm, clay-py, 0-20 C/A 483.82-484.22: <5mm, chl, 5 C/A 484.82-485.07: shear/gouge, 0-10 C/A 485.37-486.00: Shear gouge in andesite clay-chl, 0-25

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
485.00 to 508.11	ANDESITE TUFF, MINOR FINE CRYSTAL TUFF	Colour - dark - medium green. Grain Size - fine. Massive weakly foliated andesite tuff, homogeneous minor fine crystal tuff. Fine crystal tuff 486.00 - 497.67. Fine tuff 497.67 - 508.11	Folin 20-15 Layering ?10?	Weak chl throughout, weak - moderate chl @ 505.00 - 508.11. Very weak calc-qtz veins 2-5mm C/A 5-25. Weak epidote patchy alteration 486.00 - 497.80m, outlines of patches vague approx. 10-20% epidote. (Patches range (1cm - 6X3cm). Very weak sel ep of fp in crystal tuff. Epidote associated with crystal tuff versus fine tuff.	Variable 1-10% dissem. py grains + blebs, poss. some sheared-out stringers(?), locally tr-2% cpy as irregular patches. Py blebs also associated with epidote alteration. 486.00-489.81: 2-3% py, tr cpy. 489.81-494.10: 3-5% py 494.10-498.07: 1-3% py, tr cpy. 498.07-502.00: 3-5% py, locally 1% cpy. 502.00-503.52: 5-10% py, 1-<2% cpy. 503.52-508.11: 5% py, locally 5-8 py, tr-1% cpy locally.	Litho BCD #6201 499.00 - 502.00m Litho BCD #6202 505.00 - 508.00m Assay BCD #6325 502.10 - 503.52m 5-8% py, 1-2% cpy Minor shears/ faults @ 492.30, 494.45, 500.11, 501.55-502.10m, 503.46. Py most abundant in fine tuff vs crystal tuff.
508.11 to 508.38	FAULT- VEIN BRECCIA	Colour - dark green & white. Grain Size - fine matrix, frags 2mm-3cm. Matrix supported fault vein/breccia. 30-40% subround-subangular andesite tuff frags in a white calcite matrix.	Top 40 Sharp Bot 65	Frags - weak chl. Matrix - calcite heals breccia.	3% dissem. fine grained py in fragments.	

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
508.38 to 524.33	ANDESITE FINE TUFF + FINE CRYSTAL TUFF	Colour - dark-medium green. Grain Size - fine, locally medium. Massive - crudely layered very weak/very weak-weakly foliated andesite ash tuff/crystal tuff. Similar to above. Andesite fine tuff 508.11 - 511.44. Andesite crystal tuff 511.44 - 524.33 - crystal tuff has 15-35% (avg. 30%) feldspar phenocrysts lmm in size, very homogeneous looking with crude layering.	Folin 40 (40-60) Crude Layering 60 (45-60) Bot ctc 70 Poss. 45	Weak - very weak chl. pervasive. Variable epidote as sel alteration of crystals & as patches, partially dependent on grain size? 511.44 - 512.47: very weak patchy epidote, weak sel ep. of feldspar phenos. 512.47 - 513.69: Weak patchy epidote, 10-15%, weak - moderate sel ep. 513.69 - 520.40: Very weak - weak sel. ep. 520.40 - 524.33: Very weak patchy 10%, very weak - weak sel. ep. Note epidote is light-medium green cloudy diffuse patches, not a typical pist. green.	2-8% py maily dissem. grains & blebs, cpy irregular patches/blebs in sheared stringers? 508.38-512.00: 3-5% py, tr cpy 512.00-518.90: 2-3% py, tr cpy 518.90-519.50: 5-8% py, <1% cpy 519.50-524.00: 3-5% py, <1% cpy 524.00-524.33: 2% py.	Litho BCD #6203 521.00 - 524.00m
524.33 to 535.08	DIORITE, FELDSPAR PORPHYRY	Colour - medium-dark green & white. Grain Size - fine-very fine groundmass, fine-medium-coarse phenos. Massive feldspar porphyry diorite. 10-15% feldspar phenos (1-3mm avg. 1-2mm. Locally note glomerocrysts. Note fine-medium grained diorite dyke at 531.67 - 532.18. Bottom ctc approx. 40, Top ctc?	Top ctc 70 (poss. 45) Bot ctc Blocky- broken-up ?35-40?	Tr - very weak chl. Very weak saus, of fp phenos. Weak 2mm calc. veins throughout.	Trace pyrite. 2-3% fine grained dissem. py in chilled margin.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
535.08 to 546.17	ANDESITE TUFF, CRYSTAL TUFF	Colour - medium-dark green. Grain Size - fine +/- medium grained. Massive to crudely layered andesite uffs & crystal tuffs. (Similar to previous andesite tuffs.) Mainly fine crystal tuff, crystals <pre></pre> <pre></pre> <pre></pre> <pre>Clmm, very homogeneous. Crude layering could simply be epidotization along foliation planes.</pre>	Fo1'n 45 (35-55) Layering ?60	Weak ch1 throughout, locally sections with weak/moderate ie) 537.55-538.65 also very weakly chloritized. Very weak - weak 1-3mm calcite veins throughout. Weakly epidotized between 537.55-538.65 as vague elongate light green patches (parallel to foliation or layering?). Tr selective epidotization of Fp phenos throughout. Note epidote not typical distinct balls with good colour contrast.	Mainly py as disseminations, also sheared str. Range 1-8% py, nil-2% cpy. (Locally up to 3% cpy over 20cm). 535.08-535.84: 5-8% py, (1% dissem + blebs + sheared. 535.84-540.41: 1-3% fine grained dissem. py. 540.41-546.17: 3-5% dissem. fine grained py + blebs, poss. py fragment at 543.32. Local py +/- cpy +/- qtz stringers at 537.87: 3mm, py-cpy, C/A 55 & 20 539.16: 2mm, qtz-py-cpy, C/A 35-40	Litho BCD #6204 543.00 - 546.00m Minor shear @ 535.83, 536.05 (clay-py seam). Note very blocky @ 540 - 542m. Assay BCD #6326 537.81 - 538.04 3-5% py, 3% cpy, (stringer)
546.17 to 546.30	FAULT (MINOR)	Colour - medium grey & green. Grain Size - very fine grained - fine grained. Narrow fault marked by calcite-qtz vein & py seams.	Top 20-25 Bot 10-15	Calcite-qtz vein, with slicken lines(?). Weak chl in andesite tuff.	10-15% very fine grained py (grey-brown) as seams with calcite-quartz vein, also as wispy infiltrating (1 mm stringers within fault.	

Tr cpy.

<u>From</u> <u>To</u>	Rock Type	<u>Texture and Structure</u>	Angle to Core Axis	Alteration	<u>Sulphides</u>	<u>Remarks</u>
546.30 to 558.39	ANDESITE TUFF/ CRYSTAL TUFF	Colour - medium-dark green. Grain Size - fine. Massive, very weakly foliated andesite tuff - fine crystal tuff, (similar to above). Very homogeneous.	Fol'n 0-20? (0-40) Bot ctc sheared	Very weak - weak chl. throughout. Ep is tr - very weak selective alteration of Fp throughout, local very weak ep. patches. 556.42-556.92: (5-10)(C/A 45). Tr 2mm calc veins.	Py as fine-medium grained dissem. grains + blebs, minor str. py. 546.30-546.52: 5-8% py, 2-3% cpy 546.52-548.33: 3-5% py, (1% cpy 548.33-551.69: 1-3% py 551.69-558.39: 3-5% py, locally 1-2% cpy Note stringer py at 547.00: 3-5mm, qtz-py-cpy, 5-10 551.69: 2cm, qtz-ep-py, C/A 45 Note cpy bleb at bottom ctc.	Assay BCD #6327 546.22 - 546.59m. 5-8% py, 2-3% cpy Note: very blocky 550.20 - 551.69m
558.39 to 559.72	DACITE CRYSTAL TUFF - SILICIFIED (OR DACITE FLOW)	Colour - light-medium grey with green hue. Grain Size - aphanitic matrix, fine phenos. Massive very weakly foliated dacite crystal tuff(?), poss. flow. 1-3% qtz eyes - round (1-1mm (grey). 5-10% feldspar (1mm, locally very weakly saus. 1-3% mafic phenocrysts drawn out parallel to foliation.	Top ctc sheared Fol'n Loc. 20	Silicified, tr. ser. Tr ep(?) of fp phenos.	No visible sulphides – trace py.	Litho BCD #6205 558.45 - 559.65m. minor shear @ 558.80m.

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	· <u>Remarks</u>
559.72 to 596.19	FELDSPAR PORPHYRY DIORITE, (WITH MINOR RELATED DYKES)	Colour - medium green + white. Grain Size - fine-very fine grained groundmass, medium-coarse phenos. Massive feldspar porphyry diorite. Feldspar phenocrysts typically glomerophyric 2-3mm patches, also individual feldspar 1-2mm tabular crystal feldspar 5-15% phenocrysts.	Top ctc (Irreg?) 20	Very weak chloritized pervasive. Weak local epidotization of groundmass. Also minor Epidote wispy veinlets.	Tr py, locally 3% py at top and bottom contacts.	
		559.72 - 559.97: chilled margin, weakly feldspar porphyritic. 559.97 - 561.09: Feldspar porphyry diorite.		Weakly bleached.	3% dissem. py blebs.	
		561.09 - 561.29: Fine grained diorite dyke? or epidote-qtz vein poss. brecciated. 561.29 - 570.93: Feldspar porphyry diorite.	Irreg.	Moderate epidote pervasive, cross-cut by l mm qtz veinlets.	2-3% dissem. py as blebs.	
		570.93 - 570.97: Fine-medium grained diorite dyke(?). 570.97 - 575.62: Feldspar porphyry diorite.	Ctc's 40	Very weak chl/ep.	3% dissem. fine-medium grained py.	
		575.62 - 575.94: Fine-medium grained diorite dyke similar to above.	Top ctc 60 Bot ctc 45-60		1-2% dissem. py.	561.42-569.98 &
		575.94 - 579.31: Feldspar porphyry diorite.				571.50-572.45 & 572.85-573.02 Very blocky ground.

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
		579.31 - 582.89: Feldspar porphyritic diorite, 15% feldspar phenocrysts. 582.89 - 585.06: Feldspar porphyry diorite, 5-10% feldspar phenocrysts. 585.06 - 585.56: Fine-medium, grained weakly feldspar porphyritic dyke. Note 5% leucoxene. 585.56 - 589.11: Feldspar porphyry diorite.	Bot ctc 50			
		589.11 - 589.46: Sheared fine grained diorite, poss. dyke(?) with qtz veins. 589.46 - 596.19: Feldspar porphyry	Fol'n 20–25 shear	Quartz veins, white-grey parallel to shear/fol'n.	1% cpy 2-3% py, dissem. with qtz. Loc. qtz + py + cpy	
		diorite.			veinlet at 594.84.	
596.19 to 596.59	FAULT/QTZ VEIN	Colour – white + dark green. Grain Size – fine qtz, fine diorite sheared.	Top ctc 40-45 Bot ctc	Quartz vein with sheared margins.	3% py fine grained as patches in qtz vein.	
		Fault with top 5cm chloritic gouge (milled diorite) +/- clay. Massive white quartz vein infills fault.	40	Strong chl.		
596,59 to 602,04	DIORITE, FELDSPAR PORPHYRY	Colour - medium green & white. Grain Size - fine. 596.59 - 602.04: Feldspar porphyry diorite. Similar to above.		Very weak chlorite.	Тт ру.	
602.04 to 602.94	FAULT(?), SHEARED DIORITE & QTZ VEINS	Colour - dark grey & white. Grain Size - fine. Fault? or just strongly sheared diorite. (Poss. andesite tuff??) No gouge.	Top QV 50 Shear 40	Strong chl with qtz veins.	1-3% py, note one 4mm thick py stringer.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
602,94 to 632,36	DIORITE FELDSPAR PORPHYRY	Colour - medium green & white. Grain Size - very fine - fine groundmass, fine-coarse phenos. 602.94 - 618.07: Similar to above feldspar porphyry diorite. 618.07 - 618.77: Fine grained diorite or andesite dark green dyke.	Top ctc · 5 Bot ctc 5	Very weak ch1, tr ep veins local calcite patches, local qtz veins 1cm-15cm thick, C/A 50-60. Very weak ch1. Moderate qtz + calcite veins in adjacent feldspar porphyry diorite.	Tr py throughout. Locally note 1-2% py with 1-2mm thick cpy veinlet in qtz-calc stringers. 1-2% dissem. py, also note 1-3% py as blebs & cpy 1% in adjacent feldspar porphyry diorite qtz/calcite veins.	Cpy-qtz poss. related to narrow fine grained andesite dyke, 1cm.
		618.77 - 631.96: Feldspar porphyry diorite, minor shear at 628.48m. 631.96 - 632.36: Feldspar porphyry diorite bleached/chilled margin, pale - light green 2-3% feldspar phenocrysts, very fine grained groundmass. Contact is relatively sharp but irregular V shape.	Bot ctc 10-20?	Variable weak - moderate calcite veins throughout.		
632,36 to 633,36	ANDESITE TUFF - FINE CRYSTAL TUFF	Colour - medium-dark dull green-grey. Grain Size - very fine - fine +/- medium grained. Massive, weakly foliated, fine-medium grained andesite tuff. Crude layering parallel to foliation(?) defined by <1mm feldspar in crystal tuff.	Fol'n 25	Very weak - weak chl throughout. Very weak sel. ep. of feldspar, very weak - weak epidote as patches near fault.	2–3% fine grained – dissem. py.	
633,36 to 633,42	FAULT (MINOR)	Colour - light grey/green. Grain Size - fine. Minor fault, with clay/chl gouge + milled tuff.	30	Clay/strong chl.	1-2% py.	Very little movement on fault judging by the alteration similarity on both sides.

From To	<u>Rock Type</u>	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
633.42 to 644.70	ANDESITE TUFF - CRYSTAL TUFF	Colour - medium - dark dull green-grey. Grain Size - very fine - fine +/- medium grained. Massive andesite, weakly foliated crystal tuff - tuff. Similar to above. Layering parallel to foliation(?) crystal-rich layers? drawn out along planes. Local lapilli frags at 643.74m	Fo1'n 10-15 (10-30)	Very weak - weak chl throughout, locally weak - moderate. Trace calcite, qtz veins. Epidote weak patchy full light green up to 4X3cm patches ie) 638.02-639.27 10-15% (avg. Icm), 640.07-641.25, 641.80-644.50. Also weak sel. epidotization of feldspar phenos, epidotization appears to be controlled by foliation or layering.	1-3% dissem. fine grained py, locally medium grained py in discon. str. (1) +/- tr cpy. Locally 3-5% dissem. py @ 634.10 - 634.35m, tr cpy.	Litho BCD #6206 638.00 - 641.00m Locally note metallic brown hematite fracture coatings.
644.70 to 545.26 5.0.4.	FAULT/ SHEARED ANDESITE TUFF	Colour - dark green & light green (Gouge). Grain Size - fine tuff, medium-coarse frags. Strongly sheared fine andesite tuff with gouge planes.	Shear 10-20 Gouge approx 40	Moderate/moderate-strong chloritization. Flooded with strong dicon. irregular calcite veins up to 4mm thick (contorted). Clay-chl on gouge - plane 5mm thick. 3mm calcite vein C/A 15 with slickenlines near gouge (continuous planar).	2% dissem. very fine grained py.	Bottom 20cm gouge & strongly sheared tuff & intense calcite veins.

MAJOR OXIDES

TRACE ELEMENTS

							JOH OXID							NACE E		-						
SAMPLE NUMBER	FROM (m)	TO (1011)	SiO:	Al ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO ₂	Ba	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Sr %	Zr %	ppm As	ppm Sb	Total
6176	7.13	10.13	47.91	15.78	10.70	5.26	2.05	0.12	12.76	0.28	2.51	.015	180	82	16	1.5	5	.04	.013	2	1	97.44
	8.6																				·	
6177	67.05	68.36	54.34	15.65	7.30	2.80	3.26	0.44	11.48	0.28	1.93	.026	313	100	15	1.6	10	.03	.033	19	4	97.56
	67	Ţ.,												*. ··								
6178		115.00	48.46	13.08	11.18	7.31	2.13	0.26	12.77	0.31	2.13	.017	180	59	12	1.4	10	.03	.010	1	1	97.69
	(13.	5																				
6179		144.00	70.26	15.65	0.94	2.37	1.37	3.98	2.90	0.09	0.37	.277	71	45	8	0.2	25	.01	.007	1	2	98.22
	142	,5																				
6180		165.75	67.11	15.69	1.70	4.06	2.25	2.88	3.58	0.19	0.44	.213	14	95	11	0.4	5	.02	.007	1	1	98.13
	164	.25																				
6181	166.79	167.85	44.73	18.53	10.18	10.45	0.91	2.00	8.91	0.68	1.01	.098	73	253	43	0.5	10	.02	.002	3	1	97.52
	16-				•																	
6182	173.80	176.80	73.00	14.69	0.71	2.20	2.19	3.61	1.14	0.04	0.33	.263	53	421	13	0.5	20	.02	.005	1	2	98.20
	175	.3			•																	
6183	198.70	201.70	73.37	14.23	0.67	2.82	1.61	3.39	1.61	0.05	0.32	.164	28	77	14	0.3	15	.01	.005	1	1	98.26
	2:	20.2		-	•																	
6184	211.00	214.00	53.45	19.15	1.01	9.12	5.37	0.06	8.32	0.51	0.91	.010	158	352	18	0.7	5	.02	.004	8	1	97.94
	216	.5		•			•	•		•												
6185	212.90	213.16	45.98	12.59	1.16	6.42	3.07	0.14	21.23	0.36	0.65	.017	8927	451	94	7.3	60	.02	.002	53	8	91.63
	21:	3.0																				
			11																			

Hole No.	MTS-30	Entered by	Logged by M. J. Gray	Page No	42
----------	--------	------------	----------------------	---------	----

ZIPPY PRINT - - BRIDGEPORT RICHMOND

MAJOR OXIDES

TRACE ELEMENTS

	,						JON OXID						<u>.</u>	RACE E		<u> </u>						
SAMPLE NUMBER	FROM (M)	TO (m)	SiO ₂	Al _i O _i	CaO	MgO	Na ₂ O	K ₂ O	FeO	MnO	TiO,	Ва	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Sr %	Zr %	ppm As	ppm Sb	Total
6186	222.70	225.36	54.56	18.06	0.72	11.57	0.62	2.03	8.88	0.38	0.89	.154	242	320	19	0.7	5	0.01	.003	4	1	97.87
	251	1.0									.			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· L ···································						
6187	229.84		68.22	10.36	1.57	5.10	0.25	1.93	8.87	0.16	0.48	.185	2136	2929	708	2.6	75	0.01	.005	21	9	97.15
		0.0		_												-						
6188	240.29	241.49	73.57	12.38	0.91	3.59	0.65	2.73	3.50	0.10	0.27	.123	973	25	12	0.4	-5	0.01	.005	1	2	97.84
	. 97	•																				Wanted Street,
6189	249.97		27.78	2.47	5.58	2.79	0.01	0.01	26.18	0.16	0.04	.005	196	45	37	1.3	5	0.01	.005	168	55 🕺	65.03
	250							•		,	····			·							***	
6190	251.18		50.64	3.29	3.04	1.44	0.19	0.52	18.51	0.08	0.07	.025	1551	35	24	1.1	5	0.01	.005	101	35	77.83
	351	. 4																				
6191		262.00	59.30	17.21	0.59	8.33	0.39	2.69	8.33	0.26	0.75	.095	267	86	13	0.8	10	0.01	.004	7	1	97.97
	260	.5															·			· · · · · · · · · · · · · · · · · · ·	·	
6192	267.10		56.30	17.66	0.70	9.26	0.71	2.16	9.98	0.23	0.79	.077	930	81	10	0.7	15	0.01	.005	12	3	97.88
	7,88,	b																<u> </u>	•	,		
6193	279.92		70.53	13.41	1.70	3.65	1.05	2.46	4.66	0.04	0.30	.111	563	25	11	0.5	5	0.02	.001	1	3	97.93
	28	31.4										·							4			
6194	306.75	309,3	72.16	13.52	2.32	2.14	1.55	2.65	3.26	0.04	0.29	.164	121	19	5	0.2	5	0.02	.005	1	2	98.13
	30	8.0																	•	•	_	_
6195	324.34		48.70	16.76	9.14	9.34	2.35	0.51	9.72	0.16	0.90	.059	132	45	21	0.9	. 5	0.03	.002	7	1	97.66
	32	4.7																				
																				43		

<u> </u>					
Hole No.	MTS-30	Entered by	Logged by M. J. Gray	Page No43	

ZIPPY PRINT * -- BRIDGEPORT RICHMOND

MAJOR OXIDES

TRACE ELEMENTS

_																							
	SAMPLE NUMBER	FROM (mg)	TO (mg)	SiO ₂	Al _i O ₁	CaO	MgO	Na ₂ O	K₂O	FeO	MnO	TiO₂	Ba	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Sr %	Zr %	ppm As	ppm Sb	Total
	6196		363.00	49.05	15.34	10.55	5.02	2.71	0.74	11.61	0.26	2.45	.016	143	67	19	0.9	10	0.02	.010	9	8	97.76
		36	1.5																				
	6197	400.00	403.00	48.44	14.81	9.88	6.65	2.84	0.31	12.20	0.30	2.26	.025	169	52	11	1.3	15	0.03	.008	2	1	97.76
\$ [401	.5												• • • • • • • • • • • • • • • • • • • •		·						
	6198	445.00	448.00	49.14	13.95	10.33	5.74	1.98	0.05	13.30	0.32	2.71	.006	241	65	13	2.0	15	0.04	.013	2	1	97.59
	····	1 /4	,.5										•							<u></u>			
	6199	471.72	474.72	70.71	14.27	0.71	3.69	1.62	2.52	4.30	0.10	0.33	.092	58	37	4	0.4	5	0.01	.000	1	3	98.36
		473	3.2		L	l	l	L	A	L		L	L			<u> </u>	L			L1			120.00
	6200	479.72	480.47	70.03	13.97	2.77	3.11	2.57	1.93	3.30	0.14	0.29	.179	57	32	6	0.3	10	0.02	.005	1	1	98.30
	······································	480	.1			1	L	 	L				L		L								170.30
	6201	481.00	484.00	58.06	17.07	2.85	6.58	2.88	1.24	8.39	0.27	0.65	.076	56	50	7	0.6	10	0.02	.005	5	2	98.07
	******	48.	ł :		<u> </u>	<u> </u>	L	L	<u> </u>				1		L	L			0.02	.005			190.07
	6202	499.00	502.00	56.42	17.14	1.07	8.03	2.20	1.73	10.38	0.24	0.66	.115	232	50	15	0.7	5	0.01	.005	13	5	97.99
		500	L		<u> </u>	<u> </u>		<u> </u>	L				1					L	0.01	.003	13	<u>, </u>	37.33
	6203	521.00	524.00	56.48	16.28	1.87	8.07	2.75	0.59	10.63	0.28	0.67	.058	1296	71	17	1.0	5	0.02	.005	15	4	07. 70
		520	Į.				1			10.03	0.20		1.050	1230	L'-	17	1.0		0.02	.003	13		97.70
	6204	543.01		56.39	16.70	2.43	7.52	2.83	0.69	10.19	0.31	0.64	.053	828	T = /.	1,,	0.0	1.0	0.00	005		· [_	
	0204		5/1/5	30.37	10.70	2.43	1.32	2.03	0.09	10.19	0.31	0.64	.053	828	54	14	0.8	10	0.02	.005	15	6	97.77
					T. o. o.	T 2 1-	T	1	T	I			T		T	Γ.	Г.	T					
	6205	558.45	<u> </u>	73.59	13.21	0.67	2.14	4.25	1.18	1.94	0.05	0.26	.111	7	38	9	0.1	15	0.02	.005	16	1	97.42
		550	1																ll				

Hole No	MTS-30	Entered by	Logged by M. J. Gray	Page No44

. ZIPPY PRINT - BRIDGEPORT RICHMOND

MAJOR OXIDES

TRACE ELEMENTS

MAJOR OXIDES TRACE ELEMENTS									3						-							
SAMPLE NUMBER	FROM (m.)	TO (m)	SiO,	Al ₂ O ₃	CaO	MgO	Na _z O	K ₂ O	FeO	MnO	TiO ₂	ba	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Sr%	Zr%	As ppm	Sb ppm	Total
6206		641.00	55.94	17.30	2.87	7.59	3.08	0.62	8.34	0.27	0.67	.023	79	75	18	0.5	5	0.02	.005	11	1	96.72
	639	7.5																				
6207	505.00		55.99	16.75	2.17	7.74	1.03	2.22	11.04	0.27	0.64	.110	147	65	23	0.5	10	0.01	.005	25	7	97.97
	508	6.5					•		4												·	
6208	554.50		56.25	17.26	2.10	8.33	2.45	0.73	9.90	0.27	0.67	.069	33	74	17	0.5	5	0.02	.005	11	1	98.05
	75	6.0												•					1.			

				-	. L	, 4			<u> </u>		4 ,,								· · · · · · · · · · · · · · · · · · ·		4	
		1		1	<u> </u>	J		L	1	L		•							<u> </u>	 	.	<u> </u>
		L		<u> </u>	<u> </u>		1	J	<u> </u>	l	L	<u> </u>		L	<u> </u>						l	1
					Ī																	
	<u>i</u> .	l		<u> </u>		1	J	1	J	<u> </u>	<u>L</u>	<u> </u>		<u> </u>						L		!
				T	1	T			<u> </u>													Ţ
	1	L		<u> </u>	<u> </u>	1	L	L	<u>.</u>	<u> </u>	<u> </u>	<u> </u>		L	1		L		<u>. </u>	<u> </u>	L	L
					1			<u> </u>			T	1		T							T	
	_L	L	-	.l	<u> </u>	J	ļ	L	L	<u>. </u>	<u> </u>	1,,		L	I		L		L	<u> </u>	1	
Hole No.	MTS-3	0			Entere	ed by					Lo	gged by	M. J.	Gray	·		ſ	II Page No. ₋		45		

ZIODY DDINIT	DDIOCEDODA	DICLOSIO

ASSAY SHEET

Sample Number	From (ML)	To (m)	Estir	nate Zn	Length (III)	°₀ Cu	°₀ Zn	°₀ Pb	gm₁ Γ Ag	gm T Au	% S1O2	0 ₀ T1 O2	% Na2O	° ₀ MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	ppm Ba	Mo Mo	
6305	155.93	157.43		2%	1.50	.179	2.23												2.4	50	2740		
6306	157.43	158.00		2%	0.57	.150	2.70											_	2.0	65	2560		
6307	158.00	159.02		2%	1.02	.040	0.99												0.6	25	5900		
6308	161.88	162.60		. 5%	0.72											268	3540		1.4	5	1100		
6309	176.17	177.24		1-2	1.07	,	0.98	•								730	•		1.2	115	2770		
6310	177.24	178.74			1.50											460	3400		0.8	45	3500		
6311	178.74	180.24			1.50											202	2630		0.9	120	3520		
6312	180.24	181.74			1.50											122	1380		0.5	60	3750		
6313	181.74	183.55			1.81											127	2350		0.4	5	3100		
6314	183.55	184.52		1-2	0.97		0.49									279			1.7	710			
6315	184.52	185.12			0.60											72	1660		1.1	340			
6324	187.96	189.46	Tr	.5%	1.50																		
6316	221.80	222.70	.3%	. 5%	0.40											596	4170		2.8	160		139	
6317	237.86	239.11	. 5%		1.25	.241					}						114		0.9	20			
6318	239.11	240.29	.5%		1.18	.189											52		1.2	30			
6319	244.24	245.14	.5%		0.90																		
6320	245.14	245.99	.3%		0.85																		
6321	256.33	257.27	. 3%		0.94	.260											64		1.7	15			
6322	257.27	258.42	.3%		1.15																		
6323	274.01	274.16	1%		0.15	1.760											89		4.2	70			

MTS-30

PAGE	46	
PAGE	46	

ASSAY SHEET

Sample Number	From (mg)	To (<u>m</u>)	Estu	mate Zn	Length	°₀ Cu	º₀ Zn	% Pb	gm. I Ag	gm T Au	°, S1O2	°, T1 O 2	% Na ₂ O	°, MgO	º₀ Fe	P PM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au		į	
6325	1	503.52			1.42																		
6326	537.81	538.04	1%		0.23	.781											61		1.4	10	-		
6327	546.22	546.59	1%		0.37	.502											79		1.3	20			
												i											
												·											
																:							
											:												
																						_	

																				ļ
								-												
MTS-30													PAGE	47						
ZIPPY PRINT HP-F.	IPPY PRINT HER CLITCHT RICHMOND																			

CORPORATION FALCONBRIDGE COPPER

DRILL HOLE RECORD

X. METRIC UNITS

MTS-31	GRID CFC		FIELD COORDS	LAT. 10+68	3S 11+14E	<u>ELEV.</u>	COLLAR BRNG.	025 ^o	COLLAR DIP -50°		FINAL DEPTH 245.36m.
PROJECT PN 305	CLAIM#		SURVEY COORDS.				DATE STARTED: DATE COMPLET	March 2/8/ EDMarch 9/87	CONTRACTOR: CORE STORAGE:	F. Boisvenu Fulton Farm	casing 1.52m left in
PURPOSE Test Mona are	ea horizon for	sulphide miner	alization i	intersec	ted in MTS-27.					RQD COLLAR SUR	LOG PULSE EM SURVEY RVEY MULTISHOT SURVEY
	ACID T	ESTS				TROPARI TESTS	S		MU	LTISHOT DATA	
DEPTH(IN)	CORRECTED ANGLE	DEPTH()	CORRECTE ANGLE	ĒD	DEPTH()	AZIMUTH	DIP	DEPTH ()	AZIMUTH	DIP
30.48	50-51°										
60.96	50-51°										
91.44	49-50 ⁰										
121.92	49.5°										
152.40	50.5°										
182.88	50.5°										
213.36	51 ⁰										
HOLENO	MTS-31								,	LOGGED B	M. J. Gray

HOLE NO __

ZIPPY PRINT - - BRIDGEPORT, RICHMOND

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u> .	Remarks
0 to 1.52	CASING					
1.52 to 34.71	DIORITE WITH MINOR RELATED DYKES	Colour - white & medium green. Grain Size - medium & coarse grained locally. Massive medium-coarse grained locally weakly feldspar porphyritic diorite. Interval includes minor dykes and sheared sections. 35-45% 1-3mm euhedral-subhedral feldspar laths. 45-55% mafics, 1-3% black oxides. 1.52 - 13.65: Medium grained	Veins 60-70	Very weak chloritization throughout. Very weak epidote veins locally very weak - weak. Very weak ep +/- qtz veins	No visible sulphides - trace pyrite. Tr cpy locally.	Note 1-2% black-grey non-magnetized oxide grains (not hem.). V. blocky interval.
		diorite.		up to 5cm thick. Weak calc +/- qtz veins .5-2cm.		Litho BCD #6209 9.50 - 12.50
		13.65 - 14.15: Sheared(?) fine-medium grained diorite. Note 5% black oxide, medium grained dissem. Medium-dark green. 14.15 - 15.10: Medium grained, medium green - white diorite.	Top ctc Grad 70 Bot ctc Grad 60	Very weak chl/ep + qtz, strong irregular calcite veins.	Тт сру.	Illmentite? - black oxide.
		15.10 - 15.50: Sheared/brecciated diorite, texture destroyed medium-dark green +/- white.	Shear 60	Strong calcite throughout. 1 Ep +/- qtz vein perpendicular to shear.		1-2% smeared leucoxene 2-5% black oxide.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
		15.50 - 20.91: Medium-coarse grained weakly feldspar porphyritic diorite. Darkish green & white. 20.91 - 21.75: Medium grained diorite dyke, dark green.	Top 60? Bot ?	Irregular qtz, calc veins weak-mod. throughout.	Locally 5% py in irreg. stringers over 15cm. F.g. brassy yellow.	5% medium grained leucoxene grains.
		21.75 - 22.25: Medium grained				•
		diorite, medium green & white.				
		22.25 - 22.65: Sheared diorite, medium-dark green medium grained(?). 22.65 - 23.05: Medium grained diorite, medium green & white.	Shear 60	Strong calc +/- qtz 2mm - lcm veins.		5% black oxides.
		23.05 - 23.45: Sheared diorite same	Shear			
		as above. 23.45 - 25.56: Medium-coarse grained diorite, medium-dark green & white.	60			
		25.56 - 26.06: Sheared diorite, with strong-intense calcite 1-2mm veinlet parallel to shear.	Shear 45	Strong-intense calcite veinlets.		5% black oxide mineral.
		26.06 - 30.92: Medium grained weakly feldspar porphyritic diorite.		Weak epidote stringers throughout.		Litho BCD #6224 26.40 - 29.40m.
		30.92 - 34.71: Medium-fine grained sheared(?) diorite, note streaky texture + drawn out 5% leucoxene grains. Medium - dark green colour.	Fol'n/ shear 60	Weak - moderate calc +/- qtz veins (2mm avg.).		
34.71 to 35.05	FAULT WITH QTZ VEIN	Colour - white + medium-light green. Grain Size - fine. Fault with gouge margins 5-8cm and qtz vein in center. Top ctc 8cm chl-clay gouge. Bot ctc 5cm clay-chl +/- ser gouge.	Top ctc 40 Bot ctc 60	Clay-chl gouge margins with massive white quartz vein.	1-2% fine grained dissem.py.	,

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	<u>Angle to</u> Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
35.05 to 42.37	DIORITE, MINOR RELATED DYKES	Colour - dark - medium green, + minor white. Grain size - fine-medium grained. Diorite medium-fine grained + dykes similar to above diorite. 35.05 - 35.66: Dark green, fine-medium grained, sheared(?) diorite. 35.66 - 36.35: Medium grained, dark green & white diorite. 36.35 - 37.70: Dark green fine grained diorite, equigranular (sheared ?). 37.70 - 38.17: Fine-medium grained equigranular white + medium grained diorite. 38.17 - 40.80: Dark - medium green, fine-medium grained diorite.	Top ctc 60	Wispy ep stringers (1mm throughout.	••	
		40.80 - 41.30: Fine grained diorite, medium-dark green, weakly feldspar porphyritic. 41.30 - 42.20: Dark green & white feldspar porphyritic diorite. Groundmass - fine grained, 15% 1mm feldspar phenos. 42.20 - 42.37: Fine graned diorite chilled margin, locally feldspar porphyritic, dark green. Ctc with volcanics broken up.	Bot ctc 45?		1–2% dissem.py.	Note reddy- brown hematite on fractures.
42.37 to 42.72	DACITE ASH- CRYSTAL TUFF	Colour - light-medium grey +/- green. Grain Size - aphanitic - very fine. Massive, shattered (crackle- breccia) dacite crystal tuff - ash tuff, with faint green patches (chl?) throughout. Very fine feldspar crystals approx. 15%, mainly aphanitic - silicified ash.	Top ctc ?45 Bot ctc 70	Silicified(?) Calcite hairlike fracture fillings.	No visible sulphides.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
42.72 to 43.02	ANDESITE FELDSPAR- PYROXENE PORPHYRY DYKE	Colour - light-pale green. Grain Size - very fine - fine +/- medium. Narrow siliceous(?) andesite dyke, with streaky flow margins. At margins mafic phenocryst are drawn-out (sheared?) parallel to ctc. 10% mafic 1mm pheno, 10% feldspar (1-2mm phenos.	Bot ctc 35 Sharp	Moderately bleached, tr chl, moderate calcite (1 mm veinlets.	2-3% dissem. fine grained py.	Sharp upper & lower contacts.
43.02 to 51.56	DACITE FELDSPAR CRYSTAL TUFF	Colour - light-medium grey with green cast. Gran Size - aphanitic matrix, fine-medium crystals. Massive, very weakly foliated dacite crystal tuff. Aphanitic siliceous matrix - (silicified?). Feldspar crystals 15-20% (1-2mm euhedral-subhedral white feldspar phenos. Locally wea Ufractured i.e. 50.0m, near crackle breccia.	Fol'n 60? Bot ctc approx 60	Very weak chl +/- ser on fractures + foliation planes throughout. Weak - moderate calcite veinlet (white) line some fractures.	No visible sulphides - 1% dissem. fine grained py.	Very homogeneous looking unit. Mainly 75-90% core recovery, except 50.29 - 51.51 m = 30%. Very blocky throughout. Litho BCD #6210 43.10 - 46.10m.
51.56 to 51.64	ANDESITE DYKE/ FAULT	Colour - medium - dark green. Grain Size - fine - very fine. Andesite dyke (poss. diorite) with gouge - fault lower ctc (2cm) chl-clay.	Bot ctc 45	Chl-clay, milled gouge. Very weak chl in andesite dyke.	No visible sulphides.	
51.64 to 52.73	DACITE FELDSPAR CRYSTAL TUFF	Colour - light-medium grey with green cast. Grain Size - aphanitic matrix, finemedium crystals. Massive, very weakly foliated dacite feldspar (15%) crystal tuff. Similar to above. Locally well fractured.	Bot ctc 80	Silicified(?) or simply very siliceous matrix. Very weak chl/ser throughout on fractures.	Trace py.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
52.73 to 52.85	ANDESITE DYKE -SHEARED-	Colour - medium - dark green. Grain Size - very fine. Brecciated/sheared andesite dyke pseudo breccia with sheared contacts.	Shear 60 Bot ctc 80	Strong chl, tr ep, strong- intense calcite iregular veins heal insitu breccia.	2% dissem. fine grained pyrite.	
52.85 to 52.99	DACITE FELDSPAR CRYSTAL TUFF CRACKLE BRECCIA	Colour - light-medium grey with green cast. Grain Size - aphanitic matrix, finemedium crystals. Similar to above dacite feldspar dacite crystal tuff. Crackle breccia.	Bot ctc 75	Very weak chl on fractures. Strong-intense hairlike irregular calcite veinlets throughout.	2-3% fine grained dissem. py.	
52.99 to 53.03	ANDESITE DYKE	Colour – medium. Grain Size – fine – very fine. Andesite dyke with sheared contacts.	Bot ctc 80	Moderate-strong chl. Moderately bleached locally.	2% fine grained dissem. pyrite.	
53.03 to 54.14	DACITE FELDSPAR CRYSTAL TUFF	Colour - light-medium grey + green hue. Grain Size - aphanitic matrix, fine-medium crystals. Similar to above dacite feldspar (15%) crystal tuff.	Bot ctc ?20	Very weak chl on fract. Moderate-strong hairlike calcite <pre>\text{lmm veinlets} throughout.</pre>	2% py dissem. as blebs.	
54.14 to 58.22	FAULT BRECCIA/ GOUGE (IN DACITE CRYSTAL TUFF)	Colour - light grey - whitish to slightly green. Grain Size - aphanitic matrix, fragments (1mm - 2cm. Fault breccia & gouge in dacite crystal tuff. Crackle-rotational frag supported breccia. (1mm - 2cm 80% frags. 57.92 - 58.22: Gouge clay - ser.	Bot ctc 40	Chl/ser +/- calc +/- clay as matrix to fault breccia - insitu breccia.	Tr - 2% py fine grained dissem. py + blebs.	Avg. 50% core recovery this section.

<u>From</u> <u>To</u>	Rock Type	<u>Texture</u> and <u>Structure</u>	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
58.22 to 61.11	DACITE ASH TUFF - CRYSTAL TUFF	Colour - light grey - green Grain Size - fine - very fine locally medium crystals. Massive - crudely layered(?) dacite ash tuff, local feldspar crystal tuff. Relatively homogeneous looking. Siliceous. Sheared @ 59.89 - 60.12m.	Fol'n 40-45 Bot ctc approx 45	Tr - very weak ser/chl (moderate ser proximal to shear).	(1 - 2% fine grained dissem. py.	Layering poss. parallel to foliation(?).
61.11 to 61.61	ANDESITE DYKE	Colour - dark green. Grain Size - fine - very fine. Massive andesite dyke, sharp contacts. Veryweak foliation weakly feldspar porphyritic (1-2% 1mm Fp phenocrysts. Somewhat sheared at lower ctc. (Poss. not a dyke?).	Bot ctc 55	Moderate chi throughout(?) note calcite veinlets throughout visible upon testing with HCI.	Trace pyrite.	Minor gouge planes near upper ctc. Litho BCD #6211 61.11 - 61.61m.
61.61 to 62.42	DACITE FINE CRYSTAL TUFF	Colour - light-medium grey, slightly green. Grain Size - aphanitic matrix - fine crystals. Massive, siliceous dacite fine feldspar crystal tuff. Similar to above.	Bot ctc 60?	Very weak ser/chl on frac.	1-2% dissem. fine grained pyrite.	
62.42 to 63.44	ANDESITE DYKE	Colour - dark green. Grain Size - very fine. Massive andesite or very fine grained diorite dyke, similar to above dykes, very sharp contacts.		Weak - moderate chl(?). Calcite throughout as moderate veinlets + dissem. style alteration.	Trace pyrite.	

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
63.44 to 67.55	DACITE FELDSPAR CRYSTAL TUFF	Colour - light grey. Grain Size - aphanitic matrix, very fine - coarse crystals. Massive relatively homogeneous feldspar crystal tuff - dacite. Similar to above crystal tuffs, but crystals very conspicuous in aphanitic siliceous matrix. Feldspar 5-25%, (1mm - 2mm, Avg. 15%, 1mm. Lower/Bot ctc is a fault plane (very sharp contact) contact with similar feldspar crystal tuff but is crystal charged and chl altered throughout.	Bot ctc Fault/ shear 70	Tr - very weak chl locally, also moderate chl +/- ser as stringer/envelopes with py. Envelopes range (lcm - 7cm thick. ie) 63.69: lmm, py-chl-ser C/A 45 64.92: 3cm, py-chl-ser, C/A 45 66.60: 8cm, py-chl-ser, C/A 60-80 67.08: 2mm, chl-ser-py, C/A 40	1-3% fine grained dissem. py +/- blebs throughout. Tr cpy blebs at ctc area. Also py as fine-medium grained grains and blebs in dissem. with chl-ser along fractures, up to 15% over 5cm avg. 5-10% py.	Litho BCD #6212 64.00 - 67.00 Note 3% dissem. fine grained black-grey oxide (hem?) throughout interval. Only obvious on cut sections. Note slickenlines on fault plane.
67.55 to 7 4. 37	DACITE FELDSPAR CRYSTAL TUFF +/- MINOR ANDESITE- DACITE CRYSTAL TUFF	Colour - medium-light green & light grey - green. Grain Size - aphanitic - very fine matrix, fine-coarse crystals. Dacite feldspar crystal tuffs. Similar to above but conspicuously crystal-rich, or crystal charged. Feldspar 25-50% avg. 40% throughout most of section. Size range of feldspar phenocrysts (1-3mm avg. 1mm. Section has distinct crystal tuff beds but no layering is present. Beds include crystal charged tuff to 69.39, fine crystal tuff (15%) to 70.22, dacite crystal charged tuff to 72.57, andesite-dacite fine crystal tuff to 72.77. Crystal charged dacite tuff but gradual loss of feldspar, increasing matrix to 74.37m. Note shears with slickenlines at		Variable very weak - moderate chl +/- ser alteration throughout matrix of crystal tuff. 67.55-68.92: Weak - moderate chl +/- ser. 68.92-70.10: Weak chl +/- ser. 70.10-72.24: Very weak - weak ser +/- chl. 72.24-72.57: Weak chl +/- ser. 72.57-72.77: Weak chl, weak ep. 72.77-74.37: Very weak chl +/- ser., mainly fract. Note 1% saussuritized feldspar in crystal charged dacite tuff, weak epidote 3-5% in andesite-dacite bed.	Py 2-8% mainly dissem. as blebs and clusters of fine-medium +/- coarse grained pyrite, avg. 5%. 67.55-70.10: 5% py. 70.10-72.24: 2% py. 72.24-72.57: 3-5% py. 72.57-72.77: 5-8% py. 72.77-74.37: 3-5% py. Minor 1-2mm py stringers in weak-moderate chloritized crystal tuffs.	Litho BCD #6213 67.65 - 69.39m.

69.39 C/A 70, at 72.15 C/A 15.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks •
74.37 to 84.43	DACITE ASH - QTZ EYE CRYSTAL TUFF	Colour - light grey to slightly green. Grain Size - very fine - fine matrix, fine-medium crystals. Massive - crudely alyered(?) dacite fine siliceous tuff with up to 5% qtz eyes. Qtz eyes tr - 5%, avg. 2-3%, qtz eye shape lensoid-round, 1-3mm, avg. 1-2mm. Locally up to 5% feldspar (1-1mm phenocrysts. Matrix varies from very fine (weak ser.) to aphanitic - siliceous. Note qtz eye crystal rich sections 76.80 - 77.00m.	Layering ? parallel to fol'n Fol'n 45-50 Bot ctc Broken- up 45(?)	Variable tr - weak/moderate ser +/- chl throughout. 74.37-79.20: Weak- moderate ser +/- chl. 79.20-84.43: Tr ser +/- chl. Chl/ser on fractures throughout.	1-3% fine grained dissem. py throughout, avg. 2% py. Locally trace cpy.	Litho BCD #6214 75.00 - 78.00m Core Recovery 74.37-76.81=50% 76.81-77.72=75% 77.72-78.33=45%
84.43 to 85.18	DACITE SILICEOUS TUFF/ CRYSTAL TUFF OR DYKE	Colour - light grey to beige. Grain Size - aphanitic groundmass/ matrix, fine-medium crystals. Crudely layered(?), very weakly foliated but has a sheared look, as denoted by streaky mafic (chl) phenocrysts (5%). Feldspar (1-1 mm phenocrysts up to 8%.	Layering approx 45 Fol'n 45-50 Bot ctc 85 sharp	Silicified(?). Very weak chl +/- ser on fractures.	1-2% fine grained dissem. pyrite.	Litho BCD #6215 84.43 - 85.18m.
85.18 to 85.88	ANDESITE DYKE	Colour – dark green. Grain Size – very fine grained. Massive andesite dyke, similar to previous andesite dykes.	Bot ctc 90?	Weak chl. Strong (1mm calcite veins, also micro calcite veinlets throughout. Visible upon reacting with HCl.	Tr - 1% pyrite.	à

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
85.88 to 87.22	DACITE FINE TUFF - CRYSTAL TUFF	Colour - light grey - slightly green. Grain size - aphanitic matrix, fine crystals. Massive, very homogeneous looking fine dacite crystal tuff/siliceous ash tuff. Tr - 2% 1mm qtz eyes, round + angular ((1-2mm). 10-15%(?) ((1mm Fp phens vaguely defined. Ch1 clots dissem., poor outlines 2-5% (after mafic phenos(?)).	Bot ctc 65 sharp Fol'n 55-70	Silicified(?) Tr ser, very weak chl as dissem. clots.	1-2% fine grained dissem. pyrite.	,
87.22 to 88.38	DACITE- ANDESITE FELDSPAR PORPHYRY DYKE	Colour - dark grey-green. Grain Size - aphanitic - very fine groundmass, fine crystals. Massive dacite-andesite feldspar-pyroxene(?) porphyry dyke. 2-3% (1-1mm feldspar phenos, 2-3% (1mm mafic phenos gone to chl. Groundmass is relatively siliceous.	Bot ctc 55?	Very weak selective chloritization of mafic phenocrysts.	(1% pyrite.	
98.38 to 94.25	DACITE ASH/ CRYSTAL TUFF, MINOR DACITE- ANDESITE TUFF/ CRYSTAL TUFF	Colour - light-medium grey to medium-light green grey. Grain Size - aphanitic - very fine matrix, fine-medium crystals. Crudely layered dacite & dacite-andesite tuff + crysal tuff. Fine tuff with qtz eyes throughout. 88.38 - 93.02: Dacite crystal-ash tuff. 2-5% 1-3mm qtz eyes, round-lensoid. matrix is fine ash - feldspar rich. 93.02 - 94.25: Dacite-andesite crystal ash tuff. Medium to light green-grey colour. 2-5% (1-2mm qtz eyes. Note 93.87 - 94.12, 5% qtz eyes.	Fol'n 40-50 Layering 50-40? Bot ctc Grad.	Very weak - locally weakly sericitized. Very weakly sericitized throughout. Weakly bleached weak - moderate chl/ser.	1-2% fine grained dissem. py throughout. Local narrow str. of py-cpy @ 90.05m.+ blebs py-cpy @ 89.95m.	Litho BCD #6216 89.35 - 92.35m. Note bottom ctc based on loss of qtz crystal in tuff, and fining of ash. Note local crenulated tuff fabric. Note shear plane at 93.87m.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	Sulphides	<u>Remarks</u>
94.25 to 96.28	DACITE- ANDESITE FINE - ULTRAFINE ASH TUFF (MINOR CHERTY TUFF NEAR BOT CTC)	Colour - light-medium grey/green - dull. Grain Size - very fine. Very poorly layered fine - ultrafine ash tuffs. Dacite-andesite composition. Relatively homogeneous looking. Moderately foliated. Cherty tuff component in last 30cm of interval.	Bot ctc 70 Broken Layering approx 65 Fol'n approx. 60-70	Weak chl/ser pervasive. Weak - moderate hairlike calcite stringers along fractures.	1-2% very fine grained dissem. pyrite.	No qtz eyes noted. Litho BCD #6217 94.25 - 96.23m.
96.28 to 96.70	CHERT	Colour - medium grey, some light & dark grey. Grain Size - aphanitic. Very weakly foliated (breaks along sheeny planes. Poorly/faintly layered to massive chert. Note localy 3mm brown slumped? beds of chert. Layers have diffuse contacts.	Bot ctc approx 55 Layering 70	Tr - ser/chl on foliation planes. Weak - moderate 1-3mm qtz veins subparallel to layering also 15 C/A.	1% extremely fine grained dissem. py.	Litho BCD #6218 96.28 - 96.69m
96.70 to 98.25	DACITE/ DACITE- ANDESITE FINE TUFF WITH MINOR CHERT AND TUFF- ACEOUS CHERT	Colour - dull medium grey & grey-green. Grain Size - very fine - fine & aphanitic. Poorly layered, very weakly foliated section of ash tuff, cherty tuff art chert. 96.70 - 96.88: Dacite-andesite fine ash tuff, medium-light green-grey. 96.88 - 96.96: Dark grey chert bed, similar to above chert (slight tuff component). 96.96 - 98.22: Laminated tuffaceous chert, dull light-medium grey-green. Note minor folds at 97.00m. Interlaminated chert + tuffaceous chert. Note elongate nodules(?) of grey chert in cherty tuff beds, 8 × 40mm to 4 × 10mm size with vague outlines. 98.22 - 98.25: Massive light - medium grey chert.	Bot ctc 65 shear with slicken- lines Layering 70-75	Very weak - weak ser/chl in tuffs. Tr ser/chl in chert & tuffaceous chert. Weak calcite +/- qtz veinlets 1-2mm.	2-3% fine grained dissem. py, avg. 2% throughout. Tr cpy locally. <pre></pre>	Note nodules/ lobes of chert poss. similar to MTS-26 type chert concretions. Litho BCD #6219 97.00 ~ 98.15m.

<u>From</u> <u>To</u>	Rock Type	<u>Texture and Structure</u> .	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
98.25 to 98.34	FAULT	Colour - Very light green & white. Grain Size - aphanitic - very fine matrix, fine - medium frags. Narrow fault with slickenlines on hangwall & footwall in dacite- andesite tuff(?).	Bot ctc 35 with slicken- lines	Calcite + qtz stockwork near crackle breccia. <1-3mm veins. Strongly bleached, very weak ser.	3-5% py as (1mm str. + disseminations.	
98.34 to 100.69	DACITE- ANDESITE TUFF & LOCAL INTERLAM- INATED CHERTY TUFFS.	Colour - dull medium-light green-grey. Grain Size - very fine - fine +/- aphanitic. Weakly foliated, crudely-poorly laminated dacite-andesite fine ash + interlaminated tuff/ cherty tuff. 98.34 - 98.98: Dacite-andesite fine ash tuff, crudely laminated. 98.98 - 100.51: Dacite/dacite-andesite fine poor-moderately laminated tuffs, weakly foliated. Individual laminations 2-8mm thick. Bands are light-medium greenish (dacite-andesite), & light-medium grey (dacite +/- cherty tuff).	Bot ctc 85 Layering 70	Very weak - weak chl/ser in tuffs. Very weak chl/ser. Very weak - weak chl/ser.	1-2% fine grained dissem. py throughout. Local 1mm str. py at 100.24m. 3% py dissem. parallel to lower contact.	Litho BCD #6220 98.98 - 100.46m.
		Some layers are disrupted with angular breaks. 100.51 - 100.69: Contact margin, aphanitic siliceous light-medium brown with 5% dark green clots/ sheared phenocrysts.		Biotite at ctc, poss. hornfels.	3% py at contact.	Poss. the diorite here but shear is parallel to layering.

From To	Rock Type	Texture and Structure	Angle to Core Axis	Alteration	<u>Sulphides</u>	Remarks
100.69 to 164.70	FELDSPAR PORPHYRY MEDIUM GRAINED DIORITE (WITH LOCAL SHEARED	Colour - medium-dark green - medium green. Grain Size - very fine - medium. Massive feldspar porphyry & medium grained diorite, locally sheared, local diorite dykes. Feldspar porphyry diorite has 5-15% feldspar phenos 1-2mm in very fine grained	Top ctc 80	Very weak chloritization. Weak calcite veinlets throughout & moderate- strong calcite veins - irregular, in sheared intervals.	No visible sulphides - (1% pyrite.	
	DIORITE + RELATED DYKES)	groundmass. 100.69 - 100.81: Fine grained diorite chilled margin, medium-dark green. 100.81 - 103.90: Feldspar porphyry diorite, medium green.	Top ctc 80		<1% pyrite.	
	*	103.90 - 104.60: Fine grained medium green diorite dyke(?).	Top ctc Grad Bot ctc 45	Weak ep wispy veinlets.		
		104.60 - 105.10: Feldspar porphyry diorite medium green. 105.10 - 106.68: Hornblende porphyry diorite dyke, white - medium green, fine - medium groundmass, 15% 3 X .5mm hornblende needles, 30cm chilled margin at base of interval. 106.68 - 108.28: Feldspar porphyry diorite medium-dark green & white.	Top ctc 45 Bot ctc 50		2-3% dissem. fine grained pyrite.	
		108.28 - 109.06: Sheared feldspar porphyry diorite, medium-dark green.		Moderate calcite veins.		ż

From To	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
		109.06 - 110.32: Feldspar porphyry diorite medium-dark green. 110.32 - 110.77: Sheared fine grained (feldspar porphyry?) diorite, medium-dark green, loclly brecciated. 110.77 - 113.42: Medium green		Wispy ep str. + veins. Moderate calcite veins 2-4mm with brecciated margins.		
		feldspar porphyry diorite. 113.42 - 113.80: Fine grained shear diorite, medium-dark green pseudo breccia. 113.80 - 114.55: Medium grained - weakly porphyritic diorite.	Shear 60	Strong parallel irregular calcite veins +/- qtz heal insitu breccia.		
		114.55 - 125.15: Strongly shered feldspar porphyritic diorite + medium grained diorite. Note narrow 10-25cm sections weakly sheared. Poss. a fault(?). Pseudo breccia to 118.00m.	Shear 30	Strong parallel irregular calcite +/- qtz veins heal insitu breccia. Calcite flood in this interval throughout. Locally up to 10cm qtz veins.		Calc + qtz +/- hem veins, hem also on fracs. Note localy 5-8% leucoxene dissem. in strongly
		125.15 - 128.05: Medium grained weakly feldspar porphyritic diorite. 128.05 - 129.23: Fine grained diorite, medium-dark green pseudo breccia. Similar to above breccias. Strongly sheared. 129.33 - 135.53: Medium grained, weakly feldspar porphyritic diorite. White & medium green - dark green.	Shear 30	Strong-intense calcite veins heal pseudo breccia.		sheared secions as streaky grains.

<u>om</u> Co	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
		135.53 – 144.40m: Medium-dark green diorite strongly sheared fine grained pseudo breccia to breccia	Shear 60-45	Strong-intense calcite flood/veinlets heal insitu breccia.		
		(some rotation). Locally weakly sheared feldspar porphyry diorite.	T			
		144.40 - 146.70: Medium grained diorite, medium-dark green & white.	Top ctc Grad. Bot ctc 30			
		146.70 - 149.02: Fine grained diorite pseudo brecia. Similar to above. 149.02 - 155.61: Medium grained				Litho BCD #6221 146.73 - 148.86m.
		white + medium-dark green diorite. 155.61 - 158.03: Fine grained diorite, dark green strongly sheared pseudo breccia, similar to above.	Shear 50			
		158.03 - 160.67: Medium grained diorite white - medium green.		Wispy ep str. throughout.		
		160.67 - 164.70: Breciated fine grained diorite cross-cut by irregular calcite veins/veinlets weak - moderately sheared.				Note start of hem frac. coatings at 162.90m.

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u> .	Sulphides	<u>Remarks</u>
164.70 to 216.29	FAULT ZONE	Colour - dark - medium green +/- white, reddy brown on frac. Grain Size - very fine - medium. Fault zone consists of variably sheared diorite, fine - medium grained diorite, clay gouge and		Calcite veins weak-intense vary. Hem +/- calc on fract. Very weak chl throughout.	No visible sulphides - tr locally.	
		pseudo breccia. 164.70 - 172.49: Sheared medium grained diorite, light-medium green, minor fault gouge @ 165.60 - 165.81. Note streaky look with hem & leucoxene grains.	Shear 60-45	Calcite throughout, parallel shear also stringer veinlets 1mm parallel shear. Hematite on fract. Shear fabric cross-cut by wispy ep-chl stringers.		Very blocky this interval.
		172.49 - 174.66: Medium grained equigranular diorite, poss. hornblende diorite. Mafic needles are hem. stained. Dark green +		Weak epidote. Hematite on fractures with calcite veins.		
		white-pale green colour. 174.66 - 180.00: Dark green, fine grained diorite, massive. Locally moderately sheared +/- clay gouge. 180.00 - 181.36: Fault breccia, shattered fine grained dark green diorite healed by calcite.		Hematite fracture coatings. Moderate locally strong calc irreg. veins. Hematite fratures. Irregular moderate-strong chl.	Tr pyrite.	Extremely blocky (50% core recovery.

Rock Type	<u>Texture and Structure</u> .	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	Remarks
	181.36 - 182.71: Medium grained equigranular white + dark green diorite. 182.71 - 185.61: Strong - moderately sheared diorite, fine-		Hem stained mafics + hem frac. coatings. Strong-intense calcite irregular veins parallel to		Very blocky interval (60%
	medium grained pseudo breccia. 185.61 – 192.50: Medium grained equigranular white + dark green diorite. Similar to above. Locally sheared. Well fractured.		foliation heal pseudo bx. Calcite veins heal frac.		core recovery. 189.39-194.46 core box spilled before being logged.
	192.50 - 196.00: Moderate-strongly sheared, fine - medium grained diorite + fault breccia (slight rotation, angular frags, calcite matrix) + clay gouge (40cm approx. @ 193.24m).	Gouge approx 10	Similar to above sheared diorite + clay-chl gouge.		
	196.00 - 198.33: Medium grained diorite, light green/white - medium-dark green, equigranular.		Strong calc heals insitu breccia.		
	198.33 - 199.13: Strongly sheared diorite pseudo breccia. 199.13 - 204.23: Fine-medium grained diorite, dark green, faint white.		Moderate-strong hem +/- calc veins/fract. coatings.		Some frac. hem rich. Very blocky.
	204.23 - 209.70: Dark-medium green strong-moderately sheared diorite, locally pseudo breccia. 209.70 - 210.98: Medium grained	35-40 Shear	Locally moderately bleached calc veinlets, irregular orientations.		Hem in fracs. Litho BCD #6222 204.83 - 207.37m
	diorite, pale green - dark green. 210.98 - 211.53: Moderately sheared diorite, same as above. 211.53 - 216.29: Medium grained diorite, equigranular, dark green - whitish feldspar. Locally moderately sheared.				Note lower boundary of fault zone marked as disappearance of hem on frac. + non blocky ground.

From To

<u>From</u> <u>To</u>	Rock Type	Texture and Structure	Angle to Core Axis	<u>Alteration</u>	<u>Sulphides</u>	<u>Remarks</u>
216.29 to 245.36 E.O.H.	DIORITE MEDIUM GRAINED - FELDSPAR PORPHYRY	Colour - medium-dark green +/- white. Grain Size - very fine - medium. 216.29 - 221.67: Weakly sheared diorite pseudo breccia, medium-dark green, fine-medium grained. 221.67 - 226.70: Medium grained weakly feldspar porphyritic diorite, medium green + white.	Shear 45-60	Calc irregular but parallel to shear heal insitu breccia.		
		226.70 - 238.67: Moderate-strongly sheared, fine-medium diorite, medium grey-green. Streaky look. Local gouge + pseudo breccia. 238.67 - 245.36: Medium green & white medium grained weakly feldspar porphyritic diorite.	Bot ctc 70	Flooded with calc parallel to shear, but not as distinct veins.		Note streaky leucoxene. Litho BCD #6223 234.55 - 237.25m. Very blocky from 244.00 - 245.35m. Note minor shears @ 244.50, 245.20, 240.20 Minor gouge in shears.

MAJOR OXIDES

TRACE ELEMENTS

SAMPLE NUMBER	FROM (m.)	TO (m .)	SiO ₂	Al ₂ Ο ₃	CaO	MgO	Na ₂ O	K _i O	Fe()	MnO	TiO;	Ва	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Sr%	Zr%	As ppm	Sb ppm	Total
6209	9.50	12.50	48.69	17.42	9.77	3.83	2.55	0.40	12.30	0.28	2.45	.016	249	90	25	2.3	5	0.04	.011	18	1	97.77
				r											, <u>.</u>							
6224	26.40	29.40	48.48	16.02	9.83	5.66	2.34	0.23	12.59	0.27	2.22	.008	162	64	18	1.6	5	0.03	.011	6	1	97.69
								· · · · · · · · · · · · · · · · · · ·							,				•		_	· · · · · · · · · · · · · · · · · · ·
6210	43.10	46.10	67.79	16.10	1.66	3.11	5.60	1.12	2.30	0.05	0.40	.058	4	33	14	0.2	15	0.03	.006	2	1	98.22
	•								y								.					
6211	61.11	61.61	52.85	18.80	5.99	4.81	3.39	1.78	9.02	0.26	0.74	.035	34	80	11	0.8	5	0.03	.005	14	6	97.71
	-								.		,											
6212	64.00	67.00	72.98	14.36	0.79	1.08	6.83	0.52	1.24	0.02	0.37	.017	89	19	3	0.1	10	0.02	.005	7	1	98.23
6213	67.65	69.39	56.76	19.34	3.18	3.71	8.26	0.20	6.04	0.10	0.48	.011	706	49	7	0.6	10	0.03	.010	12	5	98.11
														•								
6214	75.00	78.00	72.03	13.69	0.99	2.67	1.21	3.14	3.92	0.11	0.28	.093	298	91	6	0.2	5	0.01	.005	16	3	98.14
						4	•		·	•						T	·		,		,	
6215	84.43	85.18	72.09	14.60	1.02	1.77	3.70	2.09	2.24	0.10	0.32	.069	88	1608	17	0.1	20	0.02	.005	12	2	98.02
											a_											·
6216	89.35	92.35	70.02	14.16	0.96	3.93	1.96	2.23	4.31	0.23	0.31	.068	644	262	72	1.0	10	0.01	.005	15	3	98.19
										•		·					· · · · · · · · · · · · · · · · · · ·				·	
6217	94.25	96.23	61.35	16.51	1.08	6.22	2.91	1.46	7.44	0.34	0.67	.059	178	550	9	0.4	5	0.02	.005	25	5	98.05

Hole No	MTS-31	Entered by	Logged byM. J. Gray	Page No

ZIPPY PRINT * -- BRIDGEPORT, RICHMOND

MAJOR OXIDES

TRACE ELEMENTS

			MAJOR OXIDES								TRACE ELEMENTS											
SAMPLE NUMBER	FROM (m)	T() (m)	SiO,	Al ₂ O ₃	CaO	MgO	Na ₂ O	K _i O	FeO	MnO	TiO;	Ва	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Sr%	Zr%	As ppm	Sb ppm	Total
6218	96.28	96.69	76.26	9.22	0.55	4.52	0.25	1.26	5.25	0.30	0.43	.051	182	1022	19	0.5	5	0.01	.005	17	3	98.10
																,						
6219	97.00	98.15	75.23	9.67	0.27	3.51	0.98	1.51	4.28	0.25	0.29	.062	847	374	9	1.2	25	0.01	.005	19	4	96.06
										_												
6220	98.98	100.45	56.04	19.15	1.06	6.42	5.47	0.77	7.69	0.59	0.76	.046	180	187	17	0.5	10	0.02	.005	16	3	98.03
									·	·····												
6221	146.73	148.86	49.34	15.83	9.42	4.96	2.90	0.56	12.07	0.26	2.39	.014	134	69	18	1.1	5	0.03	.009	16	5	97.79
6222	204.83	207.37	50.54	16.84	12.26	2.69	1.42	1.34	10.09	0.25	2.11	.044	118	61	21	0.4	5	0.03	.008	20	10	97.62
6223	234.55	237.25	43.03	18.98	10.76	5.24	3.99	1.03	11.61	0.26	2.65	.017	6	58	25	0.5	5	0.03	.010	17	9	97.61
																.	,					
		i													<u> </u>							
										.	···							ļ			,	
																					<u> </u>	
																÷			,		·	
					<u> </u>	<u></u>													.		<u></u>	
							•		,			·		γ		·	·				1	,
								<u> </u>													<u> </u>	L

Hole No	MTS-31	Entered by	Logged by M. J. Gray	Page No	20

. ZIPPY PRINT - - BRIDGEPORT RICHMOND







