

RIO ALGOM EXPLORATION INC.

DIAMOND DRILL LOG

PROPERTY: Gullbridge

HOLE No.: GB-150

Collar Eastings: 740.00

Collar Northings: 4470.00

Collar Elevation: 0.00

Grid: MAIN 1988

Mineralization previously intersected.

Collar Inclination: -56.50

Bearing: 285.00

Final Depth: 1136.92 metres

Purpose: Deep test south of GB-148 to delineate the plunge of the alteration and

Logged by: S.M. Pudifin

Date: Oct. 24, 1991

Down-hole Survey: Tropari

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
0	3.68	OVERBURDEN								
3.68	58.85	MAFIC VOLCANIC WITH MINOR INTERFLOW FELSIC-INTERMEDIATE TUFFS	199101	57.00	57.50	0.50	34	5	60	32
- Medium to dark green with local irregular diffuse brownish patches; commonly crosscut with irregular discontinuous whitish, buff coloured ± brownish ± green veinlets/wisps. - Fine- to medium-grained. - Massive, yet exhibits weak foliation locally: 45° CA @ 4.20 m, 50° CA @ 35.90 m. - Composition too fine-grained to obtain % qualitatively: chlorite, amphiboles, feldspars, Qtz?; ± 2% quartz-calcite; garnet ± variable epidote veinlets or wisps; up to 2% local fine-grained magnetite; local strong to moderate magnetism; brown patches due to minor local biotite. - Minor local disseminated pyrite. - Core is generally hard, indurated; pieces of core = 45 cm to <1 cm, averaging = 15 cm. Minor loss of core in strongly fractured zones particularly near contacts with felsic tuff horizons. Fractured or rubbly zones @: 4.40-4.57 m; 13.82-14.20 m, 17.22-17.70 m (brecciated loss of 18 cm core). Local ground up core @ 4.50 m; 8.00 m. - Contacts with felsic tuffs sharp and variable. Upper contact with dyke @ 27.95 m over = 20 cm buff coloured speckled clay alteration. Lower contact of dyke: mafic volcanic is coarser (medium) grained and more crystalline. Interflow Felsic Tuffs @ 6.35-7.65 m; 17.89-20.40 m; 21.34-23.00 m. 6.35 7.65 Felsic Tuff/Flow - Medium to light grey-buff coloured; mottled locally with blackish green specks/spots. - Fine-grained to aphanitic.										

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Upper half of interval is massive and gradually becomes moderately well foliated @ 30° CA @ 7.55 m. - Core is composed mainly of quartz with minor variable sericite?, porphyroblastic spots (4.5 mm to 1 mm) appear to be chlorite + magnetite = 4-5%, they are stretched out parallel to foliation. - Minor thin qtz-sericite + calcite + epidote veinlets @ variable angle to CA; local weak magnetism to strong magnetism near lower contact. - No visible sulphides. - Fractured but 100% recovery. - Upper and lower contacts are sharp; upper @ 60°, lower @ 45° CA.								
17.89	20.40	Feldspar Quartz Crystal Tuff - Medium grey with darker greyish green wisps and porphyroblasts. - Medium-grained to fine-grained matrix and medium-grained crystals. - Strongly to moderately strongly foliated @ 45-50° CA. - Composed of = 45-56% quartz; 25-38% chlorite; 10% feldspar crystals; 10% sericite (note = 10% of quartz is crystals = 0.5-1 mm); = 19% of chl is porphyroblastic; = 1% light green lapilli fragment; minor local light green asicular tremolite? alteration. - Non-magnetic.								
		- Local fine-grained disseminated py; one fragment = 5 mm x 2 mm replaced by fine-grained py. - Competent; 100% recovery. - Upper contact obscure @ 46° CA; lower contact @ 60° CA (defined by disappearance of crystal fragments).								
21.34	23.00	Quartz Feldspar Crystal Tuff - Similar to above, foliation @ 40° CA; contacts @ 45° CA.								
25.37	25.60	Quartz Feldspar Crystal Tuff Band - As above; upper contact @ 55° CA is light grey and siliceous; lower contact is sharp @ 40° CA and defined by a								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		lower few cm of very fine-grained py (<0.5%) and carbonate (cc) wisps.								
27.95	31.05	Mafic Dyke								
		- Dark grey.								
		- Very fine-grained to aphanitic; hard.								
		- Massive, no foliation; network of hairline carbonate ± ep fractures; brecciated "crackle" appearance; significant chlorite but compositions difficult to determine due to fine-grained size; hard core.								
		- Strong to moderately strong magnetite; very fine-grained local py.								
		- Upper contact is bleached lighter grey @ 25° CA; lower contact similar but fractured; could be @ 30° CA (str. epidote).								
40.40	41.71	Felsic Tuff								
		- Similar to 6.35-7.45 m.								
		- Medium to light greenish-grey to buff coloured; fine-grained to medium-grained; moderately well foliated @ 20° CA.								
		- Composed of mainly quartz with minor traces sericitic alteration along foliation; "spots" of chlorite common; minor trace fine-grained disseminated py generally associated with qtz veinlets.								
		- Non-magnetic.								
		- Hard, competent; ground core @ 41.25 m; 100% recovery.								
		- Contacts irregular, sharp.								
45.07	46.55	Quartz-Feldspar Crystal Tuff								
		- Medium grey green colour; fine to coarse grey. Moderate to weakly developed foliation @ 45° CA (locally finely crenulated).								
		- Composed of mainly quartz (50%) as well as ~ 5% quartz fragments; 1-2% local blue quartz eyes; 10% feldspar crystal fragments; 10% brownish "worn" biotite; 15% chlorite blebs (dark = 5%, light = 10%); no sulphides.								
		- Non-magnetic.								
		- Competent, 100% recovery.								
		- Upper contact @ 45° CA; lower contact @ 85° CA.								
49.85	52.20	Felsic Tuff								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Light greyish-green; medium-grained to coarse-grained; weakly to well-developed foliation @ 45° CA. - Composed of quartz (45%) + 5% quartz crystals/fragments; 35% chlorite (15% as dark green blebs (5 mm diameter + 20% lighter green chlorite); 10% feldspar crystals; ± 5% other (lithic frags etc.). - Minor pyrite disseminated. - Non-magnetic. - Competent core, but blocky @ 49.92 m. - Upper contact sharp, planar @ 42° CA; lower contact highly irregular; almost interfingering. NOTE: 50.35-51.19 m: dark greyish green colour; fine-grained; weakly to locally moderately developed foliation @ 30° CA. - composed mainly of quartz (composition too fine to tell), moderate chlorite; moderate to strongly magnetic; more uniform texture. 57.61 58.85 Mainly Quartz-Feldspar Crystal Tuff, Ash? Tuff and Cherty Sediment (Dyke?) - Similar to that described above with conformable bands/beds from 2-5 cm and 25 cm wide of cherty dark grey massive aphanitic rock which is hairline fractured (epidote filled); up to 0.5% local fine-grained py; strongly magnetic. - Sharp upper contact @ 45°; lower contact is cherty undulating @ 78°.								
58.85	289.65	MAFIC VOLCANIC (Several Dykes)	199102	116.20	117.20	1.00	65	2	20	10
		- Dark green to local black - dark green intervals (dykes); fine- to medium-grained. - Massive to local foliation defined by irregular quartz-calcite + brownish red garnet veins/blebs/patches @ 50° CA (i.e. @ 64.50 m); remainder is generally massive; local porphyritic zones. - Rock too fine to determine composition; fine-grained subhedral feldspar laths; chlorite content is variable and generally high and occurs generally as specks, but also as a fine-grained part of the matrix.	199103	119.25	120.25	1.00	57	3	12	10

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)

- Locally variable magnetite content; moderate to weak local magnetism.
- Alteration occurs mainly as veins (qtz-cc-ep-serigt) or irregular intervals of pervasive brownish or greenish carbonate (dolomite?) ± qtz; local silicification.
- Some veins are vuggy and range from 2 cm to 1 m wide (i.e. 110.00-114.00 m; 157.40-157.45 m; calcite vein @ upper contact 85° CA & lower contact @ 65° CA.
116.20-117.10 m: pervasive calcite (50-60%) with ± 30-35% qtz ± epidote ± minor sericite; weak foliation @ ± 50° CA in upper half; strong mt.
119.25-120.25 m: similar to 16.20-117.10 m, but fragments of mafic volcanic up to ± 10 m x 3-4 cm in carbonate-quartz matrix, also strongly magnetic; fragments of mafic volcanic often replaced by massive reddish-brown garnet; local trace py.
163.15-16.38 m: qtz-cc-ep veins & network of veins @ 35° CA.
- Core is generally competent and very hard ("hornfelsed"); rubble @ 163.56-163.80 m; broken core (± 2-4 cm) @ 164.19-164.29 m (adjacent to qtz-cc-ep vein).
- Local narrow fault zones, i.e. with local brecciation and/or clay/gouge such as: Fault Zone: 89.31-89.70 m; 98.00 m; local fault: gouge @ 56° CA; 98.00-99.00 m: anastomosing network of thin ± calcite & qtz veinlets.
- Local brecciation.

65.34 65.59 Quartz Feldspar Crystal Tuff

- As described @ 45.07-46.55 m; local qtz-ep flooding; non-magnetic; trace to negligible py; sharp upper contact @ 32°, sharp lower planar contact @ 20° CA.
- Minor local py; trace minor cp.

Dykes are common:

59.00 108.21 Porphyritic Dyke

(Could be centre of flow?)

- Medium- to coarse-grained - grading into finer grained zones.
- Massive; 2-25% subhedral - feldspar laths in fine-grained matrix of feldspar; chloritized amphiboles ± qtz & thin qtz-ep-cc veinlets; variable orientation though commonly @ 30-40° CA.

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FROM	TO	LITROLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Strongly magnetic. - Local fine-grained disseminated pyrite. - Competent. - Upper contact brecciated; lower contact also brecciated (over 2 ca); contacts are also defined by appearance of coarse feldspar phenocrysts. Other dark fine-grained, commonly weakly prophyritic dykes are generally massive and have moderate-strong uniform magnetism; all contacts generally sharp and "chilled"; usually unaltered. 162.57 163.19 Mafic Dyke - Fine-grained, non-porphyritic; upper contact @ 55° CA; lower contact @ 45° CA (irregular) contacts are generally carbonatized. 177.14 177.68 Diabase Dyke - Upper contact at 50° CA, lower contact @ 50° CA. 180.83 185.22 Mafic Dyke - Upper contact not distinct; lower contact @ 55° CA (irregular). 185.76 185.81 Diabase Dyklet - Upper contact @ 45° CA; lower contact @ 55° CA. 195.58 196.19 Diabase Dyke - Upper and lower contacts @ 50° CA. NOTE: 196.19-211.84 m: Mafic Dyke - strong cc alteration: 5-10% patchy pervasive irregular zones of brownish-yellowish green carbonate (oxides) ± qtz ± garnet (could be dolomite) anastomosing veinlets of chlorite. 209.51 210.33 Diabase Dyke - Irregular upper contact @ ~ 45° CA; sharp, planar, lower contact @ 60° CA. 212.21 216.40 Diabase Dyke								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)

- Fine-grained margins grading into coarser centre, sharp upper contact @ 50' CA.

NOTE: 216.40-237.50 m: Variable, but strongly altered mafic volcanic hosting dykes; mainly (5-8%) calcite patches and irregular veins or discontinuous veinlets; often causing core to look brecciated; carbonate oxidizes from whitish to brownish yellow; green epidote and brownish-red garnet commonly occurs in these patches.

- Variable, but generally weak to non-existent magnetism.

Mafic dykes (as previously described):

218.46-218.51 m: upper and lower contacts at 50' CA.

219.21-220.79 m: upper contact @ 78' CA; lower contact @ 50' CA.

222.41-223.90 m: upper contact @ 54' CA; lower contact @ 45' CA.

230.77-232.74 m: upper contact @ 53' CA; lower contact @ 55' CA; margins are very fine-grained, grading into coarser-grained porphyritic mafic-intermediate lighter green dyke.

241.81-246.67 m: upper contact @ 51' CA, irregular sharp lower contact @ 40' CA.

249.08-254.29 m: upper contact @ 35' CA (irregular); lower contact @ 45' CA; porphyritic similar to 230.77-232.74 m - non-magnetic except at the drilled contacts.

254.29-255.12 m: upper contact @ 45' CA.

265.34-267.06 m: upper contact @ 15' CA (irregular); lower contact @ 35' CA; 5% euhedral to subhedral feldspar phenocrysts (= 1-2 mm); often feldspars are zoned.

272.59-274.62 m: very fine-grained dark grey-black mafic dyke, upper contact @ 63' CA; lower contact @ 90' CA.

237.00 277.92 Mafic Volcanics

- Often crosscut by thin calcite veinlets showing local brecciation (= 5%) minor local chlorite along selvages; trace fine-grained biotite local such as @ 270.80 m; no foliation.

- Broken core @ 276.56-276.70 m; lower contact @ 20' CA.

277.49-277.92 m: quartz-calcite veins define foliation @ 30' CA.

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
289.65	416.02	MAFIC VOLCANIC (variable strong to moderate magnetism)	199105	302.50	304.50	2.00	54	3	23	14
			199106	307.50	309.50	2.00	59	3	24	10
			199107	353.55	354.60	1.05	42	4	31	102
			199109	400.85	402.00	1.15	28	3	21	10
		- Similar to above but fewer dykes and locally stronger magnetism (fairly uniform from 354.90-416.02 m). - Fine-grained, massive dark greenish-grey mafic volcanic flow local zones are feldspar-phyrlic, i.e. from 289.65-295.88 m. Local brecciated appearance resulting from narrow (0.5-3 mm) anastomosing calcite-siderite? veinlets, i.e. from 289.65 to 295.88 m (4%), poor to non-developed foliation. - Weak alteration; qtz-calcite veins (0.5%); some host epidote and occasionally traces of epidote; stronger irregular calcite veins and veinlets (= 2-3%) from 408.75-416.02 m; narrow strongly carbonatized intervals exhibit well developed foliation, i.e. 317.43-317.70 m @ 40° CA; 326.73-327.29 m @ 48° CA; 334.75-335.82 m @ 30-40° CA. Local silicified zones often with minor carbonate and fine-grained disseminated st; dark chloritic slips common along ends of core pieces. - Core is mafic volcanic but too fine-grained to determine percentages; very hard, indurated core locally. - Generally strong to moderate local magnetite, strong magnetite in areas where up to 3% disseminated 'clots' (very fine-grained to 3 mm diameter) are present; strongest magnetite zones also associated with minor py ± po. - Mineralization mainly minor fine-grained disseminated py and local trace po and cp? commonly in more chloritic domains and also along fractures. - Core generally competent but local blocky broken core zones as well as fault rubble and gouge. - Broken core @ 310.29-310.52 m (15-20° CA); @ 312.42 m @ 40° CA; @ 315.70-315.78 m @ 50° CA; 336.00 m @ 25° CA; 377.40-377.50 m @ 60° CA; 390.80-391.50 m (8 cm to 2 cm pieces) narrow chilled dykelets; 396.75-402.95 m; core broken mainly in pieces = 4 cm-10 cm @ 45-70° CA. 313.20 315.40 Porphyritic Intermediate Dyke - Not-magnetic; broken upper contact; lower contact @ 40° CA.								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
323.16	323.78	Fault - Upper contact @ 60° CA and lower contact @ 90° CA; strong carbonate-rich gouge. - Mafic unit hosts narrow tuffaceous and cherty interflow intervals which exhibit well-developed foliations.								
295.68	296.34	Fine-grained Tuff(?) - Intensely carbonatized and moderately chloritic. Foliation @ 90° CA; non-magnetic; no sulphides; contacts @ 90° CA.								
353.10	354.90	Cherty Interflow Sediment - Light grey; fine-grained to aphanitic, locally massive, but foliation defined by fine darker laminations @ 20-25° CA; composed mainly of quartz with minor chlorite + sericite along fractures; central part of interval looks like mafic chloritic volcanic which hosts up to 2% fine-grained clots of massive magnetite. - Wavy grey quartz veins rimmed with minor calcite (2 mm-1 cm wide) occur parallel to foliation at 20-25° CA; up to 6.5% fine-grained disseminated py; trace po?; weak local magnetism. - Upper contact @ 33° CA; lower contact @ 40° CA.								
362.80	364.10	Cherty Felsic Interflow Sediment/Tuff and Silicified Mafic Volcanic - Light grey; aphanitic - amorphous cherty unit consisting essentially of quartz followed by silicified strongly chloritic mafic volcanic which has mottled grey and dark green appearance. - Weak local wt; pervasive diffuse silicification with minor carbonate patches. - Minor disseminated py along chloritic slips. - Upper contact is very irregular. Lower contact is fractured into pieces of core ~ 2-3 cm (90° CA).								
365.20	365.65 and 367.15-373.05	Porphyritic Intermediate Dyke - Massive; medium greenish grey with up to 3-5% chloritized amphibole crystals; dioritic in composition, thin epidote + Qtz + calcite fractures.								

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FROM	TO	LITROLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Non-magnetic; no sulphides. - Finer-grained contacts coarsening to ≈ 1 mm towards centre of unit. - Upper dyke: upper contact @ 35' CA & lower contact @ 45' CA. - Lower dyke: upper and lower contacts @ $\approx 50'$ CA. NOTE: @ 364.65-364.85 m - brecciated dyke fragments up to 3 x 5 cm.								
399.90	402.55	Porphyroblastic Intermediate Flow - Medium-light grey; fine-grained to locally aphanitic. - Massive to poorly developed foliation defined, locally, by elongation of chloritic porphyroblasts @ $\approx 31'$ CA. - Rock is composed mainly of chlorite; tremolite?; sericite; chlorite comprises $\approx 10\%$ of the core as ragged-edged porphyroblasts 6.5 mm to 3 mm diameter; chlorite also occurs along fractures at 400.69-400.82 m; irregular epidote-qtz-garnet veins @ $\approx 15'$ CA; local silicification from irregular qtz veins @ ≈ 401.35 m (3-4 mm wide) @ $\approx 30'$ CA. - Local weak magnetite especially along contact. - Trace local disseminated py. - Core is hard and blocky; breakage ≈ 15-3 cm pieces. - Upper contact is irregular, silicified and parallel to CA to ≈ 401.36 m; lower contact @ $\approx 20'$ CA.								
402.55	405.22	Mafic Volcanic - As described in main unit, but strong pervasive chlorite; fine-grained and homogeneous; upper part of interval hosts a discontinuous wavy brownish carbonate, qtz with minor garnet ($\approx 4\%$); no foliation, negligible sulphides; uniformly weak to moderately magnetic.								
405.22	426.00	Fractured Cherty Unit - Light grey; fine-grained to amorphous; fractured; up to 5% qtz veins often with brownish carbonate generally @ 48' CA but variable. - Composed mainly of quartz. - Non-magnetic. - Trace minor disseminated py. - Very hard.								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Upper contact sharp and irregular W = 12' CA; lower contact sharp & 20' CA defined by appearance of dark green porphyroblasts as seen from 399.90-402.55 m.								
		406.00 407.50 Porphyroblastic Sediment or Intermediate? Flow								
		- Similar to 399.90-402.55 m; lower contact not clear - grades into mafic volcanics which are crosscut by carbonate veins; up to 15% local porphyroblasts.								
		407.50 416.02 Carbonate Veined Mafic Volcanic								
		- Similar to 402.55-405.22 m; crosscut by irregular veins and patches of white carbonate (calcite) (8-10%).								
		- Local brecciation of mafic from cc veining from 410.53-410.66 m; @ 25' to CA.								
		- Moderate to weak st.								
		- Negligible sulphides; trace py. po.								
416.02	490.40	FRACTURED FELDSPAR-PHYRIC MAFIC VOLCANIC (with narrow cherty interflow intervals)	199110	416.00	417.00	1.00	89	3	12	10
			199111	432.00	434.00	2.00	83	2	19	23
			199115	443.23	443.98	0.75	67	4	39	10
		- Fine-grained to aphanitic dark grey-green with white subhedral feldspar phenocrysts 1-2%, 0.5 mm to 2 mm diam; variable narrow intervals are not porphyritic.	199116	443.98	444.10	0.12	92	5	36	10
		- Core is strongly carbonate-veined and locally fractured; veins are predominantly calcite (and oxidized calcite or siderite?) occasionally with qtz and comprise 2-12% of the core, though generally @ 4%; veins are crosscutting and variable ranging between = 25-70' CA, but generally around 50-55' CA. Some carbonate occurs as medium-grained patches over = 10 cm causing local brecciation and as veinlets, (0.5 mm to = 0.5 cm.	199117	444.10	444.50	0.40	101	5	40	10
			199118	444.50	445.80	1.30	69	2	32	10
		- Composition is similar to above mafic unit though magnetite is much more variable and tends to increase towards bottom of interval; generally, it occurs as weak to moderately magnetic patches along cc veins or veinlets (= 3-4 cm wide).	199119	445.80	446.53	0.73	70	2	34	13
		- Unit is strongly altered resulting from carbonate-qtz veins. Bleached light green silicified qtz & gt & cc & ep zones with irregular contact comprise = 2% of interval such as @ 427.60-	199120	446.53	447.00	0.47	74	3	43	10
			199112	447.00	448.00	1.00	73	2	12	10
			199113	455.10	456.10	1.00	195	2	40	10
			199114	474.88	475.88	1.00	73	3	27	10
			199121	488.50	489.00	0.50	85	4	24	30
			199122	489.00	489.61	0.61	387	805	2028	4
			199123	489.61	490.40	0.79	100	209	109	10

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							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		429.46 m; 439.68-439.78 m. - Qtz-carbonate-tourmaline? vein = 1 cm wide parallel to core axis present from = 450.80-452.50 m and a similar vein (possibly the same) occurs from = 464.50-459.40 m. - Chlorite content is variable though generally high. - Core is generally competent but localized blocky zones suggest narrow fault zones: 426.88 m: minor gouge & rubble @ 65° CA. 442.57-442.77 m: gouge @ 55° CA. 469.00 m: rubble (fractured qtz vein); core broken @ 50° CA.								
		442.77 446.53 Interflow Chert/Sediments/Felsic Flow 442.77-443.23 m: Salmon coloured cherty tuff/rhyolite fine-grained to amorphous; mainly qtz with minor qtz-carbonate; chlorite along fracture surfaces; non-magnetic; trace minor fine-grained py along fractures. Upper contact is gouge (shear) @ 55° CA. 443.23-443.98 m: Chlorite argillaceous sediment; fine-grained dark green; poorly developed foliation; crosscut by thin carbonate veinlets; trace very-fine-grained py. 443.98-444.50 m: Rhyolite tuff/chert medium grey to greyish green; fine-grained; mainly qtz and chlorite along foliation, strong patches of carbonate; moderate to weak magnetism; 1 cm wide chert band @ = 65° CA; = 2-3% very fine-grained dissen. py occurring parallel to the core axis. 444.50-445.80 m: Intensely carbonatized chloritic metasediment/tuff similar to 443.23-443.98 m; weak local magnetite poorly developed foliation @ 50° CA; lower half of interval is siliceous and very hard; negligible mineralization. 445.80-446.53 m: Rhyolite/cherty tuff; rusty greyish-green; fine-grained; foliation developed from rusty carbonate veinlets @ = 60° CA; greenish colour due to chlorite content along foliation planes.								
		446.53 470.67 Porphyritic Mafic Volcanic - As previously described.								
		470.67 489.00 Non-Porphyritic, Variably Altered Mafic Volcanic								

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							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Generally massive as previously described but locally well developed foliation as @ 474.88-475.88 m @ = 65° CA; moderate to weak local magnetite as fine-grained disseminations but also irregular patches of magnetite in chlorite clots often surrounding silicified medium-light grey domains (could be interpillow material); minor local fine-grained py. Lower contact brecciated over 30 cm in carbonate-chl-sericite matrix.								
478.53	479.06	Mafic Dyke								
		- Dark grey, minor very fine-grained feldspar phenocrysts massive; weakly magnetic; no sulphides; sharp upper contact @ 55° CA; sharp planar lower contact @ 45° CA.								
489.00	489.61	Felsic Tuff (mineralized)								
		- Light grey, fine-grained, fractured, giving rock irregular foliation @ = 70° CA; composed mainly of qtz but strong chlorite and sericite along foliation, weak local mt, dark grey qtz veinlets concentrate patches of reddish sphalerite = 1%; = 2-3% fine-grained disseminated and patches of py mainly in chloritic domains; minor fine-grained galena also associated with sphalerite in siliceous domains as well as along chloritic slips.								
489.61	490.40	Foliated Mafic Volcanic or Mafic Tuff								
		- Similar to mafics above felsic tuffs but foliated @ = 55° CA; softer due to chlorite content though locally very hard; carbonate = qtz veins parallels foliation; weakly magnetic, locally, minor fine-grained disseminated py.								
498.40	507.75	GABBRO (centre of flow)								
		- Dark greyish green; massive; coarse-grained crystalline; not foliated; interlocking subhedral equigranular crystals of mainly amphibole; = 1% narrow carbonate veins hairline to 2 mm wide (variable angle to CA) porphyritic from 507.75 m; unaltered, not magnetic; minor to trace disseminated fine-grained py.								
		- Generally hard and competent; upper contact defined by calcite vein @ 30° CA.								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Broken core @ 494.68-495.00 m.								
		501.28-501.35 m: Bleached finer-grained with lot cc veins @ 65° CA.								
		501.35-501.45 m: Narrow tuffaceous felsic-looking unit foliated @ 65° CA, actually multiple qtz and qtz-cc veins; minor gouge at lower contact; non-magnetic; no sulphides.								
		- Gabbro unit becomes fine-grained from ~ 506.00-507.75 m.								
		507.75 m: Medium-grained gabbro or coarse and medium-grained mafic volcanics with up to 3-4% subhedral white feldspar phenocrysts (<0.25 mm to 2 mm).								
507.75	539.00	MEDIUM-GRAINED GABBRO GRADING INTO FINE-GRAINED MAFIC VOLCANIC	199125	537.35	537.75	6.40	69	21	180	10

- Similar composition to coarse-grained gabbro; generally porphyritic with up to 3% subhedral 0.5-3 mm diameter white feldspar phenocrysts.

- Relatively unaltered except for numerous thin calcite ± quartz veins comprising ~ 1% of interval; local silicification such as at 522.76-522.88 m (pillow margin?).

- Negligible magnetism but below 527.00 m local strong patches of magnetic rock as fine-grained disseminations often in more chloritic ± cc zones over 2-5 cm.

- Minor local disseminated py often along qtz-cc or chlorite slips.

- Generally competent, hard.

- Broken core @ 520.10-520.23 m (uneven break).

- Ground-up broken core @ 532.40-534.93 m: 1.85 m/2.60 m recovered (71% recovery here - due to core lost down the hole).

537.35-539.00 m: Well-foliated mafic volcanic and up to 10 cm felsic inter-flow sediments which generally host up to 1% very fine-grained disseminated py in upper part of interval; foliation @ 55° CA, non-magnetic.

539.00 548.74 DIABASE DYKE

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Fine-grained, homogeneous (equigranular) massive unfoliated diabase dyke; unaltered; minor very thin cc veinlets - uniform moderate magnetite; trace fine-grained py. - Upper lower contacts are chilled over ~ 30-20 cm sharp and respectively @ 42" CA & 60" CA.								
548.74	573.49	MAFIC VOLCANIC	199126	554.50	556.00	1.50	81	2	35	13
			199127	565.50	566.00	0.50	161	2	20	38
			199128	568.73	569.68	0.99	15	4	34	10
			199129	571.50	573.00	1.50	574	5	68	10
		- (Variably increasing Fe-Mg alteration, i.e. st-chl-qtz-ep) - Similar to mafic volcanics above diabase dyke, compositionally. - Textures and structure is variable; generally massive yet narrow; local intervals show weak-moderate foliation occasionally defined by thin local subparallel qtz-cc-ep-ep veinlets, i.e. @ 80" CA. Qtz-cc-ep-ep veinlets also locally folded as @ 557.15-557.40 m. - Alteration consists mainly of irregular local silicification as veinlets or patches (2%) commonly with carbonate; epidote and garnet, i.e. 529.78-529.91 m; irregular intervals over 2-15 cm are moderately chloritic with variable amounts of magnetite + carbonate; locally moderately to weakly magnetic; 568.16-569.63 m consists of strongly silicified cc-ep-ep (25%) with irregular qtz-ep-ep fragments (~ 3-4 cm). - Minor fine-grained pyrite increasing down hole with trace minor pyrrhotite and local trace cp along chloritic slip. - Competent core except at dyke margins where core is fractured.								
570.00	570.96	Mafic Dyke								
		- Very fine- to fine-grained dark grey; massive; weakly magnetic; no sulphides; upper contact @ 40" CA (broken core), lower contact sharp @ 35" CA. - Lower contact defined by presence of light green silicified ovoid patches and strong magnetite + disappearance (much less) garnet.								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
573.45	529.72	Fe-Mg ALTERED MAFIC(?) MAGNETIC VOLCANIC	199130	575.15	576.05	0.90	13	2	40	29
		- (py-po stringers) with definite tuffaceous intervals.	199131	576.05	576.55	0.50	299	12	128	28
		- Medium-dark grey green with light green irregular ovoid spots/patches; fine-grained.	199132	576.55	578.00	1.45	27	5	54	10
		Unit is generally homogeneous and massive, but certain intervals show well developed foliation in tuffs and strongly chloritic zones; minor evidence of light grey waxy siliceous rock, which suggests protolith may have been felsic in some domains. Foliation especially well developed from 575.15-576.55 m @ 50-52° CA; sulphide banding defines foliation @ 592.45 m @ 50° CA and at 593.00 m @ 60° CA. Rock looks like mafic volcanic but has appearance of felsic protolith in domains where irregular light grey waxy siliceous "fragments" occur.	199133	592.00	593.50	1.50	191	8	45	10
		- Composition consists mainly of quartz/feldspar? chlorite (after amphibole), magnetite, local fine-grained brown biotite. Alteration consists of pervasive disseminated fine-grained magnetite (up to ~ 4%) though magnetite also occurs as massive irregular veins or blebs such as @ 596.67 m over ~ 2 cm and at 603.45-603.48 m. Irregular ovoid silicified patches with epidote (giving it green colour) and commonly rimmed with chlorite comprise ~ 3-4% of interval, especially to 605.05 m; local strongly chloritized zones also present such as @: 587.70-588.00 m and 592.45-593.20 m; 506.03-606.05 m; 607.95-608.75 m; 611.30-611.40 m.	199136	593.50	595.00	1.50	96	2	22	10
		- Minor "ghost-like" spots (after cordierite) occurs @ 603.65-603.75 m.	199137	603.15	603.75	0.60	25	3	39	10
		- Minor narrow qtz and/or calcite veinlets (negligible compared to upper cc-veined mafic volcanics).	199138	605.03	606.50	1.47	46	6	47	10
		- Mineralization consists of variable fine-grained disseminated pyrite (becoming needle-like) as well as semi-massive accumulations of discontinuous bands & stringers (<0.5 mm to 5 cm); pyrrhotite is associated with pyrite band also occurs as disseminated blebs or bands. Py, po generally occur in strongly chloritic intervals with minor carbonate. From 592.00-593.50 m ~ 4-5% po, 2-3% py make up the sulphide content as disseminated and semi-massive accumulations in bands (50-60° CA) up to 5 cm wide.	199139	606.50	608.00	1.50	42	4	36	10
		- Core is generally hard and competent.	199140	608.00	609.00	1.00	39	9	109	10
			199141	611.00	612.00	1.00	33	6	57	10
			199142	614.00	616.00	2.00	13	5	38	10
			199143	621.55	623.00	1.45	18	6	29	10

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Narrow distinct surfaceous intervals present.								
574.31	574.48	Felsic Tuff								
		- Light grey, siliceous foliated rock @ 50° CA; non-magnetic; no sulphides; sharp contacts are epidote-rich @ 50° CA.								
575.15	576.55	Quartz Crystal Tuff								
		- Medium grey-green, fine-grained matrix with medium-grained subrounded quartz eyes.								
		- Composed mainly of siliceous material with ~ 30-40% chlorite-sericite-biotite. Minor carbonate along foliation of ~ 50° CA. Intensely chloritic from 576.05-576.55 m with ~ 4% discontinuous py stringers with minor po; minor gouge @ lower contact over 2 m @ 60° CA.								
576.55	576.78	Chloritic Quartz-Eye Tuff								
		- Looks like massive mafic volcanic except host ~ 0.5% blue quartz-eyes; gradational lower contact defined by disappearance of quartz-eyes.								
605.03	606.85	Felsic Tuff								
		- Strongly chloritic matrix with ~ 10% irregular light grey felsic "fragments" up to 1-2 cm diameter; upper half of interval hosts 5-8% rounded quartz-filled "amygdules"; minor fine-grained py occurs around felsic fragments as well as in amygdulcs; upper contact is sharp @ 50° CA, lower contact is brecciated over 2 cm and hosts more disseminated py (2%)								
606.05	626.62	Chloritic Mafic(?) Volcanic Interbedded with Qtz-Eye Tuffs								
		- Fine- to medium-grained. Medium green with somewhat "mottled" texture resulting from minor dark greyish green porphyroblasts and more chloritic or felsic domains.								
		- Generally well developed foliation @ 45-60° CA, i.e. 45° @ 615.90 m and 616.90 m.								
		- Composed of variable qtz, sericite, chlorite, feldspar?; up to 5-8% local diffuse-ghost-like porphyroblasts (cordierite) from 0.3 cm to 0.5 cm - ragged outlines.								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS			
						WIDTH	Cu(ppm)	Pb(ppm)	In(ppm)
		- Very strong magnetic occurs as semi-massive bands along which py & po tends to occur (= 1%) and as fine-grained specks up to 4-5% (particularly from 621.55-626.62 m). - Most of core looks mafic except definite felsic Qtz crystal tuff intervals, i.e. @ 618.75-618.93 m. - Some chloritic intervals host grey siliceous wormy-looking remnant felsic rock (618.93-621.55 m). - Sulphide content occurs as stringers of py (= 1% locally) with minor po and semi-massive magnetite, stringers; py also occurs as fine- to medium-grained disseminations. Core is generally competent; ground worn core @ 619.02-619.15 m and 619.50-610.60 m. Broken core @ 626.48-626.62 m.							
626.62	629.72	Quartz-Eye Crystal Tuff - Light-medium greyish and greenish grey; fine-grained siliceous ground mass with grey translucent Qtz-eyes up to 5%; 15-20% chlorite; minor sericite along core breakage surfaces. - Strongly magnetic (fine-grained disseminated). - No sulphides. - Foliation well developed @ 50° CA. - Quartz vein = 0.4-0.5 cm wide @ 626.70 m. - Core is competent; = 30-40 cm breakage. Lower contact @ 30° CA; gradual upper contact.							
629.72	657.80	MAFIC VOLCANIC (strongly magnetic) - Medium grey green, fine-grained, "granular" homogeneous core exhibits very weak foliation or massive appearance. - Too fine-grained to outline composition though chlorite content is generally high particularly along fracture surfaces; very minor carbonate stringers (< 0.5%) generally @ = 40° CA. Very strong magnetite content as fine-grained disseminations = 2-3% and massive discontinuous stringers (1-2%) often within quartz veinlets; minor siliceous epidote patches = 3-4 cm x 2 cm rimmed by chlorite; subrounded dark green fragment(?) @ 650.45 m (non-magnetic). - Sulphides = minor disse py in strongly magnetic zones. - Generally competent core except @ 646.76-646.88 m (broken							

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		upper contact @ 60'; uneven lower breakage @ 45'; 651.63-651.75 m (uneven breakage); 657.16 m @ 45' CA. - Lower contact @ 30' CA; silicified.								
657.60	668.10	QUARTZ-EYE CRYSTAL TUFF								
		- Similar to 626.62-629.72 m, but poorly developed foliation; local silicification is ~ 2% qtz veins; ~ 2-3% blue qtz-eyes. - Weakly magnetic. - Minor, local disseminated pyrite; broken core - fault @ 665.31 m @ 70' CA. 664.24-665.06 m: Mafic volcanic? agglomerate? chlorite ± sericite? fracture surfaces. Rock is more chloritic, massive, homogeneous without qtz-eyes with felsic light yellowish-grey fragments? or could be localized silicification; - sharp upper contact @ 65' CA; diffuse lower contact defined by more siliceous character of the rocks and presence of qtz-eyes. - Lower contact is sharp; irregular @ 40' CA.								
668.10	685.20	MAFIC DYKE (composite zones)								
		- Dark grey; fine-grained generally to medium-grained with coarse-grained zones over 1 cm to 30 cm. - Core is generally massive homogeneous though crosscut by numerous thin quartz-carbonate veinlets. - Composition of fine-grained sections difficult to determine though coarse-grained qtz-plag-chl-mag domains are present within the more mafic finer-grained dyke (probably what was referred to in old underground logs as 'composite dyke'). The coarse-grained intervals have distinct but somewhat gradational contacts defined by coarser crystallinity, i.e. @ 677.06-677.45 m - silicified more felsic part of dyke upper contact @ 677.20 @ 20' CA. - Alteration is mainly ~ 0.5-1% thin qtz and/or qtz-cc veinlets; chlorite commonly present along fracture surface, as with minor-variable calcite; minor silicified intervals with pervasive epidote, i.e. @ 671.75-671.90 m and @ 678.92-679.00 m. Moderately magnetic, pervasive fine-grained wt 2-3% - negligible								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		sulphides. - Core is generally competent but breaks along qtz ± carbonate veinlets or fractures. - Broken core @ 680.05 m; core strongly fractured (brownish carbonate) from = 682.90-682.06 m - Sharp lower planar contact with = 10 cm very fine-grained chilled zone @ 50' CA (cc vein).								
685.20	775.20	WEAK-MODERATE Fe-Mg VARIABLY ALTERED (MAGNETITE-QTZ-EP) MAFIC VOLCANIC - Fine-grained dark green with irregular light green (ep) and zinc pink (gt) patches. - Poor developed foliation; generally massive but patchy nature of alteration. - Core is mafic, but too fine-grained to determine composition. - Intense-strong Fe-Mg alteration as pervasive chloritization, and disseminated variable fine-grained magnetite (= 1-5%) as well as semi-massive to massive bands or irregular stringers of black magnetite (= 5% overall). Irregular patches over = 5-12 cm of silicification with light green epidote (some areas are coarse radiating acicular crystals, i.e. @ 709.08 m); pinkish garnet often associated within these zones; this pervasive irregular qtz-ep alteration comprises = 5% locally of interval; = 2-3% local qtz or qtz-cc veins (hairline-1 cm wide) overall but from 689.00-690.00 m silicification is about 40% of interval. From = 710.30-710.75 m: patches or bands of ghost-like diffuse silica filled amygdulose? - Core is generally competent though commonly fractured, i.e. 690.34 m; 762.67-762.40 m (1-3 cm pieces). - Pyrite occurs as trace or up to 0.5% disseminated or as narrow platy stringers in strongly chloritic or magnetic zones; trace fine-grained speck cp(?) NOTES: From = 756.50-775.20 m, mafic volcanics are not as altered as in upper part of this interval, i.e. epidote-	199146	690.00	691.00	1.00	273	3	17	10
			199147	699.50	701.00	1.50	166	2	18	12
			199148	701.00	702.50	1.50	72	2	16	14
			199149	711.00	712.00	1.00	165	2	17	16
			199150	721.85	722.50	0.65	843	2	19	10
			199151	739.45	741.45	2.00	7	2	18	10
			199152	741.45	742.00	0.55	8	3	20	10
			199153	745.85	747.35	1.50	11	2	10	10
			199154	750.20	751.20	1.00	17	3	15	10
			199155	753.50	755.50	2.00	9	2	17	10

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Sn(ppm)	Ba(ppm)
		silicification is local and only ~ 2-3% of interval; magnetite stringers are more scattered though core is still moderately and more or less magnetic (= 1-2% massive at along veins & ~ 2-3% to <1% finely disseminated at; negligible sulphides.								
775.25	780.55	MAFIC DYKE								
		- Fine-grained, greyish-green. - Massive, homogeneous, crosscut by <0.5% minor qtz-cc-ep planar hairline veinlets @ 60-90'. - Composition diabasic. - Strong to moderate pervasive magnetism as fine-grained disseminations of the core. - Very hard; contacts are chilled. - Negligible mineralization. - Upper contact sharp, planar @ 40' CA; lower contact core is ground, but sharp @ 40' CA, followed by qtz-cc vein.								
780.55	796.45	MODERATELY-STRONGLY ALTERED Fe-Mg FELSIC LAPILLI TUFF	193157	792.00	794.05	2.00	8	2	20	10
		- Medium-dark green, fine-grained to locally medium-grained though some intervals are aphanitic; mottled light grey. - Contorted, schistosity is strong but variable 35' CA @ ~ 770.80 m; 22' CA @ 794.00 m. - Composition is difficult to determine due to alteration but felsic 'wormy' irregularly shaped light grey 'fragments' appear to be felsic and qtz-rich and comprise ~ 35-40% of core in a chlorite-sericite + variable magnetite 'matrix' or 'host'; some 'fragments' appear to be dark grey amorphous chert (1-2%). - Pervasive chlorite and lesser sericite are main alteration products; minor calcite along local fractures with or without minor epidote; local brecciation cemented with calcite @ 793.05-793.20 m. - Strongly magnetic; irregular massive patches, stringers or disseminations (~ 5%). - Mineralization consists of minor local disseminated py. - Core is competent but broken @ 788.89 m @ ~ 45' CA and @								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		795.15 m (irregular). - Lower contact seems to "interfinger" with more massive mafic volcanics (10-30° CA).								
796.45	890.50	MAFIC(?) VOLCANIC	193158	811.00	813.10	2.00	6	2	27	10
		- Mt-chl-sil (could be pillowed flow).	193159	833.00	833.35	0.35	6	3	24	10
		- Variable Fe-Mg.	193162	849.00	850.10	1.10	34	2	12	10
		- Medium-dark green; very fine-grained to aphanitic; some intervals are strongly foliated.	193161	866.75	868.26	1.51	48	5	56	10
		- Compositionally, the rock appears to be a mafic volcanic but percentages difficult to determine due to fine-grain size; darker green intervals are soft and strongly chloritic; irregular intervals of very hard indurated core which appears to be very siliceous; silicification is present as cherty narrow irregular bands up to 5 cm as well as patchy Qtz-ep accumulations which are variable (~34); epidote is light apple green and in quartz veins occurs as acicular radiating crystals.	193164	866.26	868.63	0.37	533	4	32	10
		- The siliceous cherty intervals commonly occur next to a strongly chloritic zone - actually could be interpillow felsics and/or interflow chert. Minor calcite veins of varying degrees to CA though @ 826.35-833.75 m, anastomosing cc veinlets comprise ~ 1-24 local brecciation, probably representing flow tops with cc matrix @ 793.10-793.22 m; 796.40-796.43 m; 811.30-811.36 m; 817.05-817.10 m.	193163	877.80	878.30	0.50	25	2	12	17
		- Variable ubiquitous mod to weak magnetism though locally intense magnetism as irregular massive stringers 20-50° CA or patches commonly associated with Qtz-ep altered domains.	30001	886.00	888.00	2.00	5	5	31	15
		- Minor local pyrite mainly in late Qtz ± ep veins.								
		- Generally competent except @ 803.50-803.75 m; locally brecciated 804.07-804.20 m; fractured (10 cm-2 cm) from 804.30-805.15 m; 805.80-805.90 m; 809.30-809.50 m (5 cm-1 cm); 814.00-814.45 m; 823.00-823.20 m; 828.75-829.00 m; 854.70-854.90 m; 862.15 m and 862.35-864.58 m (rubble 2 x 0.5 cm).								
		- Thin (= 2-3 mm) magnetite appears to mark the contact(?) between more siliceous rock, i.e. 799.30-799.70 m (50° and 40° CA respectively).								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
808.80	810.75	m: Slightly lighter green colour and very hard, quartzose; upper at contact vein @ $\approx 20^\circ$ CA; lower contact @ 45° CA.								
811.55		m: 4 cm qtz-cc-ep vein @ 10° CA.								
812.00	812.30	m: Foliation defined by silicification bands: ep @ 15° CA changing to $\approx 4^\circ$ CA @ 812.30 m.								
814.13	826.24	m: Very fine-grained; strongly pervasive chlorite grading into slightly more siliceous rock towards bottom of interval; negligible qtz-ep. - slightly mottled from ≈ 815.00 -816.00 m; minor salmon-coloured carbonate along chloritic fracture surface.								
826.24	833.75	m: Strongly-intensely chloritic with thin discontinuous creamy calcite veinlets ($\approx 2\%$); local strong foliation defined by chl and carbonate veinlets; i.e. 827.95-828.18 m @ 22° CA.								
833.00	833.75	m: foliation @ 42° CA with - 1% disseminated py along fractures.								
833.75	838.75	m: mafic volcanic as previously described.								
838.75	839.00	m: foliation well developed @ 40° CA; core is very hard and indurated and cannot be scratched with steel except in locally chloritic zone; although core is almost as hard as rhyolite; it is dark green and has the appearance of mafic volcanic; local light green silicification and associated ep as irregular veinlets or patches comprising $\approx 2\%$ or less, light grey 'wormy' siliceous or cherty intervals often rimmed with stronger chlorite may represent interpillow felsic tuffs or chert; generally cherty intervals have irregular contacts;								
849.55	850.10	m: irregular wormy cherty 'fragments' along chloritic vein subparallel to CA; 22 - 35° CA (siliceous zones) i.e. 846.73-846.80 m; 858.00-858.32 m.								
		- Magnetism is generally weak overall, but varies to strong locally (particularly adjacent or within interpillow intervals); negligible sulphides.								
		- Lower contact @ 22° CA (wormy silicified domains in chl matrix (interflow or interpillow).								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
858.70-866.75 m:		silicified and epidotized mafic volcanic; similar to above but with abundant irregular patches of qtz-ep (occasionally with associated gt) comprising ~ 15-20% of interval; epidote is coarse-grained and asicular from 865.22-865.80 m in strong pervasive silicified interval, some late crosscutting qtz veins; minor reddish hematite stain along fractures; rubble from 862.35-862.58 m (qtz-ep along fractures) weak wt; sharp lower contact @ 40' CA (lowermost 12 cm appears to be mafic chloritic lapilli tuff with foliation @ 45' CA).								
866.75	868.26	Mafic Dyke - Fine-grained dark grey; very fine-grained; homogenous cherty minor narrow calcite veinlets @ ~ 50' CA; strong to moderate magnetism as fine-grained disseminations; minor to 0.5% very fine-grained disseminated and fracture-controlled py, competent, sharp lower contact @ 35' CA.								
868.26	884.13	Mafic Volcanic? - (similar to 883.75-858.75 m) - Contains frequent 'interflow' felsic or cherty tuffs? - Medium-dark green; very fine-grained. - Core appears to be massive yet locally exhibits moderate foliation defined by more felsic or siliceous intervals with more chloritic intervals; core is very hard - indurated and competent, breaking at a high angle to generally perpendicular to core axis. - Magnetism ubiquitous but variable weak to moderate to locally strong in more altered intervals where irregular patches of chlorite with occasional actinolite and wt occur. - Mottled amorphous chert occurs as bands or coarse irregularly-shaped fragments from 2 cm to ~ 10 cm (~ 1-2% of interval). - Some ghost-like lighter grey carbonatized fragments ~ 1 mm to ~ 1 cm occur in darker green matrix (resembles a lapilli tuff, yet contacts are not clear). - Minor late veins, i.e. minor pygmatic qtz-ep veinlets or irregular patches; ~ 0.5% cc ± qtz veins (generally @ 45' to CA) @ 878.10 m, cc veinlet with red tinge due to hematite or jasperoid fragments; local qtz flooding as at 877.80-877.95 m and 880.45-880.80 m.								

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Fe(ppm)
		- Core is competent. - Trace local very-fine-grained py and cp as @ 868.38 m. - Sharp lower contact with felsic ash tuff @ 20' CA.								
884.13	884.57	Felsic Ash Tuff - Light greenish-grey; very fine-grained; soft clay rich; well developed foliation. - Fault @ 884.15 m: gouge; fractured ± 58' CA; local brecciation and qtz-ep veinlets ove = 1-2 cm above gouge and beneath to lower contact. - Non-magnetic. - Negligible sulphides. - Sharp irregular lower contact @ = 30' CA with dyke.								
884.57	890.25	RYHOLITIC PORPHYRITIC DYKE - Light pinkish grey; aphanitic. - Massive, yet exhibits banding from clay rich ash tuff(?) 2 ss-2 cm wide fractures @ 35' or 40' CA particularly near contacts over ± 50 cm. - Composed essentially of qtz with minor chloritic porphyroblasts; rhyolitic in composition. Alteration restricted to clay and calcite along fractures, and minor hematite giving core pink hue. - Weakly to non-magnetic; minor fine-grained disse py along fractures. - Competent, yet breaks along fractures in upper part of interval (2-8 cm). - Sharp lower contact @ 48' CA; minor clay & cc along contact.								
890.50	892.20	MAFIC DYKE - Very fine-grained; dark green-grey. - Massive, minor hairline qtz ± ep veinlets generally @ 50' CA. - Too fine-grained to determine composition; very hard, strongly magnetic (fine-grained part of rock). - Minor fi grained disse py.								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		- Sharp lower contact @ 45' CA.								
592.26	914.16	MAFIC VOLCANIC	30002	906.60	907.00	1.00	315	2	18	10

- (Possibly pillows) Similar to 796.45-890.50 m.
 - Dark grey-green fine-grained to aphanitic. Mostly massive though local narrow intervals exhibit structure such as possible pillow margins or interflow intervals where core is generally siliceous or silicified with irregular light green Qtz:ep patches or veinlets; minor cherty intervals; minor narrow Qtz-flooded intervals; these intervals have variable, often irregular, contacts and orientation to CA; minor cc ± Qtz veins; local stronger chl intervals as well as minor chl-actinolite discontinuous veins as @ 906.09 m.
 910.65-912.65 m: Qtz:cc:ep vein subparallel CA.
 - Light grey felsic and/or cherty irregularly shaped fragments occasionally present within interflow intervals, i.e. 900.44-900.50 m. Cherty intervals at:
 894.32-894.38 m: Chert.
 895.65-895.77 m: Brecciated Qtz-ep patches; 60° CA.
 895.58-896.12 m: Interflow tuff with felsic frags up to 0.5 cm; strong massive magnetite wisps @ ~ 89° CA; broken core.
 896.66-896.70 m: Same as above; contact @ 70° CA (competent).
 878.08-878.14 m: Chert, upper contact @ 45°; lower contact irregular.
 878.51-878.66 m: Qtz-ep silicified patch.
 898.50-899.00 m: Cherty with Qtz-ep silicification, irregular contacts.
 903.28-903.37 m and 903.50-903.57 m: Cherty.
 908.38-908.67 m: Qtz flooding.
 - Variable magnetism; generally weak but locally strong.
 - Minor local fine-grained disseminated py; often with interflow/pillow margins.
 - Generally indurated and competent.
 906.45-906.80 m: Broken up core resulting from Qtz-cc:ep vein ~ 0.5 cm wide subparallel to CA; minor to 0.5% fine-grained py associated with fractures.

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
914.16	954.50	MAFIC VOLCANIC	30003	914.16	915.16	1.00	55	4	27	10
			30004	915.16	917.35	1.50	123	3	24	10
		(Contains high tuffaceous component - pyritiferous-qtz-ep.)	30005	917.35	919.13	1.75	1060	3	35	10
		- Similar to mafic volcanics described above but stronger	30006	924.50	921.35	0.80	89	2	25	16
		silicified; epidote altered patches in which pyrite and trace	30007	924.16	925.16	1.00	25	2	17	19
		pyrrhotite is associated; locally up to 15-20% irregular	30008	925.16	927.00	1.84	729	4	20	10
		qtz-ep patches with up to 2% py and trace po associated with	30009	931.00	931.80	0.80	260	2	28	10
		these altered zones; narrow pygmaic qtz-ep veinlets (up to	30010	937.25	937.60	0.55	215	2	21	16
		3 m wide) also tend to host variable disseminated py. Trace	30011	944.50	946.66	2.60	112	2	15	10
		minor fine-grained ep observed; mineralization is also sparsely	30012	952.00	954.50	2.00	57	2	12	10
		present within interflow/pillow tuffaceous intervals. High								
		tuffaceous component; generally aphanitic and homogeneous								
		between tuffaceous intervals.								
		- Magnetism is more variable; generally weak-moderate but								
		locally strong as discontinuous narrow stringers.								
		- Foliation is still variable though better developed than upper								
		unit due to more abundant tuffaceous intervals.								
		- Very fine-grained dark grey mafic dykelets at:								
		931.60-931.90 m: 30' CA.								
		933.00-933.06 m and 933.11-933.14 m: @ 35' CA, interflow units.								
		915.15-916.10 m: Qtz flooding; chl-ep; @ 2-3% py, trace po?								
		contacts @ 43' CA.								
		917.30-917.38 m and 919.65-919.54 m: Lapilli tuff 0.2-0.5 cm								
		to ash? tuff; minor py; contacts @ 50' CA.								
		924.85-924.95 m: Silicified, chloritic interflow tuff; upper								
		contact @ 70' CA, lower contact @ 65' CA.								
		922.28-922.34 m: Chloritic tuff; well developed foliation @								
		55' CA; mt band @ 2 m wide.								
		922.56-922.60 m: Chert fragments; irregular diffuse contacts.								
		924.16-924.30 m: Chert with ep alteration and qtz-ep veinlets;								
		massive mt blebs; chloritic contacts; upper contact @ 20' CA.								
		925.16-925.70 m: Cherty tuff with chl-ep-py (2%) foliated @								
		50' CA: some massive homogeneous intervals ash??								
		925.20-927.00 m: 10 cm lapilli tuff interval grading into								
		massive 10 cm interval (ash tuff??) followed by chert and								
		irregular qtz-ep alteration patches; minor to 0.5% disseminated and								
		accumulated py.								
		929.85 m: 2 cm wide qtz-cc rimmed by chl:ser vein @ 25' CA.								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		931.85-931.46 m: Siliceous; bleached, giving core felsic appearance followed by chl-serp + minor fine-grained py to = 731.85 m. Foliation varies from 50° to 26° CA.								
		933.85-934.00 m: Brecciated mafic volcanic sealed with calcite matrix; veins @ 34° CA - minor gouge @ 933.85 m. Suggests small fault.								
		937.25-937.88 m: Siliceous with light grey irregular chert; poorly defined contacts.								
		939.35-939.46 m: Tuffaceous chl-qtz-ep with wormy lapilli fragments and ~ 2 cm wide chert band with sharp irregular undulating contacts.								
		942.76-943.00 m: Cherty tuff over ~ 6 cm grading into massive aphanitic siliceous rock; tuff? (doesn't show foliation).								
		944.00-945.00 m: Massive dacitic rock?; aphanitic; medium grey-green; generally homogeneous yet local qtz flooded intervals; irregular narrow thin hairline rusty (siderite?) veinlets often with carbonate; minor fine-grained disseminated py associated with qtz-ep patches.								
554.50	1056.40	VARIABLE PORPHYRITIC MAFIC VOLCANIC	36013	961.00	962.00	1.00	16	2	15	18
		- Fine-grained, mottled dark grey-green with light green, cream or white feldspar phenocrysts and silicified + epidote patches.	3314	1048.12	1049.10	0.98	101	2	884	18
		- Generally massive, though locally foliated, particularly in interflow tuffaceous intervals which appear to grade into chloritic massive flow rock; diffuse contacts defined by presence of felsic fragments. Tuffaceous intervals are not porphyritic and more common to = 963.02 m.	30015	1055.00	1056.00	1.00	35	2	111	18
		Composition: mainly chloritic, rock can be scratched with steel knife though extremely hard in local silicified domain. Subrounded qtz-ep patches from 2 mm-0.6 cm and local altered feldspar phenocrysts from 1 mm to ~ 0.5 cm; phenocrysts have ragged, irregular crystal shape and appear to be brecciated.								
		- Minor tuffaceous interval seems to grade into chloritic massive flow.								
		- Minor disseminated py.								
		960.00-960.15 m: Tuffaceous intervals. Irregular cherty								

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)

fragments in chloritic matrix; foliation variable and poorly developed 20-50° CA.

960.70-960.85 m: Light grey elongated 'worn' fragments in upper 3 cm followed by well foliated chloritic rock @ 55° CA.

962.35-963.02 m: Upper contact @ 45° CA, lower contact @ 25° CA; poorly developed foliation as the felsic irregularly shaped, fragments do not appear to show any preferred orientation.

Beyond 963.02 m, feldspar phenocrysts are ubiquitous from 0.1 cm to ~ 0.5 cm, generally = 2-3 mm; subhedral to anhedral; many are partially resorbed and/or band saussuritized cores. Variable unit of phenocrysts. Phenocrysts comprise 2% to ~ 15% locally; irregular light green silicified and epidote patches comprise ~ 1-2% of interval; these intervals and their contact zones are not porphyritized; these silicified zones have irregular contacts and can be as wide as ~ 38 cm, i.e. from 996.00-998.38 m, or as smaller patches which look like fragments as at 968.96-969.35 m, or which coalesce and almost look like vesicles toward bottom of interval.

- Unit hosts minor calcite veins at various angle to CA, as well as minor Qtz:cc veins. At 996.75-996.75 m, white bull Qtz vein with irregular contacts and coarse asicular radiating anthrophyllite at the selvages; minor oxidation of Qtz-cc veins; minor fractures are coated with clear white radiating acicular tremolite(?).

- Minor brownish-red Qt? associated with epidote beyond 1000 m.

- Toward bottom, core is hard and appears to be dacitic.

- Core is competent, core breakage ~ 8 cm - 1 m.

- Broken core @ 944.00 m @ ~ 65° CA.

- Fault @ 1013.05 m: clay rich gouge over 4 cm @ 55° upper contact and 45° CA at lower contact.

- Broken core @ 1021.00-1021.28 m @ ~ 30° CA.

- Unit is weakly magnetic to locally non-magnetic or strongly magnetic.

- Negligible sulphide mineralization; trace very local, very fine-grained py.

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDE	ASSAYS			
							Co(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
1014.70-1214.50 m:		Pinkish salmon coloured silicified zone.								
1057.90-1458.18 m:		Interflow, foliation defined by cream-buff-coloured quartzose wisps and veinlets @ 30° CA. Lower contact gradational over ~ 20 cm defined by disappearance of feldspar phenocrysts.								
1059.40	1063.15	MAFIC VOLCANIC	30016	1059.40	1060.00	0.60	18	2	26	10

(Could be Roberts Arm Dyke) cut by later fine-grained mafic dykes.

- Fine-grained to very fine-grained medium to dark green coloured. Generally massive though locally moderately well developed fabric when core is broken, i.e. @ 1065 m = parallel to CA until first late dyke @ 1067.00 m. The volcanics then more massive with local weakly developed foliation.

- Minor Qtz:cc veinlets or veins up to 1 cm wide; sharp planar @ 45-60° CA; more common to see subparallel veins or veinlets of Qtz-cc at interflow interstices.

Composition difficult to determine; generally homogeneous with locally silicified domains occasionally with associated pervasive light green epidote; chloritic component to rock.

- Generally moderate to weak magnetic as disseminated fine-grained crystals.

- Very hard core.

- Mineralization: occurs as minor to local traces fine-grained py.

- Core is generally competent though local blocky zone often near late dyke contacts where core is rubbly and broken into pieces ~ 2-3 cm x 3 mm; i.e. 1067.75-1067.80 m; 1068.60-1068.64 m.

1067.00 1068.25 Mafic Dyke

- Very fine-grained, dark grey-black; homogeneous massive rock; strongly fractured; moderately magnetic; no sulphides; upper contact @ 30° CA (planar) with local silicification and minor

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)

carbonate; lower contact @ + 15' CA; uneven undulating contact.

1075.85 1079.61 Mafic Diabase Dyke

- Very fine-grained to medium-grained in the center of the dyke; massive; homogeneous; competent except from 1078.83-1079.03 m where core is fractured into angular pieces (1 cm x 2 mm to 3 x 2 cm; uniformly weakly magnetic; minor to trace fine-grained disseminated py; upper contact is silicified with chert band and minor iron carbonate @ 60' to CA; lower contact gets very fine-grained and rubbly over @ 10 cm @ 51' CA.

1082.22 1083.15 Mafic Dyke

- Same as @ 1067.00 m; sharp irregular angular upper contact @ 40' CA; sharp irregular angular upper contact @ 60' CA.

1083.15 1136.92 MAFIC VOLCANIC

- Dark green often with irregularly distributed light greenish patches; fine-grained; upper contact area over + 1.5 m is quite massive; over all unit shows very poorly developed foliation though locally well developed foliation in intervals which may represent flow intervals.

- From 1090.66-1094.50 m: well developed foliation @ 20-30' CA.

- Unit is crosscut by (1/4) thin qtz and qtz-cs veinlets which are subplanar to irregular and anastomosing; @ = 20-60' CA.

- Minor orange-brown coloured alteration in qtz vein @ 1091.40 m.

- Composition appears to be mafic, probably andesitic; chlorite large part of rock; epidote patches and lined fractures are common particularly in silicified domains; qtz-epidote often occurs as brecciated "fragments"; pervasive epidotized intervals with irregular diffuse outlines over 8-10 cm; wormy epidotized discontinuous veins; subrounded amygdulites(?) @ 0.2-0.5 mm diameter - epidote content tends to increase down hole.

- Discontinuous elongated light grey chert fragments common particularly in more foliated intervals; i.e. @ 1084.00-1085.60 m; 1087.37-1087.90 m; 1090.60-1094.50 m; c/b mafic tuff; elongated chert fragments comprise ~ (1% of interval);

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)

irregularly shaped subangular fragments range in size from =
(1 mm x 1 cm to = 2 cm x 3 cm along a well-developed foliation.
- Moderate to weak magnetism; minor masses py seems to be
associated with dyke contact.
- Core is hard but can be scratched with knife; competent
except for rubbly fine-grained mafic dykes; average = 0.75-1 m
lengths.

1094.50-1095.73 Mafic Dykelet

- Rubbly, fractured core 1-4 cm chips similar to dyke @
1067.60 m; upper contact @ 50° CA; lower contact @ 90° CA.

1104.00-1104.25 m: Quartz vein; amorphous white with later
grey veinlets cutting across; brownish-salmon coloured
alteration patches; greenish tinge & wisps due to epidote;
moderate calcite along brownish patches; non-magnetic; no
sulphides; upper contact @ 50° CA; lower contact @ 60° CA.
Upper contacts are fractured.

1115.75-1116.30 m: Strong qtz-epidote alteration as network of
veins = 1-2 mm wide @ = 20-30° CA give interval brecciated
appearance.

1121.65-1122.50 Weak Sheared Zone

- Strong foliation @ = 50° CA; interval is intensely
carbonatized (pervasive and calcite wisps) and strongly
chloritic; non-magnetic; minor cubic py. Competent, yet
fractured at upper contact; lower contact @ 50° CA defined by
zone of more massive non-carbonatized volcanic.

1129.87-1130.90 Mafic Dykelet

- Fractured rubbly dyke; same as @ 1094.50 m; contacts are
fractured therefore unable to determine angle to CA.

1136.92 EOH.

DIP TESTS:

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS Cu(ppm) Pb(ppm) Zn(ppm) Ba(ppm)
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Acid test @ 3.68 m -56°

TIEPARI TESTS:

40.84 m-55'	290' (mt)
65.84 m-54.5'	286'
98.76 m-54'	293' (mt)
129.54 m-53'	289.5'
148.44 m-53'	298.5'
226.77 m-51'	292'
294.14 m-50'	293.5'
370.03 m-48'	286.5'
528.53 m-47'	294.0'
585.49 m-45'	285.0' (mt)
765.62 m-44'	281'

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
40.84	-55.00	275.00
65.84	-54.50	271.00
98.76	-54.00	278.00
129.54	-53.00	274.50
148.44	-53.00	274.50
226.77	-51.00	277.00
294.14	-50.00	276.50
370.03	-48.00	271.50
528.53	-47.00	279.00

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	ASSAYS			
							Cu(ppm)	Pb(ppm)	Zn(ppm)	Ba(ppm)
		DEPTH								
		INCLINATION								
		BEARING								
		589.49								
		-45.00								
		278.00								
		725.62								
		-44.00								
		266.00								
		848.88								
		-41.00								
		278.00								
		955.56								
		-39.00								
		268.50								
		1135.39								
		-33.00								
		278.00								
		1136.92								
		-31.00								
		278.00								
		1136.92								
		-33.00								
		278.00								

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 SAMPLED BY: S.M. PUDJEIN

PROJECT: ROBERT'S ARM 8907

SAMPLE NUMBER	SAMPLE INTERVAL			Cu ppm	Pb ppm	Zn ppm	Ba ppm	SULPHIDES	DESCRIPTION
	From	To	Length						
199101	59.00	59.50	0.50	34	5	60	32	0.5% py	Crystal tuff with up to 0.5% dissem. local py
199102	116.20	117.10	0.90	65	2	20	10	tr py; cp?	Mafic volcanic; intensely carbonatized; silicified
199103	119.25	120.25	1.00	57	3	12	10	tr py	Brecciated mafic volcanic; gt
199105	302.50	304.50	2.00	54	3	23	14	0.25% f.gr. py; tr po	Massive mafic volcanic; chl; minor biot. - strong magnetite - silicified
199106	307.50	309.50	2.00	59	3	24	10	0.25% f.gr. py + py vein	As above
199107	353.55	354.60	1.05	42	4	31	102	0.5% dissem. py, tr po	Mafic volcanic; magnetite
199108	357.00	358.50	1.50	WHOLE ROCK				minor dissem. py	Chloritic mafic volcanic; minor gtz - epifractions
199109	400.85	402.00	1.15	28	3	21	10	0.5% - tr diss. py	Porphyroblastic mafic flow with py along contact
199110	416.02	417.00	0.98	39	3	12	10	minor py along cracks	Porphyritic mafic volcanic; 15% carbonate
199111	432.00	434.00	2.00	83	2	19	23	minor f.gr. py	Mafic volcanic with minor f.gr. dissem. py
199115	443.23	443.98	0.75	67	4	39	10	minor v.f.gr. py	Foliated chloritic volcanic
199116	443.98	444.10	0.12	92	5	38	10	2-3% v.f.gr. py	Felsic chloritic tuff
199117	444.10	444.50	0.40	101	5	48	10	1% v.f.gr. py	Chloritic carbonatized felsic tuffs
199118	444.50	445.90	1.30	69	2	32	10	tr-minor py	Similar to above
199119	445.80	446.53	0.73	70	2	34	13	as above	Cherty chloritic carbonate-rich sediment
199120	446.53	447.00	0.47	74	3	43	10	tr py	Porphyritic mafic volcanic
199112	447.00	448.00	1.00	73	2	12	10	minor dissem. py	Mafic volcanic crosscut by carbonate veins
199113	455.10	456.10	1.00	195	2	40	10	minor py; tr cp	Brecciated mafic volcanic with carbonate veins
199114	474.88	475.88	1.00	73	3	27	10	minor py	Foliated mafic volcanic

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 SAMPLED BY: J.M. PUTIEN

PROJECT: ROBERT'S ARM 8807

SAMPLE NUMBER	SAMPLE INTERVAL			Cu ppm	Pb ppm	Zn ppm	Ba ppm	SULPHIDES	DESCRIPTION
From	To	Length							
199121	488.50	489.00	0.50	85	4	24	30	none	finely brecciated mafic volcanic in cc-chl-ser matrix.
199122	489.00	489.61	0.61	387	805	2028	4	2-3% py; 1% sph ^{minor galena}	Felsic tuff
199123	489.61	490.40	0.79	100	209	109	10	minor f.gr. py	Foliated mafic volcanic / tuff
199124	527.00	528.00	1.00	WHOLE ROCK				none	Mafic volcanic with ~1% cc veinlets; gtz-ep-cc-gt patch
199125	537.35	537.75	0.40	69	21	180	10	1% v.f.gr. py	Foliated felsic interflow sediment; str. chl, cc
199126	554.50	556.00	1.50	81	2	35	13	5% py ± po	Fe-Mg altered mafic volcanic
199127	565.50	566.00	0.50	101	2	20	38	3mm band cp	as above
199128	568.70	569.60	0.70	15	4	34	10	minor py	Mafic volcanic with strong ep-sil-gt-mt alteration.
199129	571.50	573.00	1.50	574	5	68	10	1-2% py ± cp?	as above
199130	575.15	576.05	0.90	13	2	40	29	minor dissem. py	Felsic gtz crystal tuff
199131	576.05	576.55	0.50	299	12	128	28	4% py stringers; tr po	Chloritic tuff with biotite
199132	576.55	578.00	1.45	27	5	54	10	1% py; minor po	Mafic volcanic; 0.5% blue gtz eyes; mt
199133	584.00	585.00	1.00	WHOLE ROCK				<1% py	Mafic volcanic; minor epidote; silicification; mt
199134	590.00	592.00	2.00	50	2	36	10	0.5% py; 1% po	Mafic volcanic; str. ep-sil; discontinuous bands; py-po; mt
199135	592.00	593.50	1.50	191	8	45	10	4-5% po; 3-4% py	Mafic volcanic; banded py, po accumulations; mt
199136	593.50	595.00	1.50	96	2	22	10	<0.5% dissem. py	Mafic volcanic; mt
199137	603.15	603.75	0.60	25	3	39	10	~5% py	Mafic tuff; chl-cord-mt
199138	605.03	606.50	1.47	46	6	47	10	2% py	Mafic volcanic / chloritized felsic?; cc stringer
199139	606.50	608.00	1.50	42	4	36	10	1-2% py + tr po	Mafic volcanic; mt

PAGE NO.: 3
 HOLE NO.: GB-150
 SAMPLED BY: S.M. Pudifin

PROJECT: ROBERT'S ARM 8807

SAMPLE NUMBER	SAMPLE INTERVAL			Cu ppm	Pb ppm	Zn ppm	Ba ppm	SULPHIDES	DESCRIPTION
	From	To	Length						
199140	608.00	609.00	1.00	39	9	109	10	1% py; minor po	Mafic volcanic; mt
199141	611.00	612.00	1.00	33	6	57	10	1-2% py; 1% po; ^{7cm massive} py po	Mafic volcanic; chloritic; minor mt
199142	614.00	616.00	2.00	13	5	38	10	2-3% py; 1% po	Altered mafic? felsic? volcanic; qtz. eyes; 4% mt - minor conc
199143	621.55	623.00	1.45	18	6	29	10	0.5% py-po	Mafic volcanic with strong magnetite
199144	632.00	633.00	1.00	WHOLE ROCK				none	Strongly magnetic mafic volcanic
199146	690.00	691.00	1.00	273	3	17	10	0.25% py; tr po	Strongly chloritic mafic volcanic; intense silicif; mt
199147	699.50	701.00	1.50	106	2	18	12	as above	as above
199148	701.00	702.50	1.50	22	2	16	14	as above	as above
199149	711.00	712.00	1.50	160	2	17	16	0.5% dissemin. py	Mafic volcanic Intense chl; strong sil-cp; mt stringers
199150	721.85	722.50	0.65	847	2	19	10	1% py; cp? stringer	Fe-Mg Altered mafic volcanic Intense chl, mt stringers
199151	739.45	741.45	2.00	7	2	18	10	1-2% py stringers	as above
199152	741.45	742.00	0.55	8	3	20	10	2-3% py stringers	as above
199153	745.85	747.35	1.50	11	2	10	10	minor py; 0.5% po	as above
199154	750.20	751.20	1.00	17	3	15	10	1 cm wide po-py stringer	Strongly chloritic mafic volcanic
199155	753.50	755.50	2.00	9	2	17	10	tr py	Fe-Mg altered mafic volcanic
199156	770.60	771.25	0.65	WHOLE ROCK				none	Massive homogeneous mafic volcanic
199145	675.75	696.75	1.00	WHOLE ROCK				none	Strongly chloritic mafic volcanic; mt
193157	792.00	794.00	2.00	8	2	20	10	minor py	Felsic lapilli tuff; strongly chloritic-sericitic; mt
193158	811.00	813.00	2.00	6	2	27	10	minor dissemin. cgr. py	Mafic volcanic with qtz-epidote

PAGE NO. 4
 HOLE NO. 63-150
 SAMPLED BY: S.M. Pudifin

PROJECT: ROBERT'S ARM 8807

SAMPLE NUMBER	SAMPLE INTERVAL			Cu ppm	Pb ppm	Zn ppm	Ba ppm	SULPHIDES	DESCRIPTION
	From	To	Length						
193159	833.00	833.35	0.35	6	3	24	10	py	Felsic band hosting ~1% py
193162	849.00	850.10	1.10	34	2	12	10	minor py; tr cp	Interflow cherty sediments; chl
193160	853.00	853.60	0.60	WHOLE ROCK				none	Massive indurated mafic volcanic
193161	866.75	868.26	1.51	40	5	56	10	minor to 0.5% fgr py	Mafic volcanic; qtz-cc veinlets
193164	868.26	868.63	0.37	533	4	32	10	minor py; tr cp	Silicified mafic volcanic
193163	877.80	878.30	0.50	25	2	12	17	tr py	Silicified mafic volcanic/tuff? w cherty fragments
30001	886.00	888.00	2.00	5	5	31	15	minor fgr. py	Rhyolitic-felsic dyke
30002	906.00	907.00	1.00	315	2	18	10	minor dissem. py	Mafic volcanic with qtz-cc-ep vein
30003	914.16	915.16	1.00	55	4	27	10	minor fgr py	Mafic volcanic
30004	915.88	917.38	1.50	123	3	24	10	minor fgr. py	Mafic volcanic with qtz-ep stringer
30005	917.38	919.13	1.75	1060	3	35	10	20% py; ep?	Mafic volcanic with ~20% qtz-ep patches
30006	920.50	921.30	0.80	89	2	25	10	minor dissem. py	Interflow tuffaceous interval
30007	924.16	925.16	1.00	25	2	17	10	0.5% py	Interflow cherty interval and mafic volcanic
30008	925.16	927.00	1.84	729	4	20	10	10% py; 0.25% post tr cp	Tuffaceous / cherty interval; str. qtz-ep patches
30009	931.00	931.80	0.80	260	2	28	10	10% fgr. py	Interflow/pillows chl tuffaceous unit
30010	937.25	937.80	0.55	215	2	21	10	minor fgr. py; tr cp?	Siliceous tuff with cherty felsic fragments
30011	944.00	946.00	2.00	112	2	15	10	minor py	Silicified mafic volcanic; rusty fractures
30012	952.00	954.00	2.00	57	2	12	10	minor py	as above
30013	961.00	962.00	1.00	16	2	15	10	minor dissem. py	Chloritic tuffaceous interval

PROJECT: ROBERT'S ARM 8807

[illegible]

UCT 13 1991

Client: Rio Algon Exploration
Geologist: Maia Pudifin
Project: 8807-150
Sample: Core

DskFile: 171-6609

DateIn: September 27/91
DateOut: October 03/91

GB-150

ICP Geochemistry Certificate

Eastern Analytical Limited
P.O. Box 187,
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Springdale,
Newfoundland.

Phone: 709-673-3909
Fax: 709-673-3408

Signed by: 
D. Furey, G. Smith
(Concentrations in assay range
may cause interferences in
associated elements.)

SAMPLE #	Co	Sr	Ba	Fe	P	Hg	Hg	As	V	Na	Mo	Al	Be	Ca	Zn	Cu	Sb	Ag	Pb	Bi	Ti	Cd	Co	Ni	W	La	K	Mn	Rb	Cr
	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm
199120	10	22	10	0.63	0.01	1	0.38	5	17	0.18	1	1.21	0.5	2.01	43	74	5	0.2	3	2	0.03	0.5	5	13	10	10	0.05	132	20	105
199121	10	22	30	1.06	0.01	1	0.88	5	25	0.16	1	1.55	0.5	3.01	24	85	5	0.2	4	2	0.04	0.5	9	33	10	10	0.24	230	20	107
199122	10	4	10	5.18	0.01	1	3.63	25	101	0.05	2	2.83	0.5	1.02	2028	387	5	0.6	805	2	0.04	6.1	28	101	10	10	0.05	1273	20	184
199123	10	23	10	2.03	0.01	1	1.29	7	53	0.11	1	1.79	0.7	4.06	109	100	5	0.2	209	2	0.04	0.5	19	52	10	10	0.04	538	20	109
199125	10	8	10	4.90	0.05	1	2.89	15	107	0.09	1	3.23	0.5	1.21	180	69	5	0.3	21	2	0.07	0.5	25	56	10	10	0.03	1012	20	106
199126	10	27	13	2.30	0.01	1	1.38	5	54	0.19	1	2.02	0.5	0.52	35	81	5	0.2	2	2	0.03	0.5	18	29	10	10	0.20	120	20	80
199127	10	22	38	1.47	0.02	1	1.07	5	51	0.22	1	1.52	0.5	0.51	20	101	5	0.2	2	2	0.04	0.5	10	21	10	10	0.37	145	20	97
199128	10	35	10	2.00	0.03	1	1.34	5	50	0.07	1	1.76	0.5	1.97	34	15	5	0.4	4	2	0.03	0.5	13	18	10	10	0.02	269	20	87
199129	10	27	10	5.75	0.05	1	3.18	5	135	0.06	1	3.66	0.5	0.76	68	574	5	0.2	5	2	0.03	0.5	48	35	10	10	0.17	609	20	77
199130	10	12	29	1.95	0.03	1	1.15	5	27	0.08	2	1.25	0.5	0.22	40	13	5	0.2	2	2	0.04	0.5	9	6	10	10	0.24	150	20	109
199131	10	23	28	9.37	0.05	1	3.57	6	177	0.07	1	3.86	0.7	0.31	128	299	5	0.2	12	2	0.06	0.5	39	45	10	10	0.21	776	20	107
199132	10	80	10	4.52	0.06	1	2.02	5	138	0.19	1	4.39	0.7	1.69	54	27	5	0.2	5	2	0.02	0.5	29	35	10	10	0.02	281	20	87
199134	10	103	10	4.17	0.06	1	1.70	5	121	0.21	1	4.88	0.7	2.07	36	50	5	0.2	2	2	0.02	0.5	32	27	10	10	0.01	226	20	75
199135	10	27	10	>10.00	0.05	1	1.92	7	136	0.13	9	3.32	0.6	1.72	45	191	5	0.2	8	2	0.02	0.5	71	32	10	10	0.08	427	20	75
199136	10	71	10	3.70	0.06	1	1.14	5	136	0.21	2	3.99	0.6	1.60	22	96	5	0.2	2	2	0.02	0.5	28	21	10	10	0.04	125	20	91
199137	10	40	10	8.18	0.05	1	2.32	5	147	0.15	7	3.85	0.6	1.57	39	25	5	0.2	3	2	0.04	0.5	39	27	10	10	0.03	239	20	56
199138	10	37	10	9.04	0.06	1	2.86	5	183	0.12	7	4.53	0.8	1.03	47	46	5	0.2	6	2	0.04	0.5	41	33	10	10	0.02	392	20	74
199139	10	65	10	5.72	0.08	1	1.79	5	189	0.17	2	4.72	1.1	1.95	36	42	5	0.2	4	2	0.03	0.5	36	23	10	10	0.01	190	20	42
199101	10	8	32	3.61	0.02	1	1.66	7	27	0.06	1	2.22	0.5	0.35	60	34	5	0.2	5	2	0.05	0.5	5	5	10	10	0.47	255	20	89
199102	10	54	10	2.22	0.01	1	1.85	5	39	0.02	1	1.53	2.3	>5.50	20	65	5	0.2	2	2	0.02	0.5	11	23	10	10	0.01	1335	20	73
199103	10	96	10	1.21	0.01	1	0.44	5	31	0.06	1	0.76	3.0	>5.50	12	57	5	0.2	3	2	0.02	0.5	4	13	10	10	0.11	2454	20	41
199105	10	3	14	2.69	0.07	1	0.59	5	121	0.08	1	0.76	0.5	0.51	23	54	5	0.2	3	2	0.03	0.5	15	11	10	10	0.08	104	20	64
199106	10	5	10	2.62	0.08	1	0.45	5	108	0.07	1	0.68	0.5	0.45	24	59	5	0.2	3	2	0.04	0.5	15	10	10	10	0.02	101	20	45
199107	18	28	102	2.80	0.06	1	1.01	5	23	0.12	1	1.75	0.5	0.44	31	42	5	0.3	4	2	0.04	0.5	7	9	10	10	0.25	108	20	64
199109	10	10	10	2.27	0.06	1	0.66	5	74	0.07	1	1.11	0.5	0.24	21	28	5	0.2	3	2	0.02	0.5	8	7	10	10	0.05	84	20	64
199110	10	30	10	1.09	0.02	1	0.50	7	28	0.17	1	1.39	0.8	>5.50	12	89	5	0.3	3	2	0.03	0.5	12	25	10	10	0.04	376	20	84
199111	10	24	23	1.54	0.02	1	1.01	5	43	0.20	1	2.44	0.5	1.66	19	83	5	0.2	2	2	0.06	0.5	14	32	10	10	0.45	112	20	109
199112	10	18	10	1.03	0.02	1	0.57	5	25	0.17	1	1.19	0.5	2.65	12	73	5	0.2	2	2	0.03	0.5	10	22	10	10	0.03	194	20	113
199113	10	13	10	1.47	0.01	1	0.78	5	27	0.13	1	1.29	0.5	2.82	40	195	5	0.2	2	2	0.03	0.5	13	24	10	10	0.06	227	20	91
199114	10	14	10	1.57	0.02	1	1.07	5	35	0.12	1	1.45	0.5	2.11	27	73	5	0.2	3	2	0.04	0.5	14	31	10	10	0.08	204	20	132
199115	10	15	10	3.28	0.02	1	2.39	6	77	0.10	1	2.67	0.5	2.31	39	67	5	0.2	4	2	0.06	0.5	21	47	10	10	0.07	499	20	213
199116	10	34	10	3.50	0.04	1	1.92	17	119	0.05	1	2.10	1.7	>5.50	38	92	5	0.4	3	2	0.05	0.5	16	20	10	10	0.08	786	20	80
199117	10	15	10	6.06	0.06	1	2.37	6	156	0.05	1	2.89	1.0	4.32	48	101	5	0.3	6	2	0.11	0.5	28	25	10	10	0.04	615	20	45
199118	10	26	10	3.12	0.02	1	2.53	5	97	0.07	1	2.66	0.9	4.35	32	69	5	0.3	2	2	0.04	0.5	18	40	10	10	0.04	576	20	188
199119	10	26	13	3.42	0.02	1	2.48	5	106	0.10	1	2.79	0.9	4.36	34	70	5	0.2	2	2	0.05	0.5	21	47	10	10	0.17	630	20	227

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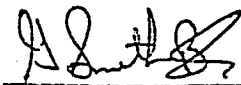
Client: Rio Algom Exploration
Geologist: Maia Pudifin
Project: 8807-150
Sample: Rock

Eastern Analytical Limited
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DskFile: 171-6641

DateIn: Oct /91
DateOut: Oct 12/91

Fone: 709-673-3909
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Signed by: 
D. Furey, G. Smith
(Concentrations in assay range
may cause interferences in
associated elements.)

63150

SAMPLE #	Co ppm	Sr ppm	Ba ppm	Fe %	P %	Hg ppm	Hg %	As ppm	V ppm	Na %	Mo ppm	Al %	Be ppm	Ca %	Zn ppm	Cu ppm	Sb ppm	Ag ppm	Pb ppm	Bi ppm	Ti %	Cd ppm	Co ppm	Ni ppm	H ppm	La ppm	K %	Mn ppm	Rb ppm	Cr ppm
199140	17	74	10	5.88	0.07	1	1.50	5	194	0.14	3	4.44	1.0	1.82	109	39	5	0.2	9	2	0.03	0.5	31	22	10	10	0.01	183	20	58
199141	15	72	10	7.56	0.07	1	1.83	5	182	0.13	7	4.49	1.0	1.76	57	33	5	0.3	6	2	0.02	0.5	40	25	10	10	0.01	215	20	68
199142	14	46	10	5.50	0.08	1	1.46	5	214	0.05	2	3.47	0.9	1.26	38	13	5	0.2	5	4	0.02	0.5	34	22	10	10	0.01	171	20	70
199143	11	81	10	5.02	0.08	1	1.37	5	156	0.13	2	4.58	0.9	2.09	29	18	5	0.2	6	2	0.02	0.5	29	19	10	10	0.02	126	20	35
199146	10	24	10	4.41	0.01	1	2.06	12	48	0.05	1	2.74	0.5	0.70	17	273	5	0.2	3	2	0.02	0.5	49	69	10	10	0.05	201	20	160
199147	10	27	12	3.58	0.01	1	2.13	5	56	0.13	1	3.29	0.5	0.77	18	106	5	0.2	2	2	0.04	0.5	32	61	10	10	0.32	174	20	154
199148	10	35	14	3.07	0.01	1	1.97	8	57	0.16	1	3.58	0.5	1.13	16	22	5	0.2	2	2	0.04	0.5	26	63	10	10	0.32	154	20	174
199149	13	33	16	5.70	0.01	1	2.16	7	72	0.12	1	3.63	0.5	1.11	17	160	5	0.3	2	2	0.03	0.5	56	72	23	10	0.25	198	20	166
199150	16	42	10	8.63	0.01	1	2.29	9	78	0.12	3	3.77	0.5	0.84	19	847	5	0.2	2	2	0.02	0.5	55	58	10	10	0.04	225	20	150
193151	16	37	10	6.02	0.02	1	2.45	5	84	0.16	1	4.29	0.5	1.03	18	7	5	0.3	2	2	0.04	0.5	47	56	10	10	0.13	215	20	191
193152	12	31	10	9.18	0.02	1	2.92	5	95	0.12	5	4.21	0.5	0.68	20	8	5	0.2	3	2	0.05	0.5	106	70	10	10	0.06	329	20	188
193153	12	28	10	7.15	0.01	1	1.36	7	80	0.09	1	2.52	0.5	2.14	10	11	5	0.3	2	2	0.02	0.5	68	37	10	10	0.04	278	20	148
193154	17	73	10	7.47	0.02	1	2.35	5	78	0.17	1	4.65	0.5	1.28	15	17	5	0.2	3	2	0.02	0.5	72	61	10	10	0.07	156	20	188
193155	10	71	10	4.77	0.02	1	2.06	7	74	0.13	1	4.10	0.5	1.49	17	9	5	0.2	2	2	0.03	0.5	39	44	10	10	0.07	220	20	180
193157	13	31	10	5.46	0.02	1	2.85	6	77	0.09	1	4.08	0.5	1.07	20	8	5	0.2	2	2	0.04	0.5	51	60	10	10	0.14	180	20	190
193158	10	15	10	5.54	0.02	1	3.21	5	94	0.05	1	3.65	0.5	1.45	27	6	5	0.2	2	3	0.05	0.5	38	44	10	10	0.05	439	20	215
193159	12	15	10	6.31	0.02	1	3.04	5	99	0.03	1	3.39	0.6	2.72	24	6	5	0.3	3	2	0.05	0.5	35	41	75	10	0.04	541	20	203
193161	44	27	10	5.28	0.49	1	1.34	20	155	0.05	1	1.71	0.8	2.59	56	40	5	0.2	5	2	0.06	0.5	25	15	10	10	0.06	348	20	37
193162	10	7	10	2.95	0.02	1	1.35	5	77	0.05	2	1.60	0.5	0.29	12	34	5	0.2	2	2	0.04	0.5	23	24	10	10	0.04	116	20	118
193163	10	29	17	3.27	0.03	1	1.20	8	101	0.11	1	2.11	0.5	1.90	12	25	5	0.2	2	2	0.04	0.5	20	30	10	10	0.15	166	20	121
193164	11	14	10	4.16	0.04	1	2.01	8	114	0.06	1	2.38	0.5	1.16	32	533	5	0.2	4	3	0.07	0.5	26	33	10	10	0.03	313	20	127
30001	22	6	15	1.30	0.03	1	0.21	5	8	0.05	1	0.64	0.5	0.49	31	5	5	0.2	5	2	0.03	0.5	1	2	10	10	0.10	261	20	117
30002	10	12	10	2.85	0.03	1	1.30	5	79	0.06	1	1.73	0.5	1.38	18	315	5	0.2	2	2	0.06	0.5	18	30	10	10	0.03	268	20	95
30003	10	5	10	3.02	0.03	1	1.39	5	72	0.05	1	1.69	0.5	0.30	27	55	5	0.2	4	2	0.05	0.5	25	38	10	10	0.02	249	20	100
30004	10	5	10	3.38	0.03	1	1.15	5	79	0.05	1	1.42	0.5	0.24	24	123	5	0.3	3	2	0.04	0.5	27	38	20	10	0.02	199	20	99
30005	10	8	10	4.72	0.04	1	1.37	6	84	0.06	1	1.72	0.5	0.27	35	1060	5	0.2	3	2	0.04	0.5	40	46	31	10	0.01	242	20	107
30006	10	13	10	3.06	0.03	1	1.58	5	76	0.06	1	1.96	0.5	1.88	25	89	5	0.3	2	2	0.06	0.5	19	33	10	10	0.04	414	20	99
30007	10	10	10	2.20	0.03	1	1.11	5	48	0.04	1	1.41	0.5	0.86	17	25	5	0.2	2	2	0.04	0.5	17	24	10	10	0.01	245	20	99
30008	11	13	10	4.48	0.03	1	1.96	15	84	0.06	8	2.50	0.5	0.39	20	729	5	0.2	4	2	0.06	0.5	39	38	10	10	0.02	240	20	122
30009	10	10	10	3.65	0.03	1	1.64	6	73	0.07	1	2.04	0.5	0.37	28	260	5	0.2	2	2	0.06	0.5	40	41	10	10	0.02	270	20	112
30010	10	12	10	2.55	0.04	1	1.23	6	61	0.07	1	1.59	0.5	0.39	21	215	5	0.2	2	2	0.04	0.5	22	29	10	10	0.04	188	20	108
30011	10	10	10	2.61	0.03	1	1.01	5	63	0.07	8	1.43	0.5	0.65	15	112	5	0.2	2	2	0.04	0.5	17	23	10	10	0.02	214	20	99
30012	10	11	10	2.30	0.03	1	0.79	5	57	0.08	1	1.24	0.5	0.53	12	57	5	0.2	2	2	0.04	0.5	15	20	10	10	0.02	162	20	93
30013	12	47	10	3.79	0.01	1	2.48	5	50	0.14	6	3.90	0.5	0.84	15	16	5	0.3	2	2	0.02	0.5	33	39	10	10	0.04	206	20	176

Client: Rio Algom Exploration
 Geologist: M. Pudifin
 Project: 8807
 Sample: Core

DskFile: 171-6674

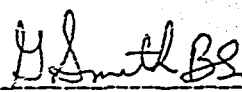
DateIn: Oct. 28/91
 DateOut: Oct. 31/91

GB-150

ICP Geochemistry Certificate

Eastern Analytical Limited
 P.O. Box 187,
 Little Bay Road,
 Springdale,
 Newfoundland.

Fone: 709-673-3909
 Fax: 709-673-3408

Signed by: 
 D. Furey, G. Smith
 (Concentrations in assay range
 may cause interferences in
 associated elements.)

SAMPLE #	Co	Sr	Ba	Fe	P	Hg	Hg	As	V	Na	Mo	Al	Be	Ca	Zn	Cu	Sb	Ag	Pb	Bi	Ti	Cd	Co	Ni	W	La	K	Mn	Rb	Cr
	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
30014	10	20	10	1.26	0.01	1	0.96	5	24	0.13	3	2.15	0.5	0.99	684	101	5	0.2	2	2	0.02	4.2	13	32	10	10	0.04	145	20	113
30015	10	23	10	0.94	0.01	1	0.69	5	21	0.17	1	2.33	0.5	1.22	111	35	5	0.2	2	2	0.02	0.5	7	23	10	10	0.09	117	20	122
30016	10	31	10	2.09	0.05	1	1.24	5	60	0.12	1	2.12	0.5	0.77	28	18	5	0.2	2	2	0.03	0.5	11	17	10	10	0.03	132	20	92