APPENDIX III

DIAMOND DRILL HOLE LOGS
CH90-10 TO 38

PCXPLORE DRILL LOG CODING

ALTERATION (Mineral/Habit/Intensity)

A: prominent
B: subordinate
C: minor

Minerals	**EP** epidote	**K** kspar	**BT** biotite	**CH** chlorite
	CA calcite	**GA** garnet	**CB** carbonate	**BL** bleaching
	SI silicification		**ZE** zeolite	

Habit	**FF** fracture fill	**FE** fracture envelope	**V** vein
	D disseminated	**DB** dissem. blebs	**P** pervasive
	PP patchy pervasive	**HF** hornfels	

Intensity 1=weak 5=moderate 10=extremely intense

eg. A: K+EP/FE/6

MINERALIZATION (Mineral/Habit/Intensity)

A: prominent
B: subordinate
C: minor

Minerals	**PY** pyrite	**CP** chalcopyrite	**PO** pyrrhotite
	MT magnetite	**MAL** malachite	MnO_2

eg. A: CP/FF/2%

STRUCTURE (Type/Angle/Development)

Type	**FLT** fault	**BD** bedding	**FR** fracture	**SHR** shear
	UCTC upper contact	**LCTC** lower contact	**VN** vein	

Angle in degrees

Development 1=weak 2=moderate 3=well

GRAIN SIZE

A aphanitic **F** fine grained (<1mm) **M** med. grained (1-5mm)
C coarse grained (5-10mm) **V** very coarse grained (>10mm)

HABIT II

RO rounded **AN** angular **SU** subrounded **MI** mixed **EQ** equant
LA lath **TA** tabular **AC** acicular **PR** prismatic **PT** platy

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-10

UTM N: 6124610m
UTM E: 402385m
GRID N: 109+60
GRID E: 103+40

Elev.: 1373m
Depth: 182.6m
Azimuth: 270°
Dip: -42°

Metres (m)

0.0 - 15.8	CASING	
15.8 - 31.6	ANDESITE mod. epidote and chlorite, 3-8% PY, <1% MT.	
31.6 - 108.3	MONZONITE-SILTSTONE HYBRID ZONE intrusive has weak-mod. epidote, chlorite and k-spar, 2-5% PY, <1% MT.	
108.3 - 114.4	HETEROLITHIC HORNBLENDE-DIORITE INTRUSION BRECCIA weak-mod. epidote, 2-4% PY, <1% MT.	
114.4 - 182.6	MONZODIORITE-SILTSTONE HYBRID ZONE intrusive has weak-mod. epidote and k-spar (local weak chlorite), 3-5% PY, local trace MT, local trace CP.	
182.6	E.O.H.	

HOLE NO. CH-90-10

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	- N -	COLLAR			DATE STARTED:	June 17 / 90	PROJECT:	CHUCHI
					DATE COMPLETED:	June 20 / 90	N.T.S.:	93N / 7E
		0	-42°	270°	COLLAR ELEV.:	1373 m	LOCATION:	
		182.6m	RIB TEST DID NOT WORK	270	NORTHING:	6124610 N		109 + 60 N
					EASTING:	402385 E		103 + 40 E
					AZIMUTH:	270°		ON MAIN ROAD
					DEPTH:	182.6m	DATE LOGGED:	19 JUNE – 22 JUNE/90
HOLE TYPE DDH					CORE SIZE:	NQ.	LOGGED BY:	DRB.

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc)	REMARKS (Mineralization, type, age relations)
0	15.8	CASING.					
15.8	31.6	ANDESITE, light to med. green aphanitic (to fine grained) groundmass; locally 0.5cm Hbl phenos, lath-like → predom. EPID patches, spots & along Frac.	Moderate to Strong Propylitic Alt. EP-PY/FF/3 EP-CH/P/4-5	3-8% PY Frac & tourline Frac (6%) + dissem. (1-3%) overall < 1% MT		6-10/m → PY on dry Fractures. 45°-55°; 30° & 0° to C.A.	
	REP 17.1m	→ 15.8 to 17.7m				15.8 – 17.7 Moderately Magnetic (1-2% MT); MT rimming PY. Blebby to Dissem & minor Frac controlled.	
		→ 15.8 to 26.2m				15.8 – 26.2. Strong Oxidized Fracture surfaces; rusty, red, and orange coloured; Open Fracs. Predom Fracs. @ 40° to CA. Gypsum (clay) Frac. fill	
		@17.8m.				17.8m Breccia, Tectonic brecciation (3cm wide) @ 20° to CA.	
		→ 20.2 – 20.5m				20.2 – 20.5 Breccia, tectonic brecciation, upper contact broken-up, lower contact sharp @ 25° to C.A. At Lower contact 5-8% MT (3cm width)	

HOLE NO. CH - 90 - 10

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		28.1 - 29.8m				28.1 - 29.8. Hblende (Augite) phenos, up to 5% of ANDS. 1-8mm, avg. 3mm Altered, chloritized. One 8mm pseudomorphed hornblende pheno with PY, MT around Py surrounded by EPID. 	
		30.2 - 30.6m DIORITE (?) DYKE				30.2 - 30.6 Diorite (?) Dyke upper contact @ 55° to C.A. lower contact broken up., weakly Magnetic 3% Dissem. PY 30% Plag Phenos in green/grey aphanitic groundmass (1-5mm, avg 2mm) lath strip weak Potassic Alt around Epid spot at lower contact.	
		31.4 - 31.6m HYBRID ZONE Frag ANDS to INT (HZ0D)				31.4 - 31.6 HYBRID ZONE, Fragmented ANDS gradational contact (Brxx) to intrusive Chlorite, Epid and Potassic alt around EPID spots.	
31.6	35.4m	MONZONITE light grey - green to grey colour 50-70% Plag Phenos (1-5mm, avg 2mm) lath like to subrounded	Strong EPID Alt frac to patchy Mod. Kspar Alt. predom along frac & Chlorite EP-K-CH / IE-FF 15-7	Overall 5-8% Py 3% Dissem. 3% Fract controlled. Trace MT.	7/m @ 40-45° to CA	- generally weakly magnetic - some of the larger plag phenos are zoned contacts: Upper Vague, irregular with volcanic ANDS. Lower, irregular @ 45° to C.A.	
		REP 34.8m -> fg - mg HB Monz Porphyry 20-30% k spar in grndmass (Primary) and 5% Secondary along frac, Envelopes					
		@ 34.0				@ 34.0 2 Biotite (3mm width) pseudomorphed after Augite Fresh looking; secondary biotite.	

DRILL HOLE NO. CH - 90 - 10

HOLE NO. CH-90-10

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
35.4	35.9	SILTSTONE Volcaniclastic, Hornfelsed maybe inclusion Light brown - green. Fine grained.	Hornfelsed, silicified; Biotite Alt. minor EPID Alt & potassic Alt along frac HF/P/7, K: EP/FE/3	overall: 3% Py 1-2% Frac Py 1% Dissem.	4/05m @ 35°-45° to CA.	LOWER CONTACT: sharp @ 35° to CA.	
		@ 35.7m				@ 35.7 Bedding (over 5cm width) @ 55° to CA.	
35.9	37.7	MONZONITE light grey to pink grey, aphanitic to fine grain groundmass. 50-80% Plag Phenos (1-3mm) lath like to subrounded.	Weak Propylitic (5%) EPID along Frac. Weak Potassic (5%) Kspar Frac controlled EP-K/FE/2	overall: 3-5% PY 3% Dissem PY 1% Frac PY Weakly Magnetic	8-10/m 50° & 75° to C.A.	- Altered Plag Feldspar Phenos. sericite alt.	
		37.4 - 37.6m				37.4 - 37.6m Increased PY & MT; 10% dissem PY, 3% fine gr crystal MT	
37.7	39.2	HYBRID ZONE - MONZODIORITE AND VOLCANIC FRAGS → ANGS. light to medium grey - green groundmass fine gr. to aphanitic. Variable Plag Phenos from 20-70% subrounded to lath like	Propylitic Moderate Epidote Frac't EPID (3%) Weak Potassic K-spar Frac controlled (3%) EP/PERV/4 EP-K/FE/3	Overall: 5% PY 3-4% dissem & 1-2% Frac controlled PY weak to mod. magnetic overall: to MT locally up to 1% Dissem and Frac MT	8/m 20°-35° to C.A.	CONTACTS: Upper contact irregular & wavy @ 50° to C.A. Lower contact sharp @ 30° to C.A. - Moderately Chlorite Altered. - Carbonate on Frac surfaces.	
		Rep 38.9m. fg-mg equigranular to wkly porphyritic monzodiorite (5-15% Primary k-spar) <10% HB 5-10% kspar on Frac Envelopes					

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DRILL HOLE NO. CH-90-10

HOLE NO. CH-90-10

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
39.2	39.6	MONZONITE (DYKE/SILL) -grey to grey-pink groundmass aphanitic 70-80% Phenos 70% Plag (1-5mm) lath equant/tabular 5-10% Mafics Hbl (1-5mm) lath to Acicular	weak to mod EPID Alt frac controlled (3-5%) mod Potassic Alt (5%) increase at lower contact EP-K/FE/4	3% fine gr. Dissem Py -weak to Mod Magnetic; <1% MT		Contact: Lower contact irregular @ 25° to C.A. Carbonate on frac surfaces -> Plag Phenos Sericite Alt -> Mafics being chloritized, especially near fracs some fresh or very weakly altered Hblnds.	
39.6	40.3	SILTSTONE (Xenolith?) grey-green-pink colour.	hornfelsed Mod Potassic Alt 5-8%. HF/P/2, K/FE/4	1-3% Py Dissem Py	4/05m @ 70° to CA	-> At upper contact some interdigitating (Stoping) of monzonite into siltstone. Lower contact irregular, brecciated strong Potassic Alt - Carbonate on Fractures.	
40.3	40.9	MONZONITE with minor volcanic clasts (1x2cm) see 39.2-39.6m	Weak EPID and Potassic EP-K/P/2	1-3% dissem Py			
40.9	42.5	ANDESITE aphanitic to fine grained light grey/green 20-40% Plag Phenos (1-3mm) lath	Weak EPID (1%) spots & fracture weak potassic (1%) around EPID EP-K/FE/3	1% dissem Py	7/m 35° & 75° to C.A.	Lower contact broken up.	
42.5	43.3	MONZONITE (DYKE?/SILL) (see 39.2-39.6) light grey-green colour	weak EPID Alt (<1%) weak Kspar Alt (<1%) EP-K/FE/2	1% dissem Py		Contacts. Upper broken up. Lower sharp @ 45° to C.A. -weak to moderate Chlorite Alt.	

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DRILL HOLE NO. CH-90-10

HOLE NO. CH-90-10

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
43.3	44.9	SILTSTONE / SANDSTONE Volcaniclastic, light green-brown grey colour, fine grained to med grained. Rep 41.0. KSPAR flooded siltstone/sandstone, strong KSPAR along frac envelopes (concordant?), also pervasive secondary (?) KSPAR with sandy interval	Hornfelsed - Biotite fine gr. Alt and Silicification weak EPID & KSPAR along frac. HF(BI)/P/7 EP-K/FE/2	1% dissem & frac PY -> minor MT (1%) at lower contact blebs.	6/m @ 50° to CA.	Lower contact: irregular bedding: @ 30° to CA. @43.6 Possible graded bedding, suggests siltstone is right side up with vertical to subvertical easterly (?) dip.	
44.9	49.0	MONZONITE PORPHYRY light grey, pink grey aphanitic to fine grained ground mass 50-70% Plag Pheno (1-5mm) lath & equant 1-3% Mafics Rep 48.3m. More purplish 55% mafics 30% primary KSPAR interstitial to plag phenos and 5-10% subhedral Quartz to 1.5mm, 2-3% secondary KSPAR along narrow frac envelopes.	weak foliated EPID (3%) patchy & fract. contr. weak Kspar (1%) fract controlled EP-K/FE/4	3-5% dissem PY 1% frac PY -weak MT (<1%) locally up to 2% ALT	8-10/m 45° & 60° to CA.	Contacts: Upper irregular Lower sharp @ 30° to CA. - moderate Chlorite Alt of Mafics. - minor carbonate on frac surfaces. @ 46.3 gouge (0.5cm) shear; rubble zone 46.3 - 47.0m.	

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DRILL HOLE NO. CH-90-10

HOLE NO. CH-90-10

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		(48.5 - 49.0m)				48.5 - 49.0 Increased Potassic Alt (5-12%) frac controlled and pervasive toward lower contact with hornfelsed siltstone. Increased EPID Alt (5%) frac controlled	
49.0	72.3	SILTSTONE, MINOR SANDSTONE VOLCANICLASTIC - light grey-green to pink-brown colour fine to medium grained.	Hornfelsed Biotite Alt & Silicified HF(BT-SI)/P/7.	1-3% dissem PY <1% frac PY	10/m 15°-30° 65° to CA	Bedded @ 30° to CA. Minor C.6 on frac surfaces some zones of increased fract. up to 20-40.	
		(51.4 - 51.7m) Monzonite Sill (?) 60% Plag Phenos grey-green colour	Upper Contact Mod EPID Alt with increased PY (3-5%) wk. KSPAR Alt. P-K/FE/4			Contacts. Upper irregular Lower wavey @ 20° to CA. looks conformable with siltstone.	
		(54.8 - 55.1m)				54.8 - 55.1 Well bedded Volcanic Siltstone, minor sandstone bedded @ 30-35° to CA. crudely bedded PY, and dissem PY	
		(58.4 - 58.7m) Monzonite Sill				Upper contact irregular. Lower contact sharp @ 35° to CA conformable with siltstone	
		REF 58.7m contact -> siltstone contact with lg. Leuco Monz, 40-50% Primary KSPAR					
		(58.8 - 61.3m)				58.8 - 61.3 Hematite Alt on frac surfaces (part of propylitic Alt assemblage).	
		(65.3m) Tr Cpy				@ 65.3m Tr CPY	

DRILL HOLE NO. CH-90-10

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INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		(65.4-66.0m) BL Slst.				(65.4 - 66.0 Bleached siltstone around shear	
		(65.8 - 65.9m) FLT/SHR + GOUGE.				(65.8 - 65.9 Rubbly, minor gouge. Fault/shear zone	
		(66.8 - 68.2m) Brxx. Slst.				(66.8 - 68.2 Hydrothermal Brecciated siltstone. Potassic	
						Alt around Frags. INT/SANDSTONE (?)	
		(68.2 - 69 m) Monzonite Sill				(68.2 - 69.1 Contacts Upper Irregular / Brecciated.	
		with stoped in siltstone. frags				Lower Sharp @ 40° to C.A. →	
		GEP 69.0m fg. PORPH. MINZ, 25%	primary kspar, 5	10% fg mafics (BT or HB)		conformatable with siltstone bedding.	
		1cm wide interbed in	iltstone maybe fine	gr., minor sill			
		(67.8 - 72.3m) HYDRO ZONE mixed.					
		monzonite (50%) siltstone (50%)					
72.3	74.9m	MONZONITE.	Mod. Potassic Alt EPID.	Overall: 5-8% PY		8/m @ 35°-40° & 55°-60° to C.A.	
		grey - grey-pink groundmass	(5%) patchy spots &	3-4% Frac: 3-4% Dissem		Contacts: Upper & Lower sharp @ 20° to C.A.	
		aphanitic to fine grained. 60-80%	Frac. contr. weak KSPAR Alt.	Weakly Magnetic		Carbonate on fractures	
		Plag Pheno (1-4mm) lath and	EP/P/4	to MT.			
		tubular shaped.	EP-K/FE/2.				
74.9	77.0	SILTSTONE volcaniclastic light	Hornfelsed. Biotite	2-4% PY	20/m @	Bedded @ 40° to C.A.	
		green to green-brown colour	(fine gr.) Alt & silicified	2% Dissem	45-55°		
		fine grained.	HF (BT-SI)/P/7	2% Frac controlled	to C.A.		
77.0	88.4	MONZONITE: grey-green mod coloured	wk to mod EPID Alt.	Overall 2-4% PY 1-3%	8/m	Contacts: Upper sharp @ 40° to C.A.	
		aphanitic to fine gr. groundmass	along fracs (3-5%) wk to	dissem 1% fracture	20° & 45°	Lower sharp @ 40° to C.A. carbonate on fractures.	
		60-70% Plag Pheno (2-4mm) Equant &	mod (3%) Potassic Alt on	wk magnetic, variable	to C.A.	chloritized mafics, minor biotite - weak Carb Clay? Alt of Plag Phenos	
		tabular shape, 5% mafic Pheno Hbl/Augite.	fracs around EPID Alt fine	trace MT		along fracs → minor siltstone/volcanic (ANDS) frags up to 4cm. < 1% of	
			envelopes up to 3cm			monzonite. contains frags (stoped in?).	
			EP-K/FE/1				

DRILL HOLE NO. CH-90-10

HOLE NO. CH-90-10

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		REP 77.7m HB QTZ MONZONITE SOED	50% PRIMARY KSPAR	~ 10% HB			
88.4	96.7m	VOLCANICLASTIC SILTSTONE minor sandstone light grey-green to pink brown colour fine grained	hornfelsed. Biotite Alt & Silicified wk EPID & KSPAR Alt along fracs. (1-5%) HF (BT-SI) / P / 7 EP-K / FE / 2.	Overall: 1-4% PY 2% frac. PY and 1-2% dissem. PY Generally Non Magnetic Locally wk magnetics	15-30/m 35-40 & 45° to C.A. Locally more intense frac zones	Contacts: Upper & Lower sharp @ 40° to CA. Carbonate on frac surfaces. @ 91.0 & 93.6 bedded sltstone, bedding @ 45° to CA. 95.7 - 95.8 rubble zone, fault/shear?? 50cm rubble / blocky zone on either side.	
		(87.7 - 87.8m) Monzonite sill like				irregular, conformable to siltstone?	
96.7	102.8m	MONZ. PORPHYRY med to dark green groundmass 60-80% Plag Phenos (1-4mm) Tabular / Lath like. 5% mafic Phenos Augite?	Mod. Propylitic EPID (5%) Patchy & frac contr. minor kspar on fracs. EP-K / FE / 3-4	Overall 5-7% PY. 3-4% Blebs to dissem. 1-3% Frac PY Overall: non magnetic locally hydrothermal mt in fractures. Locally up to 1-2% MT minor	8-12/m 30 & 45 to C.A.	Contacts: Upper sharp @ 40° to C.A. Lower sharp @ 30° to C.A., fractured. Carbonate on fractures Chloritized mafics and groundmass and frac Chlorite Alt.	
102.8	108.3m	SILTSTONE VOLCANICLASTIC light pink-brown to grey green colour fine grained	Hornfelsed Biotite Alt & Silicified. Minor EPID & KSPAR Alt (1%) on Frac. increases toward lower contact HF (BT-SI) / P / 7 EP-K / FE / 2	Overall 1-3% dissem PY minor frac / bedded controlled PY, preferentially to sandy interbeds crudely bedded control.	15/m @ 30 & 75° to C.A.	Minor Carbonate on fracture surfaces 103.2 To 104.1 Bedded Slstne @ 30° to C.A. 106.5 To 107.2 Bedded Siltstone @ 40-45° to C.A.	

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HOLE NO. CH - 90 - 10

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		(105.6 - 106.0m) MONZONITE SILL/DYKE				105.6 - 106.0 MONZONITE SILL/DYKE Blocky / Fractured 1-3% dissem PY 80% Plag Phenos, in a grey aphanitic groundmass Contacts: broken.	
108.3	114.4m	HETEROLITHIC HBLD DIORITE INTRUSION BRECCIA Fragments range from 4-40mm overall 30% size fragments subangular to subrounded 10-15% Siltstone fragments predom near upper contact. 4-50mm Hornblende altered to pink-brown colour; Some KSPAR Alt Silstone Frags and EPID / PY 10-20% Altered diorite (monzodiorite?) fragments Sericite Altered Plag Phenos (80%) 1-5mm with 5% Mafic Hbld Phenos; Mineralized 3% PY frags Groundmass: med. grey-green colour; fine grained Diorite 20-30% Plag Phenos, 10-30% Hbl; 5% Augite(?) Phenos Rep 110.7m Diorite intrusion Breccia, groundmass does not stain FP clasts stain wkly in centers of plag phenos (Cirricle Stain?) but not in groundmass (∴ also Diorite) Rep 111.2m HB Diorite with minor zenoliths no KSPAR	Wk to Mod EPID (1-3%) Frac & Patchy	Overall: 2-4% PY 1-2% Dissem; 1-2% Frac PY Overall <1% MT locally up to 1-2% MT in hydrothermal fracs	6/m 40-50° to C.A.	Contacts: Upper contact sharp @ 35° to C.A. Lower contact sharp @ 25 to C.A. strong EPID/KSPAR Alt @ lower contact over 20cm wide Non sorted → Brxx unit. Overall: Moderately Magnetic → equal in groundmass & frags Moderate Chloritization: mafics & groundmass Minor Carbonate on fracs	
114.4	117.9m	MONZODIORITE with 10% SILTSTONE ZENOLITHS, grey-green groundmass 60% W/ Plag Phen (1-4mm) tabular/equant Sericite Alt. Hornfelsed Siltstone zenoliths Biotite Alt & Silicified.	Mod EPID Alt (1-3%) Wk KSPAR Alt (1%) Alt frac & patchy EP-K / FE / 3	Overall 3% PY 1-2% Dissem 1-2% Frac	10/m 35-45° to C.A.	Contacts: Upper sharp @ 25° to C.A. Wavy lower c/c sharp @ 55° to C.A. Minor Carbonate on fracs Chlorite in fracs; Chlorite Alt of mafics moderate	

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HOLE NO. CH-90-10

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
117.9	123.5m	SILTSTONE VOLCANICLASTIC	Hornfelsed Biotite	Overall: 3% PY	8-10/m	5cm zone of EPID/KSPAR/CHLORITE Alt	
		light green-grey to pink-brown	Alt & Silicified		20° & 60°	@ lower contact.	
		colour, fine grained	weak frac controlled		to CA		
			EPID Alt		Blocky zones of more intense fracturing		
		REP 117.7m altered siltstone w/	HF (BI-SI)/P/7			120.9 - 121.5 Bedded siltstone @ 50° to C.A	
		sulphides, tr kspar along fine	EP /FE/2			120.4 - 120.5 Monzo-Diorite Sill (DYKE ?)	
		frac. filling (wk-mod.)				@ 121.0 0.5cm Qtz Veinlet; kspar vein selvage @ 75° to C.A	
123.5	128.0m	Monzo-Diorite with ≈5%	EP-K/FE/3			Contacts: Upper irregular @ 65° to C.A.	
		siltstone xenoliths, hornfelsed				125.1 - 125.3m Hornfelsed Siltstone xenolith	
		same as above (see 114.4 - 117.9				126.0 - 126.1m "	
		for description)				126.4 - 127.0 m "	
128.0	133.7m	Mixed Zone: Monzo-Diorite (60%)	Mod EPID (5%) Alt	Overall 3-5% PY	7/m	Contacts: Upper and lower contacts are vague gradational	
		and Andesite (40%)	Patchy & frac. where	2-3% Dissem	30° (	Carbonate on frac and fracture fill Carb.	
		Andesite: med to dk green	in monzo-diorite host	2% Frac	45°-50°	Mod to strong chloride Alt in Volcanic ANDS	
		aphanitic to fine gr groundmass	Mod EPID wk kspar		to CA.	Chloride Alt of unit mafics	
		10-30% Plag Phenos.	CH-EP/P/15				
		Monzo-Diorite: light to medium	EP-K/FE/2			Volcanic ANDS predominates in upper 2m of	
		grey-green				unit.	
		50-80% Plag Phenos (1-4mm)	Tabular lath like				
		5% Augite Phenos (up to 3mm)					
		REP 132.1 MONZODIORITE ? with					
		PY-EP contact zone with ANDS ?					
		20-30% interstitial primary kspar.					

DRILL HOLE NO. CH-90-10

HOLE NO. CH-90-10

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc)	Mineralization, type, age, relations
133.7	142.9m	MONZO-DIORITE SILL (?) light green-grey groundmass pred. Minor pinkish tinge. Aphanitic to fine g.s. 50-80% Plag Phenos (1-3mm) lath & tabular shape. Minor Sericite Alt? where Plag Phenos are light green colour (137.3m) (141.0-141.7m) ANDS XENOLITH? Very questionable probably still monzo-diorite. Possible Volcanic ANDS, dark green aphanitic to fine grain groundmass 20-40% Plag Phenos (1-3mm) Frac @ 20° to C.A.	Mod. EPID Alt (3%) Patchy & Frac contr. Wk Frac contr. Kspar Alt (1%) locally increased EP/P/4 EP-K-CH/FE/2.	3-5% PY 1-3% blebby/dissem PY 2-3% Frac PY Overall wk magnetic	3-10/m @ predom 40° & 75° & 80° to C.A.	Contacts: Upper Vague Lower Sharp @ 55° to C.A. Carbonate on Frac surfaces Weak chlorite Alt. 137.3 Fracture (@ 35° to C.A.) 3mm wide filled with MT/PY HYDROTHERMAL FRAC FILL. 142.0-142.5 Increased Alt. EPID & KSPAR (10%) and chlorite alteration with increased mineralization 10-15% PY, 5% MT	
142.9	144.9	SILTSTONE VOLCANICLASTIC light green-grey to pink-brown colour fine grained	Hornfelsed Silicified & Bwl Alt late Frac. controlled Kspar & EPID Alt (1%) HF (SI-BT)/P/7 K-EP/FE/3	Overall 2-5% PY 2-3% Frac 1-2% Webby-dissem Var. magnetic from non mag to locally strong up to (3%) MT overall tr MT	5/m @ 55-60° & 80° To C.A.	CONTACTS: UPPER sharp @ 55° to C.A. Lower wavy and vague 55° to C.A. Alteration predom @ Contacts: At Upper contact increased PY/MT/EPID @ Lower increased Kspar 144.1-144.6m Bedded siltstone @ 35° to C.A.	
144.9	149.3	DIORITE (to monzo diorite?) sill? with minor hornfelsed siltstone 1m towards lower contact. light to med. green grey colour 50-60% Plag Pheno (1-5mm) lath and tabular stripes	Wk EPID (1%) Alt Frac Contr Minor Kspar (1%) Alt EP-K/FE/2. sericite Alt of some plag phenos (5%) light green coloured. SE/PL-PHENO/3	Overall 3-5% PY 2% Frac 1-3% Dissem Mod mag. Overall <1% MT. Tr CPY	5-8/m @ 50° & 75° to C.A.	CONTACTS: Upper Vague @ 55° to C.A. Lower Sharp @ 35° to C.A. with minor siltstone rip-up clasts (up to 1cm) Carbonate on fracs; wk to med Chlorite Alt @ 145.8m Tr CPY	

DRILL HOLE NO. CH-90-10.

HOLE NO. CH-90-10

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		(148.5-149.0m)				148.5-149.0m <1cm to 3cm wide diorite sills thru Hornfelsed siltstone (50%) conformable INT. with siltstone bedding @ 45° to CA.	
149.3	152.9m	HORNFELSED SILTSTONE Volcanic(?) light green-grey to brown green Fine grained.	Hornfelsed silicified & Biotite Alt Minor EPID & Kspar Alt on Frac (<1%) HF (SI-BT)/P/7 EP-K /FE /2	Overall 3% PY 1-2% Dissem. 1-2% Frac.	5-8/m @ 15°, 60° & 90° to C.A.	Contacts (?) gradational carbonate / chlorite on fractures.	
		(150.0-150.2m) monzo-diorite sill				150.0-150.2 Monzodiorite sill conformable? upper contact @ 40° to C.A; Lower Ctc broken weakly magnetic	
		(151.0m)				@151.0 Volcanic (ANDS) Fragment subangular-subrounded (3x6cm) 5% dissem & blebby Py	
		(151.3m) GEP Unusual Alt^n in Bleached siltstone; Chl-EP(Q) Frac Fill with Kspar envelope - pervasive into siltstone, 15-20% Secondary Kspar, Fe+cp					
		(152.6-152.8)				152.6 - 152.8 Bedded siltstone @ 55° to C.A	

DRILL HOLE NO. CH-90-10

HOLE NO. CH-90-10

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc)	Mineralization, type, age, relations
152.9	161.6m	MONZONITE TO MONZO DIORITE	Mod EPID Alt (3%)	Overall 3-5% PY 2-3%	5-15/m	Contacts Upper Gradational	
		light to med. grey-green, pink-grey	patchy. Mod. Potassic	Dissem. Blebby 1-2%	30° 4 60°	Lower: Brecciated, broken-up sheared	
		green colour. 60-80% Plag Phenos	3-5% to Pervasive Kspar	Frac.	to CA	contact @ 161.6 slickensides	
		(1-5mm) Tabular/lath shape. Plag	for overall: Wk mag.	5m towards lower		Carbonate / Chlorite on frac.	
		Phenos altered to soft milky white	contact. Tr MT, but	variable			
		along frac. (clay?)	EP-K/FE 15				
		Ref 160.0 -> "chert clast" intrusion	bxx similar to	#11?, 25% primary kspar		, clasts do not stain.	
		(156.4 - 156.7m)				156.4 - 156.7m 5% Volcanic (ANDS) fragments subrounded.	
						(< up to 2cm) dark green Aphanitic	
		(157.2 - 161.6m)				157.2 - 161.6 Pervasive Potassic kspar Alt thru Int.	
		(157.4m)				@157.4 10 cm Alt selvage EPID/kspar around PY/MT.	
						Chlorite Alt frac fill @ 45° to CA. 10-15% PY 1-2% MT	
		(160.8 - 161.8m)				160.8 - 161.8 Increased magnetics mod to strong	
						at lower contact 1% MT	
161.6	176.5	SILTSTONE (~70% to 80%) + minor	Hornfelsed silicified +	Overall 3-4% PY 2-3%	4-10/m @	Contacts: Upper Bxx, Broken up.	
		sandstone (15-20%) Volcaniclastics	Biotite Alt, Minor	Dissem: 1% Frac Generally	65° 4	Lower gradational into mixed	
		and minor MONZODIORITE sills	Patchy and Frac	non magnetic but	50° to	monzodiorite/siltstone unit. @ 45° to CA.	
		(5-10%) siltstone: green-grey light to	EPID Alt (<1%)	wk mag zones near	CA.	Carbonate on fracs and frac fill	
		light brown-green (tan/pink) fine grained.		4 within int sills		165.6 to 165.9 Bedded siltstone @ 55° to CA.	
		sandstone: light grey to light grey-grey med grained.				167.3 to 167.5 Bedded siltstone @ 40° to CA.	

DRILL HOLE NO. CH-90-10

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc)	Mineralization, type, age, relations
						@ 169.7 3cm wide siltstone Brxx Zone @ 30° to C.A.	
						170.4 - 170.5 Bedded siltstone / sandstone @ 60° to C.A.	
						@ 176.4 siltstone Bedding @ 45° to C.A.	
		REP 167.8m Alt^d siltstone lit	tle or no kspar				
		(162.7 - 162.8m)					
		(164.1 - 164.7m) Fine to med grained	Mod EPID/CHLORITE Alt			@164.3 Tr. CPY -> observed in split core	
		(166.3 - 166.5m) Monzo diorite sills?	3-5% dissem PY				
		(171.7 - 171.9m) generally appear conform	ble to siltstone				
		175.3 - 175.6m) Brxx Siltstone with M	onzodiorite Int.				
		REP 176.4m Siltstone / monzodior. co	ntact; 10% Primary	kspar (vfg) in	Monzo Dior.		
176.5	182.6 m	MONZODIORITE SILLS (75%) with mino	Weak EPID Alt (1%) Frac	Overall 3% PY 1-3%		Upper Contact: Gradational from predom siltstone	
		hornfelsed siltstone (25%) zeno liths?	minor Patches weak ksp	c Dissem to Blebby PY		with INT sills to predom sills, generally	
		60 - 70% Plag Phenos (1-3mm) lath/tabular	Alt (minor ≤1%)	up to 1% Frac PY. Generally		conformable with bedding @ 45° to CA.	
		shapes; Grey / green colour	EP/K 1FE/2	non to wk Magnetic except			
			+1F, P7	a couple hydrothermal			
		(176.9 - 177.1) siltstone -> hornfelsed	silicified & biotite	MT frac fills		176.6 - 3.5mm MT frac fill @ 40° to CA.	
		(177.7 - 177.8) Alt'd fine grained	grey green colour			@ 180.3 5mm MT / PY Frac fill @ 40° to C.A.	
		(178.6 - 178.9)				@ 181.4 5mm MT / PY Frac fill @ 40° to CA.	
		(180.7 - 181.8) Bedded siltstones @ 4	5 to C.A.			181.9 - 182.0 PY / MT Frac fill / Brxx	
						10 - 15% PY 3% MT	
		@ 182.6 EOH					

DDH CH-90-10

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51001	15.8	18.0	2.2	1.5	100	0								
002	18	20	2.0	0.1	90	0.2								
003	20	22	2.0	0.1	80	0.4								
004	22	24	2.0	0.8	85	0.3								
005	24	26	2.0	2.2	80	0.4								
006	26	28	2.0	0.1	95	0.1								
007	28	30	2.0	1.1	90	0.2								
008	30	32	2.0	0.1	95	0.1								
009	32	34	2.0	0.3	95	0.1								
010	34	36	2.0	0.1	95	0.1								
011	36	38	2.0	0.5	90	0.2								
012	38	40	2.0	0.5	100	0								
013	40	42	2.0	0.1	95	0.1								
014	42	44	2.0	0.0	95	0.1								
015	44	46	2.0	0.5	95	0.1								
016	46	47	2.0	1.7	75	0.5								
017	48	50	2.0	0.0	90	0.2								
018	50	52	2.0	0.1	100	0								
019	52	54	2.0	0.1	80	0.4								
010	54	56	2.0	0	90	0.2								
021	56	58	2.0	0	95	0.1								
022	58	60	2.0	0	85	0.3								
023	60	62	2.0	0	90	0.2								
024	62	64	2.0	0.1	85	0.3								
025	64	66	2.0	0	90	0.2								

DRILL HOLE NO. CH-90-10

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51026	66	68	2.0	0.1	90	0.2								
027	68	70	2.0	0	95	0.1								
028	70	72	2.0	0.4	95	0.1								
029	72	74	2.0	0	95	0.1								
030	74	76	2.0	0.1	95	0.1								
031	76	78	2.0	0.1	100	0								
032	78	80	2.0	4.9	90	0.2								
033	80	82	2.0	2.3	90	0.2								
034	82	84	2.0	0.1	100	0								
035	84	86	2.0	2.1	100	0								
036	86	88	2.0	2.7	95	0.1								
037	88	90	2.0	0.5	95	0.1								
038	90	92	2.0	0.1	95	0.1								
039	92	94	2.0	0.1	100	0								
040	94	96	2.0	0	95	0.1								
041	96	98	2.0	0.1	95	0.1								
042	98	100	2.0	0.2	100	0								
043	100	102	2.0	0.5	95	0.1								
044	102	104	2.0	0.2	95	0.1								
045	104	106	2.0	0	65	0.7								
046	106	108	2.0	0.1	95	0.1								
047	108	110	2.0	1.6	85	0.3								
048	110	112	2.0	1.6	90	0.2								
049	112	114	2.0	4.2	95	0.1								
050	114	116	2.0	1.6	90	0.2								
051	116	118	2.0	0	95	0.3								

DRILL HOLE NO. CH-90-10

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51052	118	120	2.0	0	90	0.2								
053	120	122	2.0	0	90	0.2								
054	122	124	2.0	0	90	0.2								
055	124	126	2.0	0	95	0.1								
056	126	128	2.0	0	85	0.3								
057	128	130	2.0	0	90	0.2								
058	130	132	2.0	0.4	85	0.3								
059	132	134	2.0	0.1	95	0.1								
060	134	136	2.0	0	90	0.2								
061	136	138	2.0	0.6	85	0.3								
062	138	140	2.0	0.7	100	0								
063	140	142	2.0	0.9	100	0								
064	142	144	2.0	0.3	85	0.3								
065	144	146	2.0	0	90	0.2								
066	146	148	2.0	1.4	100	0								
067	148	150	2.0	0.9	85	0.3								
068	150	152	2.0	0.1	95	0.1								
069	152	154	2.0	0.1	85	0.3								
070	154	156	2.0	0.1	95	0.1								
071	156	158	2.0	0.5	95	0.1								
072	158	160	2.0	0.4	85	0.3								
073	160	162	2.0	0.7	90	0.2								
074	162	164	2.0	0.6	95	0.1								
075	164	166	2.0	0.2	90	0.2								
076	166	168	2.0	0.1	100	0								
077	168	170	2.0	0	90	0.2								

DRILL HOLE NO. CH-90-10.

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51078	170	172	2.0	0	95	0.1								
079	172	174	2.0	0.2	95	0.1								
080	174	176	2.0	0.1	95	0.1								
081	176	178	2.0	0.1	90	0.2								
082	178	180	2.0	0.2	100	0								
083	180	182.6	2.6	0.8	96	0.1								
EOH														

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DRILL HOLE NO. CH-90-10.

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-11

UTM N: 6124760m
UTM E: 402345m
GRID N: 111+05
GRID E: 103+00

Elev.: 1372m
Depth: 170.4m
Azimuth: 270°
Dip: -46°

Metres (m)

0.0 - 12.8	CASING	
12.8 - 22.9	SILTSTONE/MONZODIORITE SILLS weak epidote +/- k-spar, 2-5% PY.	
22.9 - 48.7	MONZODIORITE SILL, LOCAL INTRUSION BRECCIA weak to locally strong epidote and k-spar, 2-4% PY, trace to 0.5% CP, MT.	
48.7 - 55.6	SILTSTONE, MINOR SILLS weak epidote and k-spar. 2-5% PY.	
55.6 - 59.0	DIORITE SILL weak epidote and chlorite +/- k-spar, 3-5% PY, trace MT.	
59.0 - 61.7	MONZODIORITE SILL weak epidote and k-spar, 2-4% PY, trace MT.	
61.7 - 74.6	SILTSTONE local strong k-spar in breccia zone, 1-3% PY, trace CP.	
74.6 - 78.9	MONZODIORITE SILL weak to mod. quartz veins, 2% PY, trace CP.	
78.9 - 94.6	SILTSTONE, MINOR DIORITE SILLS weak epidote +/- k-spar, 2-10% PY-CP (est. 0.6% Cu, 79-88m).	
94.6 - 102.6	MONZODIORITE SILL weak epidote and chlorite +/- k-spar, 3% PY, trace to 0.5% CP.	
102.6 - 111.6	SILTSTONE-MONZODIORITE SILLS weak k-spar and epidote, 2-3% PY, trace CP.	
111.6 - 114.5	MONZODIORITE SILL weak k-spar and epidote and biotite(?), 3-4% PY, trace CP.	
114.5 - 121.3	SILTSTONE-MONZODIORITE SILLS weak epidote and k-spar, 2-3% PY.	
121.3 - 134.0	MONZODIORITE SILL with MINOR SILTSTONE weak epidote, 3-7% PY.	

CH 90-11 cont.

134.0 - 137.4 SILTSTONE
weak epidote +/- K-spar

137.4 - 140.0 MONZODIORITE

140.0 - 144.3 LITHIC TUFF +/- CRYSTALS (SILTSTONE CLAST TUFF)
weak epidote and chlorite, 4-5% PY.

144.3 - 170.4 SILTSTONE (HORNFELS)
weak epidote +/- K-spar, 1-5% PY.

170.4 E.O.H.

** best Cu zone : 79 - 102.6m est. 0.3% Cu **

HOLE NO. CH 90-11

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING		COLLAR	-46°	270°	DATE STARTED:	JUNE 20, 1990	PROJECT:	CHUCHI LAKE
					DATE COMPLETED:	June 23, 1990	N.T.S.:	93N/7E
					COLLAR ELEV.:	1372 m	LOCATION:	
					NORTHING:	6124760		111+05N / 103E, on main road
					EASTING:	402345		
					AZIMUTH:	270°		
					DEPTH:	170.4 m (559')	DATE LOGGED:	June 21-23, 1990.
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	12.8m	CASING					
12.8	22.9	SILTSTONE: fine to med bedded with numerous .5 to 100 cm thick sills of fg monzodiorite. Slst is lt to dk grey-green (GS=3-9) with local zones of lt purple biot hornfels and brecciation with bleached fr. Minor 2-3mm thick feld-rich sandy lenses (eg. 15.4m). Slst is gen siliceous, cherty, non-magnetic				14.5m BD/50°/3; .5 to 2cm thick beds and 1cm thick monzod sill	
(12.8	13.7)	Fg plag porph monzod sill, non-magnetic, equant phenos, ~5% Hb	A) Ep/FF/2 B) Ep/D/2	A) Py/D/3% B) Py±Ep/FF/3%		LCT/60°/3; conformable, broken and Fe-stained	
(13.7	16.3)	Mainly slst with 5% sills 1-2cm thick	A) Ep-K/FF/4 B) Ep/D/2	A) Py/D/3% B) Py-Ep-K/FF/2% C) Py/FF/2%		LCT/?/? obscured by [illegible]	

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DRILL HOLE NO. CH 90-11

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
(16.3	17.4)	Fg fld porph monzod sill, mi-mag, med grey-green, (GS=5)	A) Ep/FF/1-2 B) Ep/D/1-2	A) Py/D/2-3% B) Py/FF/1-2%		LCT/55°/3, conformable	
(17.4	19.4)	Siltstone: interbed lt green tuffac sst (up to 15cm thick) and black mass cherty s/st (5-10cm thick)	A) K±Ep/FE/2-3	A) Py±KEp/FF/2-3% B) Py/D/1%		18.3m BD/65°/3, sharp contact between tuffac sst and s/st; rip-up clasts, load casts, graded beds indicate tops uphole (to the east) LCT/?/?, obscured by mafic nature of monzod at contact	
(19.4	20.7)	Fg fld porph monzod: med grey-green to dk grey-green, contacts are more mafic-rich	A) Ep±K/FE/4 B) Ep/D/3	A) Py±K-Ep/FF/3% B) Py/D/1-2%		LCT/?/?; obscured by broken core 19.6-21.2m	
(20.7	21.4)	Siltstone - broken zone, contacts obscured	A) Cb/FF/6	A) Py/FF/1-2% B) Py/D/1-2%			
(21.4	22.1)	Fg leucocratic monzod; equig. (GS=4), ≤5% mafics	A) Ep/FF/2	A) Py/D/1% B) Py-Ep/FF/1%		Both contacts obscured by broken core but probable sill	
(22.1	22.9)	Siltstone - pale pink to med grey-green, locally purplish bi hornfels patches	A) K/P/4-5 A) Cb/FF/3	A) Py/FF/1-2% B) Py/D/1%		LCT/60°/2; slightly obscured by broken core and perv Kspar flooding localized at contact, appears to be conformable; s/st xenoliths continue for ~.5m within sill.	

HOLE NO. CH 90-11

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
22.9	48.7	Monzodiorite sill: fg to mg crowded plag porph (60% equant 1mm xtals), 5% fg tabular hb, 30% k-spar matrix. Rare plag(?) "phenos" (may be silt clasts) to ~5cm					
(22.9	24.9)	Bleached contact zone, broken core 22.9-24.0, ground core 24.0-24.4.	A) K-Ep±Ac/FE/3 B) Ca/FF/1 C) Q-Ca/V/1	A) Py/D/1-2% B) Py/FF/1%		Single qtz-carb vein/40°/2, ~1cm thick	
(24.9	26.5)	Strong k-spar flooded zone (clast to cov with sharp contacts @ 20°)	A) K-Ep-Ca-Cl/P/3	A) Py±tr Cp/D/2-3%			
(26.5	29.3)	Weakly altered [illegible]	A) Ep±K/FE/3-4 B) Ca/FF/2	A) Py/D/2% B) Py/FF/2%			
(29.3	33.4)	Xenolith-rich zone (intrusion breccia): [illegible] - 25-30% clasts in fg-mg crowded porph monzdd gm - UCT + LCT both gradational over 10cm ([illegible] 10% of gm)	A) Ep±K/D/3 B) Ca/FF/1	A) Py/D/2-3% B) Py/FF/1-2%		Py dissem in gm and clasts Clasts = 60% subr crowded plag porph up to 5cm (similar to gm) = 40% subang pink to pale green silt avg 1-2cm	

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DRILL HOLE NO. CH90-11

HOLE NO. CH90-11

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
(33.4	48.7)	Monzod, rare xenoliths	A) Ep±K/FF/3 B) Ep/D/2	A) Py-Ep-trCp/FE/2% B) Py-Mt-Cp-Ep/FF/1% c) Py/D/1%		* 41.3-41.6 m = K-Ep-Ca flooded zone similar to 24.9-26.5m, contains 5% Py with tr to .5% Cp * best Cp from 46-48m assoc with Ep-Py-Mt veins and FF	
48.7	55.6	Predominantly S/st with subordinate (20%) sills: s/st is fine to med bedded (.5 to 3cm), med green tuff and tan to pink clasty slst with local bi hfls patches (GS = 5-6)	A) Ep/FF/3-4 B) K/FE/3 C) He-Ca/FF/1	A) Py/DB/2-5% B) Py-Ep/FF/2%		53.0 BD/60°/3 54.5 SH/~60°/2-3, mud gouge with bleached zone ~ 20 cm wide LCT/60°/1, appears sharp, conformable, possibly chilled	
55.6	59.0	Fg diorite: dk green (GS = 8), equig, non-mag, massive, bi 5%	A) Ep±K/FE/2-3 B) Ch/P/2 C) Ca/FE/1	A) Py/D/1-2% B) Py/FF/1-2% c) Py-Mt-Ep/FE/1-2%		LCT/irreg/1, xenos of dk green diorite in monzod	
59.0	64.7	Fg-Mg Monzod Sill: -equig, pale green, non-mag stoped inclusions of slst and dk green diorite	A) Ep-K/FE/2 B) Ep/D/2-3	A) Py-Mt-Ep/D/1-2% B) Py/D/1-2%		LCT/70°/3, sharp + conformable	

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DRILL HOLE NO. CH90-11

HOLE NO. CH 90-11

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
61.7	74.6	Siltstone: pale grey-green to tan, local 1-5 cm thick, leucocratic sills of fg, equig monzod.				66.7-69.0 SH/10°/2, mod carb FF subparallel to CA, bleached over this interval. Bds uniform to convoluted; possibly rotated parallel to shear	
(61.7	64.7)	Strongly brecciated and K flooded; Ep + cb (Ac?) as matrix to crackle bx (altered s/st)	A) K±Ep-Ac?/P/?	A) Py-trCp/FE/2-3%			
(64.7	74.6)	Siltstone.	A) Cy/FE/4-6 B) Ca/FF/3	A) Py-Cp/QV/1% B) Py/D/tr-1%		66.1 Ep-He-Py-Ch-tr Cp on 20° Fr ~10 cm wide zone 71.3 QV/25°/3, occupies small shear (late), ~6 cm true width LCT/55°/2-3	
74.6	78.9	Monzodiorite Sill: - fg, white (GS=2), contains ~20% slst inclusions	micro-veins A) Q/MV/1-5 B) Cy/P/3	A) Py-Cp/QV/1% B) Py/D/1%		Bleaching from shear continues across contact to ~78.9 m Quartz veinlets are subparallel @ 10°, .2-.5 cm thick, milky chalcedonic	
78.9	94.6	Siltstone: - 5-10% sills of fg-mg dioritic sills to 10 cm thick, locally with stoped slst fragments (eg. 85.7 m) - lt to med green with local brown-black biot patches - local bleaching along low ∠ str.	A) Ep±K/FE/3 B) Ep/D/3 C) Ca/FE/3-5	A) Py ± Cp/D/1-20% * B) Py ± Cp-Mt-Ep-Ac/FE/1-2% C) Py/FE/1%		84.6 BA/65°/3 87.2 SH/60°/2-3, 3 cm wide with mod-st gouge and assoc carb FF	

* From 79-88 m, tr to 2% Cp as dissem, as FF with Py-Ep ± Mt, in minor qtz-carb veins, and as fg dissem in bedding-controlled (?) semi-mass Py (eg. 85.9 = 10 cm zone of andes tuff sst adj to monzod sill contains ~20% Py + 5% Cp

DRILL HOLE NO. CH 90-11

HOLE NO. CH 90-11

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
94.6	102.6	Monzodiorite sill : - fg-mg, subporph, plag avg. 1mm, mod magnetic, 15% fg chloritized Hb, k-par gm ~15%, uniform text, no xenoliths, GS = 5-6	A) Ep±K/FE/2 B) Ep-Ch/D/3 c) Cp/FE/1 (lok)	A) Py/D/2% B) Py-Ep±Cp/FE/1% * Good Cp in heavy Py-Ht-Cp veins within thin grid selvedges over 15cm at 101.4m @ 20°CA, 2-3 mm thick		UCT/60°/3, razor sharp conformable LCT/60°/3, some narrow 3-25 cm sills continue into Slst	
102.6	111.6	Siltstone / Monzodiorite Sills - approx 50/50 siltstone/sills - slst is pale green to purple to black (GS= 3-8) - sills are lt to med green fg, non-magnetic	A) K-Ep/FE/3, best in sills B) Ep/FE/1-2	A) Py/DB/1-2% B) Py+trCp-Ep/FE/<1% c) Cp-Py-K-Ep/FE/tr-1% (local envelopes)		105.0 BD/65-70°/3 104.7 graded bed in fp-rich tuffaceous sst, tops to up-hole to east LCT appears sharp but obscured by kspar flooding at contact	
111.6	114.5	Monzodiorite Sill : - fg, lt to med green, equig, non-magnetic (GS = 3-4)	A) K-Ep-Bi/FE/3-4 B) Cp/FE/3	A) Py/D/2% B) Py-Cp-K-Ep-Bi/FE/ (trCp) 1-2%		114-114.2 broken, bx zone with wk gouge and carb FE @ 60° SH/60°/2 LCT/65°/3	
114.5	121.3	Siltstone / Monzodiorite Sills: - sills from 10-100 cm thick, comprise 40% of interval - gen sharp contacts (not stoped) - same as 102.6-111.6	A) Ep/FE/2 B) Ep/D/2-3 c) K/FE/1-2	A) Py/D/2% B) Py-Ep/FE/1%		117.3 BD/70/3 ; .5 to 2cm thick beds LCT/65°/3, slight chilling in sill	

HOLE NO. CH 90-11

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
121.3	134.0	Monzodiorite with 20% siltstone: - conformable siltstone zones, beds disrupted and locally brecciated (during "bors'ching?"), pale green to tan - monzod is med grey-green (GS=4), fg-mg subhedh, minor pinkish slst clasts to 1cm, non-magnetic	A) Ep/D/3 B) Ca/FF/1-2	A) Py/D/2-7% B) Py/FF/1%	→	zones of pervasive massive epid have best diss Py LCT/70°/3, sharp	
134.0	137.4	Siltstone (almost wholly): - beds poorly preserved, pale green with local patches of biotization	A) Ep±K/FF/2-3	A) Py/DB/1% B) Py-Ep-Cp-Ch/FF/Tr to 1%		135.0 BD/80/2 LCT/not sharp, appears to be gradational over 20cm	
137.4	140.0	Diorite: - fg-mg equig diorite with ~15% bx, non-magnetic - bx is pale green to mottled black/pale green, subang clasts of pinkish slst up to 2cm but commonly 2-3mm, comprise 10-30%, some black slst clasts to 2cm	A) Ep-Ch/FF/2-3 B) Ep/D/4-5	A) Py/D/3-5% B) Py-tr Cp/FF/1%		CT between monzod and monzod intrusion breccia occurs over .5m at ~140.0m, marked by increased gr size (plag to 2mm) and by irregular black biotite-rich patches LCT/45°/3, conformable, beds locally at lower angle to core axis	
140.0	144.3						
Lith	Tuff						

DRILL HOLE NO. CH 90-11

HOLE NO. CH 90-11

INTERVAL		ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
FROM	TO						
144.3	170.4	Siltstone :				154-158 bleached zone surrounds shear	
	EOH	- few sills (eg 165.5-166.7,	a) Ep±K/FF/2	A) Py/D/1-5%		from 155.1-156.0 SH/40°/mod-St but	
		163.4-164.9)	c) Ca/FF/1-7	(certain beds have		little clay gouge due to siliceous nature	
		- tan to brown bth, beds	(Strongest from 150-	up to 5%)		of siltstone	
		locally disrupted, gen. wav.	154m)	B) Py-Cp/FF/≤1%			
		widespread bth				152.0 BD/75-80°/3, 2mm to 35cm thick	
						170.0 BD/75-80/3, " " " "	

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DRILL HOLE NO. CH 90-11

DRILL LOG sample data

DDH CH-90-11

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S	%	AMT LOST								
51084	12.8	14	1.2	0.1	50	0.6								
085	14	16	2.0	0.1	95	0.1								
086	16	18	2.0	0.1	95	0.1								
087	18	20	2.0	0.1	95	0.1								
088	20	22	2.0	0.2	95	0.1								
089	22	24	2.0	0	65	0.7								
090	24	26	2.0	0	75	0.5								
091	26	28	2.0	0	85	0.3								
092	28	30	2.0	0	95	0.1								
093	30	32	2.0	0.1	90	0.2								
094	32	34	2.0	0.2	100	0								
095	34	36	2.0	0	100	0								
096	36	38	2.0	0.1	95	0.1								
097	38	40	2.0	0	85	0.3								
098	40	42	2.0	0	100	0								
099	42	44	2.0	0.4	90	0.2								
100	44	46	2.0	0.8	95	0.1								
101	46	48	2.0	0.7	85	0.3								
102	48	50	2.0	0.4	85	0.3								
103	50	52	2.0	0	95	0.1								
104	52	54	2.0	0.1	90	0.2								
105	54	56	2.0	2.3	60	0.8								
106	56	58	2.0	2.5	90	0.2								
107	58	60	2.0	2.3	95	0.1								
108	60	62	2.0	0.1	85	0.3								
109	62	64	2.0	0	85	0.3								

DRILL HOLE NO CH-90-11

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51110	64	66	2.0	0	95	0.1								
111	66	68	2.0	0	100	0								
112	68	70	2.0	0	95	0.1								
113	70	72	2.0	0	95	0.1								
114	72	74	2.0	0	90	0.2								
115	74	76	2.0	0	85	0.3								
116	76	78	2.0	0.1	95	0.1								
117	78	80	2.0	0.1	90	0.2								
118	80	82	2.0	0.1	85	0.3								
119	82	84	2.0	0	70	0.6								
120	84	86	2.0	0.1	95	0.1								
121	86	88	2.0	0	90	0.2								
122	88	90	2.0	0	90	0.2								
123	90	92	2.0	0.1	80	0.4								
124	92	94	2.0	0.1	90	0.2								
125	94	96	2.0	0.2	95	0.1								
126	96	98	2.0	0.1	95	0.1								
127	98	100	2.0	1.6	100	0								
128	100	102	2.0	0.5	90	0.2								
129	102	104	2.0	0	100	0								
130	104	106	2.0	0	90	0.2								
131	106	108	2.0	0	100	0								
132	108	110	2.0	0.1	90	0.2								
133	110	112	2.0	0	95	0.1								
134	112	114	2.0	0.1	100	0								
135	114	116	2.0	0	90	0.2								

DRILL HOLE NO. CH-90-11

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S	%	AMT LOST								
S 11 36	116	118	2.0	0	100	0								
137	118	120	2.0	0.1	100	0								
138	120	122	2.0	0.1	100	0								
139	122	124	2.0	0	85	0.3								
140	124	126	2.0	0	90	0.2								
141	126	128	2.0	0	100	0								
142	128	130	2.0	0	90	0.2								
143	130	132	2.0	0	95	0.1								
144	132	134	2.0	0	90	0.2								
145	134	136	2.0	0	100	0								
146	136	138	2.0	0	95	0.1								
147	138	140	2.0	0	100	0								
148	140	142	2.0	0	100	0								
149	142	144	2.0	0	100	0								
150	144	146	2.0	0	95	0.1								
151	146	148	2.0	0	90	0.2								
152	148	150	2.0	0	95	0.1								
153	150	152	2.0	0	95	0.1								
154	152	154	2.0	0	95	0.1								
155	154	156	2.0	0.1	90	0.4								
156	156	158	2.0	0.1	90	0.2								
157	158	160	2.0	0	100	0								
158	160	162	2.0	0	90	0.2								
159	162	164	2.0	0	100	0								
160	164	166	2.0	0	90	0.2								
161	166	168	2.0	0	100	0								

DRILL HOLE NO. CH-90-11

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51162	168	170.4	2.4	0	100	0								

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DRILL HOLE NO CH-90-11

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-12

UTM N: 6124700m
UTM E: 402090m
GRID N: 110+56
GRID E: 100+45

Elev.: 1447m
Depth: 152.1m
Azimuth: 290°
Dip: -45°

Metres (m)

0.0 - 4.6 CASING

4.6 - 9.5 ANDESITE
strong chlorite and weak bleaching, 1% PY.

9.5 - 152.1 MONZONITE PORPHYRY
mod.-strong pervasive chlorite, mod. frac. epidote and k-spar, weak pervasive epidote. 3-5% MT, 1% PY, trace CP.

9.5-32.2	fault zone - mod, strong bleaching, carbonate and sericite.
21.0-25.1	gouge/clay
80.2-90.8	trachyte dyke - weak epidote and k-spar.

152.1 E.O.H.

** increased mineralization :	32.2-65.5m	1-3% PY, 0.25% CP, <1% MT
	90.8-118.5m	1-3% PY, 0.25% CP
	127.9-152.1m	3% PY, 0.25% CP

HOLE NO. CH 90-12

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC	N	COLLAR	-46°	290°	DATE STARTED:	June 24, 1990	PROJECT:	CHUCHI LK.
		152.1	-43°	290°	DATE COMPLETED:	June 26, 1990	N.T.S.:	93 N/7E
					COLLAR ELEV.:	1447 m	LOCATION:	Grid Coords:
					NORTHING:	6124700 N		110 + 56 N
					EASTING:	402090 E		100 + 45 E
					AZIMUTH:	290°		
					DEPTH:	152.1 m (499 ft)	DATE LOGGED:	June 25-27th, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	DRB

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	4.6	CASING					
4.6	8.5	Altered ANDESITE aphanitic light green/grey groundmass (65 * 3) 10-30% relic (ghosted) plagio-	CH/P/8 BL-SE/P/2 -ase planes	PY/D-FF/1% Non Magnetic	15/m + rare intense 50°-60° + 15° to C.A.	Moderate to Strong fracturing, block core approaching major fault zone.	
(4.6	7.2)					Fe Carb & Carb Alt. Fractures & Frac-fill Rusty Oxidized fracture surfaces	
8.5	152.1	MONZONITE PORPHYRY grey-green to pink brown (hmoslem) aphanitic to fine gr. groundmass 50-80% plagioclase, phenocryst (1-6mm) tabular/lath shape	CH/P/7 EP-K/FF-FE/5 EP/P/2	MT/D/3-5% PY/D-FF/1% tr.CPY/FF-V/tc			

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DRILL HOLE NO. CH 90-12

HOLE NO. CH 90-12

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		locally sub-crowded to crowded porphyritic moderate sericite alt. of plagioclase phenos. to a light green-white colour 10-15% Mafics Biotite & Hornblende, generally strong chlorite alt.					
(8.5	32.2)	FAULT ZONE: Altered Monzonite Porphyry. aphanitic altered groundmass to a light beige brown/green-grey Strong sericite alt. of plagioclase phenos (1-5mm) ~60% ~15% strong chlorite alt. Mafics (Hornblende?)	SE/D/7 BL-CB/P/6 CH/FF/6	PY-CPY/D/tr. Non Magnetic	Intense	Fault Zone: strongly altered Monzonite Porphyry - Blocky/Rubbly (clay/gouge zones), strongly fractured, Broken Core Strongly Bleached & Carbonate Alt.; minor Quartz stringers (<1 to 3mm wide) <1% Very weak EPID & KSPAR on fractures Strong Chlorite Alt. of fracture + minor chlorite patches (possibly chloritized Andesite fragments?) Trace CPY ← generally in/around chlorite patches	
	(@12.7,	13.1, 13.3 & 25.4) CPY Blebs/Dissem.					
(21.0	25.1)	FAULT GOUGE ZONE	Gouge-CL-CB-SE/P/9			Intensely Altered	
(32.2	152.1)	Moderately to Strongly Magnetic. Weak to Mod. Hematite Alt. on fracture surfaces Carb. fracture fill			6-10 m @ 20-30° & 45 & 75° to CA	Deuteric Chloritized Biotite Books (0.3-1.0 cm) megacrysts (up to 5 cm) within Monzonite Porph.	
(32.2	35.5)	CPY with EPID patches along frac. envelopes with EP-Kspar, also in chlor. patches	CH / P / 7 EP-K/FE/5	PY / D / 1% CPY / D / ¼-½%		Magnetics increasing away from fault zone from weak-mod. to mod.-strong.	

DRILL HOLE NO. CH 90-12

HOLE NO CH 90-12

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(37.4	38.1 &	38.4 to 38.5)	K/FE-P/7 EP/D/2	1/4 - 1/2 % CPY		Weak to Moderate Magnetic Hematite Alt. of MT, strongly fracture controlled	
	(@ 38.8)	0.5 to 1.0 cm wide PY fracture fill	@ 20° to C.A.	80% PY ; 1/4 % CPY			
(40.8	41.2)	Hematite (after MT) fracture @ 10° to C.A. & chlorite alt. with 0.5 cm Kspar Alt. Selvage; Weak Epid.		Weakly Magnetic,	1% PY, 1/4 % CPY		
	(@ 42.8,	43.3-43.4, & 45.8) KSPAR-EPID-CHLR fracture envelopes minor MT & Hematite		1% PY, 1/4 % CPY			
(46.5	46.7)	CHLOR-KSPAR-EPID fracture @	20° to C.A.; 5%	MT + HM, <1% PY,	1/4 % CPY		
(49.5	152.1)	Minor Chloritized Volcanic Fragments subangular (<1-4 cm) ≈ 1-2% Volcanic (ANDS) Fragments overall.					
(50.2	50.4)	PY-MT Chlorite fracture fill	@ 15° to C.A.	10% PY, 8% MT, 1/4	% CPY		
	(@ 54.0)	Dry fracture 5% PY, 1/2 % CPY					
(55.4	55.8)	Dry fracture 5% PY, 1/2 % CPY	Chlorite Alt. ;	Weak Kspar			
(57.0	62.5)	Weak Kspar / Epid. PY/CPY	fracture fill	2-3% PY, 1/4 - 1/2 % CPY	± MT (1%)		

DRILL HOLE NO. CH 90-12

HOLE NO. CH 90-12

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@61.6)	Locally 5% MT fracture fill					
	(@63.2)	0.5 cm wide, Chlorite/Kspar fr	acture @60° to C.A.	1-2% PY, ½% CPY			
(65.0	66.5)	Chlorite/Epidote fracture, Weak	Kspar	1-2% PY, ¼-½% CPY		fractures @ 25° & 40° to C.A.	
	(@71.0)	Chlorite/Kspar Frac.		tr. CPY, 2% PY			
	(@73.1)	3mm wide MT fracture fill @	20° to C.A.			Hydrothermal MT frac. fill	
	(@76.0)	2 MT (2-4mm wide) fracture	fill approx: one @	15° & one @10° to C.A.		Hydrothermal MT frac. fill.	
(76.3	76.6)	Strong Chlorite/Epid.; Moderate	Kspar Alt. + minor C	B 2% PY, tr CPY			
(76.6	78.7)	Monzonite/Volcanic Hybrid	EP-K/FF/4	PY/D/tr.		Moderate - Strong Magnetics	
		76.6-77.2, 78.3-78.4 & 78.5-78.7	Andesite(?) Volca	nic Fragments			
		aphanitic to fine grained gro	undmass				
		medium to dark green colour					
		10-20% plagioclase phenos					
	(@79.7)	PY-MT dry fracture fill @10°	to C.A. (5mm wide)				
	(@80.0)	tr. CPY in PY-EPID Frac. @	10° to C.A.				

DRILL HOLE NO. CH 90-12

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(80.8	83.9)	Increased KSPAR-EPID (fracture & pervasive) + minor CARB stringers @ 15° to C.A.					
	(@84.6)	Minor gouge/rubble ; Shear Zon					
(87.3	87.8)	Quartz-Carb.-Chlorite (0.5 to 2.0 cm wide) veinlet @ 10° to C.A. tr. PY, tr. CPY					
(88.2	90.8)	TRACHYTE DYKE brown to black/green aphanitic groundmass (GS = 6-8) 10-15% plagioclase phenos (1-4mm) sericite alt. (light white/green color)	EP-K/FE/2 EP/D/2 CH (BT?)/P/6-8	PY/D/tr.		SHR/25°/3 Contacts: Upper → sharp shear (minor gouge) @ 25° to C.A. Lower → Broken Core Upper Contact: chilled margin (10 cm) light beige brown colour, aphanitic	
(90.8	91.2 &	94.2 to 94.6) Strong Kspar-Epid Alt fracture & pervasive frac. @ 25°-30° to C.A.		2% PY, [illegible]% CPY			
	(@95.2)	3-5 mm wide MT fracture fill @ 15° to C.A.					
	(@96.7)	tr. CPY with EPID frac.					
	(@97.5)	EPID-KSPAR-CHLOR fracture (1 cm wide) @ 45° to C.A.		1% CPY, 1% PY			

HOLE NO. CH 90-12

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fdm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@99.1)	strong Kspar, weak Epid. fracture envelope (4 cm wide) @45° to C.A.		1% PY, 1/2-1% CPY			
	(@100.1)	Hematite Fracture fill (1 cm wide)	@25° to C.A.				
(101.8	108.5)	Increased Mineralized Fracture 14 fracs over 6.7m generally pinkish/purplish tinge to groundmass	Zone Overall: 0.3 to 0.5 m apart → hematized	1% PY, 1/4% CPY MT		@101.8 KSPAR/CHLOR/EPID fracture envelope/fill @20° to C.A. ; 3% PY, 1/4% CPY	
						@102.0, 102.1, 102.3, & 102.6 KSPAR/EPID/CHLOR. fracture @20° to C.A. 3% PY, 1/4-1/2% CPY	
						@103.4, 103.9 & 104.0 CHLOR/EPID/KSPAR fracture @30° to C.A. 1-3% PY, 1/4-1/2% CPY	
						@104.9 MT frac. fill (2mm wide) @15° to C.A.	
						@105.8 & 106.0 CHLOR/EPID/KSPAR 2% PY, 1/2% CPY	
						@106.6, 107.2 & 107.3 CHLOR/EPID/KSPAR 2% PY, 1/4% CPY	
						@107.4 CPY/PY fracture fill (3-4mm) @25° to C.A. 3% CPY, 5% [illegible]	
						@108.4 KSPAR/EPID (5-8 cm wide fracture & pervasive Kspar) 2-3% CPY, 1% PY	

DRILL HOLE NO. CH 90-12

HOLE NO CH 90-12

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@108.8)					EPID/CHLOR/KSPAR tr.-1/4% CPY; 1/2% PY	
	(@110.9)					EPID/CHLOR/KSPAR fracture @15° to C.A. tr.CPY, 1/2% PY	
	(@114.7)					CHLOR/KSPAR/EPID (4 cm wide fracture envelope) @15° to C.A. 10% PY, 1/4% CPY	
(116.4	116.8)					KSPAR/EPID/CHLOR fracture envelope & minor pervasive Kspar; frac. @ 10° to C.A.; 3-5% PY, 1/4% CPY	
	(@117.2)					1 cm wide MT-PY frac. @ 30° to C.A. with CHLOR/KSPAR (0.5 cm envelope)	
	(@117.4)					tr. CPY, 1% PY frac. fill (2-3 mm wide)	
	(@118.5)					CHLOR/EPID/KSPAR (1-2 cm wide @ 30° to C.A., frac envelope) 5% PY, 1/4% CPY	
	(@120.7)	1cm wide Qtz/Carb. vein @35° to C.A. minor Chlorite light pink (Hematite) colour	QTZ-CB Vein/35°/3	PY-Garnet/D/2%		1/2% PY; 1-2% garnet (light brown colour)	
	(@121.3)	2 Qtz/Carb Veinlet/Vein (0.5 & 1.5 cm wide) @40° to C.A with Kspar Selvage	Qtz-CB Vein/40°/3 K-HM/FE/4	PY-Garnet/D/2-3%		1% PY, 1-2% garnet light pink colour HM colouration	

DRILL HOLE NO. CH 90-12

HOLE NO. CH 90-12

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@121.8)			1% PY, 1% GT		EPID/KSPAR frac. (4 mm wide) @ 30° to C.A.	
	(@124.4)			1% PY, tr. CPY		EPID/CHLOR/KSPAR/CB	
(127.2	127.3)	Shear Zone CB/QTZ/CHLOR 10-20 cm of altered, bleached monzonite porphyry adjacent to shear		tr. PY Non Magnetic		SHR/50°/2	UCT: 50° to C.A.; LCT: 60° to C.A.
(127.9	128.0)					strongly chloritized: 3% dissem. & frac. PY ½% dissem & microfrac. CPY	
	(@130.2)					EPID/CHLOR patch (1x2 cm) 5% PY, ½% CPY	
(130.6	131.1)					EPID/CHLOR/HEMATITE/KSPAR Fracture, subparallel to C.A. (5° to C.A) 0.5 cm wide; 3-5% PY, ½-1% CPY	
	(@131.8)					CHLOR/EPID/KSPAR Fracture 5° to C.A.; 3% PY, ½% CPY	
	(@132.1)					EPID/KSPAR Patch (1x2 cm) 1% PY, ¼% CPY	
(133.9	134.1)			3% PY, tr. CPY		EPID/CHLOR Fracture @ 10° to C.A. (0.3 to 1.0 cm wide)	
(138.1	138.4)					Fracture @ 15° to C.A. strong envelopes of EPID/KSPAR Alt. + Fracture Hematite Epid. Alt. Plagioclase Phenos; Kspar pervasive in Groundmass	

DRILL HOLE NO. CH 90-12

HOLE NO. CH 90-12

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(139.1	139.4)					Qtz-Carb. Stringers EPID-KSPAR pervasive chlorite shear @ 35° to C.A.	
	(@142.6)					tr. CPY, 1% PY chlor-epid-kspar frac. @ 20° to C.A.	
	(@145.8)					EPID/KSPAR fracture envelope (1cm wide) @ 45° to C.A. 3% PY, ½% CPY	
	(147.2)			<1% PY, ¼% CPY		KSPAR Fracture (0.5 cm wide) @ 20° to C.A.	
(149.4	149.6)					EPID/KSPAR patches & fracture irregular ¼-½% blebby CPY, 1% PY	
152.1	EOH						

DRILL HOLE NO. CH 90-12

DRILL LOG sample data

DDH - CH-90-12

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51163	4.6	6.0	1.4	0	100	0								
164	6.0	8	2.0	0.1	90	0.2								
165	8.0	10	2.0	0.1	85	0.3								
166	10	12	2.0	0.1	75	0.5								
167	12	14	2.0	0	80	0.4								
168	14	16	2.0	0.1	80	0.4								
169	16	18	2.0	0	65	0.7								
170	18	20	2.0	0	75	0.5								
171	20	22	2.0	0	85	0.3								
172	22	24	2.0	0	80	0.4								
173	24	26	2.0	0.1	95	0.1								
174	26	28	2.0	0.1	90	0.2								
175	28	30	2.0	0.1	85	0.3								
176	30	32	2.0	0.3	100	0								
177	32	34	2.0	1.3	100	0								
178	34	36	2.0	1.0	65	0.7								
179	36	38	2.0	2.4	100	0								
180	38	40	2.0	3.7	95	0.1								
181	40	42	2.0	4.8	95	0.1								
182	42	44	2.0	7.5	85	0.3								
183	44	46	2.0	4.7	95	0.1								
184	46	48	2.0	4.4	90	0.2								
185	48	50	2.0	4.9	90	0.2								
186	50	52	2.0	4.7	100	0								
187	52	54	2.0	6.0	100	0								
188	54	56	2.0	5.2	95	0.1								

DRILL HOLE NO. CH-90-12

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51189	56	58	2.0	3.4	95	0.1								
190	58	60	20	4.3	100	0								
191	60	62	2.0	5.0	95	0.1								
192	62	64	2.0	3.6	95	0.1								
193	64	66	2.0	4.7	100	0								
194	66	68	2.0	3.7	95	0.1								
195	68	70	2.0	4.7	85	0.3								
196	70	72	2.0	5.2	100	0								
197	72	74	2.0	6.1	95	0.1								
198	74	76	2.0	5.9	90	0.2								
199	76	78	2.0	5.9	100	0								
200	78	80	2.0	5.4	100	0								
201	80	82	2.0	5.2	90	0.2								
202	82	84	2.0	1.8	95	0.1								
203	84	86	2.0	8.2	100	0								
204	86	88.3	2.3	4.4	91	0.2								
205	88.3	90.8	2.5	2.6	96	0.1	DYKE							
206	90.8	92	1.2	2.7	100	0								
207	92	94	2.0	6.2	95	0.1								
208	94	96	2.0	5.8	100	0								
209	96	98	2.0	10.5	100	0								
210	98	100	2.0	5.2	100	0								
211	100	102	2.0	5.5	100	0								
212	102	104	2.0	5.0	100	0								
213	104	106	2.0	6.8	95	0.1								
214	106	108	2.0	6.5	100	0								

DRILL HOLE NO. CH-90-12

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51215	108	110	2.0	6.5	100	0								
216	110	112	2.0	6.2	95	0.1								
217	112	114	2.0	6.1	100	0								
218	114	116	2.0	5.7	100	0								
219	116	118	2.0	7.0	95	0.1								
220	118	120	2.0	8.7	100	0								
221	120	122	2.0	7.0	100	0								
222	122	124	2.0	5.8	90	0.2								
223	124	126	2.0	4.1	100	0								
224	126	128	2.0	4.5	100	0								
225	128	130	2.0	5.3	90	0.2								
226	130	132	2.0	5.7	100	0								
227	132	134	2.0	4.9	95	0.1								
228	134	136	2.0	5.7	95	0.1								
229	136	138	2.0	6.2	100	0								
230	138	140	2.0	2.7	100	0								
231	140	142	2.0	8.1	100	0								
232	142	144	2.0	11.1	95	0.1								
233	144	146	2.0	7.4	100	0								
234	146	148	2.0	7.8	95	0.1								
235	148	150	2.0	3.9	100	0								
236	150	152.1	2.1	5.4	95	0.1								
EOH														

DRILL HOLE NO CH-90-12

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-13

UTM N: 6124590m
UTM E: 402135m
GRID N: 109+45
GRID E: 100+95

Elev.: 1445m
Depth: 162.1m
Azimuth: 270°
Dip: -43°

Metres (m)

0.0 - 5.4	CASING	
5.4 - 8.2	TRACHYTE DYKE mod. diss. epidote, trace PY.	
8.2 - 12.8	MONZODIORITE mod. epidote +/- k-spar on fracs., 1-2% PY, trace CP.	
12.8 - 17.9	SILTSTONE-MONZODIORITE SILLS weak-mod. epidote and chlorite, 1-2% PY, trace CP in sills.	
17.9 - 38.0	SILTSTONE weak epidote and chlorite, minor k-spar, local calcite on frac., 2% PY, trace CP on frac. and in quartz veins.	
38.0 - 45.2	SILTSTONE-MONZODIORITE SILLS mod. chlorite. 2-4% PY.	
45.2 - 57.0	MONZODIORITE +/- QUARTZ mod. k-spar and epidote, 2-4% PY.	
57.0 - 57.8	DIORITE PORPHYRY mod. epidote, 1% PY.	
57.8 - 63.7	SILTSTONE-MONZODIORITE SILLS weak k-spar, epidote and chlorite, 2-5% PY and CP.	
63.7 - 66.4	DIORITE DYKE mod. to strong k-spar, epidote and chlorite, 4-5% PY, CP, trace MT (up to 1% Cu over 2m).	
66.4 - 70.3	LITHIC CRYSTAL TUFF mod. to strong k-spar, epidote and chlorite, 4-5% PY, CP, trace MT (up to 1% Cu over 2m).	
70.3 - 91.6	SILTSTONE weak chlorite and epidote (perv. k-spar stain??), 1-4% PY.	
	85.7-87.1	pyritic diorite sill - weak chlorite and epidote. 4-6% PY.

CH 90-13 cont.

91.6 - 99.0	MONZONITE PORPHYRY DYKE weak chlorite and epidote, 1% PY, trace CP.
99.0 - 109.6	SILTSTONE weak to mod. calcite on fracs., 1-4% PY.
109.6 - 112.1	FG DIORITE DYKE weak chlorite, epidote and k-spar. 1% PY.
112.1 - 121.5	SILTSTONE hornfelsed. weak epidote and chlorite, 1-2% PY, trace CP, MT.
121.5 - 123.4	DIORITE SILL weak chlorite, epidote and actinolite, 5% PY-CP (0.5% Cu).
123.4 - 127.2	SILTSTONE hornfelsed, weak epidote, 1-2% PY, trace CP.
127.2 - 128.9	DIORITE SILL weak chlorite and epidote, 3% PY-CP.
128.9 - 134.7	SILTSTONE weak epidote, 2% PY, trace CP.
134.7 - 135.8	DIORITE SILL mod. chlorite and epidote, 5% PY-CP (0.5% Cu).
135.8 - 148.4	SILTSTONE hornfelsed, perv. k-spar stain, weak to mod. epidote and local garnet, 4-5% PY, trace CP.
148.4 - 152.2	DIORITE SILL mod. to strong epidote and k-spar, 3-6% PY-CP-MT (1% Cu).
152.2 - 153.5	SILTSTONE weak epidote, 1-2% PY.
153.5 - 154.2	DIORITE SILL strong k-spar, epidote and actinolite, 4-6% PY-CP (0.6% Cu).
154.2 - 157.5	SILTSTONE weak chlorite and epidote, 2% PY-CP (0.1% Cu).
157.5 - 162.1	MONZONITE SILL mod. k-spar, epidote and chlorite, 4-5% PY, trace CP.
162.1	E.O.H.

** Copper zone : 121.5 - 162.1m, est. 0.2% Cu.
also 57.8 - 70.3m

HOLE NO. CH 90-13

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-43°	270°	DATE STARTED:	June 26, 1990	PROJECT:	CHUCHI
		162.1	-40°	270°	DATE COMPLETED:	June 28, 1990	N.T.S.:	93N/7E
					COLLAR ELEV.:	1445 m	LOCATION:	
					NORTHING:	6124580		45m @ 015° from
					EASTING:	402135		109N / 100+75E
					AZIMUTH:	270°		
					DEPTH:	529' / 162.1 m	DATE LOGGED:	June 27-29, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	5.4	CASING					
5.4	8.2	TRACHYTE (DYKE) :	A) Ep/D/5	A) Py-Ep-K-Ca/FE/	tr		
		- med to dk grey-green (GS=	B) Ca/FE/2	6.4m is 15cm wide		Ep-Ch-Ca clots show local alignment @ 20°	
		6-8), mod magnetic (MS=		Fr env		(Fr-controlled possibly)	
		2-3), contains fg to xf-tooth					
		grn with 3-5% plag laths					
		ave 1mm and 5-10%				LCT/20°/3, marked by 10cm of bleaching in	
		epidotized subcircular clots				andesite prior to 2cm of mod gouge at 8.2m	
		1mm - 2mm diameter (clots					
		made up of Ep-Ch-Ca±Py).					
		Gen. barren of sulphide					
		* stains 60-70% for kspar,	20% vfg acicular	mafics			
8.2	12.8	ALTERED HORNBLENDE ?	A) Ep±K/FE/5-6	A) Py-MG-Ep-K/FE/	1-2%		
		- mod to dk grey-green (GS=4-6	best from 10-12m				
		with bleaching and destruction	B) Gy-Ca/FE/5				
		of texture from 8.2-9.0m	best from 8.2-9.0				
		* stains 15-20% kspar as	ground...			LCT obscured by strong to intense Fr and contact ff	

DRILL HOLE NO. CH 90-13

HOLE NO. CH90-13

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
		-70% equant plag phenos					
		.5-2mm (avg 1mm), crowded					
		porphyry					
		- 20-25% aphanitic gm,					
		≤5% fg biot(?)					
		- non-magnetic; local xenoliths					
		of vfg black slst(?)					
12.8	17.9	SILTSTONE / SILLS :				10.5 - 30.3m is [illegible] 15-30°, intermittent	
		- approx. equal mix of				broken core, crushed Ep ± Ca [illegible] fractures	
		pale to dk green massive to					
		locally bedded slst and				13.3m BD/60°/2; pale green siliceous [illegible]	
		fg-vfg, med to dk green				with 1cm wide pyritic tuffac. [illegible] interbed	
		non-magnetic [illegible]					
		sills from .6 - 2.1m					
		thick.					
(12.8	14.0)	Slst - well-fractured, Ca ff	1) Ep/FF/3	A) Py/DB/2%		LCT obscure	
(14.0	16.1)	Sill - shows Ca ff post-dates	1) Ep-K/FF/4-5	A) Py-Ep-K-tr Cp/FF/2%		LCT obscure	
(16.1	17.3)	Slst " min ff	A) Ep/FF/2	A) Py/b/1%		LCT/~40°/1, possibly discordant	
(17.3	17.9)	Sill	A) Ep/FF/5-6	A) Py-Ep/FF/2%		LCT/70°/2, sharp but slightly irregular	
			2) Ep-Chl/b/5-6	B) Py/D/1%			
17.9	38.0	SILTSTONE :					
		- pale med green with black	A) Cb/FF/1-8	A) Py-tr Cp-Ep-K/FF/1%		Intense fract 17.9 - 22.8m with wk carb ff	
		beds avg. 1cm thick	B) Ep ± K/FF/2-3	B) Py-tr Cp/b/1%		27.6 = 25cm zone of strong ff with wk gouge at 20°;	
			C) Chl/FF/1-2	C) Py-Cp/QV/tr		lt purple qtz veins containing Py ± Cp	

DRILL HOLE NO. CH90-13

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.) / REMARKS (Mineralization, type, age, relations)
				27.4-28.4 are		26.5m BD/75/2, discontinuous, disrupted
				4 purple qtz veins		
				@ 30° from 1-2		30.7m SH/65°/1, 20cm wide with
				cm wide with Py		abundant Ca FF
				±Cp		
						29.6m BD/65°/2, discontinuous
						LCT 38.0 obscured by broken core for 36 cm
38.0	45.2	Mixed Siltstone/Monzod				
		sills:				44.9m 15cm wide fault bx in slst, conformable
		- sill/sed contacts conformable	Slst:			with carb FF
		locally sheared	A) Ch/FF/4	A) Py/D/1-2%		45.0m BD/75/3, 3mm to 2cm thick, lt
		- 40% sills .4 to 4.4 m	B) Ca/FF/1	B) Py-Ch-Ep/FF	1-2%	green to purple-br, minor sandy feldspathic
		thick, fg-mg subporph				lenses (eg. 44.4m)
		monzod with 1mm equant	Sills:			
		plagioclase ~60%, fg Hb	A) Ch/F/7			
		5-10%, Kspar gm ~20%	B) Ep/FF/3			
		- slst is mod biotized				
		(Alt 3), purple-brown to				
		dk to lt green w/...				LCT /75/3, conformable, slightly chilled
45.2	57.0	Mainly Monzodiorite:				
		- minor small inclusions of	A) K±Ep/FF/4-6	A) Py-K-Ep/FE/1-3		
		slst to .5m thick,	increase to 52.0	B) Py/D/1		54.0m 15cm zone of heavy Mt-Ep-Py at slst
		conformable	C) Ep-Ch/D/3			inlier contact
		- equig. mg, non-mag. lt				
		to dk green (CS=2-6)				LCT /78°/3, alteration extends into dior perph

HOLE NO. CH 90-13

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
		- variable colour due to variable					
		mafic content (3-15% fg					
		Hb)					
		- 3-5% qtz eyes to 4mm					
		× stains 15-20% Kspar as	gm				
57.0	57.8	Diorite Porphyry Dyke :					
		- mod to st magnetic, med to	A) Ep/D/4	A) Py-Ep/FF/1			
		dk green (6-7 GS)	B) Ep/FF/2-3				
		- zoned plag laths 1-5mm					
		comprise 50%, diss Mt				LCT/30°/3, sharp with altered slst, wk to	
		1-2%, 1-2mm biot ~3%,				mod plag alignment parallel to contact	
		aphanitic gm ~40%, 5%					
		black fg xenoliths					
57.8	63.7	Mixed Monzod Sills/Siltstone				62.2m BD/75/3, pyritic beds	
		- ~20% sills, .3 to 4.0m					
		thick	A) K-Ep/FE/3	A) Py-K-Ep/FE/1			
		- slst is massive lt grey-gr	B) Ep-Ch/D/3	B) Py-Cp/D/1-5	→	59.3-59.5m heavy semi-conformable Py-Cp	
		to finely bedded lt to med				(8-10% total sulphide with 1% Cp)	
		grey-green					
		- sills are non-mag, leuco-					
		cratic, fg med grey-gr					
						LCT/?/?, indeterminate, obscured by alteration	
						and broken core	

DRILL HOLE NO. CH 90-13

HOLE NO. CH 90-13

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
63.7	70.3	Diorite [illegible]:					
		- variable composition and					
		texture, minor [illegible] inclusions					
(63.7	64.9)	lt grey-green, non-mag,	A) Ep-K/EE/6-7	A) Py/D/2			
		fg, equig, leuco-diorite, GS=	B) Ch-Ep/P/5-6	B) Py-Ep-K/EE/2			
		3-4				LCT gradational	
(64.9	66.3)	Fg-mg, dk green to black					
		diorite, magnetite and	A) Ep-Ch/FE/3	A) Py-Cp/D/4	?	estimated .5-1% Cp over the interval, [illegible]	
		sulphide-rich, plag 1-2mm	B) Ch/D/3	B) Py-Cp/EE/1-2		locally [illegible]	
		(GS= 7-9), 2-4% [illegible]					
(66.[illegible]	68.0)	[illegible]	A) Ep-[illegible]	A) [illegible]	[illegible]/2-3		
		[illegible]	[illegible]-Ep/D/7	B) Py/[illegible]/1-2			
		[illegible] (GS=[illegible])	[illegible]/3				
		[illegible]					
		- [illegible]					
([illegible]	70.3)	lt pink [illegible]	A) Ep-Ch/[illegible]	A) [illegible]/D/			
		[illegible]	[illegible]	B) Py-[illegible]/EE/1			
		[illegible]	[illegible]/P/1-5				
		[illegible]					
		[illegible]					
		[illegible]					
		[illegible]					
		[illegible]				LCT/[illegible]	
		[illegible]					

DRILL HOLE NO. CH 90-13

HOLE NO. CH 90-13

INTERVAL		ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
FROM	TO						
70.3	91.6	[illegible]	[illegible]	[illegible]		[illegible]	
		[illegible]	[illegible]	[illegible]		72.0 [illegible]	
		[illegible]				[illegible]	
85.7	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	
		[illegible]				LCT / 30° / [illegible]	
		[illegible]				70.6 - 91.6 [illegible]	
						SH / 45° / 2 [illegible]	
					91.6	LCT / 45° / 2 [illegible]	
91.6	99.0	[illegible]	[illegible]	[illegible]	[illegible]		
		[illegible]					

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DRILL HOLE NO. CH 90-13

HOLE NO. [illegible]

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
		[illegible]					
		[illegible]					
		[illegible]					
		– [illegible]				LCT / 25° [illegible]	
						[illegible]	
97.6	109.6	[illegible]					
		– [illegible]	[illegible]	[illegible]		102.0 [illegible]	
		– [illegible]	[illegible]	[illegible]			
		[illegible]				[illegible]	
		[illegible]				LCT / 25° [illegible]	
		[illegible]				[illegible]	
		[illegible]					
109.6	112.1	[illegible]					
		[illegible]	[illegible]	[illegible]			
		[illegible]	[illegible]				
		[illegible]					
		[illegible]				LCT / 30° [illegible]	
		[illegible]					
112.1	121.5	[illegible]					
		– [illegible]	[illegible]	[illegible]		115.5m [illegible]	
		[illegible]	[illegible]	[illegible]			
		[illegible]	[illegible]	[illegible]			

DRILL HOLE NO. [illegible]

HOLE NO. CH 22-12

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.) / REMARKS (Mineralization, type, age, relations)
		[illegible]	[illegible]			[illegible]
		[illegible]				[illegible]
						[illegible]
						[illegible]
						LCT [illegible]
121.5	122.[illegible]	[illegible]				
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]		[illegible]
		[illegible]				
		[illegible]				LCT [illegible]
		[illegible]				[illegible] 20 cm [illegible]
						[illegible]
						[illegible]
123.[illegible]	12[illegible].2	[illegible]				
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	
		[illegible]	[illegible]			
		[illegible]				
		[illegible]				
		[illegible]				
		[illegible]				
		[illegible]				LCT [illegible]

PAGE 5 OF [illegible]

DRILL HOLE NO. CH 22-12

HOLE NO. CY-[illegible]

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
127.2	128.9	[illegible]					
		[illegible]	[illegible]				
		[illegible]		[illegible] /D/2		[illegible]	
		[illegible]		[illegible] /EE/1			
		[illegible]				LCT / 70 / [illegible]	
[illegible]	[illegible]	Siltstone [illegible]	[illegible]	[illegible] /D/2		[illegible]	
		[illegible]	[illegible]	[illegible]		131-132 m [illegible]	
		[illegible]				LCT / 70 [illegible]	
[illegible]	[illegible]	[illegible]					

PAGE 9 OF [illegible]

DRILL HOLE NO. [illegible]

HOLE NO. [illegible]

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
121.2	123.9	[illegible]					
		[illegible]					
		[illegible]	[illegible]				
		[illegible]					
		[illegible]	[illegible]				
		[illegible]		[illegible] /D/2			
		[illegible]			[illegible]	1% [illegible]	
		[illegible]		[illegible]			
		[illegible]					
		[illegible]					
		[illegible]					
		[illegible]					
		[illegible]					
		[illegible]				LCT / 70 / [illegible]	
		[illegible]					
[illegible]	[illegible]	[illegible]					
		[illegible]	[illegible]	[illegible]		[illegible]	
		[illegible]				131-132 m [illegible]	
		[illegible]	[illegible]	[illegible]			
		[illegible]				LCT / 70 [illegible]	
		[illegible]					
[illegible]	[illegible]	[illegible]					
		[illegible]					
		[illegible]					

PAGE 9 OF [illegible]

DRILL HOLE NO. [illegible]

HOLE NO. [illegible]

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
		[illegible]	[illegible]	A) [illegible]		[illegible]	
		[illegible]	[illegible]	[illegible]	2		
		– [illegible] >15 %					
						LCT/70°/2 [illegible]	
[illegible]	[illegible]	[illegible]					
		– [illegible]	[illegible]			[illegible] /3	
		[illegible]	[illegible]			[illegible]	
		[illegible]		[illegible]		144.5m [illegible]/75°/3	
		[illegible]		[illegible]/2		[illegible] [illegible]/70°/3	
		[illegible]		[illegible]			
		[illegible]		Ep/FE/2			
		– [illegible]		C) [illegible]	2	[illegible] 3 [illegible]	
		[illegible]		FE/1		45° and [illegible]	
		[illegible]					
				* [illegible]		LCT/65°/3 [illegible]	
				[illegible]			
				[illegible]	2% (?)	[illegible]	
						[illegible]	
148.4	152.2	[illegible]:					
		– [illegible]	[illegible]/5–7	A) [illegible]/			
		[illegible]	[illegible]/FE/1	[illegible]/1–2			
		– [illegible]		B) [illegible]/FE/2	2	[illegible] 2.8m [illegible]	
		[illegible]	[illegible]	C) [illegible]	1		
		[illegible]	[illegible]	FE/1			
		– [illegible]	[illegible]				
		[illegible]					

DRILL HOLE NO. [illegible]

HOLE NO. CH90-12

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
		- 20% [illegible] , 10%		150.2, 150.?		[illegible]	
		[illegible] (?)		[illegible]			
		(* [illegible])		[illegible]		LCT / 20° / [illegible]	
				[illegible]			
152.?	152.5	[illegible]					
		[illegible]	A) [illegible]	A) [illegible] / 1-2		152.5 [illegible]	
		[illegible]	B) Ep / FF / 2	B) [illegible] / FF / 2			
		[illegible]				LCT / 70° / [illegible] conformable [illegible]	
152.5	154.2	[illegible]					
		[illegible] 153.4 - [illegible]	A) Ep [illegible] / 3				
			B) [illegible]				
				A) [illegible]	D / 4		
						[illegible]	
				B) [illegible] / FF / 1-2			
						LCT / 55° / [illegible]	
154.2	155.5	[illegible]					
		[illegible]	A) Cl / FF / 2	A) [illegible]	1 2	[illegible] 1% [illegible] 2.3 m	
		[illegible]	B) Ep / FF / 2-?	B) [illegible]			
		[illegible]				155.2 m [illegible] / 75° / ?	
						LCT / 75° / [illegible]	

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DRILL HOLE NO. CH90-12

HOLE NO. CH 80-13

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
157.5	162.?	[illegible]					
	EOH	[illegible]					
		[illegible]					
		[illegible]	A) [illegible]	A) [illegible]	[illegible]	[illegible]	
		[illegible]	[illegible]			157.5 – [illegible])	
		[illegible]		B) Py-Ep/FF	/1		
		at 157.5 [illegible]	B) [illegible]				
		[illegible]		C) [illegible]-K-Ep/FF	/2	[illegible]	
		[illegible]				[illegible]	
		[illegible]					
		[illegible]					
		[illegible]					
		[illegible]					

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DRILL HOLE NO. CH 80-13

DDH - CH-90-13

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
51237	5.4	8.3	2.9	1.2	80	0.6	DYKE							
238	8.3	10	1.7	0.3	94	0.1								
239	10	12	2.0	0.1	85	0.3								
240	12	14	2.0	0	95	0.1								
241	14	16	2.0	0	85	0.3								
242	16	18	2.0	0	85	0.3								
243	18	20	2.0	0	35	1.3								
244	20	22	2.0	0	70	0.6								
245	22	24	2.0	0	85	0.3								
246	24	26	2.0	0	90	0.2								
247	26	28	2.0	0	95	0.1								
248	28	30	2.0	0	90	0.2								
249	30	32	2.0	0	100	0								
250	32	34	2.0	0.1	95	0.1								
251	34	36	2.0	0	100	0								
252	36	38	2.0	0	95	0.1								
253	38	40	2.0	0	95	0.1								
254	40	42	2.0	0	90	0.2								
255	42	44	2.0	0.1	95	0.1								
256	44	46	2.0	0	100	0								
257	46	48	2.0	0	95	0.1								
258	48	50	2.0	0.1	95	0.1								
259	50	52	2.0	0	95	0.1								
260	52	54	2.0	0	95	0.1								
261	54	56	2.0	1.6	95	0.1								
262	56	58	2.0	0.7	100	0								

DRILL HOLE NO. CH-90-13

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51263	58	60	2.0	0	95	0.1								
264	60	62	2.0	0	95	0.1								
265	62	64	2.0	0.1	95	0.1								
266	64	66	2.0	0.6	100	0								
267	66	68	2.0	10.0	100	0								
268	68	70	2.0	0.3	95	0.1								
269	70	72	2.0	0	95	0.1								
270	72	74	2.0	0	100	0								
271	74	76	2.0	0.1	90	0.2								
272	76	78	2.0	0.1	95	0.1								
273	78	80	2.0	0	100	0								
274	80	82	2.0	0.1	100	0								
275	82	84	2.0	0.2	95	0.1								
276	84	86	2.0	0.9	100	0								
277	86	88	2.0	0.8	95	0.1								
278	88	90	2.0	0.1	100	0								
279	90	92	2.0	0.9	95	0.1								
280	92	94	2.0	1.9	85	0.3								
281	94	96	2.0	1.9	95	0.1								
282	96	98	2.0	1.4	95	0.1								
283	98	100	2.0	1.1	100	0								
284	100	102	2.0	0.1	85	0.3								
285	102	104	2.0	0.1	100	0								
286	104	106	2.0	0.3	95	0.1								
287	106	108	2.0	0.3	85	0.3								
288	108	110	2.0	0.5	100	0								

DRILL HOLE NO. CH-90-13

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51289	110	112	2.0	0.9	100	0								
290	112	114	2.0	0	100	0								
291	114	116	2.0	0	100	0								
292	116	118	2.0	0	95	0.1								
293	118	120	2.0	0	95	0.1								
294	120	122	2.0	0.2	100	0								
295	122	124	2.0	0.8	100	0								
296	124	126	2.0	0	100	0								
297	126	128	2.0	0	90	0.2								
298	128	130	2.0	0.1	95	0.1								
299	130	132	2.0	0.2	95	0.1								
300	132	134	2.0	0.3	95	0.1								
301	134	136	2.0	0.5	100	0								
302	136	138	2.0	0.1	100	0								
303	138	140	2.0	0.2	95	0.1								
304	140	142	2.0	0.1	90	0.2								
305	142	144	2.0	0	100	0								
306	144	146	2.0	0	100	0								
307	146	148	2.0	0	100	0								
308	148	150	2.0	0.1	100	0								
309	150	152	2.0	2.5	95	0.1								
310	152	154	2.0	0.5	100	0								
311	154	156	2.0	0.2	100	0								
312	156	158	2.0	0.2	95	0.1								
313	158	160	2.0	0.3	95	0.1								
314	160	161.2	2.0	0.5	100	0								

EOH PAGE 3 OF 3

DRILL HOLE NO. CH-90-14

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-14

UTM N: 6124590m
UTM E: 401950m
GRID N: 109+48
GRID E: 99+05

Elev.: 1474m
Depth: 152.4m
Azimuth: 270°
Dip: -44°

Metres (m)

0.0 - 2.1	CASING
2.1 - 11.4	MONZODIORITE with MINOR SILTSTONE FRAGMENTS weak to mod. epidote, k-spar and chlorite. late carb. on fracs., 3-4% PY, trace CP.
11.4 - 13.2	SILTSTONE hornfelsed, weak epidote and k-spar, 3% PY.
13.2 - 15.1	MONZODIORITE weak to mod. epidote and k-spar, 3% PY.
15.1 - 17.7	SILTSTONE with ~10% MONZODIORITE SILLS hornfelsed, weak epidote and k-spar, 1-3% PY.
17.7 - 24.4	MONZONITE INTRUSION BRECCIA strong perv. k-spar, weak to mod. epidote, chlorite and carb., 2-3% PY.
24.4 - 27.0	SILTSTONE hornfelsed, minor epidote spots, 1-2% PY.
27.0 - 29.3	MONZONITE (to SYENOMONZONITE) mod. perv. chlorite, trace PY, non to weakly magnetic.
29.3 - 31.2	SILTSTONE hornfelsed, weak to mod. epidote and k-spar, 1-3% PY.
31.2 - 36.3	AUGITE-PLAGIOCLASE PORPHYRY MONZODIORITE weak to mod. epidote and chlorite, 1-2% PY, non to weakly magnetic.
36.3 - 67.6	SILTSTONE with MINOR MONZODIORITE SILLS hornfelsed, weak epidote, chlorite and k-spar, 1-3% PY, trace MoS_2
67.6 - 82.7	AUGITE-PLAGIOCLASE PORPHYRY MONZODIORITE for. with minor siltstone frags., mod. to strong hematite on fracs., weak chlorite, carb. and epidote, <1% PY, weak to mod. magnetic.

CH 90-14 cont.

82.7 - 106.8	SILTSTONE with MINOR SANDSTONE INTERBEDS & MINOR MONZODIORITE SILLS hornfelsed, weak chlorite, epidote and k-spar, 1% PY, trace CP.	
106.8 - 113.1	MONZODIORITE to MONZONITE weak to mod. epidote and k-spar, weak chlorite, hematite and carb., 3-4% PY, non to mod. magnetic.	
113.1 - 114.3	SILTSTONE hornfelsed, mod. chlorite, epidote and k-spar, 2-3% PY.	
114.3 - 115.9	MONZODIORITE mod. perv. k-spar, 2% PY.	
115.9 - 118.2	SILTSTONE hornfelsed, 1-2% PY.	
118.2 - 132.1	MONZODIORITE mod. epidote, k-spar and chlorite and hematite on fracs., 3-5% PY, weakly magnetic, some hydrothermal MT.	
132.1 - 136.4	SILTSTONE with MINOR SANDY INTERBEDS weak hornfels, weak epidote, k-spar and chlorite, 1-2% PY.	
136.4 -136.95	DIORITE biotite-rich, mod. epidote, k-spar and chlorite, 3-5% PY.	
136.95- 143.5	SILTSTONE with MINOR SANDY INTERBEDS weak hornfels, weak carb. and hematite, 1-2% PY.	
143.5 - 145.9	MONZONITE PORPHYRY SILL weak carb. and hematite, 3% PY.	
145.9 - 152.4	SILTSTONE with MINOR IRREGULAR MONZONITE ZONES mod. hornfels, weak to mod. epidote and k-spar, 1-3% PY.	
152.4	E.O.H.	

HOLE NO. CH 90-14

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC		COLLAR	-44°	270°	DATE STARTED:	JUNE 28, 1990	PROJECT:	CHUCHI LK.
		152.4 m	-41°	270°	DATE COMPLETED:	JUNE 30, 1990	N.T.S.:	93 N/7E
					COLLAR ELEV.:	1494 m	LOCATION:	Grid Coords:
					NORTHING:	6124590 N		109 + 43 N
					EASTING:	401950 E		99 + 05 E
					AZIMUTH:	270°		
					DEPTH:	152.4 m (500')	DATE LOGGED:	JUNE 30th – JULY 2nd, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	DRB

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	2.1	CASING					
2.1	11.4	MONZODIORITE	EP/P/2	PY/D/1-2%	8-10/m°	- rusty oxidized fracture surfaces	
		in areas leucocratic with	EP-K/FE/2	PY/FF/1-2%	40°-45°	- weak carbonate (calcite) on fractures	
		10% SILTSTONE Fragments	CB-CH/FF/2	tr CPY	15°-30°	- weak chlorite alteration	
	(@2.6)	0.5 cm PY frac. fill @20° to CA					
(2.1	5.9)	Monzodiorite	K-BT/P/5				
		light grey-green (GS=3)					
		60-70% plagioclase phens (1-5mm)	weak sericite alt.				
		10-15% mafics, predom. BT	(minor Chlorite Alt.	Augite?)			
(5.9	6.0)	Siltstone Fragment	HF/P/7			UCT & LCT/70°/2	

PAGE 1 OF 14

DRILL HOLE NO. CH 90-14

HOLE NO CH 90-14

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(6.0	6.4)	Monzodiorite (same as 2.1-5.9)					
(6.4	6.7)	Siltstone Fragment (?) light green-grey, brown-pink (GS=3) Sebic bands, 0.5 cm wide	HF/P/7			UCT/75°/3 , LCT/60°/3 BD/70°/3	
(6.7	7.2)	Monzodiorite - leucocratic, crudely banded @ 80° to C.A.					
(7.2	7.8)	Siltstone Fragment (?) medium green-grey, pink-brown (GS=4)	HF/P/7	PY/D/2-3%		UCT/80°/2 wavy/sharp LCT/Broken Core/1 BD/75°/3	
	(@ 7.6)	5 cm Monzodiorite Sill/Dyke?	@ 45° to C.A.				
(7.8	11.4)	Monzodiorite - leucocratic (same as 6.7-7.2m) crudely banded @ 75° to C.A.	EP/D/5-6 EP-K/FF/2 K/P/2	PY/D/3%		LCT/?/1	
	(@ 9.2)	tr. CPY, increased PY 5% blebby & frac. fill		CPY/FF/tr.			
(11.1	11.3)	Shear: strongly alt. Monzodiorite	K/P/7	PY/FF/5%		UCT & LCT/35°/3	

DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
11.4	13.2	SILTSTONE dark red-brown to light green-grey (GS=2-5)	HF/P/7 EP-K/D/2-3	PY/D/3% Non Magnetic		LCT/?/1 BD/75°/3	
(12.2	12.5)	Local PY increase 5-10%	EP-K/P/6				
13.2	15.1	MONZONITE / MONZODIORITE dark green-grey to light green-grey (GS=2-4); leucocratic 50-70% plagioclase phenos (1-3mm) 5-10% mafics (Biotite + ?)	EP/D/3 EP-K/FE/3 → increases towards lower contact with increase PY	PY/D/3%		UCT/?/1 LCT/?/1	Broken Core → Rubbly, strongly fractured core
15.1	17.7	SILTSTONE with ~10% Monzodiorite Sills	HF/F/7 EP-K/FE/2 → locally strong	PY/D/1-3% PY/FF/<1%	Strong Frac.	LCT/?/1 BD/75°/3	
	(@16.0)	3-5mm Qtz/CB Veinlet @20° TCA.	K/F/7				
(16.6	16.8)	Rubble Zone → shear					

DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
17.7	24.4	MONZONITE / MONZODIORITE INTRUSION BRECCIA strongly Kspar Alt., sheared pink-grey-green to pink-grey (GS=3) fine gr. groundmass	K/P/8-9 EP/D/3 CH-CB/FF/3	PY/D/1-2% PY/FF/1%	25+/m 20° & 45°	LCT/80°/3 → 5 cm Rubble Zone @ Lower Contact Sheared → strong Fracs & hairline fracs (late crosscutting) Carbonate on Fracs & Frac. Filling ; Weak Chlorite with carb. frac. fills and patchy chlorite alt. with PY.	
(23.0	23.2)	Siltstone Frags. (up to 1cm) subangular and Monzodiorite Frags (up to 3cm) subangular to subrounded					
(24.0	24.2)	Strongly Kspar Alt. intrusive frags. in pervasively Kspar Alt. Monzonite (fragments <0.5 up to 2.0 cm)					
24.4	27.0	SILTSTONE predom. medium light green, minor light red-brown (GS=2-4)	HE/P/7 EP/FE/1-2 ↳ minor EP spots	PY/D/1-2%		LCT/10°-15°/2 low angle contact, Brecciated Siltstone Margin BD/30°/3 BD/45°/2	
27.0	29.3	MONZONITE / SYENOMONZONITE fine grained plagioclase phenos (4to%) dark green-black aphanitic (GS=7-9) groundmass. Augite phenos. 50+ % Kspar groundmass, very fine grained interstitial to plagioclase & augite	CH/P/6	PY/D/tr Non to Weakly Magnetic		LCT/15°/3 → low angle Shear contact, brecciated Siltstone Margins Contacts, bleached to light green-brown colour, shows 10-15 % mafics (Augite / Biotite)	

DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
29.3	31.2	SILTSTONE pink-brown, pink-green (GS=2-4)	HF/P/7 K-EP/FE/3-4 K/P/3	PY/D/1-3%	20-30/m 70° to C.A.	BD/75°/2 DB/70°/2 dissem. PY along bedding LCT/45°/3 wavy/sharp	
31.2	36.3	AUGITE - PLAGIOCLASE PORPHYRITIC MONZODIORITE fine to medium grained medium green colour (GS=5-6) 50-60% plagioclase phenos (<1-2mm) 10-15% Augite phenos (4-9mm) +	CH/P/3-4 EP/FE/2 minor Hornblende(?)	PY/FF/1-2% PY/D/<1% Weak to Weakly Magnetic		LCT/50°/3	
(34.0	34.4)	Siltstone Fragment	HF/P/7			UCT/80°/3 LCT/?/? BD/75°/2	
(34.5	34.8)		K/FE/7 CH-EP/FE/4	PY/FF/3-5%		Fracture @ 15° to C.A.	
(35.0	36.3)		K/P/4	PY/D/5-10%		increased PY mineralization blebby/dissem. & frac.	
36.3	67.6	SILTSTONE predom. Red-Brown & green-grey (GS = 3-8)	HF(BT) P/7-8 EP-CH-(PY)/FF-FE/2 K/P/1 38.6 to 38.8 strong K-spar	 Flooding	10-15/m 75° (bedding parallel) & 35° + more intense	BD/75°/3 ; DB/70°/3 PY dissem. along bedding Calcite CB/FF/70° bedding parallel	

DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@41.5)	Graded Bedding → appears right side up (steep dips) towards east					
(42.5	46.0)	Well Bedded Siltstone with minor Sandstone Interbeds (0.5-4.0cm)				BD/75°/3	
	(@47.7)	PY-EP-CB/FF + Garnet (Brown colour)					
	(@48.9)	PY-EP-CH/FF (3mm wide) tr. Moly.					
	(@49.6)	PY-CH-EP/FF (0.5-1.0cm wide)	@ 40° to C.A.	10% PY with 5-10cm	K/FE/7		
(52.0	52.2)					BD-DB/55°/3	
(52.8	54.4)	Hornfelsed 'Spotting' texture to Siltstone → circular black 'balls' with reaction rims (up to 5mm 'balls' with 2mm bleached reaction rims/halo)					
(55.7	56.9)	DIORITE (Dyke/Sill?) fine grained; aplitic groundmass dark brown-black (65°=8-9) 10% fine gr. plagioclase phenos.	BT/P/6-7 K/FE/3	PY/D/3% PY/FF/1% Non Magnetic		UCT & LCT/?/? Broken Core gradational/vague contacts strong Biotite Alt., fine gr.	
(58.2	63.1)					BD/50°-70°/3 with Black-Brown Spherical 'Balls' with reaction (redox) rims	

DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frlm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(58.3	58.6 &	60.1-60.4 & 62.3)	PY-CH-EP-K/FF/6	PY/FE/5%		Fracture @ 35°-40° to C.A.	
						Light grey-green (0.4-2.0 cm wide) & Brown Biotite altered beds (0.3-5.0 cm wide)	
						Hornfelsed Siltstone BD/70/3 with crosscutting fracture PY-EP with Biotite Alt. fracture envelopes @ 45° to C.A.	
(61.0	62.0)	Moderately Broken Core, Rubbly to Blocky					
(63.6	63.7)	Monzonite/Monzodiorite Sill @ 70° to C.A. with minor spalled in Biotite Hornfelsed Siltstone				UCT & LCT/70°/3 Sharp	
(64.3	67.6)	Brecciated Siltstone → Blocky rubble. Intense Healed Fracs @5°-15° to CA	CH-PY-EP/FF/5 K/FE/2-4				
(66.8	67.0)	Rubbly & Gravel Size Siltstone	Brx/Shr?				
67.6	82.7	Fine gr. AUGITE - PLAGIOCLASE PORPHYRITIC MONZODIORITE aphanitic dark green-black groundmass (GS = 7-8) 50% (<1 to 2 mm) phenocrysts plag 15% mafics (Augite + Biotite)	HM/FF/6 CH-PY-(B-EP)/FF/2 CH/F/4 moderate Chlorite Alt: Mafics	PY/FF/<1% PY/D/<1%	10/m @ 45° (peak) ±10° to C.A	UCT/45°/3 sharp LCT/40°/2 not as sharp Weakly to Moderately Magnetic Fractures: Hematite alteration with CH-PY-EP	

DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@75.5)	2mm wide frac. tr. CPY	EP-CH/FF/35°				
	(@78.4)	2x4 cm Volcanic (AMG) Fragment,	subrounded				
		aphanitic dark green-black colour.					
(79.2	79.4)	Siltstone Fragment	HF/P/7			Siltstone Frag. → Broken, Rubbly Core	
		light grey-green color (GS=2-3)					
(80.5	82.1)	Siltstone Frag (?)	HF(BT)/F/7			UCT/80°/2 contacts Wavy & Irregular	
		predom. brown-black color (GS-8-9)				LCT/50°/1	
		some lighter grey Sandy Interbeds					
(79.4	80.5 &	82.1-82.7) Increased Pyrite		PY/D/3%			
82.7	106.8	SILTSTONE + minor	HF(BT)/F/6-8	PY/D/1%	10/m	→ + more intense (to Blocky Core); Some Stacked Envelopes	
		SANDSTONE INTERBEDS	CH-EP-K/FE/2	tr. CPY	40°-55°	associated with Hairline fractures	
		(Latitic to Trachytic Tuffs)			±5°-10° tca.		
		+/- (0.5-5.0 cm) Monzonite Sills					
		(Narrow/Bedding Parallel Sills co	uld be Crystal Feldspathic Tuffs)				
		aphanitic to fine gr. redd	ish brown (Biotite Alt.) (GS=4-8)				
		to lighter grey-green coloured	felsic interbeds				
(82.7	87.1)	Generally more massive Redd	ish-Brown Siltstone HF+BT Alt.				

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DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(83.0	83.3)					BD/40°-45°/3	
(83.7	83.9)					BD/30°/3	
(86.0	86.3)					BD/20°-25°/3	
(87.7	88.5)	Fracture Envelope Kspar & Bleached/Clear Adjacent Siltstone	CH-CB-EP-PY/BRXX-	FF/10-15° to C.A.			
(88.6	88.7)	Diorite/Monzodiorite Sill				UCT / Broken Core	
		fine-medium gr. Augite/Plagioclase	Rock			LCT/45°/3 Sharp, along/parallel fracture	
(91.8	92.5)					BD-DB/15°/3 → pyrite dissem. along bedding.	
(94.0	98.4)					Strongly Fractured Core; Blocky & Rubbly Zones	
(96.3	96.5)					BD/30°/3	
(96.6	96.9)					Fracture @45° to C.A.	¼-½% CPY, ½-1% PY
(99.0	106.8)					BD-DB/60-70°/3	
(101.2	101.3)	Monzodiorite Sill? wavy &	Irregular Contacts				
	(@103.2)	Fracture @25° to C.A. (⊥ to	bedding, 65° to C.A.)				
		PY(3-5%), CPY(½-1%) +	Actinolite (needle	appear intergrown	with Cpy)		

DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@105.0)	3 cm wide fracture fill (Hydrothermal)		PY-MT/FF/70°			
	(@105.7)			PY-CH-EP/FF/70	tr CPY		
106.8	113.1	MONZODIORITE to MONZONITE	EP-K/FE/3-4	PY/D/1-2%	8-12/m @	UCT/45°/3 sharp & wavy	
		fine gr. (<1 to 2 mm) plagioclase phenos	CH/P/2	PY-MT/FF/2%	30° to C.A.	Hydrothermal MT (<1%), fractures @ 70° to C.A.	
		45-50% Plagioclase + alk-equant strips	HM-CB/FF/2	Non-Moderately Magnetic		Monzodiorite has fine gr. MT (magmatic?)	
		Medium grey-green (GS=4-5)				LCT/80°/2 irregular	
		5-10% Mafics Biotite ± Augite?					
	(@111.2)		PY-MT/FF/40°	with 0.5 cm wide	EP fracture envelope		
113.1	114.3	SILTSTONE FRAG. (?)	HF/P/7	PY/D/1%		LCT/70°/2 → 3 cm contact offset by	
		dark brown to grey-green (GS=4-8)	CH-EP-K/FF-FF/5-6	PY/FF/1-2%		subparallel CH-EP-K-CB Shear 10° to C.A.	
			Gin zones pervasive Kspar Alt.				
	(@113.4)					BD/70°/3	
(114.0	114.3)	Hydrothermal PY-MT fracture fill	PY-MT-CH-EP/FF/10° to C.A.				

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DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
114.3	115.9	MONZONITE to MONZODIORITE crowded porphyry (-> as for 106.3-113.1 m)	K/P/6			LCT/?/? appears sharp but obscured by BRKN CORE	
115.9	118.2	SILTSTONE Black to dark purple-brown (weak-mod. Hornfels) predom. massive, some pyritic bands and irregular diorite? zones @ 45° (GS = 7-9)	HF/P/6 (+BT/SI)	PY/D/1-2% PY/FF/<1%		LCT/55°/2 Irregular, sharp	
(116.3	116.6)					BD-DB/25°-30°/3	
118.2	132.1	MONZODIORITE - weak magnetics (0.5 avg Mg Susc.) black-medium grey 50-60% plagioclase pheno. equant-lath shape (<1-3 mm)	EP-K/FF/5-6 CH-HM/FF/5-7 EP-K-CH/P/3-5	PY/D/3-5% PY/FF/1%	5-12/m. @45° predom. 15° & 30° to C.A.	PY blebs w EP-CH rims (indicates blebby PY part of alteration assemblage?) Weakly Magnetic -> locally strong magnetics Hydrothermal MT with PY fracture fill.	
(118.2	125.2)	- Monz. dark colour to ~125.2 due to patchy zones of fine gr. biotite (Monz. contaminated by SLST?) = Contact Phase					

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DRILL HOLE NO. CH 90-14

HOLE NO. CH 90-14

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(125.2	132.1)	≤ 5% mafics (GS = 3)				LCT/35°/3 sheared, gougy contact (fault-contact)	
		gradational contact over ~0.5 m with	Biotite rich Monzon	ite PY/D/2-3%		* separates Intrusive-Hornfels from North less Hornfelsed Sed.	
		equant plagioclase phenos (0.3-2mm)	50-60%; Kspar gro	undmass 45%; MS=0.5			
(122.3	123.0)	Hydrothermal PY-MT Veinlet	PY-MT/FF-V/ 90%	PY-10% MT			
		(0.5-to 1.0 cm wide @ 5°-15° to	CA) with a EP-	K/FE/4			
	(@124.9)	Siltstone Frag. (5.0 cm wide)	HF			BD/65°/2-3	
(129.0	132.1)	Mylonite Shear (slickensides, weak	gouge) → low angle to			SHR/10°-30°/1-2	
		subparallel fracture becomes	weakly sheared				
132.1	136.4	SILTSTONE	HF-BT/P/4	PY/D/1-2%	15-20/m	LCT/50°/1, not sharp	
		-pale green-grey to dark grey (GS=4-6)	EP-K-CH/FE/1		<50-60% CA	Biotite Altered but siltstone not as Hornfelsed	
		reddish brown				or altered as previous	
		-silty to fine sandy beds 0.5 to	5cm thick				
	(@133.3)					BD/60°/3	
	(@136.0)					SHR/40°/3 (3-5 mm gouge)	
136.4	136.95	BIOTITE RICH DIORITE with		PY/D/3-5%		UCT/50°/1	
		Dissem PY (similar to 112.2-125.2 m)		Non Magnetic		LCT/90°/2-3 Irregular	

HOLE NO. CH 90-14

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
136.95	143.5	SILTSTONE	HF/P/4	PY/D/1-2%		* less Hornfelsed Siltstone (Softer)	
		light to dark grey (GS = 2-7)	CB-HM-PY/FF/2			LCT/80°/3 appears conformable	
		silty to sandy interbeds (0.5-10cm)					
	(@137.3)					BD/55°/3	
(137.5	138.0)					BD-DB/50°-55°/3	
	(@138.9)	Calcite CB/FF/25° 0.5-1.0cm with 2.0cm Bleached SLST envelope					
(141.4	142.2)					BD/60°/3	
(142.7	142.9)					BD/70°/3	
	(@142.5)					SHR/25°/3 (gouge 3mm wide)	
143.5	145.9	MONZONITE PORPHYRY SILL	CB-HM-PY/FF/2-3	PY/D/3%		LCT/?/? appears sharp but obscured by Broken Core	
		medium green (GS=5)				Weakly to Moderately Magnetic (Mag-Suscep. 0.6 to 4.0)	
		0.3 to 1.5mm equant plagioclase	phens ~65%			(dissem. PY-MT hydrothermal)	
		Kspar groundmass ~30%; fine	gr. Biotite (?) ~5%				
145.9	152.4	SILTSTONE with minor	HF/P/5	PY/D/1-3%			
		Irregular Monzonite Zones	EP-K/FF/3				
		(@152.1 & 152.3-152.4 @45°					
		to C.A.) light grey to light					
		green, minor black beds (GS=3-4)					

HOLE NO. CH 90-14

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(146.0	149.0)					SIIR/0-10°/3	
	(@150.1)	Qtz/Carb. Vein 5 cm wide @	75° to C.A.				
(149.2	149.9)	Locally crackle breccia with Chlorite matrix & Kspar flooding healed 3-5% PY.					
152.4	EOH						

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DRILL HOLE NO. CH 90-14

DDH - CH-90-14

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51315	2.1	4	1.9	0.1	90	0.2								
316	4	6	2.0	0	65	0.7								
317	6	8	2.0	0	95	0.1								
318	8	10	2.0	0	95	0 1								
319	10	12	2 0	0	85	0.3								
320	12	14	2 0	0	85	0 3								
321	14	16	2 0	0	70	0.6								
322	16	18	2.0	0	85	0.3								
323	18	20	2.0	0	75	0 5								
324	20	22	2 0	0	80	0 4								
325	22	24	2 0	0	85	0.3								
326	24	26	2.0	0	85	0 3								
327	26	28	2.0	0.1	75	0 5								
328	28	30	2.0	0.3	85	0 3								
329	30	32	2.0	0	100	0								
330	32	34	2.0	0.3	95	0 1								
331	34	36	2.0	0.5	95	0.1								
332	36	38	2 0	0	85	0 3								
333	38	40	2 0	0	90	0 2								
334	40	42	2.0	0.1	90	0.2								
335	42	44	2.0	0	100	0								
336	44	46	2.0	0	95	0.1								
337	46	48	2.0	0.1	80	0.4								
338	48	50	2.0	0	95	0.1								
339	50	52	2.0	0	80	0.4								
340	52	54	2.0	0	70	0 6								

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DRILL HOLE NO CH-90-14

BP 44-3

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51341	54	56	2.0	0	60	0.8								
342	56	58	2.0	0	100	0								
343	58	60	2.0	0	90	0.4								
344	60	62	2.0	0	75	0.5								
345	62	64	2.0	0	100	0								
346	64	66	2.0	0	75	0.5								
347	66	68	2.0	0.2	80	0.4								
348	68	70	2.0	0.7	100	0								
349	70	72	2.0	1.9	100	0								
350	72	74	2.0	1.9	100	0								
351	74	76	2.0	2.2	100	0								
352	76	78	2.0	1.0	90	0.2								
353	78	80	2.0	0.	100	0								
354	80	82	2.0	0.2	75	0.5								
355	82	84	2.0	0.6	100	0								
356	84	86	2.0	0	100	0								
357	86	88	2.0	0.2	90	0.2								
358	88	90	2.0	0.1	95	0.1								
359	90	92	2.0	0.1	90	0.2								
360	92	94	2.0	0	90	0.2								
361	94	96	2.0	0	75	0.5								
362	96	98	2.0	0	95	0.1								
363	98	100	2.0	0	70	0.6								
364	100	102	2.0	0	75	0.5								
365	102	104	2.0	0	100	0								
366	104	106	2.0	0.2	95	0.1								

DRILL HOLE NO CH-90-14

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51367	106	108	2.0	0.7	100	0								
368	108	110	2.0	1.3	100	0								
369	110	112	2.0	0.4	95	0.1								
370	112	114	2.0	0.4	95	0.1								
371	114	116	2.0	0.2	100	0								
372	116	118	2.0	0	85	0.3								
373	118	120	2.0	0.3	100	0								
374	120	122	2.0	0.5	95	0.1								
375	122	124	2.0	0.8	95	0.1								
376	124	126	2.0	0.4	100	0								
377	126	128	2.0	0.3	100	0								
378	128	130	2.0	0.2	95	0.1								
379	130	132	2.0	0.6	95	0.1								
380	132	134	2.0	110	75	0.5								
381	134	136	2.0	0.2	85	0.3								
382	136	138	2.0	0.2	95	0.1								
383	138	140	2.0	0	85	0.3								
384	140	142	2.0	0	100	0								
385	142	144	2.0	0.3	100	0								
386	144	146	2.0	0.2	90	0.2								
387	146	148	2.0	0.1	50	1.0								
388	148	150	2.0	0	100	0								
389	150	152.4	2.4	0.6	88	0.3								

DRILL HOLE NO CH-90-14

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-15

UTM N: 6124592m	Elev.: 1498m
UTM E: 401728	Depth: 155.1m
GRID N: 107+45	Azimuth: 267°
GRID E: 97+50	Dip: -46.5°

Metres (m)

0.0 - 9.8	CASING
9.8 - 10.3	MONZODIORITE subporphyritic, mod. chlorite and epidote, late carb. on fracs., 4% PY, trace CP.
10.3 - 14.3	SILTSTONE perv. sericite-clay, 2% PY, trace CP.
14.3 - 21.6	MONZODIORITE subporphyritic, weak to mod. k-spar, epidote and chlorite, 3-4% PY, trace CP.
21.6 - 31.7	SILTSTONE mod. to strong k-spar, epidote and chlorite, perv. sericite, 2-4% PY, some MT, trace CP.
31.7 - 40.1	MONZODIORITE subporphyritic, siltstone inclusions, mod. to strong k-spar and epidote, 4% PY, some MT, trace CP, 20cm vein of massive PY-MT.
40.1 - 46.0	SILTSTONE mod. k-spar and epidote, 2-3% PY.
46.0 - 49.3	MIXED SILTSTONE/MONZODIORITE total k-spar +/- epidote and chlorite flooding, 2-4% PY, some MT, trace CP.
49.3 - 55.2	MONZODIORITE PORPHYRY mod. perv. k-spar, 2-4% PY, some MT.
55.2 - 70.5	SILTSTONE weak k-spar, epidote and chlorite, 2-3% PY.
70.5 - 74.1	MONZODIORITE subporphyritic, weak k-spar and epidote, mod. chlorite, 3-5% PY.

CH 90-15 cont.

74.1 - 82.3 SILTSTONE
strong carb. frac. fill, local shearing. 1% PY.

82.3 - 155.1 MONZODIORITE
subporphyritic, weak to mod. chlorite, epidote and k-spar.
2-4% PY, some MT, trace CP.

94.0-96.0 fault/shear - mod. quartz veining (SH/20/3)
103.9-104.4 fault/shear - quartz-healed breccia zone (SH/20/3)
108.4-112.9 fault shear - weak quartz veining (SH/10/3)

** above shear zones are main ENE fault **

155.1 E.O.H.

HOLE NO. CH 90-15

DRILLING CO	LOCATION SKETCH	TESTS: DEPTH	DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	$-46\frac{1}{2}°$	267°	DATE STARTED:	JUNE 30, 1990	PROJECT:	CHUCHI
		155.1	$-41\frac{1}{2}°$		DATE COMPLETED:	JULY 2, 1990	N.T.S.:	93N/7E
					COLLAR ELEV.:	1498m	LOCATION:	
					NORTHING:	6124592		109+45N / 97+50E
					EASTING:	401798		
					AZIMUTH:	267°		
					DEPTH:	155.1m	DATE LOGGED:	JULY 2-3, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	9.8	CASING					
9.8	10.3	MONZODIORITE (Sill):					
		- subporphyritic with 5-	A) Ch ± Ep/P/7				
		10% stubby plag phenos		A) Py + [illegible] Cp/P/2			
		to 2mm in fg [illegible]	B) Cl/FF/5 -				
		matrix (75-80%)		B) Py-Cl/FF/2			
		- chloritized augite(?)	C) Ca/FF/5				
		~20%, 2% fg diss	(0° + 70°)				
		Mt (mod magnetic					
		- dk green (CS=8)				LCT/65°/3; sharp but slightly irregular,	
		- biotitic adj to LCT				adj s/st cut by ch-py FF [illegible] 10cm	
10.3	14.3	SILTSTONE;					
		- bedding largely obliterated				11.7m BD/65°/3	
		by pervasive pale pink to					
		lt green ser-ep-alb alt					
		- original beds are dark					

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DRILL HOLE NO. CH 90-15

HOLE NO. CH 90-15

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
		purple - br hfls interbedded w	A) Ser-Cp-Al/P/	A) Py-Cl/FE/1			
		pale green tuffaceous beds	8				
		.5-2 cm thick	B) Ch±Ep/FF/4-5				
				B) Py-tr Cp/D/1			
			C) Ca±Q/FF/2				
			(some subparallel			LCT/30°/2-3 ; ch-Py FF adj to LCT	
			to C.A.)				
14.1	21.6	MONZODIORITE :					
		- wk magnetic, med to dk	A) K±Ep-Chl/	A) Py-tr Cp-Ep-K			
		green (GS = 6-8)	FE/3-4	ch/FE/1-2			
		- subporphyritic with ~5%				Wk to mod local shearing subparallel CA.	
Rep	13.4 m	stubby plag phenos 1-3mm	B) Ch/D/5-6	B) Py/D/2			
		within 70% , 3mm squat					
		plag ; chlorit mafics ~15%,	C) Ca/FF/1-2	C) He/FF/1-3			
		10% aphanitic gm, 2%					
		fg black xenoliths				LCT/65°/3 ; obscured by alt (chl-seric)	
						across contact	
(16.6	17.1)	MONZONITE PORPHYRY :					
		- plag laths 1-3mm, mod-st	A) Ep-Ch/D/2-3	A) Py/FF/1		UCT/70°/1	
		aligned parallel to contacts,					
		~30%	B) Ep-Ch/FF/3	B) Py/D/tr		LCT/50°/2 ; some stoping of monzod	
		- biot to 5mm ~5-10%					
		- aphanitic dk grey gm		C) He/FF/1			
		(Kspar ?) ~55%					
		- diss Mt 2-3%, mod-st					
		magnetic					

DRILL HOLE NO. CH 90-15

HOLE NO. CH 90-15

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.) / REMARKS (Mineralization, type, age, relations)
21.6	31.7	SILTSTONE: - pale green to black; beds obscured by Fr-controlled bleaching and local perv Kspar flooding	A) K± Ep-Ch/FE/6-7 B) Ser-Ep-All/FE/4 C) Ca/FE/1-2	A) Py-Ht to Cp-K-Ep-Ch/FE/2 B) Py-Cp/D/1-5 C) Hc/FE/2		26.0m BD/60-65°/2 → 27.0-27.4m hi-grade diss Cp-Py in med to dk green tuffac' bed with perv' K-bi-Ep (possibly hybrid diorite ?)
Rep	25.1					
(26.0	28.1)	MONZODIORITE (Sheer Dyke) - med gr (GS=5), non-mag, subporph (similar to 14.3-21.6)	A) K±Ep-Ch/FE/5 B) Ch/D/5 C) Ca/FE/1	A) Py-to Cp-K-Ep-Ch/FE/2 B) Py/D/1-2		UCT/?/2-3; sharp but masked by kspar-Py alt LCT/65°/2-3; appears conformable
31.7	40.1	MONZODIORITE to MONZONITE: - wkly magnetic (local sec Mt) - equig to subporph, plag phenos rarely to 2mm, gm ≤1mm, ~55%; chlorit'd biot and/or augite ~10%; kspar gm 45%	A) K+E/FE/6-7 B) Ep-Ch/D/5	A) Py-Mt/V/10% B) Py-Mt-to Cp-K-Ep/FE/2 C) Py-to Cp/D/2 ±Mt-Ep		UCT/~50°/2; somewhat gradational over 2cm 33.5-34.0 Slst inclusion; lower contact marked by 20cm of mass Py (Xtals to 1cm) with 5% Mt and vuggy epid-carb; contacts of sulphide zone parallel at 45° CA LCT/?/2-3; appears sharp, broken core obscures angle

DRILL HOLE NO. CH 90-15

HOLE NO. CH 90-15

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
40.1	46.0	SILTSTONE:					
		- minor hornfelsing, mainly	A) K-Ep/FE/5	A) Py-K-Ep/FE/1		41.0 BD/60/3	
		black colour, mainly					
		massive with only minor		B) Py/DB/1			
		med green interbeds					
				C) He/FE/tr		LCT/45°/3, gradational over 12 cm	
(43.4	43.9)	Monzonite Sill (same as					
		31.7 - 40.1)	A) K-Ep/FE/5-6	A) Py-K-Ep/FE/1-2			
				B) Py/D/1-2			
46.0	49.3	LITHIC-XTAL TUFF MARKER:					
		- pervasively K-flooded,	A) K±Ep-Ch/P/	A) Py-Mt-±Cp:			
		lt pink colour	9-10	Ep-Ch±Cb/FE/2-4		LCT/60°/2; gradational over ~2cm into	
			B) Cb/FE/1-2			monzonite with siltstone inclusions.	
49.3	55.2	MONZODI TO MONZONITE PORPHYRY:					
		- crowded, 1-2mm equant plag					
		~50+ %, chl mafics 5-8%	A) K/P/5	A) Py-Mt/D/1-3 (Py may replace Mt)			
		- med green, locally with	B) Ep-Ch/D/4	B) Py-Ch/EF/1-2			
		abundant blk slst xenos		C) He/FE/tr			
		- non to mod magnetic					
		- K replaced plag phenos				LCT/45°/3; Sharp but locally irregular	
		locally					

DRILL HOLE NO. CH90-15

HOLE NO. CH 90-15

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
55.2	70.5	SILTSTONE: - gen not hornfelsed, black with 1cm pale gr tuffac sandy interbeds, beds well preserved - minor thin Fp sills - med biot hFls from 68-70.5m	A) K±Ep/FE/1-2 B) Ch/FF/2	A) Py-K-Ep/FE/<1 B) Py/DB/1-2 C) Py-Ch/FE/1 D) He/FF/tr		56.5m BD/60/3 LCT/60/3, sharp, gen conformable	
70.5	74.1	MONZODIORITE - med green (GS=5) - subporph with 10% plag phenos 1-3mm, <1mm plag ~ 50%; chl mafics 5-10% - non to wkly magnetic	A) K±Ep/FE/2-3 B) Cb/D/5 C) Ch/FF/5 D) Ca/FF/1-4 increases to shear zones	A) Py/D/2-3 B) Py-Ch/FE/1-2		From 70m → prominent 0-10° Fr/silica ± carb LCT/60/1, obscure.	
74.1	82.3	SILTSTONE: - very broken, sheared 75-79.3 - beds obliterated, black to lt green to lt purple-br hFls	A) Ca/FF/7-8 B) K/FE/3	A) Py-Ch-Ep/FF/1		78.5 SH/10°/3, gouge zone 5-10cm wide, extremely broken with Ca Fr-fill adjacent LCT/40°/2; obscured by alt related to shearing.	

DRILL HOLE NO. CH 90-15

HOLE NO. CH 90-15

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
82.3	112.9	MONZODI TO MONZONITE:				UCT gradational from 82.3 - 84.5 with	
		- wk magnetic (mod locally due to sec Mt)				slst inclusions in monz, possible 10-	
		- med green (GS = 6) except in bleached zones adj				30° local contacts	
		to fault/gouge zones					
		- fg-mg equig to subporph with 10-25% equant					
		plag 1-3 mm, fg augite ~5%					
(82.3	94.0)	- Four 5-10 cm bleached	A) Ep-Ch/D/4-6	A) Py ± Mt - Ep-Ch/D/1-2		84.0 + 88.0 1 cm qtz-py vein @ 55°, wkly	
		zones ± qtz-carb v + FF	B) Ca/FF/2-3	B) Py-Ch-Ep/FF/1-2		banded	
		@ 45-55°, minor slst	C) K/P/4	C) Py-Mt-Ch-Ep/Bx matrix/			
		inclusions, shears @	D) Cy/Sh/3	1-3 locally	eg. cor	He bx 92.6-92.8	
		10-55°		D) He/FF/tr			
(94.0	96.0)	Fault Zone	A) Cy-Ser/F/3-10	A) Py-He/FF/1-2		SH/20/3, predom 0-20° shear	
		- tr mariposite (?), sulphides	B) Ca/P/6	B) Py tHe/D/1			
		are pre-shear	C) Q/V/6 @			UCT + LCT / gradational over 20 cm	
			20-60°				
(96.0	103.3)	Wk bleaching/shearing	A) Cy-Ser/P/1-5	A) Py-Mt-tr Cp			
		from 99.2 - 100.6	B) K/P/0-6	-Ep-Ch/FF/1-2			
		@ 20-45°	C) Ep-Ch/FF/3	B) Py-Mt/D/1-2		LCT bleaching starts ~102.0, increases	
						to 103.3	
						103.8 - 104.4 qtz-healed flt-bx zone	

DRILL HOLE NO. CH 90-15

HOLE NO. CH 90-15

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(103.3	112.9)	Bleached/gouge/fault zone:				SH/20°/3.	
		103.8-104.4 qtz-healed fault/bx zone					
		104.4-107.5 unsheared monzonite					
		108.4-112.9 0-10° shear					
			A) Cy-Ser/P/5-10	A) Py-Mt-Cp/FF/1		Mt wkly hematized	
			B) Q/FF/5-8	B) Py/D/tr-1			
			C) Q/V/2-3			LCT/45°/2-3, relatively sharp with unbleached monz.	
112.9	155.1 EOH	MONZONITE MONZONITE:					
		- med to dk green (GS=5-6)					
		- subporph					
		- gen uniform with only minor min + alt, only very local narrow shears, solid core					
(112.9	120.0)	Wk magnetic but increases from 136-148 where sec Mt occurs with heavy Py FF	A) K±Ep/FF/1-2	A) Py-Mt-tr Cp/D/2			
			B) Ch-Ep/D/3-4	B) Py-Mt-Cp-Ch/FF/2			
			C) Ca/FF/3 (10°+55°)	C) He/FF/tr			
(120.0	135.5)	Wkly altered	A) Ep-Ch/FF/3	A) Py-Mt-Cp-Ch/FF/1-2		125.0 10 cm of st carb FF @ 60°	
			B) Ep-Ch/D/3-4	B) Py-Mt/D/1-2		130.0-130.3 st Py-Mt-Cp FF @ 10°, brot on 0-20° Fr	
				C) He/FF/tr			

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DRILL HOLE NO. CH 90-15

HOLE NO. CH 90-15

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(135.5	155.1) EOH	Slight increase in alt and min as heavy Py-Mt in Ep-Ch envelopes and on dry fr. with tr Cp @ 10°, 45°, 60°	A) Ep±Ch-K/FF/4-5 B) Ep-Ch/D/3-4 C) Ca/FF/1	A) Py-Mt-Cp-Ch/FF/2 B) Py-tr Cp/FF/2. C) He/FF/tr		145.5-146.1 tr to .3% Cp 148.5-149.1 wk to mod shear + broken core @ 10° CA SH/1D/1	
		- from 144.0 - EOH slight decrease in gr size, grm to fine gr					
		- From 149.1 - EOH acicular mafics ~10%, to 5 mm (augite?), rare 1-2 cm biot megacrysts					

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DRILL HOLE NO. CH90-15

DDH - CH-90-15

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51390	9.8	12	2.2	0.1	91	0.2								
391	12	14	2.0	0.3	85	0.3								
392	14	16	2.0	1.6	100	0								
393	16	18	2.0	0.8	85	0.3								
394	18	20	2.0	0.4	100	0								
395	20	22	2.0	0.5	95	0.1								
396	22	24	2.0	0	100	0								
397	24	26	2.0	0.7	95	0.1								
398	26	28	2.0	0	95	0.1								
399	28	30	2.0	0.1	90	0.2								
400	30	32	2.0	0	100	0								
401	32	34	2.0	0.1	100	0								
402	34	36	2.0	0.4	90	0.2								
403	36	38	2.0	0.4	100	0								
404	38	40	2.0	0.1	100	0								
405	40	42	2.0	0.1	90	0.2								
406	42	44	2.0	0.2	70	0.6								
407	44	46	2.0	0.1	100	0								
408	46	48	2.0	0.3	100	0								
409	48	50	2.0	0.3	100	0								
410	50	52	2.0	0.3	95	0.1								
411	52	54	2.0	0.2	85	0.3								
412	54	56	2.0	0.1	100	0								
413	56	58	2.0	0.1	100	0								
414	58	60	2.0	0.4	95	0.1								
415	60	62	2.0	0	100	0								

DRILL HOLE NO. CH-90-15

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE MS.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51416	62	64	2.0	0.1	90	0.2								
417	64	66	2.0	0.2	90	0.2								
418	66	68	2.0	0	100	0								
419	68	70	2.0	0	95	0.1								
420	70	72	2.0	0.4	95	0.1								
421	72	74	2.0	0.5	100	0								
422	74	76	2.0	0	85	0.3								
423	76	78	2.0	0	60	0.8								
424	78	80	2.0	0	90	0.2								
425	80	82	2.0	0.2	100	0								
426	82	84	2.0	0.4	80	0.4								
427	84	86	2.0	0.2	95	0.1								
428	86	88	2.0	0.6	100	0								
429	88	90	2.0	0.2	100	0								
430	90	92	2.0	0.1	100	0								
431	92	94	2.0	0	100	0								
432	94	96	2.0	0	100	0								
433	96	98	2.0	0.2	100	0								
434	98	100	2.0	0.1	95	0.1								
435	100	102	2.0	0.4	95	0.1								
436	102	104	2.0	0.1	100	0								
437	104	106	2.0	0	95	0.1								
438	106	108	2.0	0	100	0								
439	108	110	2.0	0	95	0.1								
440	110	112	2.0	0	95	0.1								
441	112	114	2.0	0.2	100	0								

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DRILL HOLE NO CH-90-15

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51442	114	116	2.0	0.4	100	0								
443	116	118	2.0	0.4	100	0								
444	118	120	2.0	0.1	100	0								
445	120	122	2.0	0.2	100	0								
446	122	124	2.0	0.6	100	0								
447	124	126	2.0	0.3	90	0.2								
448	126	128	2.0	0.7	100	0								
449	128	130	2.0	1.0	90	0.2								
450	130	132	2.0	0.4	100	0								
451	132	134	2.0	0.4	100	0								
452	134	136	2.0	0.5	90	0.2								
453	136	138	2.0	1.1	95	0.1								
454	138	140	2.0	1.5	95	0.1								
455	140	142	2.0	1.3	95	0.1								
456	142	144	2.0	1.0	100	0								
457	144	146	2.0	1.0	95	0.1								
458	146	148	2.0	1.5	95	0.1								
459	148	150	2.0	0.3	95	0.1								
460	150	152	2.0	0.4	85	0.3								
461	152	154	2.0	0.8	95	0.1								
462	154	155.1	1.1	0.3	100	0								

DRILL HOLE NO CH-90-15

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-16

UTM N: 6124535m	Elev.: 1474m
UTM E: 401630m	Depth: 158.2m
GRID N: 109+00	Azimuth: 000°
GRID E: 103+00	Dip: 43°

Metres (m)

0.0 - 16.5 CASING

16.5 - 20.6 MONZODIORITE
mod. k-spar, weak to mod. epidote, chlorite,carb., non to weakly magnetic, 1-2% PY.

20.6 - 23.7 SILTSTONE
mod. bleach, mod. hornfels, 1% PY.

23.7 - 25.4 FAULT ZONE
gouge-clay-bleached, 1% PY.

25.4 - 26.6 SILTSTONE
mod. hornfels, weak epidote and k-spar, 1% PY.

26.6 - 30.3 MONZODIORITE
strong chlorite, weak to mod. epidote, k-spar and carb., 4-5% PY, weak to mod. magnetic.

30.3 - 32.9 SILTSTONE + SANDSTONE with MINOR MONZODIORITE
mod. hornfels, mod. to strong chlorite and carb., weak epidote and k-spar, 1-2% PY.

32.9 - 35.8 FAULT ZONE, SILTSTONE
strongly bleached, strong clay and sericite, weak to mod. hornfels, epidote, k-spar and chlorite, <1% PY, trace hematite.

35.8 - 38.5 SILTSTONE with MINOR SANDSTONE INTERBEDS
mod. to strong hornfels, weak chlorite and k-spar, 1-2% PY.

38.5 - 51.5 MONZODIORITE-MONZONITE
strong k-spar, sericite and silicification, weak chlorite, carb. and hematite, 1-2% PY.

51.5 - 56.4 MONZODIORITE-SILTSTONE HYBRID ZONE
~60/40, mod. to strong bleaching, sericite, k-spar and silicification, 1% PY.

CH 90-16 cont.

56.4 - 61.2	FAULT ZONE mod. to strong bleaching, sericite and clay, mod. chlorite and carb., 1-3% PY.
61.2 - 70.8	MONZODIORITE mod. chlorite, weak hematite, carb., epidote and k-spar, 2-3% PY.
70.8 - 75.9	FAULT ZONE strong bleaching, clay and sericite, mod. carb., weak to mod. silicification, 1% PY.
75.9 - 82.0	MONZODIORITE weak to mod. carb., hematite and chlorite, 1% PY, non to weakly magnetic
82.0 - 86.1	MONZODIORITE altered and sheared, strong bleaching, clay, sericite and carb., 2-3% PY
86.1 - 100.0	MONZODIORITE weak to mod. carb., hematite, chlorite, epidote and k-spar, 2-3% PY, non to weakly magnetic.
100.0 - 107.2	FAULT ZONE mod. to strong bleaching, sericite, clay and silicification, mod. carb., 2% PY.
107.2 - 110.7	MONZODIORITE weak carb., epidote and chlorite, 2% PY.
110.7 - 124.5	MONZODIORITE bleached and altered. mod. to strong sericite and clay, mod. quartz and carb., 1% PY.
124.5 - 150.2	MONZODIORITE mod. epidote and k-spar, weak carb., chlorite and hematite, 1-2% PY.
150.2	E.O.H.

HOLE NO. CH 90-16

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC	- N -	COLLAR	-43°	000°	DATE STARTED:	JULY 2nd, 1990	PROJECT:	CHUCHI LAKE
		158.2 m	-40°		DATE COMPLETED:	JULY 4th, 1990	N.T.S.:	93 N/7E
					COLLAR ELEV.:	1494 m	LOCATION:	Grid Coords:
					NORTHING:	6124535 N		109+00 N
					EASTING:	401650 E		96+00 E
					AZIMUTH:	000°		
					DEPTH:	158.2 m (519')	DATE LOGGED:	JULY 5th, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	DRB

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	16.5	CASING					
16.5	20.6	MONZODIORITE	K/P/5-6	PY/D/1-2%	10/m @	LCT/?/? Broken Core, Bleached	
		(-compositional rock is Monzonite)	EP-CH-CB/FF/4-6		35°&55° to CA	Non to Weakly Magnetic	
		fine gr. (<1 to 1 mm) plag. phenos	EP/P/3 EPID SPOTS				
		50% plag.; subporphyritic 5%					
		(up to 2-3 mm)					
		10-20% Mafics (Biotite + Augite/Hornblende?)					
		medium grey, grey-green-pink (GS=4)					
(16.5	18.6)	Oxidized, Rusty, Fracture Surfaces					
(20.1	20.4)	Fractures HM/MT with EPID/KSPAR fracture envelopes					

DRILL HOLE NO. CH 90-16

HOLE NO. CH 90-16

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
20.6	23.7	SILTSTONE light grey (GS=2-3), bleached	BL/P/6 HF/P/4	PY/D/1%		Blocky Broken Core LCT/?/?	
23.7	25.4	FAULT ZONE strongly altered Siltstone? (+ minor Monzodiorite?) light grey colour (GS=2)	GOUGE/CLAY/BL	PY/D/1%		Blocky, Rubbly and Gouge predom. fractures 0-10°	
(24.6	24.7)	Clay Gouge Zone					
25.4	26.6	SILTSTONE light grey-green colour (GS=3)	HF/P/5-6 EP-K/FE/2	PY/D-FF/1%		LCT / Broken Core/ ?	
(25.4	25.8)					BD/65°/2	
26.6	30.3	Altered MONZODIORITE light to med. grey-green (GS=3-5) strong chlorite alt.	CH/P/8 EP-K/P/3-4 CB/FF/3	PY/D/3-4% PY/FF/1-2%		LCT/?/? Broken core Carbonate qtz fractures & frac. filling Weak to Moderate Magnetics	
(27.0	27.2)	3mm wide frac. fill @ 15° to C.A	PY-MT/FF/15° + Chlorite				

DRILL HOLE NO. CH 90-16

HOLE NO CH 90-16

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
30.3	32.9	Altered SILTSTONE + SANDSTONE minor altered Monzodiorite (?) light green-grey (GS=3)	HF/P/5 CH-CB/FF/7 EP-K/FE/2	PY/D/1% PY/FF/1%		LCT/?/? Gradational into more intensely bleached altered siltstone	
	(@32.9)					BD/40°/2	
32.9	35.8	FAULT ZONE strongly Bleached Altered Siltstone light yellow green-grey (GS=2)	HF/P/4 BL-CL-SE/P/8 EP-K-CH-SE/FF-FE/3	PY/D/<1% tr. HM		LCT/25°/2 relatively sharp lower contact out of bleached altered siltstone to Siltstone Unit.	
(34.3	34.4)	Gouge, Rubble Zone					
(35.3	35.6)	Minor Gouge, Rubbly Zone					
35.8	38.5	SILTSTONE minor Sandstone Interbeds moderately bleached & altered predom. light grey, some red-brown (GS=2-6)	HF/P/5-6 CH-K/FE/2	PY/D/1-2%	6-8/m e 30°&55° tca	LCT/?/? Broken Core to SHR/5°/3	
(36.0	36.7)					BD-DB/55°/3	

DRILL HOLE NO. CH 90-16

HOLE NO. CH 90-16

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
38.5	51.5	Strongly Altered MONZODIORITE – MONZONITE minor Siltstone Fragments • 30% sericite altered plagioclase phenocrysts (<1 to 3 mm) • 20% plagioclase (4-5 mm) • 45% pink (silicified) Kspar Groundmass (GS=2-4) • 5% Mafics Chlorite-Sericite Alt. (Biotite ± Augite?)	K-SI-SE/P/7-8 CH-CB-HM/FF/2	PY/D/1-2%		UCT/5°/3 Shear – low angle shear zone LCT/?/Gradational Silica flooding + brecciated, healed Monzodi Zones? Originally: Chlorite/Kspar Alt. later Shear/Fault caused sericite alt. ± silica flooding	
(40.0	40.1)	Altered Siltstone				BD/75°/2	
(42.2	42.5)	Shear minor gouge @ 10° to C.A.				SHR/10°/2-3	
(44.0	44.3)	Qtz Vein @ 20° to C.A.		PY/FF/2% PY/D/1%		grey quartz vein, PY filling hairline fractures	
	(@ 45.5)	2-3 cm wide Calcite Vein @ 35° to C.A. with Dogtooth Spar					
(49.2	49.5)	Shear @ 10° to CA. Chlorite/Carb., weak gouge				SHR/10°/2	
51.5	56.4	HYBRID ZONE: strongly altered Monzodiorite Sills (60%) + Siltstone (40%) (0.3 to 4.0 cm beds + minor sandy beds)	BL-SE-K-SI/P/7 Bleached Sericite/Clay Alt.	PY/D/1%		LCT/65°/Gradational Hornfelsed ± Siltstone Silicified Beds	

DRILL HOLE NO. CH 90-16

HOLE NO. CH 90-16

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@52.0)					BD/70°/2	
(54.1	54.6)					BD/65°/2	
(55.5	56.1)					BD/55°/3	
56.4	61.2	FAULT ZONE Bleached, Sericite/Clay Altered (AS=2-3) Monzodiorite with minor Siltstone 60% alt. (<1-1mm) plag.-phenos. 10-20% alt. Mafics	BL-SE-CL/P/7 CH-CB/FF/5	PY/D/1-3%		LCT/70°/1 wavy, irregular & gradational over 10cm out of Bleached Altered Monzodi. to Monzodiorite Unit	
(57.1	58.0)	Shear @ 5-10° to C.A. (57.7-57.8 rubble zone)				SHR/5-10°/3 minor gouge sericite/talc	light green (emerald color)
(60.5	60.7)	Quartz Veinlets, flooding brecciated Monzodiorite irregular @40° to C.A. adjacent to Fault.					
(60.7	60.9)	Rubbly Core, minor clay gouge					

HOLE NO. CH 90-16

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
61.2	70.8	MONZODIORITE	CH/P/6	PY/D/1-3%	10-12/m	Localized Bleached Envelopes adjacent to	
		light to medium grey-green (65-45)	M-CB/FF/3	PY/FF/1%	@40° & 55°	some calcite fracture fills (ie. @ 66.9) and	
		50% (<1 to 1mm) eq-1/2 shaped	EP-K/FE/2		to C.A.	Calcite veinlets (@ 66.0 & 69.0) @25° to C.A.	
		plagioclase phenocrysts					
		subporphyritic (10%, 2-3mm)				Weak to Moderately Magnetic	
		10% mafics → biotite					
		40% groundmass					
(66.8	66.9)	Shear, rubble minor gouge				SHR/?/2 strong chlorite alt. 3-5% PY	
70.8	75.9	FAULT ZONE	BL-CL-SE/P/7-9	PY/D/<1-1%		UCT/15°/1-2 Bleached contacts,	
		strongly altered Monzodiorite	CB/FF/4-6	PY/FF/<1%		LCT/20°/2 low angle to C.A.; relatively sharp.	
		Bleached light yellow-beige	SI/P/4				
		to light green-grey (65-2)					
		50-75% sericite/clay alt. plagioclase phenos.					
(71.0	71.7)	Fault/Shear; Gouge				FLT/10°/2-3 1cm wide gouge	
(73.4	73.9)	Fault; rubble & gouge zone				FLT/?/2 Broken, Rubbly Core	
(73.9	75.2)	Brecciated, Silica Healed Zone		PY/D/3%		Breccia, Silica flooded Healed; strong clay/sericite alt	
						Increased Dissem. PY.	

DRILL HOLE NO. CH 90-16

HOLE NO CH 90-16

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
75.9	82.0	MONZODIORITE	CB-HM-CH/FF/3-4	PY/D/1%	7-12/m		
		medium green, green-grey (GS 4-5)		PY/FF/<1%	50°-60° &		
		50-60% plagioclase, phenos			10°-20° to C.A.		
		(<1 to 2mm; subporphyritic 10% 2-4mm	ta, la shape				
		10-15% mafics (biotite)					
	(@80.4)					Volcanic (dark green aphanitic) Fragment; subrounded (2x5cm	
82.0	86.1	Altered Sheared MONZODIORITE	BL-CL-SE-CB/P/8-9	PY/FF/2%		Contacts: UCT & LCT gradational over 20 cm	
		Strongly Bleached, Altered		PY/D/1%			
		monzodiorite, subparallel to C.A. due				SHR/0-10°/3 Talc (emerald green, very soft), Carb, PY	
		light beige to light grey-green (GS 2-3					
		50-70% fine gr. plagioclase phenos	(<1 to 1mm)				
		10% mafics (Biotite & Augite?	altered)				
(82.6	82.8)	Calcite vein 2cm wide @20° to C.A.					
		Sheared, intensely alt. monzodiorite					
(84.7	85.7)	Shear @ 5° to C.A., subparallel	SE-CB-Talc/5°/3	PY/FF/3%			

DRILL HOLE NO. CH 90-16

HOLE NO. CH 90-16

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
86.1	100.0	MONZODIORITE	CB-HM-CH/FF/3	PY/FF/1-2%	6-9/m.	LCT/?/ Gradational over 30 cm	
		(same as 75.7-82.0)	EP-K/FF/3-4	PY/D/ 1%	20, 40°		
		light-medium grey-green (GS-4-5)	CH/P/ 2-3		50-55° &	Non to Weakly Magnetic	
		50-60% plagioclase phenos (4-2mm)			70° to C.A.		
		lx, eq. shape; subporphyritic					
		10-15% Mafics, Augite & Biotite					
		30-40% Aphanitic Groundmass					
(97.5	97.7)	Strong Epidote & Chlorite alt. (fracture controlled)					
		Weak Kspar - Carb.; 5% PY					
100.0	107.2	FAULT / SHEAR ZONE	BL-SE-CL-SI/P/6-7	PY/D/1%		LCT/?/ Gradational over 20 cm.	
		Strongly Altered Monzodiorite	CB/FF/4-6	PY/FF/1%			
		(same as 82.0-86.1 m) +		Non Magnetic			
		later silicification in zones					
		related to shearing					
		light yellow-beige to light green (GS-2-3)					
(102.0	105.6)	Blocky, Rubbly core; Brecciated					
(105.0	105.6)	Strong Shear with gouge @ 30-35° to C.A.				SHR/30°-35°/3 with Quartz-Carb-Sericite	

HOLE NO. CH 90-16

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
107.2	110.7	Fine grained MONZODIORITE light-medium green-gray (GS=4-5) (same as 86.: - 100.0)	CB-EP-CH/FF/3	PY/D/1% PY/FF/1%		Generally Non Magnetic, locally weakly Magnetic	
(108.1	108.2)	Weakly Sheared	CB-EP-SE-CH/FF-FF/25			emerald green colour ⇒ talc-sericite	
(109.9	110.1)	Bleached, altered Monzodiorite					
110.7	124.5	Bleached Altered SHEAR/FAULT Zone ≈80% Altered MONZODIORITE ≈20% medium green MONZODIORITE (not as altered) (Same as 82.0-86.1)	SE-CL/P/7 Qtz-CB/FF/5	PY/D/<1% PY/FF/<1% Non Magnetic			
	(@110.8)	Shear Qtz-Carb. Veinlet 2.0cm	wide, with gouge	@ 20-25° to C.A.			
(113.2	114.7 &	(116.3 to 117.3) Qtz-Carb. Veinlets	@ 5° to C.A. ; irregular 1-2cm wide				
(118.8	119.0 &	(121.5 to 121.8) Weakly to Moderately Magnetic					
(122.0	124.5)	Kspar Moderately Pervasive	K/P/5				

HOLE NO. CH 90-16

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
124.5	158.2	MONZODIORITE	EP-K / FE / 4-5	PY / D / 1-2%		Non to Moderately Magnetic	
		medium green, green-grey (4.5-5-6)	CB-CH-HM / FF / 3	PY / FE / 1%		Locally strong Hydrothermal MT (overall < 1 to 1%)	
		50-60% fine gr. (1 to [illegible] mm) plag phenx		Trace CPY & Moly			
		10-20% Mafics, Augite (1 to 4 mm) + Biotite					
		Minor Volcanic & Intrusive fragments ⇒ subangular to subrounded					
	(@124.6)	Moly, trace CPY					
	(@124.9)	Chlorite/Carb. fracture fill @ 40° to C.A. tr. CPY					
(125.7	126.2)	Qtz/Carb Veinlet, 1-2 cm wide @ 10° to C.A.		5% PY; tr. CPY			
		Epidote/Kspar fracture envelope					
	(@127.3,	130.8, 131.3 & 132.2) Hydrothermal MT with PY and Epidote surrounding; Patchy (Pyritization of MT?)					
	(@130.4)	Volcanic (Anos) fragment: 2x2 cm subangular					
(134.8	135.6)	Bleached, Altered Monzodiorite					
(135.2	135.4)	Shear with gouge				SHR / 15°-20° / 3	
(141.7	144.4)	Strong Potassic Altered Monzodiorite	K / P / 7-9			White (Albite?) alteration spots, patches	
		with ~5% altered, subrounded frag	EP / P / 4				

DRILL HOLE NO. CH 90-16

HOLE NO. CH 90-16

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(145.2	146.2)	Increased KSPAR-EPID Alt. with PY/MT veinlets @ 30°-35° to C.A.	K-EP/P-FE/5-6				
	(@ 146.2)	PY-MT/FF/35° with 1% CPY	(1.0 cm wide veinlet)	+ EPID/KSPAR fracture envelope			
(147.8	148.8)		EP-K/FE/7 HM-CB/FF/4	PY/D-FF/5% 1% MT			
	(@ 149.7)	Fracture @ 20° to C.A. (0.5 cm wide) -	EPID-KSPAR Envelope	5% PY, tr. CPY			
	(@ 150.9)	Fracture @ 20° to C.A. (0.4 to 0.7 cm wide)	EP-CH/FE with	PY-MT/FF + CP		15% PY, 2% MT, 1% CPY	
(151.9	152.2)	PY-MT Vein (3.0 cm wide, hydrothermal)	PY after MT?	tr. CPY			
	(@ 153.7)	Fracture @ 35° to C.A. MT	EP-K/FE	½% CPY			
(154.8	156.3)	EP-K/P-FE/6-7 minor Chlorite-Carb.		5-10% PY; 1% CPY			
	(@ 157.7)	dig PY Frac. (3 mm wide)		¼% CPY			
158.2	EOH						

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DRILL HOLE NO. CH 90-16

DDH CH-90-16

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51463	16.5	18.	1.5	0.1	80	0.4								
464	18	20	2.0	0.5	90	0.2								
465	20	22	2.0	0.2	90	0.2								
466	22	24	2.0	0	55	0.9								
467	24	26	2.0	0	85	0.3								
468	26	28	2.0	0.1	100	0								
469	28	30	2.0	0.1	90	0.2								
470	30	32	2.0	0.1	95	0.1								
471	32	34	2.0	0	100	0								
472	34	36	2.0	0.1	100	0								
473	36	38	2.0	0.1	100	0								
474	38	40	2.0	0.1	100	0								
475	40	42	2.0	0.1	90	0.2								
476	42	44	2.0	0	95	0.1								
477	44	46	2.0	0	100	0								
478	46	48	2.0	0	100	0								
479	48	50	2.0	0.1	100	0								
480	50	52	2.0	0	95	0.1								
481	52	54	2.0	0	95	0.1								
482	54	56	2.0	0.1	100	0								
483	56	58	2.0	0	95	0.1								
484	58	60	2.0	0	100	0								
485	60	62	2.0	0	100	0								
486	62	64	2.0	0.1	95	0.1								
487	64	66	2.0	0	100	0								
488	66	68	2.0	0.1	95	0.1								

DRILL HOLE NO CH-90-16

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51489	68	70	20	0.1	95	0.1								
490	70	72	20	0.1	85	0.3								
491	72	74	20	0.1	80	0.4								
492	74	76	20	0	100	0								
493	76	78	20	0	90	0.2								
494	78	80	20	0.1	100	0								
495	80	82	20	0	100	0								
496	82	84	20	0	95	0.1								
497	84	86	20	0	95	0.1								
498	86	88	20	0.1	100	0								
499	88	90	20	0	100	0								
500	90	92	20	0	100	0								
51551	92	94	20	0.1	90	0.2								
552	94	96	20	0	95	0.1								
553	96	98	20	0	95	0.1								
554	98	100	20	0.1	95	0.1								
555	100	102	20	0.1	90	0.2								
556	102	104	2.0	0	90	0.2								
557	104	106	2.0	0	90	0.2								
558	106	108	20	0	95	0.1								
559	108	110	2.0	0	95	0.1								
560	110	112	20	0	95	0.1								
561	112	114	20	0	100	0								
562	114	116	2.0	0	100	0								
563	116	118	2.0	0	100	0								
564	118	120	20	0.3	100	0								

DRILL HOLE NO CH-90-16

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51565	120	122	2.0	0	90	0.2								
566	122	124	2.0	0	100	0								
567	124	126	2.0	0	100	0								
568	126	128	2.0	0.1	100	0								
569	128	130	2.0	0.6	100	0								
570	130	132	2.0	1.7	95	0.1								
571	132	134	2.0	2.5	90	0.2								
572	134	136	2.0	1.0	95	0.1								
573	136	138	2.0	0.6	100	0								
574	138	140	2.0	1.0	95	0.1								
575	140	142	2.0	0.5	95	0.1								
576	142	144	2.0	1.3	100	0								
577	144	146	2.0	0.5	90	0.2								
578	146	148	2.0	0.2	100	0								
579	148	150	2.0	0.7	100	0								
580	150	152	2.0	3.1	100	0								
581	152	154	2.0	0.7	95	0.1								
582	154	156	2.0	0.8	100	0								
583	156	158	2.2	1.3	95	0.1								
EOH														

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DRILL HOLE NO CH-90-16

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-17

UTM N: 6124417m
UTM E: 401530m
GRID N: 108+12
GRID E: 94+77

Elev.: 1435m
Depth: 155.1m
Azimuth: 270°
Dip: -46°

Metres (m)

0.0 - 20.4	CASING	
20.4 - 27.0	FAULT ZONE monzodiorite rubble, strong FeOx, mod. chlorite, 2% PY.	
27.0 - 45.7	ALTERNATING FAULT ZONE and MONZODIORITE mod. FeOx and k-spar , 2% PY, trace CP.	
45.7 - 66.4	MONZODIORITE and MZDIO. INTRUSIVE BRECCIA with MZDIO./LATITE FRAGS. mod. chlorite, k-spar and epidote , 3% PY, 0.1% CP, trace hydrothermal MT.	
66.4 - 78.3	FAULT ZONE 50% rubble and flour, 50% monzodiorite, minor sulfidic veins, moderate chlorite and k-spar , minor calcite and epidote, 2% PY, 0.25% CP.	
78.3 - 118.9	MONZODIORITE minor chlorite, k-spar and epidote, 6% PY, trace CP.	
118.9 - 125.6	FAULT ZONE in bleached monzodiorite, mod. chlorite, calcite and epidote, 2% PY, 0.5% hydrothermal MT.	
125.6 - 131.3	MONZODIORITE mod. chlorite, minor epidote and calcite. 3% PY, 3% MT.	
131.3 - 142.3	HYBRID ZONE monzodiorite with siltstone frags., mod. epidote and k-spar, minor chlorite. 5% PY, 1% hydrothermal MT.	
142.3 - 144.9	QUARTZ SYENITE minor chlorite and k-spar, 3% PY.	
144.9 - 150.5	MONZODIORITE mod. chlorite, minor calcite and k-spar, 4% PY.	
150.5 - 155.1	VOLCANICLASTIC SANDSTONE/SILTSTONE/CHERT mod. hornfels, minor chlorite, biotite and calcite	
155.1	E.O.H.	

HOLE NO. CH-90-17

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-46	270°	DATE STARTED:	July 4, 1990	PROJECT:	CHUCHI
		155.1	-42.5	270°	DATE COMPLETED:	July 6, 1990	N.T.S.:	92 N/07E
					COLLAR ELEV.:	1485m	LOCATION:	
					NORTHING:	6124417 N		108+12 N
					EASTING:	401530 E		94+77 E
					AZIMUTH:	270		
					DEPTH:	155.1m (508')	DATE LOGGED:	7 / July /90
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	CTB

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
20.4	45.7m	FAULT ZONE IN MONZODIORITE	A FeOx / FF / 5	A: PY / FF + D / 2%		FLT / BKN / 2-3	
		60% oxidized rock flour fault gouge	B K / FE / 3	B: CPY / FF / tr			
		and oxidized frags and rubble of altered	C. EP / FE / 2.				
		monzodiorite; 40% med-grained subporphyritic					
		monzodiorite; 60-70% plag, trachytic, 2-5%					
		mag 20% altered augite					
		20.4-27.0 Fault zone: with monzodiorite	A FeOx / FF / 7	A: PY / FF / 2		FLT / BKN - RUBBLE - ROCK FLOUR / 3	
		rubble and highly broken segments	B CH / D / 3				
		of core.					
		27.0-28.5 MZDIO: SI / 19 /	A. CH / D / 4	A: PY / D / 1%		FLT / BKN / 2	
			B. K / FE / 4.				
		28.5-33.0 MZDIO INTRUSIVE BRECCIA:	A: FeOx / FF / 4	A: PY / D / 3%		FLT / BKN / 2	Breccia frags w/ more sulfide than matrix
		SB, K alt. mzdio, FN mzdio frac, sub ang. -	B. K / FF / 4	B: CP / D / tr			
		sub rounded w/ 3% PY.					
		33.0-39.4 F.Z: w/ mzdio segments, as above	A: FeOx / D / 1 B. SI / FF / 2	A: PY / FF / 1%		FLT / BKN / 2	SHR / 30° / 2
		39.4-39.7 mzdio as above		A. PY / FF + D / 2% B. CP / FF / D 1%		FLT / BKN / 2	
		39.7-41.7 F.Z w/ mzdio frags as above	A: FeOx / D / 7	A PY / FF / 2%		FLT / BKN / 3	

DRILL HOLE NO. CH-90-17

HOLE NO. CH-90-17

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		42.7 - 45.7m mzdio 10% frags of	A. FeOx / FF / 5	A: PY / FF + D / 4%		multiple fractures at 5cm spacing / 20°, 30°, 50° / 3	
		Fmzdio	B. K / FE / 4				
			C. EP / FE / 3				
45.7	66.4	MONZODIORITE AND MONZODIORITE	A: CH / D / 4	A: PY / FF + D / 3%			
		INTRUSIVE BRECCIA: 10% med grain subporph	B. K / FE / 4	B: CPY / FF + D / 0.1%			
		plag augite mzdio, 30% intrusive breccia	C. EP + MT / FE / 3				
		with monzodiorite matrix and sub ang.					
		to sub rounded, fine grained to sub porph					
		mzdio and latite(?) fragments.					
		45.7 - 51.7m mzdio intrusive breccia med	A CH / DB / 4	A: PY / FF + D / 3%		Fractures / 10, 20, 30° / 3 Trachytic plag / 30-40° / 3	
		grained subporph. mzdio w/ fine grained	B. K + MT / FE / 3				
		trachytic mzdio frags up to 20cm	C. EP / FF / 2				
		51.7 - 52.2m Fault zone mzdio rubble	A: FeOx / FF + D / 7	A. PY / D / 2%		FLT / BKN / 3	
			B. CB / FF / 3				
		52.2 - 56.8m Monzonite: med grain	A: K / FE / 7	A PY / FF / 6%		Fracture (10, 20, 60°) / 3	pyrite massive along 1cm
		mz and mzdio w/ 5% subrounded latite	B: CH / D / 3			2-6 cm spacing, numerous	thick fracs ave 10cm
		frags: not mag.	C: EP / FF / 4				
		56.8 - 66.4m Mzdio. as above	A: EP / FF / 4	A: PY /		CPY in 6cm thick qtz-KFs vein at 70° to CA	
			B: K / FE / 5	B: PY / FF / 1%		at 61.5m	
			C. BI / FF / 3	C: CP / V / 1.0% / 6cm			

DRILL HOLE NO. CH-90-17

HOLE NO. CH-90-17

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		61.9-62.2 Fault, with rounded rubble of medio	A: CH/FF/2	A: PY/FF/2%		FLT/30°/2	
66.4	78.3	FAULT ZONE in altered monzonite: 50% medio rubble + bleo frags in FZ; 50% Medio med grain. not mag. altered, fractured	A: CH/FF+D/5 B: K/FE+D/5 C: CA/FF+DE/4 D: BL/D/5 E: EP/FF+DE/2	A PY/FF+D/2 B: CPY/V/5% over 40cm C. MT/FF/1	↓	FLT/BKN /3; Frags /10° 20° 30° 70°/3	
		66.4-67.0 F.Z. medio rubble	A: CA/FF/5	PY/FF+D/1%		FLT/BKN/3	
		67.0-67.7 medio strongly altered.	A: CH/D/2 B: EP/FF/2 C: CA/FF/1	A. PY/FF+D/4%		multiple fractures in all directions, < 1cm to 5cm spacing; thinner ones of cc + PY, > 1mm thick of EP + PY.	
		67.7-68.3 F.Z. medio rubble as above					
		68.3-70.6 medio as above non magnetic				One Fracture/25°/3 w/ chl, cc, qt, 2cm thick at 68.5m	
		70.6-71.1 F.Z. highly fractured and veined, altered medio	A: BL/D/3 B: K/D/2 C: CH/FF/4	A: PY/FF+D/4% B: CPY/FF+D/0.1%		stockwork fracturing 1cm spacing random orientation	
		71.1-71.5 F.Z. with massive sulfide: PY CPY and MT ~70% alter. and frag medio 35%	A: CH/FF+D/5 B: BL/FF+D/4 C: CA/FF/2	A: PY/massive/55% B: CPY/FF+D/5% C: MT/FF/10% -		Highly Fractured VCT/40°/1 LCT/not clear. sulfides fine grained.	
		71.5-73.1 F.Z. highly altered medio with cc, qt + KFs veinlets	A: CH/D/2 B: CA/FF/5	A: PY/FF+D/3% B: CPY/D/0.1%		5, 10, 30, 40°	

DRILL HOLE NO. CH-90-17

HOLE NO. CH-90-17

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		73.1-74.4 mzdio; med-fine grained. highly altered, not magnetic	A CH/D/5 B: CA/FF/3	A: PY /FF+D/3%		Fractures <1mm thick many orientations with calcite + Py.	
		74.4-76.3 FZ altered mzdio rubble.	as above.				
		76.3-79.3 Mzdio: med grained, altered. mafic chloritic.	A: CH /FF+D/5.	A: PY/FF+D /4% B: CPY /D/0.2%.			
79.3	118.9	MONZODIORITE, med grained sub-porph equigranular, locally trachytic, slt-mod magnetic, moderately altered - typical propylitic alteration; + chlorite pyrite minor epidote, calcite.	A CH/D/4 B. EP+CA/FF+D/B/2 C K/FF/2	A. PY /FF+D /5-8% B: CPY /D / tr.		Hairline Fractures w/ cc, EP, PY, KFs / 30+60, 70° /3	
		78.3-83 Monzdio as above augite phenos up to 0.1cm.	A: CH/FF+D/5 B. EP/FF+D/B/5 C: CA/FF/2.	A: PY /FF+D /5%			
		83.0-83.9 Veins PY+MT 2cm thick.				V / 60°, 70° /3	
		86.0-100.3 Mzdio as above more disseminated pyrite.	as above	A. PY / FF+D / 7%		Fracture in many orientations - most predom at 40° 60° 70° PY 8% 91.0 - 92.8m 97.5 - 99.4m - 8-10%	
		90.9 Vein, PY+EP, 2cm thick.				V / 50% /3	
		100.3-100.4 Vein Calcite, epidote + hematite stained, as rubble, calcite openspace fill.	A: EP/V/7 B Hem /V/3	A: PY /V/2%		V / BKN / 0	

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DRILL HOLE NO. CH-90-17

HOLE NO. CH-90-17

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc)	Mineralization, type, age, relations
		100.4 - 112.9 Mzdio as above prop alt'n	A: CH/D/4	A: PY/FF+D/.5%			
			B: K+EP/FF+IF/3	B: CPY/D/tr			
			C: CC/FF/2				
		101.5 vein PY+EP 2 cm				V/155°/3	
		112.9 - 118.9 Mzdio as above w/ strong K+EP Altn total loss of primary igneous texture 116.0 - 118.9 m	A: CH/D/5	A: PY/FF+D/7%			
			B: EP+K/FF+DB/5				
113.9	125.6	FAULT ZONE in bleached mzdio. (60) Fault zone: Altered mzdio rubble + qtz - calcite - veins, 40% mzdio. med grained - sub porph. Augite phenocrysts to 0.7 cm; mod - strong alteration; slightly magnetic	A: CH/D/5	A: PY/FF+D/2%		FLT/BKN/0; numerous fractures in many orientations 60° - 80° prominent - CC-BXH fractures cut pg fault	
			B: BL/FF+D/5	B: MT/FF+D/0.5%			
			C: CC/FF/4				
		118.9 - 119.6 FZ rubble - altered mzdio + 119.4 - 119.6 vein qt. and Kfs + cc	A: BL/D/8	A: PY/FF+D/1		FLT/BKN/0	
			B: SER/D/3			V/75°/3	
			C: FeOx/FF/2				
		119.6 - 121.8 mzdio, medium grained to subporph, strong alteration ->	A: BL/FF+D/7	A: PY/FF+D/3%			
			B: CA/DB/3				
		121.8 - 125.6 FZ: Altered mzdio + rock flour healed by cream white k spar + calcite	A: BL/FF+D/8	A: PY/FF/4%			
			B: CH/FF+D/4	B: MT/FF/0.3%			
			C: K/FF/3				

DRILL HOLE NO. CH-90-17

HOLE NO. CH-90-17

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		123.8-124.2 Vein-breccia: qtz-kspar calcite + hydro fractured, sheared altered medio.	A: K/D/7 B: BL/D/4	A: PY/FF+D/4% B: MT/FF/0.3%		V/75°-80°/3	
		125.6-131.3 Medio. as above, mod altered, mod mag + medio rubble	A: CH/D/4 B: EP/FF+DB/2 C: K/D/1	A: PY/FF+D 13% B: MT/FF+D/3%		Fractures at 60°/CA; dk green more chlorite than most other alt medio.	
		126.9 Pyrite vein 1cm thick		A: PY/FF/50% B: MT/FF/3%.		V/25°/3	
		127.7-130.1 vein chlorite + pyrite 1cm thick	A: CH/FF/4 B: CC/FF/2.	A: PY/FF/5%		V/105°/3	
		130.5-131.3 rubble alt medio, as above				FLT/BKN/0.	
131.3	142.3	HYBRID ZONE Medio. + Siltstone fragments (allochastic breccia) siltstone fragments up to 30cm angular, volcanoclastic silt-chert. Medio mod magnetic	A: EP/DB+FF/5 B: K/FF+D/4 C: CH/D/2	A: PY/FF+D/5% B: MT/FF+D/1%			
		131.3-133.7m Medio mod green-gst. magnetic with sparse bubble (1st selected hole)	A: CH/D/5	A: PY/D/4%		Fractures at 30° to C.A.	
		133.7-136.0 Hybrid zone rubble of medio + siltstone.	A: K/D/2 B: EP/FF+DB/5	A: PY/FF+D/3% B: MT/FF/0.3% C: CP/D/0.1%.		FLT/BKN/0	

DRILL HOLE NO. CH-90-17

HOLE NO. CH-90-17

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		136.0-142.3 HYBRID ZONE: Predominantly volcaniclastic siltstones (30%) with enclosed med-grain monzo. siltstone as angular frags from 3cm to 30cm hornfelsed near lower contact.	A. CH / D / 5 B: EP / FF + DB / 2 C: HFL / D / 2	A. PY / FF + D / 3% B: MT / FF / 0.3% C: CP / D / 0.1%		Monzo - sts contact at 45°	Sulfides in monzodiorite coarse grained sts
142.3	144.9	Qtz SYENITE: PINK. Fine to med grained, equigranular quartz syenite w/ 75% Kspar, 12% Chlorite (alt. biotite), 3% quartz + 3% sulfides. Fine grained margins + 0.5-4cm thick veinlets within 20cm of contact; one with 4% biotite	A CH / D / 2 B: K / D / 1	A: PY / D / 3%		LCT / 60° / 3 UCT / 70° / 3	
144.9	150.5	MONZODIORITE SUB-PORPH. with elongate augite in trachytic texture	A: CA / D / 5 B: CC / FF / 2 C: K / FF / 2	A: PY / FF + D / 4%		Trachytic texture 40°-60° to CA. Hairline Fracture w/ calcite LCT / ALT / 0	
150.5	155.1	Volcaniclastic sandstone/siltstone, chert, well bedded.	A: HE / D / 5 B: CH / D / 2 C: CA / FF / 1 D: DT / FF / 2	A. PY / FF + D / 4%		hairline fractures in many orientation with calcite Bedding at 20°, 40° to CA.	
	155.1	EOH.					

DRILL HOLE NO. CH-90-17

CH-90-17

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
51584	20.4	22.0	1.6	2.0	88	0.6								
585	22.0	24	2.0	1.3	60	0.8								
586	24	26	2.0	1.3	35	1.3								
587	26	28	2.0	1.0	50	1.0								
588	28	30	2.0	1.0	65	1.7								
589	30	32	2.0	1.7	75	0.5								
590	32	34	2.0	2.0	55	0.9								
591	34	36	2.0	2.3	55	0.9								
592	36	38	2.0	0.6	45	1.1								
593	38	40	2.0	0.1	75	0.5								
594	40	42	2.0	0.2	60	0.6								
595	42	44	2.0	0.4	90	0.4								
596	44	46	2.0	0.7	90	0.2								
597	46	48	2.0	0.3	90	0.2								
598	48	50	2.0	0.5	95	0.1								
599	50	52	2.0	0.3	100	0								
600	52	54	2.0	0.2	95	0.1								
601	54	56	2.0	0.2	75	0.5								
602	56	58	2.0	0.7	100	0								
603	58	60	2.0	0.3	80	0.4								
604	60	62	2.0	0	90	0.2								
605	62	64	2.0	0.1	95	0.1								
606	64	66	2.0	0.2	100	0								
607	66	68	2.0	0.1	80	0.4								
608	68	70	2.0	0.1	85	0.3								
609	70	72	2.0	0	90	0.2								

DRILL HOLE NO CH-90-17

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51610	72	74	2.0	0.2	90	0.2								
611	74	76	2.0	0.1	90	0.4								
612	76	78	2.0	0	100	0								
613	78	80	2.0	0	75	0.5								
614	80	82	2.0	0.1	95	0.1								
615	82	84	2.0	0	100	0								
616	84	86	2.0	0.6	90	0.2								
617	86	88	2.0	18	80	0.4								
618	88	90	2.0	23	80	0.4								
619	90	92	2.0	1.2	95	0.1								
620	92	94	2.0	0.6	90	0.2								
621	94	96	2.0	0.4	75	0.5								
622	96	98	20	0.7	100	0								
623	98	100	2.0	0.9	90	0.2								
624	100	102	2.0	0.9	80	0.4								
625	102	104	2.0	05	85	0.3								
626	104	106	2.0	19	90	0.2								
627	106	108	2.0	1.0	85	0.3								
628	108	110	2.0	0.7	85	0.3								
629	110	112	2.0	2.2	100	0								
630	112	114	2.0	4.4	85	0.3								
631	114	116	2.0	29	100	0								
632	116	118	2.0	44	100	0								
633	118	120	2.0	18	70	0.6								
634	120	122	2.0	0.7	90	0.2								
635	122	124	2.0	0.7	100	0.								

DRILL HOLE NO CH-90-17.

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51636	124	126	2.0	0.7	80	0.4								
637	126	128	2.0	0.2	90	0.2								
638	128	130	2.0	0.7	100	0								
639	130	132	2.0	0.5	55	0.9								
640	132	134	2.0	1.6	90	0.2								
641	134	136	2.0	1.8	75	0.5								
642	136	138	2.0	5.2	80	0.4								
643	138	140	2.0	4.8	100	0								
644	140	142	2.0	0.4	100	0								
645	142	144	2.0	0.1	80	0.4								
646	144	146	2.0	1.7	85	0.3								
647	146	148	2.0	2.2	100	0								
648	148	150	2.0	1.5	90	0.2								
649	150	152	2.0	0.6	85	0.3								
650	152	154	2.0	0.1	85	0.3.								
651	154	155.1	1.1	0.3	91	0.1								
EOH														

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DRILL HOLE NO. CH-90-17.

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-18

UTM N: 6124075m
UTM E: 401900m
GRID N: 112+50
GRID E: 98+60

Elev.: 1327m
Depth: 155.1m
Azimuth: 269°
Dip: -45.5°

Metres (m)

0.0 - 3.7	CASING	
3.7 - 78.7	MONZODIORITE mod. chlorite, weak k-spar, epidote, calcite and FeOx, 3% PY, 0.1% CP (~0.1% Cu).	
78.7 - 80.7	LATITE PORPHYRY DYKE minor epidote.	
80.7 - 82.4	MONZODIORITE mod. k-spar and epidote, 2% PY.	
82.4 - 82.9	LATITE PORPHYRY DYKE as above.	
82.9 - 155.1	MONZODIORITE to MONZONITE mod. chlorite, minor k-spar, epidote and calcite, 2-4% PY, trace-0.15% CP, trace MT.	
155.1	E.O.H.	

BP

HOLE NO. CH-90-18

DRILLING CO	OLYMPIC DRILLING
HOLE TYPE	DDH
LOCATION SKETCH	N

TESTS: DEPTH	DIP ANGLE	AZIMUTH
COLLAR	-45.5°	269
155.1m	-43.0°	269

DATE STARTED:	July 6 1990
DATE COMPLETED:	July 8 1990
COLLAR ELEV.:	1527 (m)
NORTHING:	6124875 N
EASTING:	401900
AZIMUTH:	269
DEPTH:	155.1 m (509 ft)
CORE SIZE:	NQ

PROJECT:	CHUCHI
N.T.S.:	93 N /7E
LOCATION:	112 + 50 N 98 + 60 E
DATE LOGGED:	July 9 1990
LOGGED BY:	CTB.

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
3.7	78.7	MONZODIORITE: medium-grained	A: CH/D/4	A: PY/FF+D/3%		Significant fracturing spaced at 10-15m intervals, minor fracturing with	
		to subporphyritic, plagioclase (60-70%)	B. K+EP/FF, FE+DB/3	B: CPY/D/Tr; see V		K and EP alteration common, no apparent orientation.	
		augite (20%) magnetite (1-5%)	C: BL/FF/2	C: Mal/FF/Tr intersected			
		monzodiorite with biotite (0-2%) and	D: CA/FF/1	at 93.1m			
		K-spar (10-30%) and sulfides (0-10%)	E: FeOx/FF/1				
		variable, generally moderately magnetic					
		less so near fractures and minor fault					
		zones with moderate alteration. Angular					
		fragments of fine grained monzodiorite					
		or latite locally (sparse); generally					
		homogeneous.					
		Trachytic 50% random 50%					
						Fractures/bla or random/ [illegible] at	Pyrite originally 5-10%, now oxidized
		3.7 - 47.7m Highly Fractured MZDIO	A: FeOx/FF+D/5	A: PY/FF+D/1%		55°, 3cm spacing	malachite? shown by green-blue colour in
		w/ 50% rubble, 50% 5-10cm	B: BL/FF/4	B. MnO₂/FF/Tr			drilling mud along several fractures.
		Segments. Biotite disseminated	C: K+EP/FF+DB/3	C. MAL/FF/Tr →			Bleaching = calcite sericite and
		fine grained 0.5%					clay.

DRILL HOLE NO. CH-90-18.

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		42.7-79.7m Monzodiorite; 1-3% biotite, trachytic, intervals w/ minor to moderate	A: CH/D/4	A: PY/FF+D/3-5%		Numerous fractures /40°-60°, other orientations /2 Frac. w/ bleaching	
		alteration sulfides.	B: K+EP/FE+DB/3	B MnO₂/FF/tr		cut K+EP fractures. 3 generation of fractures. Spacing	
			C: BL/FF/3	C: CPY/FF/tr		average 5-10cm - Fine grained biotite increases 1-3% with	
			D CA/FF/2			depth.	
		44.3-44.6m →	A: BL/FF/6				
		44.7-48.0m →	→	A: PY/FF/5% →		Hairline traces 5cm spacing /30° /3.	
		50.5-50.6m →	A: K+EP/FE/5	A: PY/FF/3%			
				B: CPY/FF/0.3%			
		52.1-52.2m →	A: K+EP/FE/6	A: PY/FF/4%			
		53.7-53.8m →	A: K+EP/FE/4	A: PY/FF/3% B MT/FF/3%	C: CM/FF/0.1%	! Hairline fracture /30°/3; with minor hydrothermal magnetite	
		54.8-54.9m →		A: PY/FF/8%		Fracture 0.5cm thick 100% Pyrite /20°/3	
		56.7-56.9m →	A: K+EP/FF+FE/4	A: PY/FF/5%		Fracture at 3cm spacing /35°/3.	
		58.0-58.2m →	A: K+EP+BT/FE+FF/7	A: PY/FF/3%		Fracture /35° /2	
		62.5-62.6m →	A: FeOx K.CA./FE/7	A: PY/FF/3%			
		64.0-66.8m 50% Mzdo rubble	A: FeOx/FF/5	A: PY/FF+D/5%		Fractures and rubble w/ iron staining on fracture surfaces	
				B: CPY/DF/0.1%			
		66.9-66.9m →	A: FeCA/FF/7	A: MAL/FF/0.5%			
			B: K+EP/FF/5	B: MnO₂/FF/tr			
		72.0-72.3 →	A: EP/FE/7	A: PY/FF/5%		Fracture lumin /15°/3	
			B: CC/FE/4	B CPY/FF/0.5%			

HOLE NO. CH-90-18

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc)	Mineralization, type, age, relations
		73.5 - 73.7m →	A: EP / DB / 7				
		77.0 m →	A: EP + ACT / FF / 6	A: CPY / FF / 1.5%		Actinolite with epidote assoc w/ epy	
78.7	80.7m	LATITE PORPHYRY DIKE	A: EP / FF / 2	A: PY / FF / 0.4%		LCT / 40 / 3 VLT / 75 / 3	
		30% augite phenocrysts, equant, 20% plag				Pyrite + fracture adjacent to contact, or at contact	
		phenocrysts, tabular, both 0.5-0.8cm, in aphanitic				probably in cracks	
		groundmass. Relatively fresh with fractures at					
		margins →					
80.7	82.4m	MONZODIORITE, as above	A: K+EP / D / 6	A: PY / D / 2%			
82.4	82.9m	LATITE PORPHYRY DIKE as above				LCT / 30 / 3 VLT / 75 / 3	
						Pyrite + CPY concentrated down section. From dike	
82.9	151.3m	MONZODIORITE as above, 2-3+%				w/ CPY in CC v'lets	
		Biotite, increasing down section, phenocrysts					
EOH		to megacrysts					
		84.0 - 84.1m Quartz vein	A: CA / V / 4	A: CPY / V / 1%		V / 65 / 3 4cm wide; 4 v'lets 2cm each side at 15cm	
				B: PY / V / 2%		spacing also w/ CPY	
		85.0 - 85.4m →	A: K / D / 7	A: PY / D+FF / 5%			
			B: CC / FF / 3	B: CPY / D / 0.2%			
		86.7 - 87.0m →	A: K+EP / DB / 6	A: PY / FF / 10%			
				B: CPY / FF / 1%			
				C: MT / FF / 3%			
		87.4 - 87.8m →	A: K+EP / FF / 6	A: PY / FF / 5%			
				B: CPY / FF / 0.5%			

DRILL HOLE NO. CH-90-18

HOLE NO. SH-90-18.

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		MONZODIORITE, CONT.					
		89.7m →	A: BI+EP/DB/5	A: PY/FF+D/5%			
				B CPY/D/0.1%			
		90.0-91.3m →	A K+EP/D/7	A PY/D/4%		Alteration texture destructive	
		91.3-91.35m sulfide vein, 1cm thick	A: CC/FF/5	A PY/massive/60%		V/55°/3	
			B. BT/FF/5	B CPY/massive/15%			
		91.7m sulfide vein 0.5cm thick		A. PY/FF/60%		V/75°/3	Slightly more bimodal grain
							size; more porphyritic with
		92.6m sulfide vein 0.2cm thick	A K/FE/5	A. PY/FF/5%		V/55/3	depth; matrix more variable in
				B CPY/FF/0.5%			grainsize
		95.9-96.2m →	A BL/DB/5	A: PY/D/5%			
			B: K+EP/DB/4	B: CP/D/0.3%			Biotite 4%+ megacrystic
							Bio from 111.0 sporadically
		96.2-102.0m 4-5% Biotite, locally megacryst		A: PY/D/7%			to EOH.
				B. CPY/D/0.2%			
		102.4-102.5m rubble				FLT/RKN/1	Complimentary relationship between
							CPY dssm. + in fracture fracs. at
		103.1-103.4m →	A. K+EP/FE/6	A: PY/FF/4%		Frac/35°/2	0.1% level. If in matrix few
			B Felx/FF/4	B: CPY/FF/0.1%			frac; if in frac not in
							matrix → minor local redistrib of
		104.7-104.75m →	A: BT/DB/8	-			CPY along minor "healed" fractures
			B: ACT+CH/DB/6				dssm. CPY at megacrystic biotite.

DRILL HOLE NO. SH-90-18

HOLE NO. CH - 90 - 18

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		MONZODIORITE, CONT.				-trachytic plag / 50° / 2	
		trachytic					
		108.0 - 108.5m →	A K+EP / FE / 5	A: PY / FF / 10%		Frac / 65 / 2	
			B: CA / FF / 4	B: CPY / FE+FF / 1.0%			
			C: CH / DB / 3	C: MT / FF / 2%		HYDROT. MT	
		108.5 - 110.6m →	A: K+EP / FE / 4	A: PY / D / 4%			
			B: BL / FF / 4	B: CPY / D / 0.1%		matrix generally w/out CPY	
		112.2 - 112.4m →	A: K+EP / FE / 5	A: PY / FF / 7%		Frac / 50 / 3	
				B: CPY / FF / 0.2%			
		114.5 - 114.9m →	A: BL / FF / 6	A: PY / FF / 8%		Frac / 55 / 3	
			B: EP / FE / 3	B: CPY / FF / 0.2%			
				C: MT / FF / 1%		Hydrot. MT	
		116.9 - 133.0m monzonite, subporphyritic 3%	A: BL / FF / 4	A: PY / D+FF / 2%		Frac / 05, 30, 40, 75 / 2-3	
		biotite, sparsely biotite megacrystic	B: K+EP / FE+DB / 4	B: CPY / D+FF / 0.1%			
		increasingly sulfur-poor down hole.	C: CH / D / 3				
		133.0 - 137.2m "	A: CH / D / 4	A: PY / D+FF / 2%		Relatively sulfur poor	
			B: EP / FE+DB / 4	B CPY / D+FF / Tr.			
			C: CA / FF / 4				
		137.2 - 137.3m Qtz-carbonate vein.	A: CC / FF / 6	A: CPY / FF / 0.3%		Qv / 60° / 2	
			B: CH / FF / 4				

DRILL HOLE NO. CH-90-18

HOLE NO. CH-90-18

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		MONZODIORITE, CONT.					
		137.3 - 141.5 as above 3% Biotite →	A: CH / D / 4	A: PY / FF / 2%		Fracture / 20°, 60°, 70° / 3 sulfur poor	
			B: EP / FE / 4				
			C: CA / FF / 2				
		141.5 - 155.1 Monzodiorite, trachytic with sparse megacrystic biotite, sulfur poor moderate - strongly magnetic					
		148.3 →	A: K+EP / FE / 4	A: PY / FF / 5%		Frac / 80° / 3	
		148.3 - 148.7 →		A: MT / FF / 1%		Frac / 30 - 50° / 3 Hydrothermal MT	
		150.9 - 151.3 →	A: K / FF / 7	A: PY / FF / 4%		Healed Fracture zone / 30° / 3	
			B: CA / FF / 3				
			C: BT + CH / FF / 2				
		152.3 - 152.4 →	A: EP / FE / 5	A: PY / FF / 3%		Frac / 70 / 3	
			C: CA / FF / 3				
		154.4 Inclusion Biotilized pyroxenite subangular, > 15cm across, no sulfide strongly magnetic alkaline ultramafic inclusion					
		155.1 EOH					

 DRILL HOLE NO. CH-90-18

CH-90-18

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
51652	3.7	6.0	2.3	1.8	52	1.1								
653	6	8	2.0	1.7	70	0.6								
654	8	10	2.0	1.6	95	0.1								
655	10	12	2.0	1.8	70	0.6								
656	12	14	2.0	3.0	95	0.1								
657	14	16	2.0	2.0	80	0.4								
658	16	18	2.0	1.9	75	0.5								
659	18	20	2.0	2.3	90	0.2								
660	20	22	2.0	2.1	85	0.3								
661	22	24	2.0	2.0	80	0.4								
662	24	26	2.0	1.9	90	0.2								
663	26	28	2.0	2.8	85	0.3								
664	28	30	2.0	2.0	80	0.4								
665	30	32	2.0	1.8	70	0.6								
666	32	34	2.0	2.8	90	0.2								
667	34	36	2.0	2.6	65	0.7								
668	36	38	2.0	2.9	80	0.4								
669	38	40	2.0	1.8	90	0.2								
670	40	42	2.0	2.4	75	0.5								
671	42	44	2.0	1.9	75	0.5								
672	44	46	2.0	2.3	95	0.1								
673	46	48	2.0	2.0	100	0								
674	48	50	2.0	2.4	90	0.2								
675	50	52	2.0	3.2	95	0.1								
676	52	54	2.0	3.4	95	0.1								
677	54	56	2.0	3.6	95	0.1								

DRILL HOLE NO CH-90-18

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
51678	56	58	2.0	3.2	100	0								
679	58	60	20	4.1	95	0.1								
680	60	62	20	44	100	0								
681	62	64	20	37	95	0.1								
682	64	66	20	30	85	0.3								
683	66	68	20	42	95	0.1								
684	68	70	20	2.0	100	0								
685	70	72	20	20	95	0.1								
686	72	74	2.0	1.7	100	0								
687	74	76	2.0	43	85	0.3								
688	76	78	2.0	30	90	0.2								
689	78	80	2.0	2.6	95	0.1								
690	80	82	2.0	1.7	90	0.2								
691	82	84	2.0	1.2	100	0								
692	84	86	2.0	0.9	95	0.1								
693	86	88	2.0	0.4	95	0.1								
694	88	90	2.0	0.1	100	0								
695	90	92	2.0	0.1	90	0.2								
696	92	94	2.0	0	90	0.2								
697	94	96	2.0	0.1	95	0.1								
698	96	98	2.0	0.3	100	0								
699	98	100	2.0	0.8	95	0.1								
700	100	102	2.0	0.3	95	0.1								
701	102	104	2.0	0.1	90	0.2								
702	104	106	2.0	0.1	90	0.2								
703	106	108	2.0	2.2	90	0.2								

DRILL HOLE NO CH-90-18

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51704	108	110	2.0	1.7	90	0.2								
705	110	112	2.0	3.7	95	0.1								
706	112	114	2.0	4.2	95	0.1								
707	114	116	2.0	4.7	90	0.2								
708	116	118	2.0	5.7	100	0								
709	118	120	2.0	4.5	95	0.1								
710	120	122	2.0	2.9	90	0.2								
711	122	124	2.0	2.0	100	0								
712	124	126	2.0	1.7	90	0.2								
713	126	128	2.0	3.5	85	0.3								
714	128	130	2.0	4.9	100	0								
715	130	132	2.0	2.5	95	0.1								
716	132	134	2.0	3.1	95	0.1								
717	134	136	2.0	4.0	95	0.1								
718	136	138	2.0	4.7	95	0.1								
719	138	140	2.0	5.0	100	0								
720	140	142	2.0	5.4	100	0								
721	142	144	2.0	4.4	100	0								
722	144	146	2.0	4.8	100	0								
723	146	148	2.0	4.6	100	0								
724	148	150	2.0	3.4	100	0								
725	150	152	2.0	3.4	95	0.1								
726	152	154	2.0	6.0	95	0.1								
727	154	155.1	2.0	7.0	100	0								

DRILL HOLE NO CH-90-18

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-19

UTM N: 6124855m
UTM E: 401610m
GRID N: 112+40
GRID E: 95+75

Elev.: 1565m
Depth: 152.7m
Azimuth: 270°
Dip: -43.5°

Metres (m)

0.0 - 6.1 CASING

6.1 - 146.5 MONZODIORITE - SILTSTONE HYBRID ZONE
weak to mod. chlorite and epidote (locally strong), weak k-spar and carb., 3-5% PY, locally weakly magnetic.

23.6-32.8: trace CP
39.1-53.3: 5-9% PY
56.9-73.9: 5-7% PY
76.9-83.9: 10-15% PY

146.5 - 152.7 MONZODIORITE INTRUSION BRECCIA
heterolithic but predom. plag. porph. monzonite/monzodiorite, mod. k-spar, weak to mod. chlorite and epidote, 3% PY.

152.7 E.O.H.

HOLE NO CH 90-19

DRILLING CO	OLYMPIC
HOLE TYPE	DDH
LOCATION SKETCH	N

DEPTH	TESTS DIP ANGLE	AZIMUTH
COLLAR	-45.5°	270°
152.7m	-44.5°	270°

DATE STARTED:	08/07/90
DATE COMPLETED:	10/07/90
COLLAR ELEV.:	1565 m
NORTHING:	6124855 N
EASTING:	401610 E
AZIMUTH:	270°
DEPTH:	152.7m (501 ft.)
CORE SIZE:	NQ

PROJECT:	CHUCHI LK.
N.T.S.:	93N/7E
LOCATION:	Grid Coords: 112+40 N 95+75 E
DATE LOGGED:	11/07/90
LOGGED BY:	DRB

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	6.1	CASING					
6.1	28.6	SILTSTONE (80-85%) minor SANDSTONE INTERBEDS (10-15%) + MONZODIORITE SILLS (3-5%) light to medium green-grey (65-3.5) minor reddish brown beds	HF/P/5-6 CB-EP-K/FE/1-2	PY/D/3% Non Magnetic	10-12/m @ 50° & 75-80° to C.A.	moderate to strongly oxidized (Fe Stained, Rusty) fracture surfaces. Overall: 3% dissem. PY (dissem. along bedding). PY is predominantly in the silty to sandy beds (3-5% PY) and is generally trace to absent in the very fine grained to silty beds (0-1%).	
	(@ 26.7)					BD/75°/3	
(10.0	12.5)	SHEAR/FAULT ZONE: blocky, bleached, Fe Stained, Oxidized Pitted Siltstone/Sandstone,	rubbly & gravel weathered out Pyrite	(11.6-11.9)			

HOLE NO CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@12.8)					BD/75°/3	
	(@14.3)					BD/30°/3	
(14.0	14.3)	SHEAR/FAULT ZONE: broken,	gravel & rubble;	Strongly Oxidized			
	(@15.0)					BD/85°/3	
	(@15.9)					BD/85°/3	
	(@18.7)					BD/85°/3	
	(@20.0)					BD/80°/3	
(21.1	22.1)	MONZONITE - MONZODIORITE (Sill/Dyke)		PY/D/5%		UCT/70°/1	
		60-70% (<1 to 1mm; Eq, Ta)				LCT/65°/3	
		plagioclase phenos in fine gr. to aphanitic					
		light grey groundmass (GS=2-3)					
	(@22.7)					BD/70°/3	
	(@25.8)					BD/80°/3	
	(@28.0)					BD/55°/3	
28.6	32.8	MONZONITE - MONZODIORITE (SILL)	A) EP-K/FE/2	A) PY/FF/2%	8-15/m	UCT/30-35°/3	
		leucocratic, light grey-green (GS=2-3)	B) CH/D-FF/2-3	B) PY/D/1-2%	40-45° LCA	LCT/60°/3	
		60-70% (<1 to 2mm) Eq, Ta, plag phenos		C) CPY/FF/tr.			
		with light pink grey Kspar surrounding plagioclase phenos				Oxidized, Fe Stained, fracture surfaces	
		<2% mafics (Biotite + Augite?)	Chloritized			Minor Carbonate, fracture fill	

HOLE NO CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@29.3)	PY Veinlet (0.5-1.0 cm wide)	@ 20° to C.A.				
	(@31.2)	PY Veinlet (0.5-1.0cm wide)	@20° to C.A.				
	(@31.7	PY-CH fracture fill (0.2cm wide)	@ 20° to C.A.	½% CPY in PY-Chlorite Patch			
32.8	39.1	SILTSTONE + minor SANDSTONE INTERBEDS (10-15%) light to medium greengrey (cs-3-4) and medium red-brown (cs-5-6) increasing to lower contact	HF/P/6-7 EP-K-CH/FE/1-2	PY/D/1-3%		LCT/60°/2 wavy Pyrite dissem. (along bedding) predominantly in sandy interbeds. Weak-Moderate Oxidized fracture surfaces	
	(@33.2)					BD/80°/3	
	(@33.7)					BD/65°/3	
(34.0	34.5)	FAULT: Healed Breccia, Oxidized Pitted, boxwork Pyrite; Bleached & Strongly Altered					
	(@34.7)					BD/75°/3	
	(@36.3)					BD/80°/3	
	(@38.1)					BD/75°/3	
	(@38.5)					BD/80°/3	

DRILL HOLE NO CH 90-19

HOLE NO. CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
39.1	53.3	MONZODIORITE (to MONZONITE) subporphyritic + minor (≤5%) Volcanic (ANDS), Intrusive & Siltstone Frags. subrounded; leucocratic light green-grey (GS = 3-4) 50-20% plagioclase phenos (<1 to 1mm; Tu, La; 5% up to 3-4mm) <5-10% Mafics (Aug & + Biotite)	A) EP-CH/P/4	A) PY/D/5-7% B) PY/EF/1-2% C) MT/FF/tr.		∠CT/65°/2 Potassic Alt., wavy lower contact locally 1-2% hydrothermal fracture fill with PY	
	(@40.7)	PY-CH-MT/FF/15° to C.A. (0.3-0.5 cm wide)		PY-MT/FF/5		Hydrothermal	
	(@41.2)	4x5cm subangular Monzodiorite Frag.; fine grained					
	(@44.5)	5x6cm subrounded ANDS Frag (fine gr. Monzodi?) 5-8% fine dissem. PY					
(47.8	52.3)	5% Volcanic (ANDS) Fragments: (<1 up to 5 cm diameter) dark green-black, fine gr. to aphanitic, subrounded frags.					
	(@52.8)	PY Veinlet (0.5cm wide) @ 15° to C.A. 1.0cm wide EPID Alt. envelope.					

HOLE NO. CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
53.3	56.9	SILTSTONE	HF/P/7-8	PY/D/1-3%		∠CT/25°/3 (intrusive dyke contact disrupts bedding)	
		light green-grey-brown (GS-2-3)	EP/FE/2			PY dissem. predom. along silty/sandy beds	
		minor red-brown colour	K/P-FE/2			Potassic alt. predom. at upper contact, pervasive over 10 cm	
(53.5	55.2)	Well bedded Siltstone				BD/70°/3	
	(@ 56.6)					BD/65°/2	
56.9	73.9	MONZONITE (to MONZODIORITE)	EP-K-CH/P/5	PY/D/3-7%	6-10/m @	∠CT/75°/3 (conformable contact with siltstone)	
		light to medium green-pink-grey	CB/FF/3	PY/FF/1-2%	20°, 50°		
		(GS-4-5); subrounded Porphyritic		Generally Non Magnetic	& 65-75° to C.A.		
		50-70% plag. phenos (Tab. shape)					
		(30% plag. < 1 to 1mm; 30-40% plag 2-5 mm)					
		20-40% KSPAR groundmass, surrounds plagioclase phenos					
		2-10% chloritized mafics (Augite/Biotite?)					
	(@58.1)	PY-CH-CB/FF/15° with 1% MT hydrothermal	EPD-KSPAR envelope.				
	(@ 61.4)	Pyrite Vein (1.0-1.5 cm wide)	Kspar Envelope	PY/V/10°			
	(@ 66.4)	1x3 cm subrounded fine gr.	Diorite frag.				
	(@ 70.1)	Pyrite Vein (1.0 cm wide) Kspar	Alt. Envelope	PY/V/10°			

DRILL HOLE NO. CH 90-19

HOLE NO CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fi/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
73.9	76.8	SILTSTONE dark red-brown colour (GS=7)	HF-BT/P/8	PY/D/3% PY/FF/1% Non Magnetic		LCT/60°/3 (conformable contact)	
(73.9	74.1)					BD/75°/3	
(74.6	75.1)					BD/60-65°/3	
	(@75.4)					BD/40°/2	
	(@76.2)					BD/65°/3	
76.8	83.9	MONZODIORITE light to medium dark green (GS=3?) 50-60% plag phenos (<1 to 1mm lath) (5% plag phenos 2-4mm) subporphyritic	CH-EP/P/6-8	PY/D/10-15% PY/FF/1-3% Non to Weakly Magnetic		LCT/70°/3 wavy (conformable contact) progressively more chloritized (medium to dark green) towards lower contact with mod-strong EPID spots 10 cm pervasive Kspar Alt. e lower contact into siltstone. Blebby dissem. PY	
83.9	85.0	SILTSTONE light green-grey to reddish brown (GS=3-6)	HF/P/7-8 BT/P/5	PY/D/3%		LCT/50°/3 sharp (roughly conformable) fine gr. dissem. PY	
(84.2	84.7)	Bedded Siltstone				BD/45°-50°/3	

HOLE NO. CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	From	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
85.0	89.2	AUGITE PORPHYRITIC MONZODIORITE	CH / P / 5-7	PY / D / 3-5%		LCT / 75° / 3 Sharp & Conformable	
		60-70% plag. phenos (<1 to 1mm; La, To)	EP-K / FE / 2	Non to Weakly Magnetic		local strong hydrothermal PY-MT	
		10-15% Mafics (Augite & Biotite)	CB / FF / 2				
		Augite phenos up to 5 mm					
		light to medium green, green-grey (GS=4)					
(85.7	86.2)	PY-MT Vein with EPID-KSPAR	Envelope @10° to C.A.	PY-MT / FF / 10%		1.0 cm wide @ 10° to C.A. 97% PY, 3% MT	
	(@86.7)	SHEAR with gouge (5.0-10.0 cm wide)				SHR / 20° / 3	
(87.3	87.7)	Pyroxenite (Augite) Frags., subrounded (up to 3 cm)					
		with 5% interstitial PY					
89.2	103.4	HYBRID ZONE:					
		SILTSTONE 60% +	HF / P / 7	PY / D / 3%			
		minor SANDSTONE INTERBEDS 15%					
		+ MONZODIORITE (SILLS/DYKES) 25%					
		light to medium green (GS=3-5)					
		minor red brown siltstone interbeds					
		leucocratic sills/dykes Monzodiorite/[illegible]					
(89.2	90.8)	SILTSTONE: well bedded		PY / D / 2-3%		BD / 75° / 3 well bedded siltstone over interval	
		light-medium green, grey-green (GS=[illegible])					

DRILL HOLE NO CH 90-19

HOLE NO CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fdm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(90.8	91.1)	MONZODIORITE SILL leucocratic; 60-70% plag. phenos				UCT & LCT/65°/3	
(91.1	91.5)	Siltstone (same as above)				BD/70°/3	
(91.5	91.7)	MONZODIORITE SILL with spalled in siltstone frags.				UCT/80°/3 LCT/75°/3	
(91.7	94.7)	Siltstone: (same as above), more massive		PY/D/1-3%		BD/75°/2 (@ 93.6 m)	
(94.7	96.1)	MONZODIORITE & SILTSTONE FRAGMENTAL with 40% siltstone frags "spalled in"				Irregular Contacts	
	(@ 96.2)	subrounded Diorite frag (1x2 cm) within siltstone; (Bomb ??)					
(96.1	103.4)	Siltstone (50%; minor sandstone) + Monzodiorite Sills (50%) Siltstone: 0.3 banded to 1-5 cm beds; occassional 10 cm beds Monzodiorite: 0.5 to 30 cm sills; average 5 cm wide					
	(@ 96.8)					BD/55°/3	
	(@ 98.0)					BD/65°/3	
	(@ 98.5)					BD/65°/3	
	(@ 99.3)					BD/65°/3	

HOLE NO CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(@99.7)	Qtz/Carb. Veinlet (1.0 cm wide)	@ 55° to C.A.				
	(@100.5)					BD/65°/3	
	(@101.6)					BD/70°/3	
(102.3	102.6)	Broken, Rubbly Monzodiorite & Siltstone					
	(@103.2)					BD-DB/70°/3	Py banded parallel to bedding.
103.4	114.6	MONZONITE (MONZODIORITE) 50-70% plag-phenos (1-1cm) Lath, light green-pink-grey groundmass (as = 3-5) 3% mafics (Augite + Biotite)	EP-K/FE/3-4 EP/P/5 CB-CH/FF/3	PY/D/3-5%		UCT/55°/3 LCT/?/? Non Magnetic to Weakly Magnetic, Locally Hydrothermal Magnetite ō PY	sharp contact Broken Core
(105.9	106.9)	Strong pervasive alt.	K-EP/P/7	Weakly to Moderately Magnetic			
	(@109.5 & 110.0)	PY-MT Chlorite Veinlets @ 25° to C.A.	(0.5 cm wide)	PY-MT/FF/10%			
(110.8	111.6)	Blocky, Rubbly Broken Core	FAULT?				
(114.0	114.6)	Rubble, Broken Core					

HOLE NO. CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
114.6	146.5	HYBRID ZONE	HF/P/7	PY/D/3%		PY dissem. along bedding, predm. sandy interbeds	
		SILTSTONE (minor SANDSTONE) 70%					
		+ MONZODIORITE (30%) Sills/minor Dykes					
		Siltstone: light-medium grey-green (dk)					
		Monzodiorite sills: 0.5 to 25.0 m,	average ± 5 cm wide				
(114.6	116.3)	Blocky, Rubbly; Broken Core					
	(@115.3)					BD/45°/2	
	(@118.3)					BD/65°/3	
(118.9	123.9)	Blocky, Strongly Fractured Broken Up Core					
	(@121.1)					BD/70°/3	
	(@121.8)					BD/65°/3	
	(@123.1)					BD/70°/3	
	(@125.0)					BD/65°/3	
	(@127.2)					BD/65°/3	
	(@130.7)					BD/60-65°/3	
	(@132.0)	tr. CPY on frac. surface (Frac.	@ 45° to C.A.)	tr. CPY			

DRILL HOLE NO. CH 90-19

HOLE NO CH 90-19

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(133.2	134.6)	Bleached, Altered Monzodiorite + minor Siltstone light green (65+2-3) epid alt?	EP/P/5 pale lime green colouration			UCT/50°/1-2 LCT/?/? gradational	
(134.6	135.6)	Intrusion Breccia Kspar alt subrounded to rounded Monzonite frags in a pale lime green strongly altered groundmass; moderate silica flooding	SI/P/5 K-EP/P/4	PY/D/3%		LCT/65°/2 Blebby PY	
	(@135.8)					BD/60°/3	
	(@136.7)					BD/60°/3	
(137.3	139.8)	Monzodiorite Sill (80%) + minor Siltstone					
	(@139.7)					BD/60°/3	
	(@140.2)					BD/60°/3	
	(@142.4)					BD/60°/3	
(139.8	143.4)	Siltstone + minor Monzodiorite Sills (10%)					
(143.4	143.9)	Monzodiorite Sill					

DRILL HOLE NO. CH 90-19

HOLE NO. CH 90-19

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(143.9	146.5)	SILTSTONE + minor sandstone					
		& monzodiorite sills					
		→ 0.3 to 1.0 cm bedded siltstone					
	(@ 144.5)					BD/55°/3	
	(@ 146.0)					BD/55°/3	
146.5	152.7	INTRUSION BRECCIA ?	K (SI)/P/5-7	PY/D/3%		UCT/60°/2 grade from Monzodiorite to	
	EOH	Heterolithic, but predom.	Cl-EP/P/4	Weak to Moderately	Magnetic	intrusion breccia, could be a hydrothermal Brxx	
		Plag Porphyritic (rounded to				but don't observe crackle texture @ contact and	
		subrounded) Monzonite to				fragments (variable in size from 1 to 10 cm) are	
		Monzodiorite Fragments				subrounded to occassionally rounded	
		minor subrounded monzodiorite				Matrix appears predom. to be intrusive with	
		to diorite and siltstone? frags.				plagioclase phenos, some matrix is aphanitic,	
		60-70% fragments				chlorite alt. mafics and siliceous, silica flooded?	
		30-40% matrix					
		3% PY dissem. in matrix				Some Intrusive frags have been pervasively	
		Some fragments have tr. PY	others 20% PY,	generally frags avg.	1-3% PY	Kspar altered before brecciation	
						Minor Reaction Rims on some Intrusive Frags (3-5 mm wide)	

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DRILL HOLE NO. CH 90-19

DDH CH-90-19

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
C1728	6.1	8.0	1.9	0.1	79	0.4								
729	8	10	2	0.1	50	1.0								
730	10	12	2	0.2	35	1.3								
731	12	14	2	0.3	95	0.1								
732	14	16	2	0.1	80	0.4								
733	16	18	2	0	90	0.2								
734	18	20	2	0.1	100	0								
735	20	22	2	0.1	60	0.8								
736	22	24	2	0.1	65	0.7								
737	24	26	2	0.1	60	0.8								
738	26	28	2	0.2	65	0.7								
739	28	30	2	0.2	100	0								
740	30	32	2	0.2	95	0.1								
741	32	34	2	0.2	100	0								
742	34	36	2	0.3	100	0								
743	36	38	2	0.3	70	0.6								
744	38	40	2	0	95	0.3								
745	40	42	2	0	100	0								
746	42	44	2	0	100	0								
747	44	46	2	0.1	100	0								
748	46	48	2	0.1	95	0.1								
749	48	50	2	0.2	90	0.2								
750	50	52	2	0.1	100	0								
751	52	54	2	0.1	100	0								
752	54	56	2	0.1	85	0.3								
753	56	58	2	0.2	100	0								

DRILL HOLE NO CH-90-19

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
51754	58	60	2.0	0.2	100	0								
755	60	62	2.0	0	90	0.2								
756	62	64	2.0	0	100	0								
757	64	66	2.0	0.1	95	0.1								
758	66	68	2.0	0.1	95	0.1								
759	68	70	2.0	0.1	100	0								
760	70	72	2.0	0.4	100	0								
761	72	74	2.0	0.1	95	0.1								
762	74	76	2.0	0.1	100	0								
763	76	78	2.0	0.3	95	0.1								
764	78	80	2.0	0.2	95	0.1								
765	80	82	2.0	0.6	100	0								
766	82	84	2.0	0.4	100	0								
767	84	86	2.0	0.3	95	0.1								
768	86	88	2.0	0.2	95	0.1								
769	88	90	2.0	0.1	85	0.3								
770	90	92	2.0	0.1	100	0								
771	92	94	2.0	0.1	90	0.2								
772	94	96	2.0	0.1	100	0								
773	96	98	2.0	0.1	100	0								
774	98	100	2.0	0.1	85	0.3								
775	100	102	2.0	0.3	100	0								
776	102	104	2.0	0	80	0.4								
777	104	106	2.0	0.2	90	0.2								
778	106	108	2.0	0.4	95	0.1								
779	108	110	2.0	0.3	90	0.2								

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DRILL HOLE NO CH-90-19

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
51780	110	112	2.0	0.4	80	0.4								
781	112	114	2.0	0.8	95	0.1								
782	114	116	2.0	0.4	60	0.8								
783	116	118	2.0	0.4	70	0.6								
784	118	120	2.0	0.5	70	0.6								
785	120	122	2.0	0.1	80	0.4								
786	122	124	2.0	0	85	0.3								
787	124	126	2.0	0	90	0.2								
788	126	128	2.0	0.4	80	0.4								
789	128	130	2.0	0.1	80	0.4								
790	130	132	2.0	0.2	85	0.3								
791	132	134	2.0	0.2	85	0.3								
792	134	136	2.0	0.2	95	0.1								
793	136	138	2.0	0.2	95	0.1								
794	138	140	2.0	0.2	100	0								
795	140	142	2.0	0.3	100	0								
796	142	144	2.0	0.3	90	0.2								
797	144	146	2.0	0.3	100	0								
798	146	148	2.0	1.4	95	0.1								
799	148	150	2.0	0.5	100	0								
51800	150	152.7	2.7	0.4	100	0								
EOH														

DRILL HOLE NO. CH-90-19

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-20

UTM N: 6125035m
UTM E: 401670m
GRID N: 114+17
GRID E: 96+90

Elev.: 1403m
Depth: 155.1m
Azimuth: 268°
Dip: -45°

Metres (m)	
0.0 - 7.3	CASING
7.3 - 24.5	MONZONITE PORPHYRY k-spar megacrystic, oxidized, mod. chlorite and epidote, some quartz veining, trace PY, 1-5% MT on dry fracs.
24.5 - 42.9	MONZODIORITE mod. to strong epidote and chlorite +/- k-spar, 3% MT, 1-2% PY, trace CP.
42.9 - 49.2	MONZONITE PORPHYRY k-spar megacrystic, mod. perv. clay and sericite, 1% PY.
49.2 - 51.4	MONZODIORITE very weak epidote and chlorite, 2% PY.
51.4 - 52.8	MONZONITE PORPHYRY mod. calcite on frac., mod. perv. quartz and sericite, 1-2% PY.
52.8 - 69.7	MONZODIORITE weak chlorite and epidote +/- k-spar, 2% PY.
69.7 - 75.4	SILTSTONE with MINOR MONZODIORITE SILLS weak epidote, chlorite and k-spar, 1% PY, trace MoS_2
75.4 - 86.4	MONZODIORITE PORPHYRY weak epidote, k-spar, sericite and calcite, 2-3% PY + MT.
86.4 - 87.2	FAULT ZONE quartz-carb. vein.
87.2 - 112.4	MONZODIORITE PORPHYRY weak epidote and calcite, local sericite, 2-3% PY.
112.4 - 113.1	SILTSTONE very weak chlorite, 1% PY.

CH 90-20 cont.

113.1 - 119.5 MONZODIORITE PORPHYRY
weak epidote and chlorite, 2-3% PY.

119.3 - 147.6 CRACKLE BIOTITE BRECCIA MONZODIORITE
sericite-chlorite, k-spar, epidote, garnet and quartz
superimposed on biotite matrix

147.6 - 154.3 DIORITE
very weak epidote and calcite, 2% PY.

154.3 - 155.1 CRACKLE BRECCIA of DIORITE
mod. to strong k-spar, epidote, garnet and chlorite, 4-6%
PY, est. 0.5% Cu.

155.1 E.O.H.

HOLE NO. CH90-20

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-45°	268°	DATE STARTED:	JULY 11, 1990	PROJECT:	CHUCHI
		509'	-44°	-	DATE COMPLETED:	JULY 12, 1990	N.T.S.:	93N/7E
					COLLAR ELEV.:	1483m	LOCATION:	
					NORTHING:	6125035.		114+17N/96+50E
					EASTING:	401670		
					AZIMUTH:	268°		
					DEPTH:	509' / 155.1m	DATE LOGGED:	JULY 14-15, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	7.3	CASING					
7.3	24.5	SYENOMONZ PORPHYRY:					
		- Stubby to equant 2-5mm	7.3-13.6 m				
		K spars ~10%,	A) Ch/D/5	A) Mt/FF/1-5			
		zoned pink-grey	B) Ep/D/2-3	B) Py/D/tr			
		- avg .5mm plag(?) ~					
		60%, chlorit mafic	13.6-18.7m			Strongly oxidized, locally sheared (@60°),	
		10-15%, aplanitic gm	A) Lim/FF/8	A) Mt/FF/1-5		local qtz veining - but veining from	
		15-20%	B) Q/V/1-7			17.8-18.8 (grey-white fg qtz .5-1.0cm	
		- med to dk green (GS=6-7)	C) Q/P/0-7			wide @ 30°)	
		locally oxidized					
		- magnetism variable from	18.7-24.9 m				
		strong where Mt FF occur	A) Ch/D/5	A) Mt/FF/1-3			
		to non-mag in fault zones	B) Ep/D/5	B) Py/D/tr		LCT/?/(; probably sharp but nature	
						and orientation obscured by epid alt.	
						Mt FF occur in both rk types.	

DRILL HOLE NO. CH90-20

HOLE NO CH90-20

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
24.5	42.9	MONZODIORITE : - med green, m-st mag - gen equig mg ; tabular plag , .5-2mm ~75% - chl intestitial mafics 10-15% , aphanitic gm 15%	A) Ep ± K/FF/6 (5-20cm wide, ~3/2m B) Ch/D/6	A) Mt/D 2-3 B) Mt ± tr Cp Py FF/2-3 C) Py - tr Cp - Ep K FF/1-2 D) Py/D/tr		Best sulphide with K alt LCT/~5°/2 , contact marked by occurrence of K megacrysts , also by onset of stronger oxidation and bleaching	
42.9	49.2	SYENOMONZ PORPHYRY : - similar to 7.3-24.5 but K phenos accentuated by alt of gm - K phenos 2-7mm - non-mag , med grey - broken and gougy core with local vuggy qtz vein	A) Cy-Ser/P/5 B) Ca/FF/3	A) Py/D/≤1 B) Py/FF/≤1		LCT/?/1 , not sharp	
49.2	51.4	MONZODIORITE : - equig , st to non-mag - finer gr equivalent of 24.5-42.9 - med to dk gy (GS = 7) - predates Syenomonz (?)	A) Ep/FF/3 B) Ca/FF/1-2 C) Ch/D/1	A) Py-Cp/FF/2-3		LCT/20°/2-3 , sharp but irregular	

DRILL HOLE NO CH90-20

HOLE NO CH 90-20

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
51.4	52.8	SYENOMONZ. PORPHYRY:					
		- same as 42.9-49.2	A) Ca/FF/6	A) Py/D/1-2			
			B) Q-Ser/P/5				
			C) Ep/D/1-2			LCT/?/? ; obscured by broken core	
52.8	69.7	MONZODIORITE:					
		- wk to st mag	52.8-62.4m				
		- equig., fg-mg	A) Ep/FF/3	A) Py±Ep/FF/1			
		- locally prominent augite	B) Ca/FF/3	B) Py/D/≤1			
		(some radiating) avg. 2mm	(60°)				
		- from 62.4-69.7 text	62.4-66.0m				
		largely obscured by alt	A) K-Ch/FF/3-4	A) Py/FF/3-4		St F/bx/sl @ 5-10°	
		and st F @ 10°	B) Ca/FF/3				
			66.0-67.8m				
			A) Ch-Ser/P/3-4	A) Py/D/1			
			B) Ca/FF/3	B) Py/FF/1			
			67.8-69.7m	st fc and		alt at contact	
			A) Ca/FF/8	A) Py/D/1			
			B) K/P/5-8	B) Py/FF/1		LCT/?/1 ; gradational over ~20cm with	
						intermixed Slt/monzod	
69.7	75.4	SILTSTONE (minor sills)					
		- lt to med grey-gr with	A) Ser-Ep-Al/P/	A) Py/FF/1		70.0 BD/60-80°/2.	
		30% bands of med to	5+ probably	B) Py/D/1-30		→ local diss + FF Py to 30% in sills eg 72.2-72.5	
		dk purple-br. bds	B) Ep-Ch/FF/2			74.0 QV/10°/3 + MoS_2, ~2cm wide	
		- some fine beds preserved	C) K/FF/2.	C) Mo/FF/tr		with MoS_2 on selvedges	
		- 10-20% monzod sills	D) Ca/FF/3			LCT/~80°/1 ; sharp but irreg., slst clasts in	
						adj. intrusive	

DRILL HOLE NO CH 90-20

HOLE NO CH90-20

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Ft/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
75.4	86.4	MONZOD PORPHYRY :					
		- med green (GS = 5)	A) Ser-Cy/FE/1-4	A) Py-Mt-Cp/FE/1-2		Local wk alignment of phenos @ 60°	
		- local diss Mt	B) Cp±K/FE/3				
		- laths of plag 1-3mm ~	C) Ca/FE/1-4	B) Py/D/1-2		84.5-85.1 broken core, mod bleaching	
		70%, acicular to stubby				84.5-87.2 (mod Cy-Ser alt)	
		aug 1-5mm ~10%, aphan					
		gm ~ 20%					
		- minor xenos of pale					
		grey-gr slst					
86.4	87.2	Qtz-veined Fault Zone:				SH/60°/2-3	
		- central 5cm qtz-carb	A) Cy-Ser/P/E				
		vein within gouge and					
		broken core	B) Q/V/5				
87.2	112.4	MONZOD PORPHYRY :					
		- same as above	A) Cp/FF/1-3	A) Py-Cp/EE/1-2		90.0-90.4 seric env with 2cm carb + Mo	
		- minor slst and cg	B) Ca/FE/1-3	B) Py±Cp/FE/1		vein @ 65°	
		pyrox (aug porph) xenos	C) Se/FE/6-6	C) Py/D/1			
		eg 95.4		D) Mo/V/tr		93.9 5-10° bxtd qtz vein 2cm wide	
		- plag equant 1-2mm					
		- local sericit envelopes					
		with qtz or carb centres				108.7-109.2, SH/15°/1	
						LCT/45°/2, appears conformable	

DRILL HOLE NO CH90-20

HOLE NO CH90-20

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
112.4	113.1	SILTSTONE: (inlier)					
		- pale green with purple-br	A) Ch/FF/1	A) Py/D/≤1		112.8 BD/45/2	
		hfls. beds		B) Py/FF/≤1		LCT/45°/3, sharp irreg but ~ conformable	
113.1	119.5	MONZODIORITE PORPHYRY:					
		- fg-mg, mod-st mag	A) Ep/FF/2	A) Py-Cp/FF/1-2		114.9 Carb vein @ 40° with cl-hem selvedges	
		except where bleached adj.	B) Ep-Ch/D/3	B) Py/D/1-2		2-3 cm wide	
		to carb-veined shears	C) Ser/FF/3			LCT/?/1-2; gradational over 10-15 cm	
		- lt to dk green (65-4-7)	(local)			between sericit monzod and monzod	
						crackle bx	
119.5	142.6	MONZODIORITE CRACKLE BX:					
		- monolithic, little rotation	119.5-122.0 m				
		of ang to subr clasts	A) Ep/D/3	A) Py ± Cp-Ep/FF/2		122.0 - 136.4 bleached + carb ff due to	
		- matrix is ser-chl-silic	B) K/P/1-2	B) Py/D/2		late struct-cont (15°) clay-ser-	
		- med grey-gr, non-mag	C) Ep/FF/2-3			carb alt	
			D) Ser/P/3			126.0 2 cm wide purple qtz vein @ 5°	
						cut by late clay shear	
			122.0-136.3 m				
		- bleached due to super-	A) Cb/FF/0-7	A) Cp-Mo-Gt-Qz-K/V/tr			
		imposed late carb-cy-	B) K/FF/2-3			130.7 purple qtz-gt-cp-Mo vein 5 cm @	
		seric alt	C) Ep/FF/2	B) Py/D/1-2		25° (Gt-Cp centre, qtz-Mo selvedge)	
		- lt to med grey-green	D) Qz ± Gt/V/2-3			- similar veins at 131.3, 133.7	
				C) Py-Ep/FF/1			

DRILL HOLE NO. CH90-20

HOLE NO CH 90-20

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
			136.3 - 138.0 m				
		- perv K-flooding	A) K/P/8	A) Cp/D/1			
				B) Mo/V/tr			
		- pale gr ser-ch matrix	138.0 - 147.6 m				
		is alt of orig biot-rich	A) Gt ± qtz/V/1.5	A) Py-Mt-Cp-Mo-Gt ± Qtz/V+FE/1 (est. .2% Cu)			
		matrix. Transition from					
		seric to biot ~ 141-143m)	B) K/FE/2-3	B) Py/FE/1		- best min 141.5-142.4 where Gt-Qtz veins occur	
		- non-mag, colour variable				(est. .5% Cu over .9 m)	
		from pale green to black	C) Ser-Ch/P/3-4	C) Py/D/≤1			
						147.6 LCT/?/1-2, occurs over ~10 cm,	
			D) Ca/FF/1-2			monzod is bitized at contact	
147.6	154.5	DIORITE :					
		- med grey, wk mag locally	A) Ep/FF/1	A) Py-Cp/FF/1-2		151.7 QV/45°/3, 2 cm wide, tr Py, bleached	
		- rare cg biot to 1 cm	B) Ca/FE/2	B) Py/D/1		margins	
		- gen equig, equant plag	C) Cy/FE/2				
		~80% avg 1-1.5 mm,				LCT/?/1 - gradational over 10 cm	
		fg interstitial biot 10-15%					
154.5	155.1	MONZOD CRACKLE BX :				154.3-154.9 is heavy Py-Cp-Mt-Gt vein	
	EOH	- bx may be local to	A) Gt-Cp/FF/1	A) Py-Cp-Mt-Gt-Cp/		1-2 cm wide @ 0-5° CA	
		low angle min fr	B) K-Gt/FE/8 local	FF/5 (tot .5% Cu)			
			C) Ch/FE/5	B) Py-Cp-K-Gt/FE/?		154.8 start of 20° fr env with sf K-Gt-Carb	
				C) Py-Ch/FE/1		Py-Cp-Mo * hole ends in alt/min	

DRILL HOLE NO CH 90-20

CH-90-20

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51801	7.3	10	2.7	0.7	67	0.9								
802	10	12	2.0	3.4	85	0.3								
803	12	14	2.0	2.8	75	0.5								
804	14	16	2.0	2.4	85	0.3								
805	16	18	2.0	2.3	85	0.3								
806	18	20	2.0	3.2	95	0.1								
807	20	22	2.0	0.7	85	0.3								
808	22	24	2.0	0.2	75	0.5								
809	24	26	2.0	5.6	90	0.2								
810	26	28	2.0	3.3	90	0.2								
811	28	30	2.0	3.3	95	0.1								
812	30	32	2.0	5.1	95	0.1								
813	32	34	2.0	4.5	100	0								
814	34	36	2.0	5.4	95	0.1								
815	36	38	2.0	3.4	90	0.2								
816	38	40	2.0	0.6	95	0.1								
817	40	42	2.0	0.8	95	0.1								
818	42	44	2.0	0	85	0.3								
819	44	46	2.0	0	90	0.2	OXIDIZED							
820	46	48	2.0	0	60	0.8								
821	48	50	2.0	0.9	80	0.4								
822	50	52	2.0	0.1	100	0								
823	52	54	2.0	0.7	100	0								
824	54	56	2.0	0.7	95	0.1								
825	56	58	2.0	2.4	100	0								
826	58	60	2.0	0.7	95	0.1								

PAGE 1 OF 3

DRILL HOLE NO CH-90-20

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	ANT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51827	60	62	2.0	0	100	0								
828	62	64	2.0	0	100	0								
829	64	66	2.0	0.1	95	0.1								
830	66	68	2.0	0	100	0								
831	68	70	2.0	0	95	0.1								
832	70	72	2.0	0	95	0.1								
833	72	74	2.0	0.1	95	0.1								
834	74	76	2.0	0	95	0.1								
835	76	78	2.0	0	100	0								
836	78	80	2.0	0	95	0.1								
837	80	82	2.0	0.2	95	0.1								
838	82	84	2.0	0	85	0.3								
839	84	86	2.0	0.1	85	0.3								
840	86	88	2.0	0	75	0.5								
841	88	90	2.0	0	100	0								
842	90	92	2.0	0	95	0.1								
843	92	94	2.0	0.5	95	0.1								
844	94	96	2.0	2.8	100	0								
845	96	98	2.0	1.2	100	0								
846	98	100	2.0	0.2	95	0.1								
847	100	102	2.0	0.1	95	0.1								
848	102	104	2.0	1.4	100	0								
849	104	106	2.0	0.9	100	0								
850	106	108	2.0	0.7	100	0								
851	108	110	2.0	1.0	90	0.2								
852	110	112	2.0	0.4	95	0.1								

DRILL HOLE NO CH-90-20

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51853	112	114	2.0	0.1	95	0.1								
854	114	116	2.0	0	95	0.1								
855	116	118	2.0	0	100	0								
856	118	120	2.0	0.9	100	0								
857	120	122	2.0	0	100	0								
858	122	124	2.0	0.1	95	0.1								
859	124	126	2.0	0	100	0								
860	126	128	2.0	0	100	0								
861	128	130	2.0	0	100	0								
862	130	132	2.0	0	100	0								
863	132	134	2.0	0	100	0								
864	134	136	2.0	0	100	0								
865	136	138	2.0	0	90	0.2								
866	138	140	2.0	0.1	100	0								
867	140	142	2.0	0.4	100	0								
868	142	144	2.0	0	100	0								
869	144	146	2.0	0	95	0.1								
870	146	148	2.0	0.1	95	0.1								
871	148	150	2.0	0	100	0								
872	150	152	2.0	0.1	100	0								
873	152	154	2.0	0	100	0								
874	154	155.1	1.1	0	100	0								

DRILL HOLE NO CH-90-20

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-21

UTM N: 6125005m
UTM E: 402320m
GRID N: 115+72
GRID E: 102+05

Elev.: 1375m
Depth: 158.2m
Azimuth: 273°
Dip: -47.5°

Metres (m)

0.0 - 45.7 CASING

45.7 - 47.5 BIOTITE MONZODIORITE
weak to mod. epidote +/- k-spar and chlorite, weak carb., 2% PY, trace CP and MoS_2

47.5 - 49.3 AUGITE FELDSPAR PORPHYRY LATITE DYKE
weak chlorite and calcite, trace PY.

49.3 - 158.2 BIOTITE MONZODIORITE
equigranular to porphyritic.

- 49.3-54.6: mod. epidote, k-spar and biotite, 2% PY, est. 0.2-0.3% Cu.
- 54.6-57.0: mod. quartz vein, mod. to strong k-spar and chlorite, mod. to strong sericite superimposed on potassic alteration, 1-2% PY, est. 0.5% Cu.
- 57.0-68.8: mod. to strong epidote, k-spar and biotite, 2-4% PY, est. 0.3% Cu.
- 68.8-77.4: mod. to strong k-spar +/- biotite and epidote, 3-5% PY, est. 0.3-0.5% Cu.

** est. 28m @ 0.3% Cu**

- 77.4-77.8: mod. to strong clay and sericite, 1% PY, trace CP.
- 77.8-88.8: mod. epidote +/- k-spar and biotite, 2-3% PY, est. 0.1-0.2% Cu.
- 88.8-96.6: mod. quartz, sericite and clay, 1-2% PY, trace CP.
- 96.6-109.6: weak to mod. epidote and k-spar, 2-3% PY, trace CP but up to 0.3% Cu locally.
- 109.6-158.2: mod. k-spar, epidote +/- actinolite, 2% PY trace to 0.2% Cu.

** est. ≤0.1% Cu **

158.2 E.O.H.

BP

HOLE NO. CH 90-21

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	-N-	COLLAR	$-47\frac{1}{2}°$	273°	DATE STARTED:	July 12, 1990	PROJECT:	CHUCHI
					DATE COMPLETED:	July 14, 1990	N.T.S.:	93N/7E
		519'	-47°		COLLAR ELEV.:	1393 m	LOCATION:	
					NORTHING:	6125005		113+72 N / 102+85E
					EASTING:	402320		
					AZIMUTH:	273°		
					DEPTH:	519' / 158.2 m	DATE LOGGED:	July 15, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	45.7	CASING					
45.7	47.5	BIOTITE MONZODIORITE:					
		- mod mag, med to dk	A) Ep/D/5	A) Py-Cp-tr Mo/FF/1			
		grey (GS = 5-7)					
		- gen equig, fg-mg;	B) Ep ± K-Ch/FF/ 3-4	B) Py-tr Cp/D/1			
		equant plag 1-2 mm ~60%					
		- interstitial fg biot 10-15%,	C) Ca/FF/3			∠CT/30°/3; sharp, definite dyke contact	
		minor cg biot to 1cm					
		- 25% K in gm					
47.5	49.3	Aug-Plag Porphyry Latite Dyke:					
		- dk grey-green (GS = 8)					
		- st mag	A) Ch/D/2	A) Py/FF/tr		* Post-mineral	
		- stubby to lath-like plag					
		1.5-2mm, ~30%	B) Ca/FF/2				
		- aug 1-5mm ~15-20%				∠CT/60°/3, sharp	
		- 50% K in gm					

DRILL HOLE NO. CH 90-21

HOLE NO. CH 90-21

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
49.3	77.4	BIOTITE MONZODIORITE - same as above but alteration increasing.					
(49.3	54.6)	Mod-st magnetic	A) Ep ± K/D/5-6 B) Ch-K-Bi/D+FE/5	A) Py-Cp-Ep/D/2		(.2-.3% Cu)	
(54.6	57.0)	Altered, centred on low angle qtz vein from 54.8-56.3 m running sub// CA; 1-2cm wide white qtz, slightly vuggy, contains tr Cp, clots of chlorite wallrock; seric env to vein	A) Q/V/5 B) K/FE/7 C) Ser/P/7 D) Ch/D/6	A) Cp/QV/tr B) Cp-Py-Cl/D/1 C) Py-Cp/FE/½	est. .5% Cu	Qtz-seric vein post-dates potassic alt (Phyllic superimposed on Potassic) Post Cp in chlorite wallrock inclusions in vein	
(57.0	68.8)	- Variable magnetism (0 to st) - med grey-gr to black (GS = 6-8) - darker zones due to perv sec grey Kspar - st propylitic / mod potassic alt (potassic increasing downhole)	A) Ep ± K/D+FE/6-7 B) K ± Bi/P/8 (Bi) C) Ser/P/2 local D) Ca/FF/1-2	A) Py-Cp-Ep ± K/FE/2-4 B) Py-Cp-Ep ± K/D/1-2		Est .3% Cu, Cp is vfg	

DRILL HOLE NO. CH 90-21

HOLE NO. CH90-21

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(68.8	77.4)	Increased K alt (mod-st)	A) K-Ep/FF+D/6-9 B) K±Bi/P/2-5 C) Ca/FF/1-2	A) Py-Cp-K-Ep/FF+D/3-5 B) He/FF/tr		72.8-73.4 and 74.4-75.0 Mod seric overprint } Est .3-.5% Cu, best Cp as vfg diss in Ep	
77.4	77.8	Bleached zone in monzod centred on 75° qtz vein at 77.5m, 1cm wide with st Cy-ser	A) Cy-Ser/FF/6-9	A) Py-Cp/D/1			
77.8	88.8	Bi Monzod: - 0 to st mag, locally more porphyritic	A) Ep±K/FF/5 B) K±Bi/P/1-5 C) Ser/P/1 D) Ca/FF/1-3	A) Py-Cp-Ep-K/D+FF/2-3		Est .1-.2% Cu Local broken core, prominent fr @ 0-5° CA + Ca-He	
88.8	96.6	Bleached zone: - white qtz veins .5-3cm wide @ 0-40° - phyllic alt superimposed on wk potassic	A) Ser-Cy/P/2-7 B) Qtz/V/5 (3-5/m) C) K±Ep/FF/3	A) Py/QV/tr B) Py-tr Cp/D/1-2		Est <.1% Cu	

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DRILL HOLE NO. CH90-21

HOLE NO. CH90-21

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Trm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
96.6	109.6	Bi Monzod Porphyry:					
		- mod-st mag	A) Ep±K/FE/4	A) Py-tr Cp/FE	1	Est ≤ .1% Cu, upto .3% Cu locally	
		- perv. K in gm (sec?)	B) Ep/D/4	B) Py-Cp/D/1-?			
		- mod potassic/propylitic,					
		sporadic K on fr env.					
109.6	158.2 EOH	Biotite Monzodiorite Porphyry:					
		- consistent mod K alt					
		- plag phenos 1.5-3mm,	A) K-Ep±Ac/FE/4-6				
		stubby, ~15%					
		- locally late low ang.	B) Ca/FF/0-3	A) Py-Cp/FE+D/2		tr to .2% Cu	
		Ca-He FF esp		B) He/FE/tr			
		126-130 m		C) Mt/V/tr			

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DRILL HOLE NO. CH90-21

CH-90-21

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51975	45.7	48	2.3	1.9	78	0.5								
876	48	50	2.0	1.7	90	0.2								
877	50	52	2.0	1.5	95	0.1								
878	52	54	2.0	1.3	85	0.3								
879	54	56	2.0	0.8	90	0.2								
880	56	58	2.0	1.1	100	0								
881	58	60	2.0	0.9	95	0.1								
882	60	62	2.0	1.1	95	0.1								
883	62	64	2.0	0.4	100	0								
884	64	66	2.0	0.1	85	0.3								
885	66	68	2.0	0.8	95	0.1								
886	68	70	2.0	0.7	100	0								
887	70	72	2.0	0.1	85	0.3								
888	72	74	2.0	0.2	95	0.1								
889	74	76	2.0	0.2	90	0.2								
890	76	78	2.0	0	100	0								
891	78	80	2.0	0.2	90	0.2								
892	80	82	2.0	1.3	75	0.5								
893	82	84	2.0	1.5	90	0.2								
894	84	86	2.0	1.3	100	0								
895	86	88	2.0	1.9	100	0								
896	88	90	2.0	1.3	100	0								
897	90	92	2.0	0.6	95	0.1								
898	92	94	2.0	0.4	95	0.1								
899	94	96	2.0	1.5	100	0								
900	96	98	2.0	0.8	100	0								

PAGE 1 OF 3

DRILL HOLE NO CH-90-21

DRILL LOG

sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51901	98	100	2.0	1.4	100	0								
902	100	102	2.0	2.5	95	0.1								
903	102	104	2.0	2.5	90	0.2								
904	104	106	2.0	0.7	90	0.2								
905	106	108	2.0	0.8	100	0								
906	108	110	2.0	0.6	90	0.2								
907	110	112	2.0	0.5	90	0.2								
908	112	114	2.0	1.3	90	0.2								
909	114	116	2.0	2.4	100	0								
910	116	118	2.0	1.4	90	0.4								
911	118	120	2.0	1.4	95	0.1								
912	120	122	2.0	1.8	95	0.1								
913	122	124	2.0	0.4	90	0.2								
914	124	126	2.0	0.4	100	0								
915	126	128	2.0	0.2	95	0.3								
916	128	130	2.0	0.3	95	0.1								
917	130	132	2.0	2.8	95	0.1								
918	132	134	2.0	0.7	95	0.1								
919	134	136	2.0	0.2	100	0								
920	136	138	2.0	0.1	100	0								
921	138	140	2.0	0.2	95	0.1								
922	140	142	2.0	1.9	100	0								
923	142	144	2.0	0.3	100	0								
924	144	146	2.0	1.9	100	0								
925	146	148	2.0	2.1	95	0.1								
926	148	150	2.0	2.5	100	0								

PAGE 2 OF 3

DRILL HOLE NO CH-90-21

BP

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
51927	150	152	2.0	0.2	100	0								
928	152	154	2.0	0.1	95	0.1								
929	154	156	2.0	1.5	100	0								
930	156	158.2	2.2	1.2	100	0								

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DRILL HOLE NO CH-90-21

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-22

UTM N: 6124570m
UTM E: 402255m
GRID N: 109+40
GRID E: 102+00

Elev.: 1402m
Depth: 261.8m
Azimuth: 275°
Dip: -47.5°

Metres (m)	
0.0 - 3.7	CASING
3.7 - 17.7	MONZODIORITE minor siltstone, mod. chlorite and epidote, siltstone is hornfelsed, 5-7% PY, non-magnetic.
17.7 - 22.5	SILTSTONE minor monzodiorite sills, hornfelsed, weak to mod. epidote. 3% PY, non-magnetic.
22.5 - 27.7	FAULT ZONE strongly altered siltstone and monzodiorite, strong carb., mod. biotite and sericite, weak epidote, 1% PY, non-magnetic.
27.7 - 30.2	SILTSTONE minor monzodiorite sills, hornfelsed, weak epidote and k-spar, 2-4% PY, locally weakly magnetic
30.2 - 60.8	MONZODIORITE minor siltstone, mod. biotite, weak to mod. chlorite, epidote and k-spar, 3-5% PY, locally strong hydrothermal magnetite.
60.8 - 68.5	SILTSTONE and MONZODIORITE (~25%) hornfelsed, weak epidote, 1-2% PY.
68.5 - 84.7	MONZODIORITE/MONZONITE minor siltstone to ~15%, weak epidote, k-spar and carb., 3-5% PY, 1% MT.
84.7 - 100.9	SILTSTONE and MONZONITE/MONZODIORITE (~20-25%) hornfelsed, weak epidote and k-spar, 1-3% PY.
100.9 - 133.7	MONZODIORITE minor augite porphyry frags., mod. epidote, weak k-spar and carb., 3% PY, <1% MT.
133.7 - 134.8	LITHIC CRYSTAL TUFF siltstone clasts (~30%) and monzonite clasts(~30-40%), hornfelsed, weak epidote, 5% PY, 1% MT.

CH 90-22 cont.

134.8 - 149.2 SILTSTONE
minor monzodiorite, hornfelsed, 1-3% PY, locally strongly magnetic.

149.2 - 153.6 MONZODIORITE and SILTSTONE (25%)
weak to mod. k-spar, epidote and chlorite, 3% PY.

153.6 - 183.1 SILTSTONE
minor monzodiorite, biotite hornfels, late frac. controlled sericite and albite, 1-3% PY, trace CP + MT.

183.1 - 190.8 MONZODIORITE (DIORITE ?)
mod. chlorite, weak epidote and carb., 3-5% PY, <1% MT.

190.8 - 206.5 SILTSTONE
hornfelsed, weak albite and epidote, 1-3% PY, trace CP.

206.5 - 210.7 MONZODIORITE
mod. to strong chlorite, 3-5% PY, 0.5% CP, 1-2% MT.

210.7 - 222.8 SILTSTONE
biotite hornfels, mod. to strong albite and sericite, 1-3% PY, 0.25% CP, trace MT, trace MoS_2.

222.8 - 229.2 MONZODIORITE
mod. chlorite, weak epidote and k-spar, 3-5% PY, 1-2% MT, 0.5-1% CP.

229.2 - 244.9 SILTSTONE
minor monzodiorite, hornfelsed, weak albite, epidote and k-spar, 1-3% PY, trace CP + MT.

244.9 - 256.1 MONZODIORITE
weak to mod. chlorite, epidote and k-spar, 3-4% PY, 1-2% MT, trace CP.

256.1 - 261.8 SILTSTONE/MONZODIORITE HYBRID ZONE
siltstone (~65%), hornfelsed, mod. albite, 3% PY, trace MT.

261.8 E.O.H.

** 206.8-223.7m (16.9m) est. 0.08-0.2% Cu **

mineralization localized at siltstone/intrusive contacts and through siltstone unit (210.7-222.8) in quartz veins (0.5-3cm wide) carrying 5% CP-PY.

HOLE NO. CH 90-22

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC	N	COLLAR	-47.5°	275°	DATE STARTED	JULY 15, 1990	PROJECT:	CHUCHI LK.
		261.8 m	-44°		DATE COMPLETED:	JULY 19, 1990	N.T.S.:	93N/7E
					COLLAR ELEV.:	1402 m	LOCATION:	Grid Coords
					NORTHING:	6124570 N		109+40N
					EASTING:	402235 E		102+00E
					AZIMUTH:	275°		
					DEPTH:	261.8 m	DATE LOGGED:	July 17-24th, 1990
HOLE TYPE: DDH					CORE SIZE:	NQ	LOGGED BY:	DRB

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	3.7	CASING					
3.7	17.7	DIORITE to MONZODIORITE, + minor SILTSTONE (~7-10%)		PY/D/3-5%	8-15/m°	LCT/?/? Gradational	
				PY/FF/1-2%	25-30°,	Arbitrary contact, change from predom. monzodi.	
		MONZODI → fine gr. (<1-1mm)	CH-EP/D/4	Non Magnetic	predom. 45	with minor siltstone.	
		equigranular; 60-75% plag. phenos			& 70° to CA		
		equant-lath shape; 10% mafics (Biot.)				Weak Carbonate (calcite) on fracture surfaces	
		light-medium green (GS=4)					
		SILTSTONE → predom. dark brown	HF/P/7-8			Commonly PY fracture fills have associated EPID	
		to red-brown, minor green-grey interbeds				fracture envelopes	
(3.7	9.4)					Strongly Oxidized fracture surfaces	
(4.0	4.2)					BD/85°/2 conformable monzodi. contacts	

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(6.4	6.8)	Siltstone minor irregular monzdi.					
	(@9.3)	Irregular Pyrite veinlet (0.5-1.0cm wide)					
(11.2	11.5)					BD/80°/3 Conformable Monzodi. Contacts.	
(16.3	16.8)					BD/75°/2	
17.7	22.5	SILTSTONE + minor MONZODIORITE (15%) SILLS siltstone → medium green-grey & reddish-brown (GS = 4-7)	HF/P/7-8 EP/D/3	PY/D/3% Non Magnetic		UCT/70°/2 arbitrary contact LCT/?/? Broken Core into fault. Core increased Blocky & Fractured to lower contact into fault zone. Dissem. PY variable from <1% to 5-8%	
	(@18.5)					BD/75°/3	
(18.8	18.9)	Monzodiorite Sill				Contacts/80°/3 conformable	
	(@19.4)					BD/80°/3	
	(@20.0)					BD/75-80°/3	
22.5	27.7	FAULT ZONE Strongly Altered, Fractured Siltstone & Monzodiorite (GS = 3)	CB/FF/5-6 BT-SE/P/4 EP/D/2	PY/D/1% Non Magnetic		Contacts: Gradational; Broken Core	

DRILL HOLE NO. CH 90-22

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(23.4	24.1)	Rubble & Gravel Zone, weak	gouge				
	(@27.5)	Shear w 0.5 cm gouge @ 30° to	C.A.			SHR/30°/3	
27.7	30.2	SILTSTONE + minor	HF/P/7	PY/D/1-3%		LCT/?/? Broken Core	
		Monzodiorite Sills (10%)	EP-K/FE/2-3	PY/FF/1%		Numerous Hairline Fractures associated with	
		(same as for 17.7-22.5m)				Fault/Shear zone.	
		Siltstone → predom red-brown					
		minor medium green-grey (GS=5-8)				Generally Non Magnetic, locally weakly Magnetic	
	(@29.0)					BD/70°/1-2	
	(@29.5)					BD/75°/2	
30.2	60.8	Monzodiorite + minor	BT/P/5-6	PY/D/3-4%	5-10/m @	LCT/70°/2-3 wavy	
		SILTSTONE (~10%)	CH-EP/D/4-5	PY/FF/1%	20-30°,	Irregular Biotite Alt. wavy & patchy to locally pervasive	
		60-70% plagioclase xtals	EP-K/FE/2-3	tr CPY	& 45° to CA		
		(Size gr <1-1mm) locally subporphyritic				Generally Non Magnetic to weakly magnetic	
		5-10% Mafics (Biotite)				Local Strong PY-MT Hydrothermal (i.e. @ 44.6m PY/CH/EP patch with 1% MT)	
		medium green-grey (GS=4-7)					
(31.6	31.9)					BD/80°/3 conformable contacts	
(32.2	32.6)					BD/80°/3 UCT dike /35°/3 non conformable	
						LCT /85°/3 conformable	

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(36.3	38.0)	Intrusion Breccia → subporphyritic Monzodiorite with Kspar Alt. Monzodi. fragments (up to 1.5 m) & siltstone fragments (<1-1cm)					
(37.8	37.9)	Fault/Shear Broken Core —	sericite/carbonate alt.; Moderately Brecciated				
(33.5	38.8)	Breccia Zone (Fragmental) → minor Siltstone Fragments;	strong carbonate/epidote alt. Feldspar Porphyritic - Subporphyritic				
(40.9	41.3 &	45.1 - 46.2) Breccia Zone	(same as above)				
(42.4	43.8)	Breccia Zone Feldspar Porphyritic (Plag + Kspar) 20-30% Fragments: monzonite frags (up to 4 cm) & Siltstone Frags (up to 1cm)					
(47.0	53.2)	Strong Biotite/Pyrite Alt. dark grey-black (as = 7-8)	BT/P/8 CH-K/P/4 EP/D/5-6	PY/D/5-8% PY/FF/5-7% MT/FF/<1%		Monzodiorite Fragments (subrounded - rounded) could be areas not biotite alt. and thus appear as frags. Local hydrothermal magnetite with PY veinlets/fracture fills & EPID/CHLOR alt.	
	(@ 53.7 &	53.9) EP-CH-PY/FF/ with 1%	MT Kspar Frac.	Envelope. Frac. @ 25°	to C.A.		
	(@ 56.4)	EP-PY minor CB-CH/FF/15°	with 1-2% MT	Kspar frac. envelope			
	(@ 57.0)	5 cm wide Siltstone contact table				BD (& contacts) / 70°/2-3	

DRILL HOLE NO. CH 90-22

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(57.4	58.8)	Siltstone					
		medium brown-green to	HF/P/7-8			UCT & LCT/70°/3	
		red-brown (65-5-8)	EP-K/FE/3			BD/80°/3 (@58.1m)	
	(@59.4)	PY-MT/FF/40° tr CPY, EPID	Frac. Envelope	tr. CPY			
	(@60.2)	EP-PY-MT patch with tr-¼% CPY		tr. CPY			
60.8	68.5	SILTSTONE + MONZODIORITE (25%)	HF/P/8	PY/D/1-2%		UCT/70°/2-3 wavy	
		& previous medium brown to	EP/FE/2			LCT/45°/2-3	
		red-brown, lt medium green (65-4-?)					
	(@62.1)					BD/80°/3	
(62.1	64.6)	Monzodiorite / Monzonite	EP-K/D-FE/3-5	PY/D/3-5%		UCT/70°/1-2 wavy & irregular	
		50-70% equigranular plag phenos.		PY/FF/1%		LCT/?/? Broken Core	
				Non to Weakly Magnetic			
	(@64.8,	66.4 & 67.5)				BD/75°/3	

HOLE NO. CH 90-22

FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
68.5	84.7	MONZODIORITE +	EP-K/FE/3	PY/D/3-5%		LCT/?/? Broken Core	
		SILTSTONE (≈15%) FRAGMENTS	CB/FF/2-3	MT/D/1%		weakly to Moderately Magnetic	
		equigranular 50-60% plagioclase					
		grains (eq, to shape)					
		fine gr. (≤1 to 1mm); locally subporphyritic					
		10% mafics (biotite)					
		30-35% groundmass → grey-pink green					
		light-medium green, green-grey (GS-4-5)					
(74.4	75.6)	SILTSTONE	HF/P/7-8			UCT/Broken Core 30 cm Blocky, broken core.	
		medium green, minor red-brown (GS-4-5)					
(76.0	76.4)	Blocky, Rubbly Monzod. → weakly sheared					
(77.1	78.3)	Siltstone (same as above)				BD/65°/2 (@77.8m.)	
(78.3	81.1)	Monzodiorite - monzonite with ≈20-25% siltstone frags.					
	(@78.7)					BD/65°/3	
(81.1	82.1)	Siltstone	HF/P/7			UCT/85°/3 sharp, conformable	
			EP-CB/FF/5			LCT/?/1 wavy and irregular	
	(@81.5)					BD/80°/3	
(83.7	84.7)	Fault/Shear Blocky, Rubble;	Open Space → weathered out Carbonate				
	(@84.6)	Gouge (0.5 cm wide @ 70° to CA	adjacent Bleached			SHR/70°/2	

DRILL HOLE NO. CH 90-22

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc)	Mineralization, type, age, relations
84.7	100.9	SILTSTONE +	HF/P/7	PY/D/1-3%		LCT/50°/1 wavy & irregular contact	
		MONZODIORITE (≈20-25%)	EP-K/FE/2			Siltstone → Non Magnetic	
		light-medium green (GS=3-4)				Monzodiorite → Non to Weakly Magnetic	
(85.1	87.7)	Rubbly, Blocky & Splintered Co	predom. broken	Siltstone			
	(@88.0)					BD/75°/2	
	(@89.1)					BD/70°/3	
(87.7	92.5)	Strongly Crackled Siltstone, mo	derate to strong Ha	irline fracs, Carbona	te filling		
	(@91.2)					BD/80°/3	
	(@92.5)					BD/80°/3	
	(@94.0)					BD/75°/3	
(94.1	95.9)	Monzodiorite Sill		PY/D/7%		UCT/60°/3	
		50-60% plagioclase phenos (fine gr. <1 to 1mm)		Non Magnetic		LCT/80°/2 wavy	
		30-40% groundmass (Kspar, pink-tinge)					
		5% Mafics (Biotite?)					
		light-medium green (GS=3-5)					
(95.9	100.2)	Mixed, Hybrid Zone: Siltstone,				Intrusive swarming around Siltstone, contact	
		Siltstone Frags & Monzodiorite				metasomatism (aureoles) around Siltstone Frags.	
	(@97.8)					BD/70°/3	
(100.2	100.9)					BD/80°/3	

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HOLE NO. CH 90-22

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	From	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
100.9	133.7	MONZODIORITE – MONZONITE	EP/D/3-4	PY/D/3%	10° @	LCT/15°/0-1 very irregular contact	
		light to medium green (CI:4-5)	EP-K/FE/2	PY/FF/<1%	50-60° pa	le.	
		~50-60% plagioclase phenos (laths)	CB/FF/2	MT/D/<1-1%	25° & 60° to	C.A. Also to moderately magnetic, locally strongly magnetic.	
		equigranular (fine gr.) to					
		subporphyritic (5% plag. phenos 2-4mm					
		* 30-35% groundmass					
		* 5-10% mafics (Biotite + ?)					
	(@103.7)	Siltstone ?/ Volcanic (tuff) Frag.	(1.5x1cm) subangular	aphanitic; tr.	MT & PY		
	(@103.8)	Augite Porphyry Frag. (1x1cm)	subrounded				
	(@107.6)	Monzodiorite - Diorite Fragment	(2x3cm) subrounded				
	(@ 113.3,	114.1) PY veinlets (3 mm wide)	@ 60° to C.A. with	low EPID-KSPAR	Frac.	envelopes	
	(@116.2)	Shear, minor gouge (5 cm	wide shear zone)			SHR/60°/2	
(116.9	117.3 &	117.7 - 118.0 Zones of in	creased fracturing	with strong E	PID-KSPA	R frac. envelopes	
& 119.2	119.6 &	(120.3-120.9) (30 cm z	ones appear Kspar flooded	but probably	due to	coalescing Kspar frac. envelopes)	
(120.9	121.3)	PY Veinlet (+ minor MT), av	to 0.5 cm wide	5°-10° to C.A. with	tr. C	PY (@121.0m)	
	(@123.3)	Monzodiorite Frag. (1.5x3cm)	subrounded				

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(123.6	123.9)	Augite Porphyry Andesite Fragm	ents (30%) up to	5cm, subrounded			
	(@124.5)	Augite Porphyry Frag. (as above)					
	(@124.9)	Biotite Andes?/ fine gr. Diorite?	Fragment (3x7cm)	subrounded			
	(@125.4)	Shear with slickensides, local	bleached envelope	(5-10cm)		SHR/35°/2-3	
	(@125.7)	PY-MT veinlet (0.5-1.0cm @ with minor EP-CH	40° to C.A.)	PY-MT/FF/50%			
	(@129.9)	PY-MT Veinlet (0.5 cm wide	@18° to C.A., irregular)	PY-MT/FF/50%			
	(@132.8)	PY Veinlet (0.5 cm wide @	30° to C.A.) with lcl	KSPAR-EPID Frac.	Envelope.		
(133.0	133.7)	Kspar Flooded Monzonite to LCT	K/P/7				
133.7	134.8	LITHIC CRYSTAL TUFF	HF/P/7	PY/D/5%		LCT/85°/3 Sharp, Conformable Contact	
		SILTSTONE CLASTS (≈30%)	EP/D/2	PY/FF/<1%		dissem. & blebby PY with MT	
		→ commonly (0.5cm, up to 1.5cm) subangular		MT/D/1%			
		Monzonite Clasts (≈30-40%)					
		subrounded (up to 1.0cm)					
		Clast Supported; Matrix:	fine gr. plagioclase	crystals? and silt	sand; ≈	30-40%	
		Light-medium pink-brown, grey	-green (GS=3-5)				

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HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
134.8	149.2	SILTSTONE +	HF/P/5-7	PY/D/1-3%		LCT/80°/2	
		minor MONZODIORITE (~8%)		PY/FF/<1-1%			
		light-medium green-grey,		MT/D-FF/tr			
		red-brown (SS = 3-5%)		↳ locally strong	in Monzodiorite		
	(@134.9)					BD/80°/2	
	(@135.5)					BD/70°/3	
	(@137.1)					BD/80°/3	
	(@138.4)					BD/80°/3	
(139.0	139.5)	Cracked Siltstone; Sheared,	weakly Bleached				
	(@140.2)					BD/85°/3	
(141.6	141.7)	Monzodiorite Sill with spotted	in Siltstone			Contacts/80°/3 conformable	
(142.1	142.3)	Monzodiorite Sill		PY/D/2-10%		UCT/85°/3; LCT/80°/3	conformable
	(@142.9)					BD/85°/3	
	(@144.0)					BD/85°/3	
	(@145.8)					BD/85°/3	
	(@146.9)	Shear with minor gouge				SHR/75°/2	
(146.1	147.2)	Strongly Cracked Siltstone	due to shear	K-EP/FF/5			
(148.0	148.6)	Monzodiorite		MT/D/3%		Strongly Magnetic (149.1-149.2m)	
	(@148.9)					BD/80°/3	

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
149.2	153.6	SYENOMONZONITE PORPHYRY + SILTSTONE (≈25%) light to medium green, green grey (GS=4-5) 30-45% plag. phenos, subporphyritic 40-65% groundmass (k-spar) 5% mafics	K-EP/FE/2-3 CH/P/2 ↳ locally moderate	PY/D/3%		LCT/40°/2	
(150.6	151.5)	Siltstone				UCT/80°/3 ; LCT/35°/1-2	
	(≈151.0)					BD/70°/2	
(153.0	153.3)	Andesite Zenolith? fine grained to aphanitic (10-20% plagioclase phenos) medium-dark green.					
153.6	183.1	SILTSTONE + minor Monzonite (≈5%) predom. medium red-brown (GS=5-6) minor light-medium green (GS=3-4)	HF/P/7-8	PY/D/1-3% CPY trace to MT	5-10/m @ 40-50° & 20° to C.A.	LCT/50°/2 Biotite Early Pervasive ST/F/7 Late stage Sericite; Albitization (Albite/FE/G) (creamy white, along fractures around earlier biotized siltstone; Bedding destructive).	

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DRILL HOLE NO. CH 90-22

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(154.0)					BD/45°/2-3	
	(155.5)					BD/85°/3	
(156.0	156.3)	Shear, Blocky, Rubbly, minor Healed Breccia				SHR/?/?	
	(157.4)					BD/85°/3	
	(159.7)					BD/80°/3	
(161.0	161.5)	Shear, Blocked				SHR/?/2	
(162.3	162.7)	Monzodiorite Sill					
	(163.4)					BD/60°/2	
	(165.0)					BD/25°/2-3	
(165.6	165.8)	Fine gr. Diorite (Sill/Dyke?); dark green colour	CH/P/G	PY/D/10-15%		Contacts: UCT & LCT/30°/2	
	(166.7)					BD/25°/2-3	
	(169.4)	EPIDOTE/SERICITE - ALBITE Fracture Envelope @40° to C.A. (10 cm envelope on each side of fracture progressing from EPIDOTE to EPID-SERICITE to Strong ALBITE Alt.					
	(169.8)					BD/30°/3	

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Ft/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(170.0	171.4)	Strong Albite Alt.	Albite/P/7-8			(@171.2 Moderate Shear; Carbonate Healed)	
(172.0	172.1)	PY-CPY Frac. Fill discontinuous	@ 10° to C.A.	PY-CPY/FF/5%		(2% CPY, 3% PY)	
(172.7	172.9)	Monzodiorite Sill with spalled	in Siltstone Frags				
	(173.0)					BD/55°/3	
	(174.6)					BD/65°/3	
	(174.9)	Clay-Talc on Fracture Surfaces					
(177.1	179.1)	HYBRID ZONE: Monzodiorite (50%) + Siltstone (50%) → siltstone spalled into		Monzodiorite		Conformable (55° to C.A.) & Irregular Monzodiorite Contacts	
(179.2	179.6)	Leucocratic Monzodiorite →	strongly fractured,	Blocky & Rubbly	Core		
	(179.7)	Quartz Veinlet (1.0 cm wide @	40° to C.A.) Qtz/V/40°	tr. CPY			
	(179.8)	fine gr. Diorite Sill? (7 cm	wide @ 55° to C.A.)	PY/D/10%,	tr. CPY		
	(180.0)	Quartz Vein @15° to C.A. (2.0	cm wide) with	EPID/CARB. Frac.	fill		
	(181.5)					BD/60°/3	
	(182.7)					BD-DB/60°/3	

DRILL HOLE NO. CH 90-22

HOLE NO CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
183.1	190.8	SYENOMONZONITE PORPHYRY	CH/P/5	PY/D/3-5%		LCT/15°-25°/1-2 wavy & irregular contact	
		medium green, green-gray (GS=5)	CB/FF/2	MT/D/<1 to 1%		spalled in siltstone over top 20cm @ upper contact	
		subporphyritic; 50-60% plagioclase	EP/FE/2				
		pienos (Ta, l..; 10% plag phenos				Weakly to Moderately Magnetic	
		1-4cm) Molecule alt of Plag	phenos adjacent to	fractures (Clay Alt)			
		25-35% groundmass					
		10-15% Mafics - biotite (chl	oritized)				
190.8	206.5	SILTSTONE	HF/P/7-8	PY/D/1-3%		LCT/75°/2	
		predom. medium red-brown,	Albite/FE/2	tr. CPY		Albite alt. weak frac & bedding plane controlled	
		minor light-medium green-gray (6-7)	EP/FE/1-2			Pyrite dissem. preferentially along silty/sandy bedding.	
	(191.3)					BD/60°/3	
	(192.8)					BD/75°/3	
	(193.7)					BD-DB/75°/3	
	(@194.9 -	195.5) Carbonate-Sericite Shear	(1.0 cm wide @50°	to C.A)		SHR/50°/1-2	
		crackled & bleached Si	ltstone				
	(196.6)					BD/75°/3	
	(198.5)	EP-PY-CPY Frac-Fill (3mm wide	@30° to C.A)	tr. CPY			

DRILL HOLE NO. CH 90-22

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(199.4)					BD/85°/2-3	
(200.3	201.2)	SYENOMONZONITE (Sill?)	CH/P/6-7	PY/D/5-7%		UCT/40°/2-3	
		40-50% plagioclase phenos, fine		MT/D/<1%		LCT/70°/1	
		10-15% Mafics (Biotite, fine gr.)		Non to Moderately Magnetic			
		40% groundmass					
	(201.4)					BD/70°/3	
	(201.7)	Qtz-PY-CPY Vein 3.0 cm wide	@50° to C.A.	CPY-PY/FF/25%		Qtz/V/50° 15% CPY; 10% PY	
	(202.3)					BD/85°/3	
	(206.0)					BD/80°/3	
206.5	210.7	MONZODIORITE / MONZONITE	CH/P/6-7	PY/D/3-5%		LCT/75°/1 Broken Core	
		fine gr. 50% plagioclase phenos		CPY/D-FF/½%		PY blebby with MT and dissem.	
		10-20% mafics → biotite		MT/D/1-2%			
		30-40% groundmass				Weak to Strongly Magnetic	
		medium green, green-black (as 5?)					
	(206.8)	PY-CPY-MT/Frac. fill @80° to C.A.	(6.5 cm wide)	PY-CPY-MT/FF/10%		5% PY, 3% CPY, 2% MT	
(209.9	210.5)			CPY/D/½-1%			

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc)	Mineralization, type, age, relations
210.7	222.8	SILTSTONE	HF(BT)/P/8	PY/D/1-3%		LCT/?/? Brecciated; Broken Core	
		predom medium red-brown &	Albite-SE/FE/6-7	PY/FF/<1%			
		light green-grey (GS=3-5)		CPY/FF-V/¼%		Albite Alt. Con. & bedding controlled; locally pervasive	
				MT/D/tr.		albite bedding destruction (over 20-30%)	
				tr. MOLY			
	(210.8)					BD/75°/3	
(211.8	212.3)	Blocky, Splintered; Broken Siltstone					
	(213.5)					BD/80°/3	
	(214.7)					BD/85°/2-3	
	(215.9)	Shear, Carbonate Filled; Bleached Siltstone					
	(216.8)	Quartz Vein (1-2 cm wide @ 30°	to C.A) CALCITE-	BARITE (5% PY) with	END Con	tact	
	(217.5)	Quartz Vein (3 cm wide, 30° to C.A	irregular)	PY-CPY/V/3%		PY (1-2%), CPY (1-2%)	
	(218.2)	Quartz Vein (1-2 cm wide @ 50° to C.A		CPY/V/5%			
	(218.0)					BD/85°/3	
	(218.7)	Quartz Vein (1 cm wide @ 85-90° to	C.A)	PY-CPY/V/5%		2-3% CPY, 2-3% PY	

DRILL HOLE NO. CH 90-22

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(219.0)					BD/80°/3	
	(219.6)	Quartz Vein (1cm wide @50° to C.A)		CPY-PY/V/5%		3-4% CPY, 1-2% PY	
	(220.3)					BD/80°/3	
	(220.5)	Quartz Veinlet irregular (@45°	to C.A.; 0.5 cm wide)	CPY/V/½%			
	(221.0)	PY-CH-EP-CPY fracture fill minor Kspar fine envelope @40° to C.A		PY-CPY/FF/4-5%		4% PY, ¼-½% CPY	
	(221.5)					BD-DB/80°/3	
(222.3	222.8)	Brecciated Siltstone to lower contact with minor subrounded Monzonite frags (up to 4 cm)					
	(222.8)	Trace Moly @ lower contact; Sheared		tr. Moly			
222.8	229.2	MONZODIORITE / MONZONITE medium green (cs = 5-6) to medium dark green-black (7-8) ~50% plagioclase phens (k/ledge, subequal, stubby) 10-20% Mafics (Biotite, weakly chloritized) 30-40% Groundmass	CH/P/5-7 EP-K/FE/1-2	PY/D/3% MT/D/1-2% PY-MT/FF/2% CPY/D-FF/½-1%		LCT/20°/2	Non Conformable, Dyke Contact

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DRILL HOLE NO. CH 90-22

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(222.8	223.7)	Strong Mineralization = Upper Cont.		PY/D/3-5%			
				CPY/D/2-3%			
	(224.0)			MT-PY/FF/10%		Hydrothermal MT veinlet/Frac. Fill (0.5 cm wide @ 30° to C.A.)	
(225.4	225.5)	ANDS FRAG. (4x10cm) subangular					
		~30% fine gr. Plagioclase phen.					
(226.5	227.0)	Strong MT frac. fill zone		MT/FF-D/5%		Hydrothermal MT frac. filling and dissem.	
229.2	244.9	SILTSTONE +	HF(BT)/P/7	PY/D/1-3%		∠CT/45°/1-2	
		MONZONITE (~15%; sills)	EP-K/FE/2	MT/D/tr.			
		red-brown & pale green (CS = 3-6)	Albite/FE/3	CPY/D/tr.			
		30% bedded siltstone	↳ locally pervasive				
	(229.7)					BD/70°/3	
	(230.1)			PY-MT-CPY/D/1%		[illegible] PY-MT with tr. CPY	
	(232.7)					BD/85°/3	
	(234.6)					BD/85°/3	
	(235.2)					BD/85°/2	

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fd/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(235.4	235.8)	Monzodiorite → moderately magnetic; fine gr.		MT/D/1%		UCT/50°/2 ; LCT/20°/3	
(236.3	236.9)	fine gr. Diorite/Monzodiorite : Weak to Moderately Magnetic				UCT/?/? , LCT/15°/2	
	(237.3)			CPY/D/tr.			
(239.9	240.2)	Monzonite Breccia Monz. frags (up to 2cm)	K/P/5				
(240.2	242.2)	Crackled Alt. Siltstone	K/P/5-6 — Zako, Albite Alt.				
(242.2	243.5)	Monzonite strongly altered Feldspar Clay Alt. + more spotted in siltstone (243.0-243.5) Blocky, Rubbly Broken Core					
244.9	256.1	SYENOMONZONITE PORPHYRY medium green (GS=5) 40-60% Plagioclase phenos (fine gr) 30-50% Groundmass 5% Mafics (Biotite)	CH/P/3-4 EP-K/FE/4	PY/D/3% PY/FF/1% MT/D/1-2% CPY/D/tr.		LCT/70°/3 Non to Strongly Magnetic	
(244.9	245.1)			CPY/D/1-2%		Increased Mineralization: CPY at Upper Contact; 20 cm zone	
(246.4	249.0)	Strongly Magnetic		MT/D/3%			

HOLE NO. CH 90-22

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
	(250.6)	PY-MT Vein (1.0 cm @ 35° to c.a)	Strong K-spar-Epid Envelope	PY-MT/FF/10%			
(252.0	252.1)			CPY/FF/1%			
(254.6	255.4)	Shear/Fault; Blocky, Rubbly, Broken Core	CB/FF/5	Open Space → Carb. veins	Healed wt	SHR/?/?	
256.1	261.8	HYBRID ZONE:					
		Siltstone (≈65%) +	HF/P/8	PY/D/3%			
		Monzonite (≈35%, sills & dykes)	Albite/FE-P/5-6	MT/D/tr			
		light-medium green, grey-green (as=4					
(256.7	258.1)	Monzonite		PY/D/3%		UCT/80°/2	
				PY/FF/2%		LCT/80°/2	
(258.8	259.0)	Monzonite Sill				UCT/65°/3	LCT/50°/3
	(259.4)					BD/55°-65°/2-3	
(259.6	259.8)	Monzonite Sill				UCT/?/? Broken Core ;	LCT/65°/3 Conformable
	(260.0)					BD/60°/3	
	(260.6)					BD/65°/3	
(261.6	261.8)	Monzonite Sill				UCT/65°/3 Conformable	
261.8	EOH						

DRILL HOLE NO. CH 90-22

CH-90-22

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
51931	37	6	23	0.1	61	0.9								
932	6	8	20	0	100	0								
933	8	10	20	0.1	85	0.3								
934	10	12	20	0	95	0.1								
935	12	14	20	0	95	0.1								
936	14	16	20	0	95	0.1								
937	16	18	20	0	95	0.1								
938	18	20	20	0	100	0								
939	20	22	20	0.1	85	0.3								
940	22	24	20	0	50	1.0								
941	24	26	20	0	50	1.0								
942	26	28	20	0	100	0								
943	28	30	20	0.1	95	0.1								
944	30	32	20	0	95	0.1								
945	32	34	20	0	100	0								
946	34	36	20	0	90	0.2								
947	36	38	20	0	95	0.2								
948	38	40	20	0.1	100	0								
949	40	42	20	0.1	100	0								
950	42	44	20	0	100	0								
951	44	46	20	0	95	0.1								
952	46	48	20	0	100	0								
953	48	50	20	0.2	95	0.1								
954	50	52	20	0.1	95	0.1								
955	52	54	20	0.4	95	0.1								
956	54	56	20	0.3	95	0.1								

DRILL HOLE NO CH-90-22

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51957	56	58	2.0	0.1	100	0								
958	58	60	2.0	0.4	90	0.2								
959	60	62	2.0	0.2	100	0								
960	62	64	2.0	0.1	90	0.2								
961	64	66	2.0	0	100	0								
962	66	68	2.0	0.3	100	0								
963	68	70	2.0	0.8	100	0								
964	70	72	2.0	1.7	100	0								
965	72	74	2.0	1.3	100	0								
966	74	76	2.0	0.1	75	0.5								
967	76	78	2.0	0.1	85	0.3								
968	78	80	2.0	0	100	0								
969	80	82	2.0	0.8	95	0.1								
970	82	84	2.0	0.2	100	0								
971	84	86	2.0	0.5	95	0.1								
972	86	88	2.0	0	60	0.8								
973	88	90	2.0	0	100	0								
974	90	92	2.0	0	85	0.3								
975	92	94	2.0	0	95	0.1								
976	94	96	2.0	0.1	100	0								
977	96	98	2.0	0	95	0.1								
978	98	100	2.0	0	85	0.3								
979	100	102	2.0	0.3	95	0.1								
980	102	104	2.0	1.8	100	0								
981	104	106	2.0	0.8	95	0.1								
982	106	108	2.0	1.2	100	0								

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DRILL HOLE NO CH-90-22

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
51983	108	110	20	1.5	85	0.3								
984	110	112	2.0	1.2	100	0								
985	112	114	2.0	1.4	100	0								
986	11	116	20	0.2	95	0.1								
987	116	118	2.0	0	95	0.1								
988	118	120	20	0.1	95	0.1								
989	120	122	20	0.1	100	0								
990	122	124	20	0.5	90	0.2								
991	124	126	20	0.8	100	0								
992	126	128	2.0	0.7	100	0								
993	128	130	20	0.1	90	0.2								
994	130	132	2.0	0.1	100	0								
995	132	134	20	0.2	100	0								
996	134	136	20	0.4	95	0.1								
997	136	138	20	0	100	0								
998	138	140	20	0	85	0.3								
999	140	142	20	0.1	95	0.1								
512000	142	144	20	0	100	0								
001	144	146	20	0	100	0								
002	146	148	2.0	0	95	0.1								
003	148	150	20	1.0	100	0								
004	150	152	2.0	0	95	0.1								
005	152	154	20	0.1	100	0								
006	154	156	20	0	100	0								
007	156	158	2.0	0.1	90	0.2								
008	158	160	2.0	0	100	0								

DRILL HOLE NO CH-90-22

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
91009	160	162	2.0	0	100	0								
010	162	164	2.0	0	95	0.1								
011	164	166	2.0	0	95	0.1								
012	166	168	2.0	0	100	0								
013	168	170	2.0	0	100	0								
014	170	172	2.0	0	100	0								
015	172	174	2.0	0	100	0								
016	174	176	2.0	0.1	90	0.2								
017	176	178	2.0	0	100	0								
018	178	180	2.0	0.1	95	0.1								
019	180	182	2.0	0	95	0.1								
020	182	184	2.0	0.8	100	0								
021	184	186	2.0	2.2	100	0								
022	186	188	2.0	0.5	95	0.1								
023	188	190	2.0	0.3	95	0.1								
024	190	192	2.0	1.2	100	0								
025	192	194	2.0	0	100	0								
026	194	196	2.0	0.1	100	0								
027	196	198	2.0	0.1	100	0								
028	198	200	2.0	0.1	95	0.1								
029	200	202	2.0	0.1	100	0								
030	202	204	2.0	0.1	95	0.1								
031	204	206	2.0	0.2	90	0.2								
032	206	208	2.0	1.3	100	0								
033	208	210	2.0	0.9	95	0.1								
034	210	212	2.0	0.3	95	0.1								

DRILL HOLE NO CH-90-22

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
91035	212	214	2.0	0.1	100	0								
036	214	216	2.0	0	100	0								
037	216	218	2.0	0.1	100	0								
038	218	220	2.0	0.2	100	0								
039	220	222	2.0	0.3	95	0.1								
040	222	224	2.0	2.3	100	0								
041	224	226	2.0	2.2	100	0								
042	226	228	2.0	4.7	100	0								
043	228	230	2.0	3.0	100	0								
044	230	232	2.0	0.4	100	0								
045	232	234	2.0	0.2	95	0.1								
046	234	236	2.0	0.3	100	0								
047	236	238	2.0	0.2	100	0								
048	238	240	2.0	0.1	95	0.1								
049	240	242	2.0	0	100	0								
050	242	244	2.0	0.2	100	0								
051	244	246	2.0	0.4	95	0.1								
052	246	248	2.0	1.8	95	0.1								
053	248	250	2.0	3.3	95	0.1								
054	250	252	2.0	0.8	100	0								
055	252	254	2.0	1.4	90	0.2								
056	254	256	2.0	0.7	95	0.1								
057	256	258	2.0	0.4	90	0.2								
058	258	260	2.0	0.6	100	0								
059	260	261.8	1.8	0.2	94	0.1								
EOH														

DRILL HOLE NO CH-90-22

DRILL SUMMARY

CHUCH LAKE PROPERTY

CH 90-23

UTM N: 6124400
UTM E: 402116
GRID N: 107+75
GRID E:100+75

Elev.: 1420m
Depth: 213.1m
Azimuth: 315°
Dip: -46°

Metres (m)

0.0 - 1.2 CASING

1.2 - 31.0 SILTSTONE/SILLS
30% monzodiorite, weak chlorite, variable sericite, epidote and albite, 2-3% PY.

31.0 - 58.8 MONZONITE
- 31.0-35.3 weak epidote, k-spar and calcite, trace PY.
- 35.3-49.0 sheared, strong calcite, mod. to strong k-spar, 1-4% PY.
- 49.0-51.1 strong epidote and chlorite, 6% PY, 1.5-2.0% CP.
- 51.1-58.8 mod. k-spar, 3% PY, trace CP.

58.8 - 61.9 LITHIC-CRYSTAL TUFF
marker unit, strong calcite and weak epidote, 1-2% PY.

61.9 - 62.6 SILTSTONE
strong calcite +/- hematite, 1% PY.

62.6 - 63.6 FG PLAGIOCLASE PORPHYRY DYKE
mod. calcite and hematite.

63.6 - 78.1 SILTSTONE and MINOR SILLS
mod. to strong sericite, epidote and albite, weak to strong calcite, 1% PY, trace CP in quartz vein.

78.1 - 89.4 MONZODIORITE
weak chlorite and epidote, 1-10% PY.

89.4 - 118.0 SILTSTONE
sheared and fractured, mod. calcite and hematite, mod. to strong k-spar and epidote, 1% PY, trace CP.

118.0 - 155.2 SILTSTONE and MINOR SILLS
weak to strong calcite, weak to strong sericite, epidote and albite, 2% PY.

CH 90-23 cont.

165.2 - 171.3 MONZODIORITE
strong epidote and weak k-spar, 3-4% PY, 0.3% CP.

171.3 - 184.1 SILTSTONE and MINOR SILLS
weak chlorite and epidote, weak to mod. sericite, epidote and albite, 1-2% PY.

184.1 - 197.2 MONZODIORITE DYKE
mod. epidote, weak to mod. secondary biotite(?), 3% PY, 0.6% CP.

197.2 - 201.7 SILTSTONE
strong sericite, epidote and albite, weak epidote and calcite, 2-5% PY, trace CP and MT.

201.7 - 206.8 MONZODIORITE/INTRUSION BRECCIA
mod. to strong k-spar and epidote, weak to mod,. sericite, epidote and albite, 3% PY, trace CP.

206.8 - 213.0 SILTSTONE
weak epidote, k-spar and chlorite, 3% PY, trace CP.

213.0 E.O.H.

HOLE NO. CH 90-23

DRILLING CO. OLYMPIC DRILLING

HOLE TYPE DDH

LOCATION SKETCH

DEPTH	TESTS DIP ANGLE	AZIMUTH
COLLAR	-46°	315°
213.0	-43°	—

DATE STARTED: July 19, 1990
DATE COMPLETED: July 22, 1990
COLLAR ELEV.: 1420 m
NORTHING: 6124400
EASTING: 402116
AZIMUTH: 315°
DEPTH: 213.0m (699')
CORE SIZE: NQ

PROJECT: CHUCHI
N.T.S.: 93N/7E
LOCATION: 107+75N / 100+75E
DATE LOGGED: July 21, 22, 1990
LOGGED BY: RW

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	1.2	CASING					
1.2	2.2	MONZONITE PORPHYRY: -mod-st mag, dk grey-green (GS = 7-8) - tabular plag phenos ≤ 1 mm ~45%; v.f.g. mafic + kspar + diss Mt ~55%	A) Ep/D/1-2	A) Py/D/tr B) Py/FF/tr		∠CT obscured by broken + oxidized core	
2.2	31.0	SILTSTONE / (30% Sills): - pale green and black to purple-br hfls interbeds, .5-3 cm thick beds, beds well preserved, silty to sandy ~30% leuco-monz. hj sills with locally spotted, intrus contacts (eg 3.5, 11.4 m)	A) Ch/FF/2 B) Ser-Ep-Alb/FE/1-8?	A) Py/DB/1-2 B) Py-Ch/FF/1		5.5 BD/60°/3 26.2 BD/65°/3 Degree of Ser-Ep-Alb alteration difficult to estimate as it it predom bedding-controlled; pale green bands may also be tuffaceous beds or saussuritized sills. Alt increases toward monz contact at 31 m. Ser-Ep-Alb alt" "replaces" biotitic hfls.	

DRILL HOLE NO. CH 90-23

HOLE NO. CH 90-23

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		- sills from 5-100 cm				16-31m bleached and broken core as	
		thick, locally with abundant				sheared monz contact approached; fr	
		slst xenos; sills become				predom fr @ 0-5° CA	
		wider toward monz contact				20.6m is 10cm wide K-Py fr env	
		at 31m, M.S. increases					
		also				LCT obscured by shears; main contact	
31.0	58.8	MONZONITE:	31.0-35.3			within shear from 30.8-31.4m	
		- med grey-green, extensive	A) K/FE/1	A) Py-Ep/FF/<1			
		bleaching assoc with	B) Ep/FE/1-2			35.3-49.0 mod shear/gouge @ 0-5°, monz	
		numerous wk-mod shears	C) Ca/FF/1-4			or slst protolith?	
		gen 0-5° CA					
		- med-st mag; fg (≤1mm)	35.3-49.0				
		equant plag phenos 50%	A) Ca/P/9	A) Py-tr Cp-K Ep/FE/1-4		{ st carb (related to post-main shears)	
		- local small slst xenos	B) K ± Ep/FE/6-8	B) He-Ca/FF/tr		superimposed on st potassic alt	
		- local Mt veins					
			49.0-51.1				
		- 51.1-51.5 probable alt	A) Ep/FE/8	A) Py-Cp/D+FF/1%		→ est .5-1.0% Cu over 2.1m	
		xenolith of Lithic Tuff	B) Ep+Cl/FE/1-2				
		- 51.5-58.8 is dk grey	51.5-58.8				
		and st magnetic due to	A) K ± Ep/FE/4-6	A) Py-tr Cp/FE/3			
		3% vfg diss Mt and	B) Bi/D/tr				
		some sec (?) biot	C) Ca/P/3			LCT/80/3; sharp but locally irreg	

DRILL HOLE NO. CH 90-23

HOLE NO. CH 90-23

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
58.8	61.9	LITHIC - XTAL TUFF (Marker unit):					
		-white to grey-pink to dk grey-green					
		- ≤ 1cm subang to subr	A) Ca/EF+P/1-9	A) Py/D/1			
		clasts of slst, plag	B) Cp/D/2-3	B) Py/FE/1		LCT/75°/2-3; obscured by st carb ff.	
		xtals (broken)					
61.9	62.6	SILTSTONE:					
		-pale pink-grey, beds	A) Ca+He/EF/	A) Py/D/1		Shearing parallels CA, slickensides oriented	
		not preserved	7			⊥ to CA	
						LCT/10°/2-3, sheared	
62.6	63.6	Fg Feld Porph Dyke:					
		- strongly magnetic, low	A) Ca-He/FF/2-6				
		angle to core contacts,				LCT/5-10°/2-3	
		chilled margins; plag					
		phenos .5-1.0mm ~20%					
		aug phenos up to 5mm ~					
		20%, aphanitic grey					
		gm.					
		- post-min					
63.6	78.1	SILTSTONE:	A) Se-Cp-Alb/P+FF/6-8			63.7 1cm wide tect bx vein @ 5° CA	
		-predom pale green with	B) Ca/FF/1-7			- local gougy ff @ 0-5°	
		only minor remnant biot		A) Py/D/≤1		- 64.1-64.5 2 purple qtz ± Py, tr Cp veins	
		- felsic-monz sills 75.3-75.6,		A) Py-Cp/QV/tr		.5cm thick @ 5-10° CA	
		70.9-71.2 m				LCT/50°/3; conformable	

DRILL HOLE NO. CH 90-23

HOLE NO CH90-23

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		- nearly complete Sc-Ep-Alb					
		alt ∴ beds not preserved.					
78.1	89.4	MONZONITE PORPHYRY:				81.2-118.0 broken, mud gouge, perv carb	
		- lt to med grey-green	78.1-81.2			throughout, random fr @ 0°, 45°;	
		- non-magnetic	A) Ch/FF/3	A) Py/D/tr-10%		st. gouge @ 0° from 112-114 m	
		- stubby to equant plag phenos	B) Cb-Ep/D/2-3	B) Py-Cl/FF/tr			
		≤1mm ~50%; aphanitic	C) Cy/P/1-3				
		interstitial K ~5%, 3-5%					
		chl mafics, py	81.2-89.4				
		- local slst xenos	A) K-Ep/FE/1-5	A) Py-K-Ep/FE/≤1			
		- local zones of increased	B) Ca/FF/1-8	B) Py/D/tr		LCT obscured by fr + K-alt (best alt	
		diss py + chl (after biot?) (to 10%)				localized at contact)	
89.4	118.0	SILTSTONE (sheared):					
		- pale green, beds only	A) Ca±He/FF+P/3-9			BD/55°/2	
		locally evident, much	B) K-Ep/FE/5-8				
		shearing + fr throughout		A) Py/D/1		K alt spans Monz/SLTST contact,	
				B) Cp-Ep/FF/tr		superimposed by late shearing + carb	
						113.5 single sheared qtz-py vein	
118.0	165.2	SILTSTONE (relatively unsheared):				LCT relatively abrupt, minor broken zone	
		- pale green/purple hr-ttls				122.6-124.6 with 1cm carb veins @75°	
		interbedded, well-preserved					
		thin beds	A) Ca/FF/0-7	A) Py-Ca/FE/1		126.5, 144.8, 152.2 BD/60-65°/3	
		- local sills, 127.6-128.8 is	B) Sc-Ep-Alb/FE/3-7	B) Py/DB/1-2			
		largest leucomonz sill; best				122.7 1cm qtz-py-cp vein @ 45° with epid-K	
		alt on footwall	C) Ch/FF/2			env	

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DRILL HOLE NO. CH90-23

HOLE NO. CH 90-23

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		- no sills 128.8-155.0				134.4-134.6 3-5% diss Py	
		- contact zone(?) from 155-161.0m with fr and				140.0-165.2 m Se-Ep-Alb alt increases	
		disjointed beds @ 20° CA,				140.5-141.0 shear fr + carb @ 0° CA	
		locally extremely bi-py					
		rich (up to 10% Py over				LCT / - / 3 ; sharp irreg but overall conformable	
		10cm), sulphides "conformable"					
165.2	171.3	MONZONITE PORPHYRY					
		- fg, dkgr to black,	A) Ep / D / 7	A) Py-tr Cp / D / 3-5		Py appears to replace Mt	
		st mag (2-3+% diss Mt)	B) K ± Ep / FE / 3			tr to .1% Cu	
		- plag phenos ≤ 1mm ~		B) Py-K-Ep / FE / 1			
		50%, vfg biot 10-				LCT / ~60° / 2 ; obscured by K alt at	
		20%				contact (30 cm wide env)	
171.3	184.1	SILTSTONE :					
		- beds locally well-preserved	A) Se-Ep-Alb / FE / 3-6	A) Py / DB / 1-2		176.6 BD / 55° / 3 ; 2-10 mm beds	
		- variable se-Ep-Alb alt of	B) Ch / FF / 1	B) Py-Ep-Mt / FF / ≤1			
		blks beds	C) Ep ± K / FF / 6-3				
		- narrow pyritic monz sills					
		173.0-173.3, 175.5-175.8				LCT / 70° / 3 (~conformable), st fr 183.2-	
		- local lenses of feld-rich				184.1	
		sand					

DRILL HOLE NO. CH 90-23

HOLE NO. CH 90-23

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/cm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
184.1	197.2	MONZONITE PORPHYRY:	(DYKE - with	biotized - mineralized	contacts.)		
		- crowded fg-mg porph,					
		plag phenos 50%, acicular					
		augite to 3mm ~10%	A) K-Ep±Cb/FE/5-6	A) Py-trCp/D/1			
		- 2% diss Mt + local					
		Mt veinlets	B) Bi/P/1-6	B) Py-Cp-K-Ep/FE/1		est .2% Cu over 13.1m	
		- st mag., med to dk grey-gr					
			C) Ep/D/4-6	C) Py-Cp/FE/1		sporadic biot² 184.1-186.5 assoc with	
		- 7cm subr clast (?) of				diss Py-Cp, also 196.9-197.2. Contact-	
		coarser feld porph	D) Cb/FE/1-2			related alteration	
						LCT/60°/2-3; discordant (⊥ beds), sharp	
						slightly irreg	
197.2	201.7	SILTSTONE (10% sills):					
		- wk mag locally (see Mt)	A) Se-Ep-Alb/P+D/7			199.6 BD/55°/3	
		- dk br hfls interbedded	B) Ep±K/D/FE/1-3				
		with pale green subord	C) Cb/FE/2	A) Py-trCp-Mt-Ep/DB/2-5		LCT/55°/1; obscured by Ep-Ser alt from	
		thin tuffac, sandy beds				201.0-201.7	
				B) Py-trCp-Mt-Ep±K/FE/1			
201.7	206.8	MONZONITE ± INTRUSIONAL BX DYKE or SILL:					
		- inclusions of SLST increase					
		from 5-80% over this	201.7-203.1				
		interval	A) Ep-K/FE/7	A) Py-tr Cp/D/1			
		- fg crowded monz porph,		B) Py-Cp-Ep-K/FE/2		LCT autobrecciated	
		mod-st magnetic	203.1-206.8				
		- 'clasts' of rounded monzonite	A) Se-Ep-Alb/P/2	(A) Py/D/3	B) Py-tr	Cp-Ep/FE/≤1	

DRILL HOLE NO. CH 90-23

HOLE NO CH 90-23

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
206.8	213.0	SILTSTONE :					
	EOH	- gen massive dk br-black, wk hfls	A) Si-Ep-Alb/FE/1	A) Py-tr Cp-Ep/FF/1		210.4 BD/50°/3 ; tuffac sandy bed or sill	
		- 2 5-10 cm leuco-monz sills	B) Ep ±K-cl/FE/2-3	B) Py/DB/1-2		207.5-207.8 20° Ep-Ca ± K-Py env	
						211.2-211.5 0° " " "	
				C) Py-Mt-Ep/D/1			

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DRILL HOLE NO. CH 90-23

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91060	1.2	4	2.8	.3	82	.5								
61	4	6	2	0	70	.6								
62	6	8	2	.1	100	0								
63	8	10	2	.1	95	.1								
64	10	12	2	0	85	.3								
65	12	14	2	0	100	0								
66	14	16	2	0	85	.3								
67	16	18	2	0	90	.2								
68	18	20	2	0	95	.1								
69	20	22	2	0	85	.3								
70	22	24	2	0	70	.6								
71	24	26	2	.3	95	.1								
72	26	28	2	.5	80	.4								
73	28	30	2	.1	100	0								
74	30	32	2	3.6	75	.5								
75	32	34	2	1.4	100	0								
76	34	36	2	4.3	90	.2								
77	36	38	2	.1	70	.6								
78	38	40	2	0	70	.6								
79	40	42	2	0	90	.2								
80	42	44	2	0	85	.3								
81	44	46	2	0	80	.4								
82	46	48	2	1.1	95	.1								
83	48	50	2	.4	90	.2								
84	50	52	2	2.8	100	0								
85	52	54	2	6.7	100	0								

DRILL HOLE NO. CH90-23

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
91086	54	56	2	1.7	90	.2								
87	56	58	2	1.1	100	0								
88	58	60	2	.7	100	0								
89	60	62	2	0	100	0								
90	62	64	2	.8	90	.1								
91	64	66	2	.1	100	0								
92	66	68	2	.1	100	0								
93	68	70	2	0	90	.2								
94	70	72	2	.1	95	.1								
95	72	74	2	.1	100	0								
96	74	76	2	.1	75	.5								
97	76	78	2	0	90	.2								
98	78	80	2	0	90	.2								
99	80	82	2	0	90	.2								
91100	82	84	2	0	100	0								
01	84	86	2	0	100	0								
02	86	88	2	0	100	0								
03	88	90	2	.1	100	0								
04	90	92	2	.1	85	.3								
05	92	94	2	0	75	.5								
06	94	96	2	.1	85	.3								
07	96	98	2	.1	95	.1								
08	98	100	2	.1	85	.3								
09	100	102	2	0	65	.7								
10	102	104	2	0	80	.4								
11	104	106	2	.1	80	.4								

DRILL HOLE NO. 90-23

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91112	106	108	2	0	90	.2								
13	108	110	2	.1	95	.1								
14	110	112	2	.1	95	.1								
15	112	114	2	0	90	.2								
16	114	116	2	0	65	.7								
17	116	118	2	0	60	.8								
18	118	120	2	0	90	.2								
19	120	122	2	0	90	.2								
20	122	124	2	0	70	.6								
21	124	126	2	0	90	.2								
22	126	128	2	0	100	0								
23	128	130	2	0	85	.3								
24	130	132	2	0	100	0								
25	132	134	2	0	90	.2								
26	134	136	2	.1	100	0								
27	136	138	2	0	100	0								
28	138	140	2	0	100	0								
29	140	142	2	.1	100	0								
30	142	144	2	0	100	0								
31	144	146	2	.1	85	.3								
32	146	148	2	.1	100	0								
33	148	150	2	0	85	.3								
34	150	152	2	.1	90	.2								
35	152	154	2	.1	95	.1								
36	154	156	2	0	100	0								
37	156	158	2	.1	90	.2								

DRILL HOLE NO. 90-23

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91138	158	160	2	.1	100	0								
39	160	162	2	.4	100	0								
40	162	164	2	.3	85	.3								
41	164	166	2	.5	100	0								
42	166	168	2	2.6	100	0								
43	168	170	2	4.6	95	.1								
44	170	172	2	.6	95	.1								
45	172	174	2	.2	100	0								
46	174	176	2	.4	85	.3								
47	176	178	2	.3	95	.1								
48	178	180	2	.2	100	0								
49	180	182	2	.2	95	.1								
50	182	184	2	0	85	.3								
51	184	186	2	.2	100	0								
52	186	188	2	2.0	90	.2								
53	188	190	2	3.9	100	0								
54	190	192	2	4.3	100	0								
55	192	194	2	4.9	95	.1								
56	194	196	2	2.9	100	0								
57	196	198	2	1.3	95	.1								
58	198	200	2	.4	95	.1								
59	200	202	2	.5	100	0								
60	202	204	2	1.0	95	.1								
61	204	206	2	.3	100	0								
62	206	208	2	.5	100	0								
63	208	210	2	.2	95	.1								

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DRILL HOLE NO. GH90-23

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91164	210	212	2	0	100	0								
65	212	213	1	.1	100	0								
		EOH												

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DRILL HOLE NO CH 90-23

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-24

UTM N: 6124337m
UTM E: 401820m
GRID N: 107+79
GRID E: 97+75

Elev.: 1460m
Depth: 110.6m
Azimuth: 296°
Dip: -47°

Metres (m)

0.0 - 20.7	CASING	
20.7 - 29.5	SILTSTONE minor monzodiorite, generally well bedded @ 50-60°, strong hornfels, mod. albite and sericite, weak epidote and k-spar, 1-2% PY.	
29.5 - 34.2	MONZODIORITE mod. to strong chlorite, mod. k-spar, weak to mod. epidote, carb. and hematite, 3-5% PY.	
34.2 - 36.7	SILTSTONE bedding @ 60° & 80-85°, strong biotite hornfels, weak albite and sericite, 1-2% PY.	
36.7 - 43.1	PLAGIOCLASE PORPHYRITIC MONZODIORITE strong chlorite, weak to mod. epidote, k-spar and carb., 1-2% PY.	
43.1 - 47.7	SILTSTONE and MONZODIORITE SILL bedding @ 65-85°, strong hornfels, weak to mod. albite and sericite. 1-2% PY.	
47.7 - 60.4	MONZODIORITE mod. to strong chlorite and epidote, weak k-spar, carb. and hematite, 1-3% PY, locally strongly magnetic.	
60.4 - 64.0	SILTSTONE bedding @ 75-80°, strong hornfels, mod. k-spar, weak epidote, 1-3% PY.	
64.0 - 73.2	MONZODIORITE mod. k-spar and carb., weak epidote, 2-3% PY.	
73.2 - 76.2	SILTSTONE poor bedding @ 80-85°, strong hornfels and albite, 3% PY.	

CH 90-24 cont.

76.2 - 100.6 MONZODIORITE
very strong k-spar, mod. chlorite and carb., weak hematite,
1% PY. 0.25% CP (as 2-3% CP over 20-30cm from 77.0-84.1m)

100.6 - 118.6 MONZODIORITE
mod. chlorite, carb. and hematite, weak epidote and k-spar,
2-3% PY.
100.6-104.7 strong hydrothermal PY-MT veins/irregular veinlets

118.6 E.O.H.

BP

HOLE NO CH 90-24

DRILLING CO	LOCATION SKETCH	DEPTH	DIP ANGLE	AZIMUTH				
OLYMPIC	N	COLLAR	-47°	296°	DATE STARTED	July 22nd, 1990	PROJECT:	CHUCHI LK.
		118.6m	-42°	296°	DATE COMPLETED:	July 24th, 1990	N.T.S.:	93N/7E
					COLLAR ELEV.:	1460m	LOCATION:	Grid Coords:
					NORTHING:	6124387 N		107+78 N
					EASTING:	401820 E		97+75 E
					AZIMUTH:	296°		
					DEPTH:	118.6m (389 ft.)	DATE LOGGED	July 24th, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	DRB

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	20.7	CASING					
20.7	29.5	SILTSTONE + minor MONZODIORITE (≈5%) medium brown, red-brown to pale green, green-grey (65:37)	HF/P/7-8 Albite-SE/P/5-6 EP-K/FE/1	PY/D/1-2% Non Magnetic		LCT/40°/3 Sharp contact	
						Albite Alteration: fracture & bedding (parallel) controlled	
(20.7	23.7)					Moderately Oxidized Fractures; Rusty, Orange Stained	
(20.7	29.5)					Strongly Fractured; Blocky, Rubbly Broken Core	
	(@21.1)					BD/50°/2	
	(@24.3)					BD/60°/3	
	(@26.4)					BD/50°/3	
	(@28.4)					BD/50°/3	

DRILL HOLE NO. CH 90-24

HOLE NO. CH 90-24

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
29.5	34.2	MONZODIORITE PORPHYRY	CH/P/6-7	PY/D/3-5%		LCT/?/? Broken Core	
		medium to dark green (cs=5-7)	K/P/5	Non to Weakly Magnetic		Pervasive Kspar Alt. predom. @ Upper Contact	
		fine gr. ~40-60% Plagioclase phenos	EP/D/4				
		~5-10% mafics (biotite, chloritized)	CB-HM/FF/3				
		~40-50% groundmass					
(29.5	34.2)	Strong fracturing (Sheared?)				Strongly Fractured; Blocky, Rubbly (to gravel, locally) Brkn Core	
	(@34.0)	Shear, with minor gouge				SHR/?/?	
34.2	36.7	SILTSTONE	HF(BT)/P/8	PY/D/1-2%		LCT/?/? Broken Core	
		predom. medium brown;	Albite-SE/FE/2				
		red-brown, minor pale green (cs.5-8)					
(34.2	36.7)					Strongly Fractured; Blocky, Rubbly Broken Core	
	(@34.5)					BD/80°/2	
	(@34.6)					BD/60°/2	
	(@35.0)					BD/85°/2	

DRILL HOLE NO. CH 90-24

HOLE NO. CH 90-24

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)
36.7	43.1	PLAGIOCLASE PORPHYRITIC MONZODIORITE medium green, green-grey, (GS=5-6) ≈ 50-60% plagioclase phenos (<1 to 3 mm; La & Ta shape) ≈ 10% mafics (Biotite + Augite; chloritized) ≈ 30-40% groundmass	CH/P/7 EP-K/FF/3-4 CB/FF/3	PY/D/1% PY/FF/<1% Non to Moderately Magnetic		LCT/75°/3 Strong chlorite alt. towards contacts, associated increased PY mineralization
(36.7	38.0)	Increased PY Mineralization		PY/D/3-5%		
(36.7	43.1)					Strong fracturing; Blocky Broken Core
43.1	47.7	SILTSTONE + MONZODIORITE (≈ 20%, sill/dyke) light-medium green-grey and medium red-brown (GS=3-5)	HF/P/7 Albite-SE/FE/4	PY/D/1-2% Non Magnetic		LCT/65°/3
(43.1	47.7)					Strongly Fractured; Blocky & Rubbly Broken Core
	(@43.3)					BD/85°/2
	(@43.6)					BD/70°/3
	(@44.7)					BD/70°/3

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DRILL HOLE NO. CH 90-24

HOLE NO. CH 90-24

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(45.6	46.5)	Monzodiorite (Sill) fine gr. * 45-50% plagioclase phen * 40-50% groundmass * 5% mafics (biotite)		PY/D/3-5% Non Magnetic		Contacts: Broken Core	
	(@47.6)					BD/65°/3	
47.7	60.4	MONZODIORITE medium green, green-grey (cs=5) fine grained, (subporphyritic) * 50-60% plagioclase phenos * 10-15% mafics (Biotite + Augite?) * 30-35% groundmass	CH/P/5-7 EP/D-FF/7 EP-K/FE/3 CB-HM/FF/2	PY/D/1-2% PY/FF/1% MT/D/<1-1%		LCT/?/? Broken Core Strong fracturing: Blocky, Broken Core Non to Moderately Magnetic, locally strong	
(48.8	49.1)	CHLORITE-PYRITE fracture fill with EPIDOTE-KSPAR frac. envelope @10° to C.A.					
	(@52.3)	Shear @40° to C.A.; Chlorite-Carb.-Pyrite-Hematite (3.0 cm wide)				SHR/40°/1-2	
(52.3	52.7)	Irregular frac. fill (@5-10° to C.A) with EPID.-KSPAR PY-MT/FF/10%					
(55.3	55.6)	Strongly Chloritized, subangular (up to 5 cm) ANDESITE & AUGITE PORPHYRY FRAGS.					
(58.6	59.0)					Rubble & Gravel Size core; Intense Fracturing (Shear?)	

HOLE NO CH 90-24

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
60.4	64.0	SILTSTONE	HF/P/7	PY/D/1-3%		LCT/?/? Broken Core	
		light green-grey to medium	K/FE-P/4	Non Magnetic			
		red-brown (GS=3-5)	EP/D/1-2			Strongly Fractured: Blocky & Rubbly Core	
	(@61.0)					BD/80°/2	
	(@61.5)					BD/75°/3	
	(@62.8)					BD/80°/3	
	(@63.8)					BD/75°/3	
64.0	73.2	Altered MONZODIORITE	K/P/5-7	PY/D/2-3%		LCT/?/? Broken Core	
		light-medium pink-grey-green (GS=3-4)	CB/FF/5	MT/D/tc			
		≈ 50-60% plagioclase phenos,	EP/D/2	Non to Weakly Magnetic		Strong Fracturing: Blocky, Rubbly & Gravel	
		(fine gr., subporphyritic)				Zones of strong Carbonate fracture fill	
		≈ 40-50% groundmass (Kspar)					
		≈ 5-10% mafics (biotite + Augite?)					
(64.0	68.3)	Increased PY mineralization &	EP/D/3	PY/D/3-5%			
		dissem/spotty Epidote Alt.					
(68.3	73.2)			PY/D/1%			
	(@69.0)	Shear with gouge (0.5cm wide gouge)				SHR/40°/3	

HOLE NO CH 90-24

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
73.2	76.2	Altered SILTSTONE + minor altered Intrusive (Monzodi.?) light green-grey (GS = 2-4), minor pink-green	HF/P/7-8 Albite/P/7-8	PY/FF/3% PY/D/<1% MT/D/tr.		LCT/?/gradational into strongly altered intrusive (?) Non Magnetic, local Magnetite Blebs with PY	
	(@73.5)					BD/80°-85°/1	
(74.3	74.9)	PY-CARB. VEIN (1-2 cm wide @10° to C.A.)		PY/V/50%			
76.2	100.6	Intensely Potassic Altered MONZODIORITE (?) protolith uncertain due to intense alteration, possible altered siltstone frags locally ? light to medium 'salmon' pink & light to medium green (GS=3)	K/P/8-9 CH/FF-P/5 CB/FF/5-6 HM/FF/2	PY/D/1% CPY/D/¼% MT/D/tr.		LCT/?/Gradational out of alteration zone Non Magnetic to locally moderately magnetic	
(76.2	100.6)					Strongly Crackled, Brecciated, Potassic (Kspar) Flooded with moderate to strong fracture controlled epidote alt., and moderate to strong late carbonate fracture filling. Weakly Sheared; Weak to Strong foliation @10°-30° to C.A. Foliation predates, later carbonate alt.	

HOLE NO CH 90-24

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(77.0	84.1)	CPY Mineralization, locally over sections within this interval observe	20-30 cm 2-3% dissem CPY	CPY/D/½-1% PY/D/1-2%			
(86.9	87.6)	DIORITE (Dyke?): fine gr. to aphanitic; medium green (GS=6)	CH/P/8-9			UCT/25°/1 very irregular; LCT/30°/2 wavy	
(91.1	92.6)	Increased PY		PY/D/5%			
(99.0	99.3)	Sheared, Gravel & Rubble					
100.6	118.6	MONZODIORITE medium green, green-grey (GS=5-6) ~40-60% plag. phnts (fine gr., subporphyritic) ~30-40% groundmass ~5-15% mafics (biotite + ? Augite)	CH/P/5 CB-HM/FF/4 EP-K/FF/2-3	PY/D/1-2% PY-MT/V-FF/2% MT/D/<1%		Non to strongly Magnetic	
(100.6	104.7)	Strong PY-MT veins/irregular veinlets	(0.3-1.0cm wide) ~20° to C.A.	PY-MT/V/7%		Hydrothermal PY-MT Veins	
	(@110.5)	Augite Porphyry (2x3cm) subrounded frag.					
(111.4	118.6)	medium-dark green-black (GS=7-8) moderate biotite (~20% BT) alt.?	BT/P/5				
(115.5	115.7)	PY-MT Vein (1.0cm wide @10° to C.A.)		PY-MT/V/10%			
118.6	EOH						

DRILL HOLE NO. CH 90-24

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
91166	20.7	24	3.7	0	38	2.3								
67	24	26	2	.1	70	.6								
68	26	28	2	.1	80	.4								
69	28	30	2	.2	75	.5								
70	30	32	2	[illegible]	100	0								
71	32	34	2	.4	70	.6								
72	34	36	2	0	90	.2								
73	36	38	2	.1	70	.6								
74	38	40	2	.1	90	.2								
75	40	42	2	.3	80	.4								
76	42	44	2	.1	100	0								
77	44	46	2	0	85	.3								
78	46	48	2	.8	65	.7								
79	48	50	2	.5	95	.1								
80	50	52	2	2.0	95	.1								
81	52	54	2	.7	100	0								
82	54	56	2	2.1	95	.1								
83	56	58	2	1.1	85	.3								
84	58	60	2	.2	80	.4								
85	60	62	2	.1	90	.2								
86	62	64	2	0	80	.4								
87	64	66	2	[illegible]	75	.5								
88	66	68	2	.1	70	.6								
89	68	70	2	.1	80	.4								
90	70	72	2	0	90	.2								
91	72	74	2	0	100	0								

DRILL HOLE NO. CH90-24

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91192	74	76	2	0	95	.1								
93	76	78	2	0	95	.1								
94	78	80	2	0	95	.1								
95	80	82	2	0	95	.1								
96	82	84	2	.1	100	0								
97	84	86	2	.1	85	.3								
98	86	88	2	0	100	0								
99	88	90	2	0	100	0								
91200	90	92	2	0	95	.1								
1	92	94	2	0	95	.1								
2	94	96	2	.1	95	.1								
3	96	98	2	.5	95	.1								
4	98	100	2	.4	95	.1								
5	100	102	2	.6	95	.1								
6	102	104	2	.3	100	0								
7	104	106	2	.2	95	.1								
8	106	108	2	.1	95	.1								
9	108	110	2	1.2	95	.1								
10	110	112	2	3.0	100	0								
11	112	114	2	2.1	100	0								
12	114	116	2	1.9	95	.1								
91213	116	118.6	2.6	2.5	88	.3								
		EOH												

PAGE 2 OF 2

DRILL HOLE NO. 90-24

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-25

UTM N: 6124715m
UTM E: 401400m
GRID N: 111+13
GRID E: 93+62

Elev.: 1560m
Depth: 164.3m
Azimuth: 274°
Dip: -47.5°

Metres (m)

0.0 - 3.0	CASING	
3.0 - 18.0	MONZODIORITE	weak chlorite and epidote, 2-3% PY.
18.0 - 29.8	SILTSTONE and MINOR SILLS	mod. sericite, epidote and albite, 3-4% PY.
29.8 - 32.0	MONZODIORITE SILL	weak chlorite and epidote, 3-4% PY.
32.0 - 48.5	SILTSTONE and MINOR SILLS	weak sericite, epidote and albite, trace to 2% PY.
48.5 - 60.2	AUGITE-PLAGIOCLASE TRACHYTIC PORPHYRY	post-mineralization(?), weak epidote, trace PY.
60.2 - 106.5	MONZODIORITE	weak to mod. chlorite, epidote +/- k-spar, 2-3% PY, trace CP.
106.5 - 106.9	SILTSTONE	mod. calcite, trace PY.
106.9 - 116.6	TRACHYTIC COARSE-GRAINED PLAGIOCLASE PORPHYRY	weak calcite, epidote, chlorite and sericite, 2% PY.
116.6 - 128.3	SILTSTONE	weak to strong sericite, epidote and albite, weak calcite, 1% PY.
128.3 - 164.3	MONZODIORITE	weak calcite, epidote and chlorite, locally mod. to strong epidote and k-spar, 2-3% PY.

164.3 E.O.H.

HOLE NO. CH90-25

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-47.5°	274°	DATE STARTED:	July 24, 1990	PROJECT:	CHUCHI
		164.3m	-45°	—	DATE COMPLETED:	July 27, 1990	NTS:	93N/7E
					COLLAR ELEV.:	1560m	LOCATION	111+18N / 93+62E
					NORTHING:	6124715		
					EASTING:	401400		
					AZIMUTH:	274°		
					DEPTH:	164.3m (539')	DATE LOGGED:	July 26-27, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION		STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	3.0	CASING					
3.0	18.0	MONZODIORITE/MONZ PORPHYRY:					
		- equant to stubby plag phenos				6.5-9.3, 14.5-25.2 zone of low recov,	
		avg .5mm ~50%, also 2-3%	A) Ep-Cl/D/4	A) Py/D/2-3		broken and oxidized along fr	
		phenos avg 2-3mm Subporph,					
		- chl avg ~10%, 1-2% diss		B) Py-Cp/FF/tr			
		Mt					
		- med grey-green with local					
		bleached zones, med-st mag					
		- 1-5% xenos of subr avg				LCT obscured by broken, oxidized core	
		porph ancles to 2cm, local					
		subr epid patches may be					
		replacements of these xenos					

DRILL HOLE NO. CH90-25

HOLE NO. CH 90-25

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frim	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
18.0	29.8	SILTSTONE with sills :					
		- dk purple-br hfls with	A) Se-Ep-Al/FF/5	A) Py/DB/2-4		23.4 BA/40°/3	
		pale green pyritic leuco					
		monz sill (some may be	'	B) Py/FF/1-2			
		coarser gr tuffac beds)				LCT/40°/2, marked by st ep-al alt, appears conformable	
29.8	32.0	MONZONITE PORPHYRY SILL :					
		- 30% Fy stubby plag phenos	A) Cb/D/4	A) Py/D/3-4		Upper contact of sill is wk-mod oxidized,	
		- 60% interstitial K				lower contact is K-flooded	
		- wk to non-mag	B) K/P/4	B) Py-Ep/FF/[illegible]			
						LCT/40°/1	
32.0	48.5	SILTSTONE/SILLS :					
		- dk purple-br hfls slst with				35.6 BA/40°/2-3	
		locally intense silling; sills	A) Se-Ep-Al/FF/2-4	A) Py/D+FF/tr-2, mainly in sills		Local oxidized Fe zones predom sub// CA.	
		1-10 cm thick leucomonz;					
		contacts locally show "spalling"				LCT orientation obscured by broken core, dyke is chilled at contact	
		- Est 35% of section is sills					
		(* Intrusion of sills into soft,					
		rel unconsolidated seds)					
48.5	60.2	AUG-PLAG PORPHYRY DYKE :					
		- andes-trachyte, strongly	A) Ep/D/0-3 (possibly amygdules)	A) Py/D/tr		51.5-52.4 Shear @ 50° CA, healed by carb-ser-clay - 1% Py	
		porphyritic where not chilled					
		- equant Aug avg 1.5mm, ~2%		B) Py/FF/tr			
		- plag avg 5mm ~30%				LCT/75°/3, sharp, chilled	
		- 1-2% Alt; post-min					

DRILL HOLE NO. CH 90-25

HOLE NO. CH90-25

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
60.2	106.5	MONZON/MONZ PORPHYRY !				Local 10-20 cm zones of ground core	
		- fg equig to wk porphyritic					
		- stubby plag avg 5mm, ~	A) Ep±K/FF/1-6	A) Py/D/1-2			
		65%				82.0 25cm of chlorit shear @ 5-10° CA	
		- wk mag, med to dk green	B) Ca/FF/1-2	B) Py-Cp-ltCp/FF/1			
(77.9	78.1)	AUG-PLAG PORPHYRY DYKE	C) Ep-Ch/D/3-5			91.4-91.8 st Carb veining @ 75°, 1-2	
		UCT/50°/3				cm with 2-3% Py	
		LCT/15°/2-3					
		- Same as 48.6-60.2					
						LCT at 106.5 / 50° / 1, gradational over	
		- local andes xenoliths				1-2 cm	
106.5	106.9	SILTSTONE					
		- lt to med grey, no beds	A) Ca/FF/5	A) Py/FF/tr			
		evident					
		- contains 10 cm sill or					
		dyke of bladed feld				LCT - broken core	
		porph (see 106.9-116.6)					
106.9	116.6	Bladed Feldspar Porphyry Dyke !					
		- st mag, med to dk green	A) Se/P/2	A) Py/D/1-2			
		- 2-6mm (avg 3mm) Blk-like	B) Ep-Ch/P/3-4	B) Py-Ep-Ac/FF/1		1-3% subr chloritic clots 1-2cm, possibly	
		plag phenos ~20-50%, locally	C) Ca/FF/2			amygdules	
		aligned at 30-75° CA	D) Ep-Ak/FF/2-3				
		- ~70% aug ≤1mm, K gm				LCT/60°/1 ; irreg intrus contact	

DRILL HOLE NO. CH90-25

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
116.6	128.3	SILTSTONE:					
		- dk purple-br HFls with				117.5 BD/65°/3	
		~20% narrow leuco-monz				123.1 BD/30°/3	
		sills	A) Si-Ep-Al/FE/	A) Py ± Po/DS/≤1 but			
		- local "spotting" of siliceous	2-8, but	upto 6% over 10cm intervals			
		beds, beds variable	121-126m				
		due to local distortion	B) Ca/FE/1-3	B) Py ± Cp/FF/≤1			
		by silling				LCT gradational over 40cm (alternating SLST and MONZ)	
128.3	164.3	MONZOD/MONZ PORPHYRY:					
	EOH	- fg-mg, crowded; lt to dk					
		grey-green, mod-st mag	A) Ca/FE/1-3	A) Py-Cp/FF/1-2		141.6 + 154.2 5cm carb veins @ 75° CA	
		- slst inclusions to ~129.8					
		- plag phenos avg 1mm ~60%	B) Ep±K/FE/1-7	B) Py/D/1-2			
			C) Ep-Ch/D/2-5				
		- 150.1-151.0 Slst inclusion,					
		Si-Ep-Al alt beds @ 75°	155-164.3				
			Ep-K/FE/5 pervom on 30° FF, 3-4% Py				

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91214	3.0	6.0	3	2.1	67	1.0								
15	6	8	2	2.1	50	1.0								
16	8	10	2	.2	75	.5								
17	10	12	2	.6	80	.4								
18	12	14	2	.7	90	.2								
19	14	16	2	.5	75	.5								
20	16	18	2	.3	60	.8								
21	18	20	2	0	60	.8								
22	20	22	2	0	55	.9								
23	22	24	2	0	70	.6								
24	24	26	2	0	85	.3								
25	26	28	2	0	95	.1								
26	28	30	2	0	85	.3								
27	30	32	2	.2	75	.5								
28	32	34	2	0	90	.2								
29	34	36	2	0	90	.2								
30	36	38	2	0	95	.1								
31	38	40	2	0	95	.1								
32	40	42	2	0	95	.1								
33	42	44	2	.1	95	.1								
34	44	46	2	0	95	.1								
35	46	48	2	0	95	.1								
36	48	50	2	.6	95	.1								
37	50	52	2	.6	80	.4								
38	52	54	2	1.4	80	.4								
39	54	56	2	2.1	90	.2								

DRILL HOLE NO. CH90-25

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91240	56	58	2	2.3	75	.5								
41	58	60	2	.2	75	.5								
42	60	62	2	.6	100	0								
43	62	64	2	.4	85	.3								
44	64	66	2	.3	100	0								
45	66	68	2	0	100	0								
46	68	70	2	.1	100	0								
47	70	72	2	0	95	.1								
48	72	74	2	.2	100	0								
49	74	76	2	.1	75	.5								
50	76	78	2	.1	90	.2								
51	78	80	2	1.0	100	0								
52	80	82	2	.1	80	.4								
53	82	84	2	1.0	95	.1								
54	84	86	2	1.9	100	0								
55	86	88	2	2.4	95	.1								
56	88	90	2	3.3	90	.2								
57	90	92	2	2.5	100	0								
58	92	94	2	3.0	100	0								
59	94	96	2	1.5	80	.4								
60	96	98	2	.4	100	0								
61	98	100	2	1.2	100	0								
62	100	102	2	.3	95	.1								
63	102	104	2	.3	100	0								
64	104	106	2	.7	100	0								
65	106	108	2	1.5	90	.2								

DRILL HOLE NO. CHD-25

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91266	108	110	2	3.9	100	0								
67	110	112	2	2.0	80	.4								
68	112	114	2	1.0	95	.1								
69	114	116	2	2.0	100	0								
70	116	118	2	.2	95	.1								
71	118	120	2	0	100	0								
72	120	122	2	0	85	.3								
73	122	124	2	0	95	.1								
74	124	126	2	0	100	0								
75	126	128	2	.1	95	.1								
76	128	130	2	1.4	95	.1								
77	130	132	2	1.1	100	0								
78	132	134	2	.4	95	.1								
79	134	136	2	1.0	100	0								
80	136	138	2	.8	100	0								
81	138	140	2	.6	95	.1								
82	140	142	2	.7	90	.2								
83	142	144	2	.4	100	0								
84	144	146	2	.8	95	.1								
85	146	148	2	1.4	100	0								
86	148	150	2	.2	95	.1								
87	150	152	2	.1	100	0								
88	152	154	2	1.6	100	0								
89	154	156	2	.5	100	0								
90	156	158	2	.9	95	.1								
91	158	160	2	1.5	90	.2								

DRILL HOLE NO CH90-25

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT. LOST								
91292	160	162	2	1.0	95	.1								
93	162	164.3	2.3	.8	91	.2								

PAGE 4 OF 4

DRILL HOLE NO. CH90-25

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-26

UTM N: 6125022m
UTM E: 401517m
GRID N: 114+10
GRID E: 95+00

Elev.: 1500m
Depth: 158.2m
Azimuth: 270°
Dip: -47°

Metres (m)

0.0 - 12.2	CASING	
12.2 - 18.0	MIXED SILTSTONE/MONZODIORITE	strongly oxidized, 2-5% limonite after PY.
18.0 - 36.0	MONZODIORITE	mod. epidote and chlorite, local strong oxidation, 4% PY.
36.0 - 42.6	SILTSTONE and MINOR SILLS	mod. to strong calcite, weak epidote and k-spar, 2-3% PY.
42.6 - 47.1	MONZONITE	mod. to strong epidote, weak k-spar and calcite, 3% PY.
47.1 - 59.7	MIXED SILTSTONE/MONZONITE HYBRID	mod. to strong epidote and k-spar, strong calcite (breccia), 3-7% PY, trace CP.
59.7 - 135.5	MONZODIORITE	weak to mod. epidote, weak k-spar, sericite and calcite, 1-3% PY.
135.5 - 137.1	SILTSTONE	mod. to strong k-spar, weak to strong calcite, weak epidote, 2% PY.
137.1 - 142.9	HYBRID MONZODIORITE/SILTSTONE	mod. to strong k-spar and epidote, weak to strong calcite, 1-2% PY.
142.9 - 146.4	AUGITE-PLAGIOCLASE PORPHYRY DYKE	and-trachyte(?), post-mineralization(?), weak epidote and calcite, trace PY.
146.4 - 150.4	MONZODIORITE	weak to strong epidote, weak to mod. epidote and calcite, 3-6% PY.

CH 90-26 cont.

150.4 - 154.0 MONZONITE PORPHYRY DYKE
mod. epidote and k-spar, 1-3% PY.

154.0 - 158.2 MONZODIORITE
weak to strong sericite, weak k-spar and epidote, 1-2% PY.

158.2 E.O.H.

HOLE NO. CH 90-26

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-47°	270°	DATE STARTED:	July 27/90	PROJECT:	CHICHI
		158.2	-46	—	DATE COMPLETED:	July 29/90	NTS:	93N/7E
					COLLAR ELEV.:	1500m	LOCATION:	114+10N/95+00E
					NORTHING:	6125022		
					EASTING:	401517		
					AZIMUTH:	270°		
					DEPTH:	158.2 m (519')	DATE LOGGED:	July 28-31, 1990
HOLE TYPE: DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	12.2	CASING					
12.2	18.0	SILTSTONE with 40% MONZOD SILLS:					
		-st oxidized and broken				14.9 BD/55°/2	
		-buff to lt grey-green slst	A) st oxidation	A) Gt 2-5% original diss + FF Py		LCT obscured by broken core	
18.0	36.0	MONZODIORITE PORPHYRY:					
		- plag phenos ± 1mm ~ 60%, 2-3% to 3mm	A) Ep-Chl/P/6	A) Py/D/2-3		28.8-36.0 st oxidation, low recov (23%)	
		- chl augite (?) ~10%					
		- non-mag due to oxidation	B) St oxidation	B) Py/FF/2		LCT obscured by broken core	
36.0	43.1	SILTSTONE (local irreg monzod):				38.4 BD/62°/3, finely-bedded	
		- lt pink-grey to dk grey, beds only locally preserved	A) Ca/FF/5-9	A) Py/D/1-2		- prominent carb-healed fract bx zones @10-20° CA, ang slst clasts show some rotation	
			B) Ca/P/5-9				
		- hfls predom altered to Se-Ep	C) K/FE/3-5	B) Py-tr Cp/FF/1			
		- ~20% monzod, zones ≤ 20cm wide	D) Se-Ep/P/5+?			LCT/70°/1, gradational over 1-2 cm	

DRILL HOLE NO. CH 90-26

HOLE NO. CH 90-26

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
43.1	47.1	MONZONITE PORPHYRY:				42.6-43.1 carb-healed bx zone @ 10° CA	
		- stubby plag phenos avg 2mm	A) Ep/D/6-7	A) Py/D/2-3			
		~50%; chl aug(?) 5-10%	B) K/P/3	B) Py ± Ep/FF/1			
		- lt to med grey-green,	C) Ca/FE/3			LCT/45°/3; sharp, slightly discordant	
		non-mag					
47.1	59.7	SILTSTONE/MONZ HYBRID ZONE:					
		- extremely mixed and bx'd	A) Ep/D/6-8			48.1 BD/60°/1	
		- pink to dk grey to pale green,		A) Py/D/2-5			
		beds poorly preserved	B) K/P/5-8				
		- ~50% slst/50% monz,		B) Py·Ep ± Ca/FF/1-5		57.7-58.3 heavy cg Py with tr Cp	
		cut by 10-20° carb-healed	C) Ca/FE/2-9				
		bx esp 52.5-54.0, 57.6-59.7				LCT/40°/1, gradational over 2m, no slst inclusions past 59.7. Monz is dk grey-green with 3-5% diss + FF Py from 59.7-66.0	
59.7	142.9	MONZONITE PORPHYRY:					
		- lt to dk green, wk-mod mag					
		- .5-2.5mm stubby plag ~60%, crowded					
		- chl aug 5-10%					
(59.7	71.0)		A) Ep/FE/3-4	A) Py ± Mt-Cp/FE/2			
			B) K ± Ep/FE/1				
			C) Se ± Ca/FE/2	B) Py/D/2-3			
			D) Ca/FF/1-3				

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DRILL HOLE NO. CH 90-26

HOLE NO. CH 90-26

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(71.0	101.3)	Pervasive Se-Ep-Al alt yields pseudo-bx, appears to predate K alt	A) Se-Ep-Al/FE/7 B) Ep±K/FE/4-5	A) Py-Ep±K/FE/2 A) Py/D/1-2			
(101.3	102.7)	Irreg zone of fg Aug Porph Andes (?) with irreg zones of monz = pre-mineral, could be xenolith	A) Ep/FE/3	A) Py-Ep/FE/1 B) Py/D/1-2		Up to 5% diss Py at lower contact of andes	
(102.7	124.0)	Same ser-alt monz, K overprint	A) Se-Ep-Al/P/6-7 B) K±Ep/FE/1-4 (best 112-118.6)	A) Py/D/1-2 B) Py-Ep±K/FE/1-3		118.6 SL/70°/3, 8 cm of sandy-clay gouge	
(124.0	135.5)	Monz is dk green (less ser alt), alt decreases toward contact at 135.5	A) Se-Ep-Al/P/1-5 B) K±Ep/FE/1-4	A) Py-tr Mt-Ep-K/FE/1 B) Py/D/1 C) Py/FE/1		LCT/70°/2, mod sharp	
(135.5	137.1)	Siltstone Inclusion (?) cut by irreg monz zones local carb bx, beds not well-preserved ~60-80°	A) K/P/7 B) Ep/FE/3 C) Ca/FE/3-8	A) Py/D/2 B) Py/FE/2		LCT obscure	

DRILL HOLE NO. CH 90-26

HOLE NO. CH 90-26

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frim	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(137.1	142.9)	Mixed MONZ / SILTST (xenoliths?):					
		- hybrid or intrusion bx,					
		predom. monz	A) K-Sp/P/7-9	A) Py/D/1-2			
		- cut by younger carb bx					
			B) Ca/FF/3-8	B) Py-K-Sp/FF/1-2		LCT obscured by 20 cm of ground core	
142.9	146.4	DYKE - AUG-PLAG PORPHYRY:					
		- andes to trachyte					
		- mod-st mag, dk green	A) Cp/FF/1	A) Py/D/tr		Probably post-mineral	
		- plag 5-3 mm phenos, lath					
		to stubby ~ 30%; aug	B) Ca/FF/2				
		phenos avg 1-2mm, 10-13%,				LCT/50°/3, 1cm chill zone	
		dk grey gm, 1-2% mt					
		- weak alignment of					
		phenos					
146.4	150.4	MONZONITE					
		- fg, plag gen ≤ 1mm	A) Sp/P/3-8	A) Py/D/3-6		147.1-147.5 bleached carb vein zone	
		- dk green to black, non-	B) Sp/FF/3-4	B) Py-Sp-tcH/			
		mag; sulphide-rich	C) Ca/FF/1-5	FF/2		LCT/40°/3, relatively sharp	
			(gen @ 65°)				

DRILL HOLE NO. CH 90-26

HOLE NO CH90-26

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
150.4	154.0	MONZONITE (Dyke?)					
		- distinct text + gr size					
		- mg - cg lath-like to stubby					
		plag phenos 2-5mm ~ 40%	A) Ep/FE/6	A) Py/D/1-3			
		- acicular Hb(?) to 4mm ~ 10%, Kgm ~ 50%	B) K-Ep/FE/5-7	B) Py-Ep/FE/	≤1	LCT/70°/2, sharp	
		- mod mag, black/white colour					
		- mod alignment of phenos // contact					
		- xenoliths of fg monz and slst ~ 3%					
154.0	158.2 EOH	MONZONITE !					
		- fg - mg, dk green-grey to pale green	A) Se-Ep-Al/FE/ 3-8	A) Py/D/1			
		- mod mag	B) K-Ep/FE/3	B) Py/FF/1-7			
		- aug phenos 2-5mm ~ 7%					
			C) Ep/FE/3	C) Py-Ep-K+C/FE/1		heavy py in 10 cm fract env at 158.0	

DRILL HOLE NO. CH90-26

CH-90-26

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91294	12.2	14.0	1.8	0	50	1.0								
295	14	16	2.0	0	75	0.5								
296	16	18	2.0	0.1	70	0.6								
297	18	20	2.0	0	85	0.3								
298	20	22	2.0	0	85	0.3								
299	22	24	2.0	0.1	85	0.3								
300	24	26	2.0	0	80	0.4								
301	26	28	2.0	0.1	85	0.3								
302	28	30	2.0	0.1	75	0.5								
303	30	36	6.0 *	0.1	23	4.6	STRONGLY OXIDIZED.							
304	36	38	2.0	0	75	0.5								
305	38	40	2.0	0	90	0.2								
306	40	42	2.0	0.1	85	0.3								
307	42	44	2.0	0.1	100	0								
308	44	46	2.0	0.2	100	0								
309	46	48	2.0	0	100	0								
310	48	50	2.0	0.1	100	0								
311	50	52	2.0	0.1	85	0.3								
312	52	54	2.0	0.1	100	0								
313	54	56	2.0	0.1	100	0								
314	56	58	2.0	0.2	95	0.1								
315	58	60	2.0	0.2	100	0								
316	60	62	2.0	0.1	100	0								
317	62	64	2.0	0.1	95	0.1								
318	64	66	2.0	0	100	0								
319	66	68	2.0	0	90	0.2								

DRILL HOLE NO CH-90-26

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91320	68	70	2.0	0	100	0								
321	70	72	2.0	0	100	0								
322	72	74	2.0	0.1	100	0								
323	74	76	2.0	0.2	95	0.1								
324	76	78	2.0	0.1	100	0								
325	78	80	2.0	0.1	100	0								
326	80	82	2.0	0.1	95	0.1								
327	82	84	2.0	0.1	100	0								
328	84	86	2.0	0.3	100	0								
329	86	88	2.0	0.2	95	0.1								
330	88	90	2.0	0.1	90	0.2								
331	90	92	2.0	0.1	100	0								
332	92	94	2.0	0.1	95	0.1								
333	94	96	2.0	0	100	0								
334	96	98	2.0	0	100	0								
335	98	100	2.0	0	100	0								
336	100	102	2.0	0	95	0.1								
337	102	104	2.0	0.1	100	0								
338	104	106	2.0	0	100	0								
339	106	108	2.0	0	95	0.1								
340	108	110	2.0	0	100	0								
341	110	112	2.0	0	100	0								
342	112	114	2.0	0	100	0								
343	114	116	2.0	0	100	0								
344	116	118	2.0	0	95	0.1								
345	118	120	2.0	0	100	0								

DRILL HOLE NO CH-90-26

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
91346	120	122	2.0	0	100	0								
347	122	124	2.0	0	100	0								
348	124	126	2.0	0	100	0								
349	126	128	2.0	0.1	100	0								
350	128	130	2.0	0	95	0.1								
351	130	132	2.0	0	100	0								
352	132	134	2.0	0.2	90	0.2								
353	134	136	2.0	0	100	0								
354	136	138	2.0	0.2	95	0.1								
355	138	140	2.0	0.1	100	0								
356	140	142	2.0	0.3	95	0.1								
357	142	144	2.0	1.1	90	0.2								
358	144	146	2.0	1.5	90	0.2								
359	146	148	2.0	0.9	100	0								
360	148	150	2.0	0.2	100	0								
361	150	152	2.0	0.5	95	0.1								
362	152	154	2.0	0.3	95	0.1								
363	154	156	2.0	0.6	100	0								
364	156	158.2	2.2	0.4	91	0.2								

DRILL HOLE NO SH-90-26

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-27

UTM N: 6124805m	Elev.: 1460m
UTM E: 402065m	Depth: 304.5m
GRID N: 112+53	Azimuth: 265°
GRID E: 100+26	Dip: -46°

Metres (m)

0.0 - 15.2	CASING
15.2 - 132.9	MONZODIORITE PORPHYRY mod. k-spar and epidote, local biotite, 2% PY, trace to 0.3% CP.
132.9 - 134.1	PLAGIOCLASE PORPHYRITIC DIORITE DYKE post-mineralization, very weak epidote and chlorite, trace PY.
134.1 - 282.1	MONZODIORITE PORPHYRY mod. to strong k-spar and epidote, 2% PY, 0.3-1% CP.
282.1 - 282.6	PLAGIOCLASE PORPHYRITIC DIORITE DYKE post-mineralization, weak chlorite and epidote, trace PY.
282.6 - 304.5	MONZODIORITE PORPHYRY mod. k-spar and epidote, 2% PY, trace to 0.3% CP.
304.5	E.O.H.

HOLE NO. CH 90-27

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-46°	265°	DATE STARTED:	July 29, 1990	PROJECT:	CHUCHI
		600'	-43°		DATE COMPLETED:	August 2, 1990	N.T.S:	93N/7E
		999'	-43°		COLLAR ELEV.:	1460 m	LOCATION:	
					NORTHING:	6124885		112+3N/100+26E
					EASTING:	402065		
					AZIMUTH:	265°		
					DEPTH:	999' (304.5m)	DATE LOGGED:	July 31, Aug 1-3, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	15.2	CASING					
15.2	304.5	MONZONITE PORPHYRY: 45-50% tabular to stubby plag phenos 1-4mm (avg 1-2mm), 5-10% fg interstitial biot, 1-3% cg deuteric (?) biot from 2mm - 2cm; aphanitic grey-green kspar gm ~45%; 2-4% diss and veinlets of Mt, st to intense magnetism (MS = <1->10); med grey-green to dark green with local pink zones (MS = 3-8)					
(15.2	36)	Broken and oxidized to 19.0m. Abundant xenoliths (total ~20%) consisting of med green slst, black hfls slst, rare leuco-monz porph (hb-mg); clasts gen subr to round and range from .5-10 cm, locally chl-ep altered and cut by min fc. Possible then clast-rich zone is intrusion or intrusive bx (?) - 28.0m is 4cm wide dyke? or clast of fg monz porph, contacts 60° not chilled, altered and min.					
			A) Ep-Chl/D/3	A) Py-Cp/D	1-2	} est .15% Cu, Py > Cp	Cp is vfg as diss in chl clasts + cg biot, with epid, after Mt; biot in K-env
			B) Ep/FF/6	B) Py-Cp-Ep/FF	1-2		
			C) K-Ep/FF/2-4 (sporadic)				
			D) Ca/FF/1	Interstitial fg biot much more strongly chl than cg biot			

PAGE 1 OF 5 DRILL HOLE NO. CH 90-27

HOLE NO. CH 90-27

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc)	REMARKS Mineralization, type, age, relations
(36	40)	Rare clasts/xenoliths ; gen homogeneous mg monz porphyry , med grey-green ; local strong alt veinlets irreg to 45° CA ; increased K-alt					
			A) K±Ep/FF/5-6	A) Cp-Py/D/≤1		{ Cp ≥ Py	
			B) Ep/FF/5	B) Cp-Py-Ep/FF/≤1		} est ≤ .1 % Cu	
			C) Ep-Cl/D/3-7				
(40	64)	Locally contains abundant dk green to black xenoliths to 5 cm up to 30% over 2 m intervals eg. 54-56 m , rare intrusive clasts					
			A) Ep/D+FF/6	A) Py-Cp/FF/1		{ Py ≥ Cp	
			B) K/FF/2-3	B) Py-Cp/D/1		} est .1 % Cu	
			C) Q/FF/1				
(64	92)	local silt inclusions , med green					
			A) K±Ep/FF/5-7 , alt env common			@.10-30° ; plag phenos gen unalt	
			B) Ep/FF/4-5				
				A) Py ≥ Cp/D/ tr-1		{ est ≤ .1% Cu overall but local zones	
				B) Py ≥ Cp-Ep/FF/1		} to .3% Cu (eg. 86-88 m) ; best Cp in Ep or K within K-alt envelopes	
(92	118)	St to intense perv K+Bi , plag phenos indistinct , cg chloritic (?) biot common , also Mt veins					
			A) K-Bi/FF/5-9	A) Py-tr Cp-Ep-Cl/FF/tr-1		{ est ≤ .1 % Cu	
			B) Ep-Cl/D+FF/2	B) Py-tr Cp/D/tr-1		}	
			C) Q/FF/0-2			- chl cg biot is preferred site for v/g diss Cp	
		- good K envelopes from 5-30 cm wide become prominent , perv K+Bi (below ~ 118 m)					

PAGE 2 OF 5

DRILL HOLE NO. CH 90-27

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
(118	132.9)	Kspar alt prominently as	fr env ; plag	phenos distinct		between env	
			A) K/FE/3-5	A) Py-tr Cp	/D/	tr-1 } min fr env 25-45° CA, Py > Cp	
			B) Ep/FF+D/3	C) Py-Cp	-K/FF	/1 } est .05% Cu	
(132.9	134.1)	Dyke - plag porph ; plag	laths 1-5mm ~	20% in aphanitic		UCT/65°/2 , chilled	
		black gm , contains	15cm inclusion	of altered monz ;		LCT/45°/3 , chilled	
		epid? augite ~5%, 2-	5mm				
		- strongly magnetic	A) Ep/D+FF/1-2	A) Py-Ep/	FF/tr		
			B) Q/FF/1				
(134.1	145)	Alteration ends relatively	abruptly at	145m (same	host rk)		
			A) K-Ep/FE/C-R	A) Py-tr Cp	/1/tr-1	} est .05% Cu	
				B) Py-tr Cp	/FF/tr-1	}	
(145	156)	Gen wkly alt monz porph , only	local alt env		. locally a	mod alignment of	phenocrysts 0-
		20°					
			A) K/FE/1	A) Py-tr Cp	/D/tr to .5	} est < .05% Cu	
			B) Ep/FF+D/1-2	B) Py-tr Cp	-Ep/FF/tr	} except 152-154m	
			C) Q/FF/1				
						- 153.2-153.7m zone of st alt + min, possibly	
						Lx with K-Flooding , est ~5% Cu over	
						this interval with Cp as vfg diss + ff	

HOLE NO. CH90-27

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
(156	190)	Gen dk green due to black to dk green slst clasts, mod common (10-25% overall), rare avg to 10cm (eg. 186.0). 0-10° oxidized and carb-filled fr 161.0-161.7, 170.0-173.4, locally minor gouge.					
			A) K/P+FE/7	(no preferred orientation)			
			B) Ep/FE+D/7				
			C) Ch/D/7	A) Py ≥ Cp/FE/1		est. .40% Cu, Cp esp as diss in epid clots and in chl biot	
			D) Ca/FE/1-4	B) Py ≥ Cp/D/1			
			E) Tr Sec Bi				
						- local Se-Ep-Al alt along fr in Slst clasts with patchy garnet (eg 186.4)	
(190	195)	Mod sheared, local gouge to 10cm; fr gen 0-15° CA					
			A) Ch-Cy:Ca/P/8, overprints earlier potassic alt				
			B) K/FE/7	A) Py/FE/1		est. .2-.3% Cu	
				B) Py-Cp/D/1			
(195	202.1)	Relatively consistent alt + min, local inclusion-rich zones (eg. 195-213 m)					
			A) K/FE/5-6	A) Py-Cp/FE/1		Py gen > Cp, Cp as vfg diss in chl mafics, as diss replacing Mt, as diss in Ep, diss and fine ff in kspar-alt zones.	
			B) Ep/D+FF/6	B) Py-Cp/D/1			
			C) Ch/D/6				
			D) Ca/FF/2-3, @65°			- 0-30° alt-min env common	
			E) Tr Sec bi			- local good stkwk Py-Cp within K-alt zones (m)	
			F) Gt-Ch/FE/1-2 local eg. 224-226m				

DRILL HOLE NO. CH90-27

BP

HOLE NO. CH 90-27

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
						249-250m, 253-254m, 265-268m	
		195-208m est .1-.2 % Cu				-276.8m garnet in st. Ep & car @ 30°	
		208-230m est .2-.3 % Cu				with good Cp	
		230-282.1m est .1-.2 % Cu					
(282.1	282.6)	Dyke - black plag porph	similar to	132.9-134.1m		UCT/50°/2	
			A) Ch/D/2-3	A) Py/D/tr-2%		LCT/40°/3	
			B) Ep/FF/1				
(282.6	302.3)	Similar degree of alt as	195-282.1	but less Cp, alt		decreasing to 302.3m, biot not as st	
		chloritized.					
			A) K/FE/5-9	A) Py-tr Cp/FF/1-2		} Py >> Cp, est ≤ .1% Cu	
			B) Ep/D+FF/4	B) Py-Cp/D/1			
			C) Ca/FF/1-2				
			D) Ch/D/3				
(302.3	304.5)	Relatively wk alt-min					
	EOH		A) K/FE/1	A) Py-tr Cp-Ep/FF/≤1, predom parallel CA. Est ≤ .05% Cu			
			B) Ep/D+FF/2-3				

DRILL HOLE NO. CH 90-27

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91365	15.2	18	2.8	1.3	65	1.0								
66	18	20	2	3.2	50	1.0								
67	20	22	2	2.9	85	.3								
68	22	24	2	4.7	95	.1								
69	24	26	2	3.8	100	0								
70	26	28	2	3.7	100	0								
71	28	30	2	4.4	95	.1								
72	30	32	2	3.8	95	.1								
73	32	34	2	3.5	95	.1								
74	34	36	2	6.3	40	1.2								
75	36	38	2	5.3	95	.1								
76	38	40	2	5.9	95	.1								
77	40	42	2	5.2	100	0								
78	42	44	2	5.8	100	0								
79	44	46	2	2.5	90	.2								
80	46	48	2	5.9	90	.2								
81	48	50	2	5.2	100	0								
82	50	52	2	6.5	100	0								
83	52	54	2	5.8	95	.1								
84	54	56	2	4.0	100	0								
85	56	58	2	4.8	95	.1								
86	58	60	2	4.2	95	.1								
87	60	62	2	4.8	100	0								
88	62	64	2	5.6	95	.1								
89	64	66	2	1.4	100	0								
90	66	68	2	3.0	100	0								

DRILL HOLE NO. CH 90-27

BP **DRILL LOG** sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91391	68	70	2	3.1	90	.2								
92	70	72	2	2.0	100	0								
93	72	74	2	1.0	95	.1								
94	74	76	2	5.1	95	.1								
95	76	78	2	2.6	95	.1								
96	78	80	2	3.9	95	.1								
97	80	82	2	3.8	100	0								
98	82	84	2	2.7	80	.4								
99	84	86	2	1.7	95	.1								
91400	86	88	2	6.2	95	.1								
01	88	90	2	6.9	100	0								
02	90	92	2	7.0	95	.1								
03	92	94	2	7.2	95	.1								
04	94	96	2	6.6	100	0								
05	96	98	2	8.1	85	.3								
06	98	100	2	11.3	100	0								
07	100	102	2	13.0	90	.2								
08	102	104	2	13.0	100	0								
09	104	106	2	9.9	100	0								
10	106	108	2	17.3	100	0								
11	108	110	2	14.0	95	.1								
12	110	112	2	12.3	100	0								
13	112	114	2	8.2	100	0								
14	114	116	2	10.4	95	.1								
15	116	118	2	15.3	100	0								
16	118	120	2	5.7	100	0								

DRILL HOLE NO CH90-27

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91417	120	122	2	4.9	90	.2								
18	122	124	2	8.5	95	.1								
19	124	126	2	8.3	100	0								
20	126	128	2	3.7	95	.1								
21	128	130	2	3.5	100	0								
22	130	132	2	6.7	100	0								
23	132	134	2	4.2	95	.1								
24	134	136	2	7.1	100	0								
25	136	138	2	6.7	100	0								
26	138	140	2	3.2	90	.2								
27	140	142	2	5.3	100	0								
28	142	144	2	3.0	100	0								
29	144	146	2	2.3	100	0								
30	146	148	2	2.7	100	0								
31	148	150	2	3.0	100	0								
32	150	152	2	1.9	95	.1								
33	152	154	2	3.0	100	0								
34	154	156	2	.5	100	0								
35	156	158	2	.2	95	.1								
36	158	160	2	4.6	95	.1								
37	160	162	2	3.0	100	0								
38	162	164	2	1.3	100	0								
39	164	166	2	3.5	100	0								
40	166	168	2	3.0	100	0								
41	168	170	2	3.1	100	0								
42	170	172	2	2.3	100	0								

DRILL HOLE NO. CH90-27

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91443	172	174	2	7.5	95	.1								
44	174	176	2	6.2	100	0								
45	176	178	2	5.7	100	0								
46	178	180	2	4.7	95	.1								
47	180	182	2	4.1	100	0								
48	182	184	2	5.1	100	0								
49	184	186	2	1.4	100	0								
50	186	188	2	2.0	100	0								
51	188	190	2	2.9	100	0								
52	190	192	2	.7	95	.1								
53	192	194	2	.9	80	.4								
54	194	196	2	.3	95	.1								
55	196	198	2	.8	95	.1								
56	198	200	2	4.7	95	.1								
57	200	202	2	.1	100	0								
58	202	204	2	1.2	95	.1								
59	204	206	2	.1	95	.1								
60	206	208	2	1.3	100	0								
61	208	210	2	6.1	100	0								
62	210	212	2	1.5	100	0								
63	212	214	2	.9	100	0								
64	214	216	2	2.7	100	0								
65	216	218	2	13.0	95	.1								
66	218	220	2	11.1	100	0								
67	220	222	2	7.4	100	0								
68	222	224	2	4.4	100	0								

DRILL HOLE NO. CH90-27

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91469	224	226	2	11.4	100	0								
70	226	228	2	12.8	100	0								
71	228	230	2	9.3	100	0								
72	230	232	2	12.4	100	0								
73	232	234	2	13.5	100	0								
74	234	236	2	8.3	100	0								
75	236	238	2	9.8	100	0								
76	238	240	2	6.4	100	0								
77	240	242	2	7.1	95	.1								
78	242	244	2	14.8	100	0								
79	244	246	2	16.0	100	0								
80	246	248	2	7.2	100	0								
81	248	260	2	13.9	100	0								
82	250	252	2	11.5	100	0								
83	252	254	2	5.5	100	0								
84	254	256	2	3.1	95	.1								
85	256	258	2	.8	95	.1								
86	258	260	2	.3	90	.2								
87	260	262	2	1.8	100	0								
88	262	264	2	4.7	100	0								
89	264	266	2	5.5	100	0								
90	266	268	2	4.3	95	.1								
91	268	270	2	9.8	95	.1								
92	270	272	2	6.8	100	0								
93	272	274	2	8.0	100	0								
94	274	276	2	7.3	95	.1								

DRILL HOLE NO. CH90-27

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91495	276	278	2	5.4	100	0								
96	278	280	2	5.4	100	0								
97	280	282	2	8.8	95	.1								
98	282	284	2	4.3	100	0								
99	284	286	2	3.1	95	.1								
91500	286	288	2	3.6	100	0								
01	288	290	2	10.1	100	0								
02	290	292	2	4.2	100	0								
03	292	294	2	3.7	100	0								
04	294	296	2	6.4	95	.1								
05	296	298	2	3.8	100	0								
06	298	300	2	2.2	100	0								
07	300	302	2	4.4	100	0								
08	302	304.5	2.5	3.1	100	0								

DRILL HOLE NO. CH90-27

HOLE NO CH 90-28

DRILLING CO	LOCATION SKETCH	TESTS DEPTH	DIP ANGLE	AZIMUTH				
OLYMAC DRILLING	N	COLLAR	-45°	270°	DATE STARTED:	Aug 2, 1990	PROJECT:	CHUCHI
					DATE COMPLETED:	Aug 5, 1990	NTS:	93N/7E
					COLLAR ELEV.:	1418m	LOCATION	
					NORTHING:	6124887		112+50N/101+75E
					EASTING:	402212		
					AZIMUTH:	270°		
					DEPTH:	35.1m (115')	DATE LOGGED:	—
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	—

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	35.1	OVERBURDEN –	hole lost	in O/B			
			No bedrock	samples			

DRILL HOLE NO. 90-28

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-29

UTM N: 6124095m	Elev.: 1410m
UTM E: 402136m	Depth: 300.5m
GRID N: 103-34W	Azimuth: 267°
GRID E: 101+00	Dip: -52°

Metres (m)	
0.0 - 12.2	CASING
12.2 - 27.0	MONZONITE-SILTSTONE HYBRID local intrusive breccia. mod. sericite, epidote and albite in slst., mod. epidote and albite, 1-2% PY, trace CP.
27.0 - 50.7	INTERLAYERED SILTSTONE/SILLS mod. sericite, epidote and albite, weak epidote and calcite, 2% PY, trace CP (best in sills).
50.7 - 59.0	MONZODIORITE SILL weak epidote and calcite, 2% PY, trace CP.
59.0 - 109.5	INTERLAYERED SILTSTONE/SILLS mod. to strong sericite, epidote and albite, weak k-spar, local strong calcite, 2-4% PY, trace CP.
109.5 - 115.2	MONZONITE SILL weak k-spar, epidote and calcite, 2% PY, trace CP.
115.2 - 125.3	MONZONITE abundant siltstone inclusions, strong sericite, epidote and albite, mod. to strong k-spar, 2-3% PY, trace CP.
125.3 - 133.1	MONZONITE SILL mod. epidote, weak to mod. k-spar. 2% PY, trace CP.
133.1 - 141.0	SILTSTONE strong sericite, epidote, albite and calcite, weak k-spar and epidote, 2% PY. trace CP.
141.0 - 142.0	FINE-GRAINED MONZONITE SILL weak k-spar and epidote, 2-3% PY, trace CP.
142.0 - 144.9	LITHIC-CRYSTAL TUFF marker unit, mod. to strong k-spar, weak epidote, 2-3% PY, trace CP.

CH 90-29 cont.

144.9 - 149.7 SILTSTONE
strong sericite, epidote and albite, mod. to strong k-spar and epidote, 1-2% PY.

149.7 - 152.2 AUGITE-PLAGIOCLASE PORPHYRY DYKE
weak epidote, weak to mod. calcite and hematite, 1% PY, trace CP.

152.2 - 155.4 SILTSTONE
mod. to strong k-spar ans calcite, 1% PY, trace CP.

155.4 - 156.0 AUGITE-PLAGIOCLASE PORPHYRY DYKE
weak epidote and calcite, trace PY.

156.0 - 163.1 SILTSTONE
mod. to strong k-spar and calcite, 2% PY - CP (est. 0.1-0.2% Cu).

163.1 - 238.4 MONZONITE PORPHYRY
weak to mod. chlorite and epidote, weak k-spar and calcite, 1% PY, trace CP.

238.4 - 268.0 SILTSTONE
~20% monzonite sills/dykes, strong sericite, epidote and albite, mod. to strong k-spar and chlorite, 2% PY - CP (est. 0.25 % Cu).

268.0 - 304.5 MONZONITE PORPHYRY
weak k-spar, epidote and chlorite, weak to strong calcite, trace-1% PY, trace CP.

304.5 E.O.H.

HOLE NO. CH 90-29

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-53°	267°	DATE STARTED:	Aug. 5, 1990	PROJECT:	CHUCHI
		185.6m	-51°		DATE COMPLETED:	Aug 8, 1990	N.T.S.:	93N/1E
		304.5m	-49°		COLLAR ELEV.:	1418 m	LOCATION:	113-34N / 101E
					NORTHING:	6124895		
					EASTING:	402136		
					AZIMUTH:	267°		
					DEPTH:	304.5 m (999')	DATE LOGGED:	Aug 6-8, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	12.2	CASING					
12.2	~27.0	Hybrid Zone, locally intrusion bx: - variable from host hfls slst cut by irregular discordant leuco fg monz., to leuco-fg-mg monz., to intrusion breccia with clasts of old green slst (locally with white alteration margins) and cg to mg fsp porphyry monzonite. Matrix is fg intrusive with mod-st alt of mafics to chl. Edges of hfls slst clasts are locally brecciated and albitized with chl matrix (eg 20.1 m rep). Monzonite is locally gradational to mg porph with equant plag phenos 2-3mm comprising 10% in fg matrix (eg 17.7-18.5m). Intrus clasts within bx are approx same composition and txt of matrix (auto-bx clasts?). Intrus matrix is non-magnetic, variable from light grey-green to med grey-green. Slst 'inclusions' have contacts from 60-65° CA. Est ~ 70% intrus/30% slst.					
			A) Ep/FF/4		A) Py/FF/1-2		
			B) Ca/FF/1-4		B) Py/fr-Dp/D/E1 (up to 3% in monzon sills		
			C) Se-Ep-Al/FE/	4-5 in Slst hfls			
			D) K/FE/1			LCT relatively abrupt, no intrusion bx below here, mainly slst hfls / fg sills	

HOLE NO. CH 90-29

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc)	REMARKS Mineralization, type, age, relations
27.0	50.7	Siltstone / sills : ~ 50% slst & ~ 50% fg crowded porphyry monzodiorite sills locally with irreg "articulated" contacts - sills are mon to mist miaritic, range from lt grey-green to dk green-black colour, range from 5cm to > 1m thick, contacts commonly 'semi concordant' but irregular (not a well-defined sed/sill unit); flatty to equant plag ≤ 5mm ~50%, chl mafic ~5%, 45% gm - slst is dk to pale purple brown	A) Se-Ep-Al/FF/1 B) Ep/FF/3-4 C) Cb/FF/1-2 D) Ep/D/2, patchy clots with good Py-Cp	A) Py-Ep/FF/1 B) Py/D/≤3, tr Cp, loc. in dk sills C) Py-Cp-Ep/V/≤1		28.9 BD/77/3, local zone of intact beds 42-48 stronger zone of brecciation of bflt (Se-Ep-Al) related fault and shearing and carb ff, shears parallel 40° ca', stronger shear from 47.5-48 m 50.3 sill contacts 75° LCT / sharp but orientation not evident	
50.7	59.0	Monzod Sill : fg crowded porph, mod magnetic to 52m (ms=.6) - Free of slst bflt inclusions; lt grey-green to med grey-green, similar to sills described from 27-50.7m	A) Ep/FF/2 B) Cb/FF/2-3	A) Py/D/2 B) Py-Ep/FF/≤1 C) Cp-Ht-Ch/FF/tr		56.6 10° carb-filled fr zone ~ 5cm true width LCT gradational from 59.0 - 59.7m, contact zone has localized 30cm of 10° crackle bx with bleached slst clasts and chl-Ht-Cb matrix	

DRILL HOLE NO. CH 90-29

HOLE NO. CH 90-29

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
57.0	109.5	Siltstone / Sills : relatively uniform zone of slt lith with sills of G... sized from 5cm to 1m					
		-63.7-64.8 = sulphide-rich sill with biot-py-cp filled fr.					
		-67.2 - 67.7 = " " " " " " "				70.9 - 73.4 = st carbonate zone in bleached clay-alt^d sill ; fr prolum 10°	
		-from 70.0-74.9 abundant ± Se-Ep-Al altered slt xenoliths in mozoned sill				75.8-76.6 = similar zone	
(59.0	70.9)	59.0-70.9	A) Se-Ep-Al/FE, 7-8 B) Si / FE / 2-6 in sills C) Ch-Ep / FE / 4 5	A) Py Cp-Si A) Py Cp-Ep		FE / 3, in sills A / 1, heal crackle in matrix	{ est. 1-2 % Cu
(70.9	73.4)	Protolith probably 70.9-73.4 sill ?	A) G / P / 8 B) Cy / P / 9 C) G / V / 4, vuggy	A) Py / FE + D /	1-2		
(73.4	75.8)	Mainly sill with 73.4-75.8 slt xenoliths	A) G / FE / 1-4 B) Ep / FE / 3-4	A) Py - tr Cp / D / 1- B) Py - Ep / FE / 1	2		
(75.8	76.6)	Carb-clay altered 75.8-76.6 Protolith is sill with minor slt inclusions	A) G / P / 8 B) Cy / P / 9 C) G / V / 4 D) K-Ep / FE / 2	A) Py FE / 2			

DRILL HOLE NO. CH 90-29

HOLE NO. CH 90-29

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(76.6	85.7)	35% SLST / 65% fg monz porph - contacts chl (small) to irreg (locally rock is sill with slst inclusions) Slst is hfls then altered to Se-Ep-Alb, beds indistinct. Sills locally magnetic	A) Se-Ep-Alb/FE/7 B) K±Ep/FE/1 C) Ep±Act/EF/2-3	A) Py-tr-Cp/D/1-2 (mainly in sills) B) Py-Ep-A / FF/1			
(85.7	96.3)	65% SLST / 35% Sills, beds locally intact	A) Se-Ep-Alb/FE/7-8 B) Ep±K/FE/2 C) Ep±Ch/FE/3 D) Ca/FE/1-2	A) Py-tr-Cp/D/2-3 B) Py-tr-Cp-Ep-Ch/FF/1-2		90.3 BD/85°/3 91.8-92.6 is 10° Fr zone with perv K ± Alb(?) + Carb	
(96.3	106.4)	70% SLST / 30% Sills, beds obscured by Se-Ep-Al alt and st fracturing	A) Se-Ep-Alb/FE/7 B) K±Ep/FE/5-6 (gen 10-30 cm) C) Ca/FE/1-4	A) Py-tr-Cp-K-Ep/FE/2-3 A) Py-tr-Mt-Ep/D/2		99.0 BD/85°/2 102.7-104.9 broken and sheared @ 10° 104-106.4 M.S. increases to >.5 locally due to sec Mt	
(106.4	109.5)	90% SLST, beds obscured by alt (K Alt is on hanging wall of sill from 109.5-115.2)	A) Se-Ep-Alb/FE/7 B) K±Ep/FE/2	A) Py/D/1-2 B) Py-Ep/FF/≤1		LCT/80°/2, gradational over 1cm, ~ conformable	

DRILL HOLE NO. CH 90-29

HOLE NO CH90-29

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
109.5	115.2	MONZONITE PORPHYRY SILL	:				
		- fg-mg crowded; plag	A) K-Fp/FE/2	A) Py-tcCp/D/1			
		~45%, diss Mt 2-3%,	B) Fp/FE+D/3	B) Py-Cp/FE/1			
		chl mafics ~5%	C) Cb/FE/2-3	(±K, Fp)		LCT/80°/3, sharp with K alt in adj SLST	
		- med grey, mod-st mag		C) Mt/V/1 (local dry		veinlets)	
115.2	125.3	MIXED MONZONITE PORPH/	SLST INCLUSIONS:				
		(Intrusion Bx, at centre of	sill from 109.5-133.1)				
		- hi hfls slst clasts almost	A) Se-Fp-Al/P/8	A) Py-tcCp/D/	2-3		
		totally altered to Se-Fp-Alb,					
		no beds intact	B) K±Fp/FE/6	B) Py-tcCp-Cp	K/FE/	≤1	
		- overall lt to med to dk					
		grey-green, mod-st mag				LCT/80°/1, gradational over ~2cm	
		* ~116.6m start of stronger K alt on fr env.					
125.3	133.1	MONZONITE PORPHYRY SILL	:				
		- fg-mg crowded					
		- med grey, mod-st mag	A) Fp/D+FF/5-6	A) Py-tcCp/D/2			
	*	- contains 1% biot to					
		1.5 cm size	A) K/FE/1→5	A) Py-Cp/FE/≤1			
		- from 130.1-133.1 alt is				LCT/80°/3; sharp, conformable with SLST	
		variable, local brecciation,					
		increased K alt					

DRILL HOLE NO CH90-29

BP

HOLE NO CH 90-29

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
133.1	141.0	MAINLY SLST:				Shearing localized at upper contact and lower	
		- no remnant bi hFls	A) Ca/FF/1-8	A) Py/D/1		(136-141 wk-mod shear @ 0° with mod	
		- sill 135.8-136.2	B) K±Ep/FF/3-4	B) Py-tr Cp-Ep/FF/		carb FF).	
			C) Ep-Chl/FF/2-3	1-2		137.9 BD/80°/3	
			D) Se-Ep-Alb/P/8				
						LCT obscured by broken core	
141.0	~142.0	MONZONITE PORPHYRY					
		- fg-mg crowded	A) K/P/7	A) Py-tr Cp/D/	2	LCT obscured by alt	
			B) Ep-Chl/FF/3	B) Py-Ep/FF/1			
			C) Ca/FF/1-2				
~142.0	144.9	LITHIC-CRYSTAL TUFF:					
		(Marker)					
		- st K flooding	A) K/P/7	A) Py-tr Cp/D/	2		
		- Slst clasts subang-subr	B) Ca/FF/2	B) Py-Ep/FF/1		LCT 10-20 cm of brecciated K-alt SLST	
		to 5 cm, plag phenos				with some sec alt	
		in silty matrix					
144.9	149.7	SLST:					
		- lt to dk grey-gr, no	A) Se-Ep-Al/P/7	A) Py-K/FF+D/1-2		148.1 3 cm qtz-carb vein central to	
		remnant bi hFls	B) K±Ep/FE/6			45° 50 cm wide bleached shear	
		- no bedding intact	C) Cy-Ca/sl/4				
			± Hi			LCT/80°/3, marked by 1 cm carb	
						vein, 10 cm of bleaching in adj dyke/sill	

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DRILL HOLE NO CH 90-29

HOLE NO. CH 90-29

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
149.7	152.2	AUG-PLAG PORPHYRY :					
		- dyke or sill	A) Ca ± He/FF/4-5	A) Py - tr Cp/D/1			
		- wk-mod mag, dk green					
		to black	B) Ep/D/3	B) Py - Cp/FF/<1			
		- relict Aug phenos avg 5mm,					
		~10-15% ; plag ~20%				LCT /55°/3 , marked by carb vein like	
		as equant phenos 2-3mm				LCT	
		- matrix is vfg plag + aug					
152.2	155.4	SLST :					
		- pink to dk green	A) Ca/FF/6-8	A) Py - tr Cp/FF+D/1			
		- st fract @ 0°-10° CA	B) K/FF/6			LCT /80°/2-3	
155.4	156.0	AUG-PLAG PORPHYRY :					
		(same as above)	A) Ca/FF/4-5	A) Py/D/tr			
			B) Ep/D/2			LCT obscured by broken core	
156.0	163.1	SLST :				0-10° fr prominent	
		- similar to 152.2-155.4,	A) Ca/FF/6	A) Py - Cp/D+FF/2			
		st fr + alt	B) K/FF/3-7	est. .2% Cu			
			(increases toward	Py > Cp vfg			
			Monz contact)				
						LCT /60°/3 , sharp , adj SLST is st K-altered	

DRILL HOLE NO CH 90-29

HOLE NO. CH 90-29

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
163.1	238.4	MONZONITE PORPHYRY	:				
(163.1	176.0)	- med pink to med grey - med mag where not sheared - plag phenos. fg-mg .5-2mm, avg 1mm ~50% - chl interstitial bi ~5%, diss fg mt 1-2%, K ~45% as gm	A) Ch/FF/4-6 B) Ep/FF+D/1-3	A) Py-Cp/D/tr B) Py/FF/±1 C) He/FF/1		Pink colour due locally to hematization of Mt (less magnetic) Fr predom 15-30°	
(176.0	190.0)	Slight increase in pheno size, 1-2 cm subr clots of fg chl, also locally peral porph idea with good fg diss Cp	A) Ch/P/4-6 B) Ep/FF+D/2-3 C) Ca/FF/tr	A) Py-tr Cp/D/1 B) Py/FF/tr-1		Local Mt veinlets with tr Cp after Mt He on fr ends ~185m	
(190.0	202.0)	Zone of intermittent wk to mod shearing @ 30-40°, strongest 192.5-193.5, 197.5-200.9	A) Ca-Se/FF+P/5-7 B) Ch/FF+D/4 C) K/FE/5	A) Py-tr Cp-K/D/tr B) Py/D/1 C) Py/FF/tr			
(202.0	238.4)	Mod-st mag, gen uniform ~mg porph, minor SLST inclusions	A) K-Ep/FE/3-4 B) Ch-Ep/D/3	A) Py-tr Cp-K-Ep/FE/±1 B) Py/D/±1		Fr Env 10-75° CA LCT gradational over 50 cm, marked by st K + Py ± Cp, lots of SLST inclusions.	

DRILL HOLE NO. CH 90-29

HOLE NO CH 90-29

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.) / Mineralization, type, age, relations
238.4	268.0	SILTSTONE :				
		- only minor remnant bi				
		hfls, beds not preserved,	A) Si-Cp-Al/P/7 (early)	A) Py-Cp/DB/	1+ →	but vfg diss 260-268 m, est .5% Cu, Cp > Py
		local monz dykes (20%				locally
		of interval, dykes gen	B) K/FE+P/6-7	B) Py-Cp/D+FF/	1-2	
		≤ 1m)				265.3 BD/60°/2, some vfg Cp diss along
		- med to dk green, non-mag	C) Cb/FF/1-4 (late)			beds, local bands .5-2cm thick with
		except in dyke zones		C) Py ≫ Cp ± Ch/		10-20% Cp
			D) Ch/FF+D/7	DB+FF/1		256.7-260.6 est .4% Cu
						Overall 238.4-268.0 est ~ .25% Cu, best
						from 256.7-268.3
						LCT/30°/2, obscured by alt/min,
						contact min 267.9-268.3 est 2% Cu
268.0	304.5	MONZONITE PORPHYRY:				
	EOH	- mg, same as above				
(268.0	285.5)	FE env. predom 20-60°CA	A) K+Ep/FE/3	A) Py-Cp/D/tr		} est .05-.10% Cu
		- med green to dk pink or tan, fg-mg, 2mm	B) Cp-Ch/FF+D/ 3-5	B) Py-Cp-Ch-Ep/FF/	tr-1	}
		plag phenos ~45%				
		- 2% diss + veinlet Mt				
(285.5	304.5)	Sheared, centred at 291m	A) Cb-He-Cy-Se/P/ 4-9	A) Py-trCp/FF/	tr-1	0-5° shearing with Cb-He FF; centre of shear
						290-292 m, st. bleaching, 20°CA shear fabric
			B) Ch-Ep/P+FF/5	B) Py/D/tr-1		

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DRILL HOLE NO. CH90-29

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
91509	12.2	14	1.8	0	80	.4								
10	14	16	2	0	95	.1								
11	16	18	2	0	95	.1								
12	18	20	2	.1	95	.1								
13	20	22	2	0	90	.2								
14	22	24	2	0	90	.2								
15	24	26	2	.1	90	.2								
16	26	28	2	0	95	.1								
17	28	30	2	0	100	0								
18	30	32	2	0.2	100	0								
19	32	34	2	.1	100	0								
20	34	36	2	0	80	.4								
21	36	38	2	0	100	0								
22	38	40	2	0	100	0								
23	40	42	2	.1	95	.1								
24	42	44	2	0	95	.1								
25	44	46	2	.1	95	.1								
26	46	48	2	0	85	.3								
27	48	50	2	.9	100	0								
28	50	52	2	.4	90	.2								
29	52	54	2	.1	95	.1								
30	54	56	2	0	100	0								
31	56	58	2	.1	100	0								
32	58	60	2	0	100	0								
33	60	62	2	0	90	.2								
34	62	64	2	.7	90	.2								

DRILL HOLE NO. CH90-249

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
91535	64	66	2	.1	100	0								
36	66	68	2	.2	95	.1								
37	68	70	2	.1	95	.1								
38	70	72	2	.1	100	0								
39	72	74	2	0	95	.1								
40	74	76	2	0	80	.4								
41	76	78	2	.1	85	.3								
42	78	80	2	.1	95	.1								
43	80	82	2	1.4	90	.2								
44	82	84	2	1.7	95	.1								
45	84	86	2	.1	100	0								
46	86	88	2	0	85	.3								
47	88	90	2	0	85	.3								
48	90	92	2	0	100	0								
49	92	94	2	0	90	.2								
50	94	96	2	0	75	.5								
51	96	98	2	.1	100	0								
52	98	100	2	0	90	.2								
53	100	102	2	0	100	0								
54	102	104	2	0	90	.2								
55	104	106	2	.3	90	.2								
56	106	108	2	1.1	95	.1								
57	108	110	2	1.5	90	.2								
58	110	112	2	3.1	100	0								
59	112	114	2	6.4	100	0								
60	114	116	2	1.7	100	0								

DRILL HOLE NO CH 90-29

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
91561	116	118	2	.7	95	.1								
62	118	120	2	.2	100	0								
63	120	122	2	.3	100	0								
64	122	124	2	.1	95	.1								
65	124	126	2	1.3	100	0								
66	126	128	2	4.1	100	0								
67	128	130	2	4.5	95	.1								
68	130	132	2	1.1	100	0								
69	132	134	2	.1	95	.1								
70	134	136	2	0	90	.2								
71	136	138	2	0	100	0								
72	138	140	2	0	90	.2								
73	140	142	2	0	90	.2								
74	142	144	2	.1	95	.1								
75	144	146	2	.8	85	.7								
76	146	148	2	0	70	.6								
77	148	150	2	.1	90	.2								
78	150	152	2	.3	90	.2								
79	152	154	2	.2	85	.3								
80	154	156	2	.1	100	0								
81	156	158	2	0	70	.6								
82	158	160	2	.1	85	.3								
83	160	162	2	.4	100	0								
84	162	164	2	0	90	.1								
85	164	166	2	5	95	.1								
86	166	168	2	1.4	90	.2								

DRILL HOLE NO. SIL90-29

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91587	168	170	2	.1	100	0								
88	170	172	2	.2	100	0								
89	172	174	2	.1	100	0								
90	174	176	2	.1	100	0								
91	176	178	2	.1	100	0								
92	178	180	2	1.5	90	.2								
93	180	182	2	1.0	100	0								
94	182	184	2	1.2	95	.1								
95	184	186	2	1.0	100	0								
96	186	188	2	.1	100	0								
97	188	190	2	1.2	100	0								
98	190	192	2	.3	100	0								
99	192	194	2	.7	100	0								
91 600	194	196	2	0	100	0								
01	196	198	2	0	95	.1								
02	198	200	2	.1	90	.2								
03	200	202	2	2.3	100	0								
04	202	204	2	3.1	100	0								
05	204	206	2	2.5	100	0								
06	206	208	2	2.5	100	0								
07	208	210	2	1.7	100	0								
08	210	212	2	2.8	90	.2								
09	212	214	2	2.4	100	0								
10	214	216	2	1.0	100	0								
11	216	218	2	2.7	100	0								
12	218	220	2	.4	100	0								

DRILL HOLE NO. CH90-29

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
91613	220	222	2	1.5	95	.1								
14	222	224	2	.1	95	.1								
15	224	226	2	.8	100	0								
16	226	228	2	1.0	90	.2								
17	228	230	2	.8	95	.1								
18	230	232	2	1.7	100	0								
19	232	234	2	1.8	100	0								
20	234	236	2	1.0	95	.1								
21	236	238	2	2.6	100	0								
22	238	240	2	.8	100	0								
23	240	242	2	.1	100	0								
24	242	244	2	.5	100	0								
25	244	246	2	1.3	95	.1								
26	246	248	2	.3	100	0								
27	248	250	2	0	100	0								
28	250	252	2	0	100	0								
29	252	254	2	.1	95	.1								
30	254	256	2	0	85	.3								
31	256	258	2	.3	90	.2								
32	258	260	2	.6	95	.1								
33	260	262	2	.1	90	.2								
34	262	264	2	.1	90	.2								
35	264	266	2	0	95	.1								
36	266	268	2	.2	95	.1								
37	268	270	2	4.2	90	.2								
38	270	272	2	4.7	100	0								

DRILL HOLE NO. CH90-29

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
91639	272	274	2	5.5	95	.1								
40	274	276	2	5.4	100	0								
41	276	278	2	4.3	95	.1								
42	278	280	2	4.6	90	.2								
43	280	282	2	6.3	95	.1								
44	282	284	2	2.3	100	0								
45	284	286	2	2.7	100	0								
46	286	288	2	.7	90	.2								
47	288	290	2	0	100	0								
48	290	292	2	0	100	0								
49	292	294	2	2.5	90	.2								
50	294	296	2	3.1	100	0								
51	296	298	2	1.1	95	.1								
52	298	300	2	5.0	100	0								
53	300	302	2	3.6	90	.2								
54	302	304.5	2.5	2.9	88	.3								
		EOH												

DRILL HOLE NO. CH90-29

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-30

UTM N: 6125230m	Elev.: 1372m
UTM E: 402260m	Depth: 272.2m
GRID N: 116+00	Azimuth: 278°
GRID E: 102+75	Dip: -68.5°

Metres (m)	
0.0 - 45.7	CASING
45.7 - 91.4	SILTSTONE/SILLS ~50/50, mod. to strong sericite, epidote and albite, 1-2% PY.
91.4 - 95.9	LITHIC-CRYSTAL TUFF marker unit, weak epidote and k-spar, trace-1% PY.
95.9 - 101.9	SILTSTONE and MINOR SILLS strong sericite, epidote and albite, 1-2% PY.
101.9 - 105.8	LITHIC-CRYSTAL TUFF possibly brecciated siltstone, weak epidote and k-spar, mod. calcite, trace-1% PY.
105.8 - 112.7	SILLS and MINOR SILTSTONE mod. to strong sericite, epidote and albite, 3% PY, trace-1% CP.
112.7 - 141.7	SILTSTONE strong sericite, epidote and albite, weak k-spar and biotite, 2% PY, trace CP.
141.7 - 142.7	SYENITE PORPHYRY weak epidote, chlorite and calcite, trace-1% PY, trace-1% CP.
142.7 - 188.5	SILTSTONE and MINOR SILLS weak to strong sericite, epidote and albite, trace-1% PY, trace-1% CP.
188.5 - 190.7	BIOTITIC DYKE strong biotite, 1% PY, 0.5% CP.
190.7 - 230.3	SILTSTONE and MINOR SILLS mod. to strong sericite, epidote and albite, mod. k-spar, 1% PY, 0.5% CP, trace MoS_2.

CH 90-30 cont.

230.3 - 236.9 MONZODIORITE PORPHYRY SILL
weak to mod. epidote, weak k-spar, 2% PY, 0.5% CP.

236.9 - 256.6 SILTSTONE and MINOR SILLS
strong sericite, epidote and albite, weak k-spar, 1-2% PY, trace CP.

256.6 - 272.2 SYENITE PORPHYRY
mod. chlorite and epidote, mod. to strong k-spar, 1% PY, trace CP.

272.2 E.O.H.

HOLE NO. CH90-30

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-68½°	278°	DATE STARTED:	August 8, 1990	PROJECT:	CHURCHILL
		272.2m	-67°		DATE COMPLETED:	August 14, 1990	N.T.S.:	93N/7E
					COLLAR ELEV.:	1372 m	LOCATION:	
					NORTHING:	625230		116N / 102+70E
					EASTING:	402255		
					AZIMUTH:	278°		
					DEPTH:	272.2 m (893')	DATE LOGGED:	Aug 12-15, 1990.
HOLE TYPE: DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	45.7	CASING					
45.7	90.6	Slst / Sills : (~50/50) - mixed purple-br blls and pale green to buff ser-epid-alb altered beds. Beds locally well preserved. - sills range from 1cm to 1m, generally fg-med leuco monz; sharp & irregular contacts with silts; non-magnetic				Ox'd oxidized to ~55m	
						57.7m / BD / 85 / 2-3	
						59.8m / BD / 85 / 3	
(45.7	66.0)	Br bnt blls still evident (incomplete Se-Ep-Kf alt)	A) Se-Ep-Kf / FE + P / 6-7			67.1m / BD / 85° / 3	
			B) Ep / D + FF / 5			75.6m / BD / 65° / 3	
				A) Py / D / 1 locally along bedding			
				B) Py-Ep / FF / tr-1			

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DRILL HOLE NO. CH90-30

HOLE NO. CH90-30

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
(66.0	90.6)	Sill/Slst : predom. i(co-monz sill, ~65/35					
		- almost total alt of bi/hb to Ser-Ep-Al (lt green to cream colour)					
		- sills are fine to med gr crowded plag porph with ≤10% chl mafic					
			A) Se-Ep-Al/FF+P/9	A) Py-Ep/FF/tr-1			
						LCT appears sharp but obscured by broken core	
			B) Ep-Cl/FF+D/3	B) Py/D/tr-1 (up to 5% in certain sills, eg. 77.2-79.0)		5% diss py in sill only in tuff	
						20 cm of st. diss MT (5-10%) within sill 89.85-90.05 m	
91.4	95.9	Lithic-Crystal Tuff (darker) :					
		- variable from sandy near UCT to v. coarse with subang clast of slst from 1-10 mm, no bedding evident					
		- med gr to dk grnt					
			A) Ep/D/3	A) Py/D/tr		LCT/75°/Z; sharp but obscured by Se-Ep-Fe alt + py	
			B) K/P/1-5 (bs)	B) Py-Cl/FF/1			
95.9	101.9	Slst/Sill (predom Slst, from 100.6-101.9)	probable sill in broken core				
		- ff to med gr, beds obscure, bleached due to strong carb. ff. and bx from 96.3-96.7 and 97.5-100.0, ff+bx geo at 65-85° CA				LCT obscured by broken core	

DRILL HOLE NO. CH90-30

HOLE NO. CH90-30

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
		- extremely broken core with	A) Ca/FF/2-8	A) Py/FF	tr-1		
		poor recov from 97.5 –					
		102.0m	B) Se-Ep-Al/FF P/B	B) Py	D/1		
101.9	105.8	Lithic-Crystal Tuff (black	:- separate	bed) - Possibly	txt^d:	lit	
		- distinct fining upward	from pebble	to coarse sand	size	(NB) this horizon is not a fault repetition	
		- dark green to lt pink	, local bleaching	due to	wk	of similar rock from 90.6-95.9	
		staining + carb ff +	ir (?) 10-30°CA			(separated by 1.2-sill package)	
			A) Ep/D/2	A) Py/D/tr-1			
			B) K/P/1	B) Py/FF/tr		LCT/65°/2, sharp but irreg	
			C) Ca/FF/5				
						* strongly magnetic 105.4-106.0 (upper	
105.8	112.7	Sills (more mafic) / Silt (~	70/30)			tuff/sill contact)	
		- sills from 106.9-105.3,	22.0-112.7m	, gen dark green			
		to black (CS= 6-8)	with abundant	dis. Py±Cp,			
		dk colour due to bio	(?)				
		- sill ~ monzodi-monz, fg,	A) Se-Ep-Al/P/7	A) Py-tr Cp/D	FF/3-4	106.7 BD/80/3	
		seriated porph to equig		(mostly in sills)			
			B) Ep/FF+D/6-7	B) Py-Ep-Ch/FF	tr		
			C) Ca/FF/1-5				

HOLE NO. CH90-30

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
112.7	141.7	Slst (only one sill-dyke fr	om 131.7 - 132	.4 m) :			
		- slst is pinkish lt to	nd green with	only minor		116.2 BD/80/3	
		relict patches of biot	ite, SEA	alteration is		118.9 BD/40/3	
		fr + bedding controlle	d; bedding	is variable			
		probably due to local	bx? and flow;	interbed			
		silty and fine sandy	sed with s	ilty beds dominant			
(141.7	133.4)	UCT/40/2; sill-dyke is biotitic	and sulphide-	rich for ~30-			
		40 cm away from contact,	slst is bx?	; sill is fg		LCT broken core from 140-141.7, fr @	
		more-magnetic areas with	patchy biot,	red or to [illegible]		5-10° localized by contact at 5-10° (well	
		black-brown colour.	LCT /70/1-2	, locally discordant		developed (2)	
			A) Bi/P/7				
			B) Ep/D+FF/5-6	A) Py-Cp/D+FF/3;		tr to .1% Cu	
			K) K/FF/1				
			A) Sx-Ep-Al/P/B				
			B) Cb/FF/1-5	strongest from 140-141.7			
			C) Ep-Ch/FF/4				
			D) K/FE/1-2	A) Py/DB/1			
				B) Py-Ep-Cb/FF/tr-1			
				C) Py-Cp-K-Ep-Cb/FF/tr; single vein (129.3-129.6)			

DRILL HOLE NO. CH90-30

HOLE NO. CH90-30

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
141.7	142.7	Syenite porphyry:					
		-pink aplitic gm with	isolated rectang	kspar phenos			
		to 3cm, chl-epid	altered mafics	(avg ?) from			
		2mm - 1cm ~ 10%	; non-magnetic			LCT /60°/3, weak ... fine contact ~ 5cm)	
			A) Ep-Ch/P/4	A) Cp-Py/D/tr-1			
			B) Ca/P/FF/1	(Cp > Py)			
142.7	188.5	Silt (see sills):					
		- definite decrease in SE	d alteration from	157 - 16	8m, in	creases from 168m to end-of (?)	
		rock goes from pale g	reen with local	bi blk relict			
		patches to pervas.	blk with only	sporadic SE?		146.4 BD/65/3	
		alt along beds + Ca	; beds locally	evident + intact			
(142.7	180.6)					147.0 BD/55/3 (possibly some v/g Cp diss along bed)	
			A) Sb-Ep-Al/P/3-8				
			B) Ep-Ch/FF/4				
				A) Py-tr Cp	Ep-Ch/	FF/tr-1	
			C) Ca/FF/1-3				
		160.6-161.2 = biotitic sill		B) Py-Cp/DB	tr-1%	eg 149.0 (?), also 160.3-160.5 (the zone	
		with 1-2% diss Py, increased		(up to 5%	over	appears to be centred on irreg zone of intense and	
		Py on Ew contact		10cm	interval)	bedding disruption, locally good v/g cp diss along bed).	
				Py > Cp		Elsewhere v/g Py + Cp diss occur along albit beds and fr	

DRILL HOLE NO. CH90-30

HOLE NO. CH 90-30

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc)	REMARKS Mineralization, type, age, relations
		Mag [illegible] becomes patchy w/	local values to	[illegible] at 170m		169.7-170.[illegible] [illegible] with [illegible]	
						170.7-172.0m [illegible] with [illegible] front (wk [illegible])	
(180.6	188.5)	[illegible] hydrothermal [illegible]	Cp-Py on upper	contact of			
		sill dyke:				186.0 [illegible]/85°/3	
		- locally strong foliation [illegible]	5-30°, beds	partly preserved			
		- [illegible]	A) Bi/P/9	A) Py-Cp/	FF/1-5	[illegible] sub-// foliation, [illegible] from 188.9-	
		(from 180.6-185.0 [illegible]	B) Ep-Ch/FF/	B) Py-Cp/	DB/1	189.7 m)	
		altered equiv of dark dyke	C) Ca/FF/1-2	Py = Cp		Est. .3% Cu over 7.9 m	
		(from 188.5-190.7)		(good [illegible] from			
				186.5-185.[illegible] m)		HCT/30/2, [illegible] sharp but obscured by	
188.5	190.7	[illegible] [illegible] dyke:				K-Ep alt + Cp-[illegible] [illegible], [illegible]	
		- dk green [illegible], [illegible]	not magnetic	, wk foliation		contact not [illegible] [illegible]	
		~30°					
		- no [illegible] [illegible] evid.	+				
		- abundant [illegible]	[illegible] dry [illegible] tr Cp				
			A) Bi/P/9 (prim[illegible]?)			HCT/15°/2, relatively sharp, [illegible]	
			B) Ep/D+FF/3			[illegible] K-Ep alt [illegible]	
				A) Py-tr Cp/D+	FF/3-5		
						Est. .2% Cu over 2.2 m	
190.7	230.3	Siltstone (+ [illegible] sills):					
		- [illegible] green to [illegible]	brown (~40% [illegible] [illegible]	[illegible])			
		- [illegible] [illegible], bed's	locally [illegible] preserved			210.0m [illegible]/55°/2-3	
		- [illegible] along	[illegible] but in [illegible] of [illegible]		[illegible]		
		[illegible]					

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DRILL HOLE NO. CH 90-30

HOLE NO. CH 90-30.

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.) / REMARKS (Mineralization, type, age, relations)
		204.9 preserved [illegible] of	A) Se-Ep-Al/P+FF/5-9	A) Py-Cp	/1.5/1	[illegible] ([illegible])
		biot ? [illegible]				
		[illegible] - Cp [illegible])	B) Ch±Ep /FF/5-7	B) Py-Cp-Ch/		F/ [illegible] -1 Est. 1 % Cu over ~25 [illegible]
						[illegible] intervals to ~3 % Cu) [illegible]
			C) K/B/D-G [illegible] in zones			205.4 BD/65°/3
			of [illegible] ch [illegible]			
			(eg. 206.3 - 208.0 ,			20[illegible] is 5 cm of [illegible] % [illegible]
			203.9 - 203.7			
				C) Mo-Cp-Ch/		217.5 - 220.0 [illegible]
				FF / tr;		[illegible]
				occur. on col'		
				[illegible]		227.4 [illegible] /65/2
						LCT /70/2-3 [illegible]
[illegible]	236.9	Fn [illegible] porphyry sill :				
		- [illegible] with [illegible]	[illegible] envelopes with bleaching			
		of [illegible] , 15%	Fn biot			
		[illegible]				
			A) Ep/D/2-6	A) Py-Cp /D	FF/ 2-3	(Py > Cp , est. 2 % Cu)
			B) K-Ep /FE/2			
						LCT /60/1, [illegible]

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DRILL HOLE NO. CH 90-30

HOLE NO. CH 90-30

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
236.9	256.6	Siltstone [illegible] silts:			*	244.5 - ~253.0 [illegible] (60°),	
		- [illegible] only [illegible] bedding present, no				[illegible] FF = [illegible]	
		bedding [illegible]				[illegible]	
			A) [illegible] /P/	A) Py-[illegible]	fr-1		
			B) Ch+Ep /FF/ 1-7	B) Py-[illegible]	2-[illegible]	[illegible] increase in	
			C) [illegible] /1-2	FF/	fr-1	chl FF [illegible]	
			D) CS/ [illegible] /1-8				
						256.0 BD/80/1	
256.6	272.2 EOH	Syenite Porphyry:					
		- [illegible]	[illegible]				
		- [illegible]	[illegible]	[illegible] ~15% [illegible]		- broken core from [illegible] to ~260 m, [illegible]	
		[illegible]	[illegible]	[illegible]		[illegible] 0-20° [illegible] FF	
			A) Chl-Ep/FF/	5-6 [illegible]		(2)	
			B) K/P/7				
			C) Ep-Ch/D/2	([illegible] 2 m)			
				A) Py /D/ fr - 1			
				B) Py - [illegible]	[illegible] /FF	/ 1	

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DRILL HOLE NO. CH 90-30

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
91655	45.7	48	2.3	0	70	.7								
56	48	50	2	.1	75	.5								
57	50	52	2	0	70	.6								
58	52	54	2	0	65	.7								
59	54	56	2	0	85	.3								
60	56	58	2	0	95	.1								
61	58	60	2	.1	95	.1								
62	60	62	2	.1	100	0								
63	62	64	2	.1	100	0								
64	64	66	2	0	100	0								
65	66	68	2	.1	100	0								
66	68	70	2	0	95	.1								
67	70	72	2	0	95	.1								
68	72	74	2	0	100	0								
69	74	76	2	0	95	.1								
70	76	78	2	0	100	0								
71	78	80	2	0	95	.1								
72	80	82	2	0	90	.2								
73	82	84	2	0	100	0								
74	84	86	2	0	95	.1								
75	86	88	2	.1	85	.3								
76	88	90	2	8.0	95	.1	Single hi of 24 MS							
77	90	92	2	0	100	0								
78	92	94	2	.1	85	.3								
79	94	96	2	0	100	0								
80	96	98	2	0	85	.3								

DRILL HOLE NO. CH90-30

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91681	98	100	2	.1	20	1.6								
	100	102	2	.1	35	1.3	2.2m recovered							
	102	104	2	0	55	.9								
82	104	106	2	.9	100	0								
83	106	108	2	.7	95	.1								
84	108	110	2	.1	95	.1								
85	110	112	2	.2	95	.1								
86	112	114	2	.1	75	.5								
87	114	116	2	0	90	.2								
88	116	118	2	0	80	.4								
89	118	120	2	0	100	0								
90	120	122	2	0	90	.2								
91	122	124	2	0	95	.1								
92	124	126	2	0	95	.1								
93	126	128	2	.1	85	.3								
94	128	130	2	0	90	.2								
95	130	132	2	.1	95	.1								
96	132	134	2	0	95	.1								
97	134	136	2	0	100	0								
98	136	138	2	0	100	0								
99	138	140	2	0	100	0								
91700	140	142	2	0	85	.3								
01	142	144	2	0	95	.1								
02	144	146	2	0	95	.1								
03	146	148	2	0	100	0								
04	148	150	2	0	100	0								

DRILL HOLE NO. CH90-30

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91705	150	152	2	0	100	0								
06	152	154	2	0	100	0								
07	154	156	2	0	95	.1								
08	156	158	2	0	100	0								
09	158	160	2	0	100	0								
10	160	162	2	0	100	0								
11	162	164	2	.7	100	0								
12	164	166	2	0	85	.3								
13	166	168	2	0	100	0								
14	168	170	2	.1	100	0								
15	170	172	2	0	100	0								
16	172	174	2	0	95	.1								
17	174	176	2	.1	100	0								
18	176	178	2	2.3	95	.1								
19	178	180	2	.3	90	.2								
20	180	182	2	1.6	90	.2								
21	182	184	2	.7	100	0								
22	184	186	2	1.3	100	0								
23	186	188	2	.5	100	0								
24	188	190	2	2.5	100	0								
25	190	192	2	1.7	100	0								
26	192	194	2	.5	90	.2								
27	194	196	2	.4	100	0								
28	196	198	2	0	100	0								
29	198	200	2	0	100	0								
30	200	202	2	0	100	0								

DRILL HOLE NO CH 90-30

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91731	202	204	2	0	90	.2								
32	204	206	2	0	95	.1								
33	206	208	2	0	100	0								
34	208	210	2	0	100	0								
35	210	212	2	0	95	.1								
36	212	214	2	0	100	0								
37	214	216	2	0	95	.1								
38	216	218	2	.1	100	0								
39	218	220	2	.1	95	.1								
40	220	222	2	0	100	0								
41	222	224	2	0	100	0								
42	224	226	2	0	100	0								
43	226	228	2	0	95	.1								
44	228	230	2	0	100	0								
45	230	232	2	.9	95	.1								
46	232	234	2	.8	100	0								
47	234	236	2	1.7	100	0								
48	236	238	2	.2	100	0								
49	238	240	2	.3	95	.1								
50	240	242	2	.6	100	0								
51	242	244	2	4.8	100	0								
52	244	246	2	.5	95	.1								
53	246	248	2	.5	95	.1								
54	248	250	2	.9	100	0								
55	250	252	2	.2	95	.1								
56	252	254	2	.2	95	.1								

DRILL HOLE NO. CH 90-30

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
91757	254	256	2	.4	100	0								
58	256	258	2	0	85	.3								
57	258	260	2	.5	60	.8								
60	260	262	2	1.0	96	.2								
61	262	264	2	.1	90	.2								
62	264	266	2	0	100	0								
63	266	268	2	0	100	0								
64	268	270	2	0	100	0								
91765	270	2722	2.2	0.1	86	.3								

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DRILL HOLE NO. CH90-50

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-31

UTM N: 6125015m
UTM E: 402035m
GRID N: 114+15
GRID E: 100+35

Elev.: 1425m
Depth: 155.4m
Azimuth: 270°
Dip: -61.5°

Metres (m)

0.0 - 9.75 CASING

9.75 - 155.4 MONZODIORITE PORPHYRY
mod. epidote and chlorite, weak k-spar.
9.75-84.0: 2-5% PY, trace MT, CP
84.0-155.4: 1-3% MT, trace-1% PY

155.4 E.O.H.

BP

HOLE NO. CH 90-31

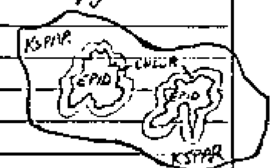
DRILLING CO: OLYMPIC	LOCATION SKETCH (N)	DEPTH	TESTS DIP ANGLE	AZIMUTH	
		COLLAR	-61.5°	270°	
		155.4 m	-59.0°	270°	
HOLE TYPE: DDH					

DATE STARTED:	Aug. 14, 1990
DATE COMPLETED:	Aug. 16, 1990
COLLAR ELEV.:	1425 m
NORTHING:	6125015 N
EASTING:	402055 E
AZIMUTH:	270°
DEPTH:	155.4 m (510 ft.)
CORE SIZE:	NQ

PROJECT:	CHUCHI LK.
NTS:	93N/7E
LOCATION:	Grid Coords: 114 + 15 N, 100 + 35 E
DATE LOGGED:	August 16th, 1990
LOGGED BY:	DRB

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fm	STRUCTURE (fractures, faults, folding, bedding, etc.) / REMARKS (Mineralization, type, age relations)
0	9.75	CASING				
9.75	155.4	PLAGIOCLASE PORPHYRY MONZODIORITE	EP/P-D/5-7	PY/D/2-3%	5-8/m @	Top half of drillhole (~9.75-84 m) Non to
		medium grey, grey-green	CH/P/5-6	PY/FF/<1%	20° &	weakly magnetic, only tr. MT but 2-5% PY
		colour (Gs ≟ 5)	K/FE/2-3	CPY/D/tr.	45-55° tCA	(MT sulphidized to PY).
		≈ 45-60% plag. phenocrysts,	CB/FF/2-3	MT/D/tr-½%		from ~84-155.4 m (EOH) moderate, locally strong,
		porphyritic (fine-medium	HM/FF/1	Non to Weakly Magnetic		magnetic; 1-3% MT and decreased pyrite; PY<1%
		grained ~1-4mm, Tq, Eq)		(locally moderately to		
		~10-20% Biotite (predom.		strongly magnetic)		
		fine gr., moderately chlorite alt.)				
		(≈5% biotite fresh looking → secondary biotite?)				
		≈ 20-35% groundmass (primary Kspar?)				

HOLE NO. CH 90-31

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(9.75	20.0)					Oxidized, Rusty orange stained, fracture surfaces; Increased fractures, blocky core; Minor pitted surfaces, weathered out pyrite	
(9.75	31.2)	Increased zone of Kspar fracture envelope alteration	EP-K/FF/5-6 CH/P/6	PY/D/3-5%		Distinct alteration assemblage of EPIDOTE (<1-2cm) with CHLORITE rim and KSPAR around EPID/CHLOR.	
(29.5	36.0)	ANDS FRAGS? (fine gr. DIORITE Frags?) ≈1%, subangular to subrounded (<1 to 8 cm), medium to dark green; fine gr. to aphanitic.					
(34.7	39.6)	Increased PY as fracture filling		PY/FF/2-3% PY/D/1-2%			
(38.6	39.4)	Shear + minor Gouge (@38.6) Broken, fractured core				SHR/10°/3	
(44.4	52.2)	Increased Kspar Alt & EPID. Spots	K-EP/D-FE/5				
(53.8	57.6)	Irregular & fracture controlled Albite(?) + sericite alt (+ Quartz locally)	SE (Albite?)/FE/5				

DRILL HOLE NO. CH 90-31

HOLE NO. CH 90-31

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(61.6	64.0)	as above : irregular & fracture controlled Albite(?) + sericite/ Kspar alteration	SE-K(Albite?)/FF/5				
	(@77.5)	Weak CARBONATE SHEAR (5cm wide) Kspar alt. approx. 20cm either side				SHR/65°/1-2	
	(@79.2 & @80.6)	ANDESITE FRAGMENT (2-3cm) subangular volcanic frags.					
(84.3	91.1)	Increased EPIDOTE Alt.	EP/P-D/7-8	MT/D/½-1%		moderately to locally strongly Magnetic	
(91.1	94.0)	Mod-Strong Potassic Alt.	K/P/7-8	Non Magnetic			
	(@97.1)	Shear with minor gouge				SHR/25°/2	
(97.8	100.2)			MT/D/½%			
	(@99.3)	ANDESITE FRAG. (5cm wide) subangular volcanic frag.					
(100.1	100.6)	Quartz Veinlets, irregular (+ minor Carbonate/Chlorite) 0.3-1.0cm wide @ 65°-75° to C.A.					
(100.6	105.1)	Increased Potassic Alt. (or a Monzonite Phase?)	K/P/6-7	Non Magnetic			

DRILL HOLE NO. CH 90-31

HOLE NO. CH 90-31

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Form	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(106.7	112.0)	Increased Magnetics ≈1% ANDS Frags (<1-2cm, subangular)		PY/D/tr.-1% MT/D/tr-½%		Non to Moderately Magnetic (Mod. Magnetic predom.)	
	(≈116.0)	Shear: Calcite (CARB.) + minor Qtz (5cm wide)				SHR/65°/1-2	
(116.9	118.0)	minor ANDS FRAGS (up to 7cm) subrounded		Moderately Magnetic			
	(@127.0)	Tr. CPY on frac. surfaces		CPY/FF/Tr.			
(127.2 / 129.8	128.2 & / 139.2)	Increased MT, decreased PY mineralization		MT/D/1-3% PY/D/<1%			
(128.8	128.9)	Irregular Quartz Vein Qtz Brxx minor; Shear (?)					
(138.2	138.3)	fine gr. Diorite Frag. → subrounded (7×2 cm)		CPY/D/½%		minor CPY dissem. around fine gr. subrounded Diorite(?) frag	
	(@142.9)	minor CPY		CPY/FF/½%			
(142.8	143.1)	weakly Sheared, minor gouge/clay, Kspar Alt.				SHR/75°/1	
(143.0 / 147.6	143.7 & / 151.3)	ANDS FRAGS – fine gr. medium-dark green/chloritized ≈1% subangular to subrounded (<1 to 5cm)					
(147.7	151.3)	Moderately Magnetic		MT/D/<1-2% PY/D/<1%			

DRILL HOLE NO. CH 90-31

HOLE NO. CH 90-31

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(≈146	155.4)					observe a Rhythmic "Banding" (very consistent: does not appear to parallel fracs.; No difference in magnetism or Epid. Alt. across bands) to Monzodiorite; ∠50° to C.A. ± 1-6 cm wide lighter coloured (stronger plag. alt.) bands and 3-15 cm wide dark bands (coarser, chlorite alt.); Primary Igneous Feature? Alteration Affect (??)	
(151.3	152.8)	Zone of mod. Kspar Alt.	K/P/G	CPY/D/tr. ←		between (151.5 to 151.7)	
(152.8	154.3)	Moderately Magnetic		MT/D/1-2%			
155.4	EOH						

DRILL HOLE NO. CH 90-31

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
91766	9.75	12	2.25	.1	71	.65								
67	12	14	2	.4	75	.5								
68	14	16	2	1.5	75	.5								
69	16	18	2	.1	95	.1								
70	18	20	2	0	100	0								
71	20	22	2	.1	100	0								
72	22	24	2	0	95	.1								
73	24	26	2	.1	95	.1								
74	26	28	2	.1	100	0								
75	28	30	2	.1	90	.2								
76	30	32	2	.1	100	0								
77	32	34	2	.3	95	.1								
78	34	36	2	.2	90	.2								
79	36	38	2	.1	100	0								
80	38	40	2	0	90	.2								
81	40	42	2	0	95	.1								
82	42	44	2	.2	100	0								
83	44	46	2	.4	100	0								
84	46	48	2	1.3	90	.2								
85	48	50	2	.4	100	0								
86	50	52	2	.5	90	.2								
87	52	54	2	1.3	95	.1								
88	54	56	2	.2	95	.1								
89	56	58	2	.1	100	0								
90	58	60	2	.2	100	0								
91	60	62	2	.3	100	0								

DRILL HOLE NO. CH 90-31

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	TOTAL METRES	M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91792	62	64	2	1.0	100	0								
93	64	66	2	.2	95	.1								
94	66	68	2	.1	100	0								
95	68	70	2	0	95	.1								
96	70	72	2	.1	100	0								
97	72	74	2	.2	100	0								
98	74	76	2	.4	100	0								
99	76	78	2	.5	100	0								
91800	78	80	2	.3	100	0								
01	80	82	2	1.4	95	.1								
02	82	84	2	2.0	100	0								
03	84	86	2	1.3	100	0								
04	86	88	2	2.5	100	0								
05	88	70	2	4.3	100	0								
06	90	92	2	3.2	100	0								
07	92	94	2	0	100	0								
08	94	96	2	.3	100	0								
09	96	98	2	.8	90	.2								
10	98	100	2	2.0	100	0								
11	100	102	2	.7	100	0								
12	102	104	2	0	100	0								
13	104	106	2	.4	100	0								
14	106	108	2	2.9	100	0								
15	108	110	2	1.7	100	0								
16	110	112	2	2.6	95	.1								
17	112	114	2	.4	100	0								

DRILL HOLE NO. SH90-31

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91818	114	116	2	.1	100	0								
19	116	118	2	.4	95	.1								
20	118	120	2	.1	100	0								
21	120	122	2	.3	100	0								
22	122	124	2	.1	100	0								
23	124	126	2	1.3	100	0								
24	126	128	2	.3	100	0								
25	128	130	2	1.5	95	.1								
26	130	132	2	2.7	100	0								
27	132	134	2	5.3	95	.1								
28	134	136	2	6.7	100	0								
29	136	138	2	3.3	100	0								
30	138	140	2	4.3	100	0								
31	140	142	2	4.4	100	0								
32	142	144	2	.1	100	0								
33	144	146	2	.7	100	0								
34	146	148	2	.7	100	0								
35	148	150	2	3.5	95	.1								
36	150	152	2	2.9	90	.2								
37	152	154	2	1.5	100	0								
38	154	155.4	1.4	.3	100	0								
	EOH													

DRILL HOLE NO. CH90-31

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-32

UTM N: 6120150m
UTM E: 402150m
GRID N: 105+25
GRID E: 101+15

Elev.: 1362m
Depth: 134.1m
Azimuth: 270°
Dip: -60.5°

Metres (m)

0.0 - 12.2	CASING	
12.2 - 46.9	MONZONITE PORPHYRY mod. chlorite and epidote, weak k-spar and epidote, trace-1% PY, trace CP.	
46.9 - 51.9	MAGNETITE BRECCIA magnetite stockwork in monzonite porphyry, strong chlorite and epidote, 15% MT, 1% PY, trace CP.	
51.9 - 63.5	MONZONITE PORPHYRY strong chlorite, weak epidote and k-spar, 2% MT, 1% PY, trace CP.	
63.5 - 66.7	MAGNETITE BRECCIA strong chlorite, mod. k-spar, weak epidote, 10-15% MT, 1% PY, trace CP.	
66.7 - 134.1	MONZONITE PORPHYRY mod. to strong k-spar, mod. chlorite, 1% PY, 1% MT, trace CP.	

134.1 E.O.H.

HOLE NO CH 90-32

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC	N	COLLAR	$-60\frac{1}{2}$°	270°	DATE STARTED	August 16th, 1990	PROJECT:	CHUCHI LK.
		134.1	-58°		DATE COMPLETED:	August 18th, 1990	NTS:	93 N/7E
					COLLAR ELEV:	1362 m	LOCATION:	Grid Coords:
					NORTHING:	6124150 N		105+25N
					EASTING:	402160 E		101+15E
					AZIMUTH:	270°		
					DEPTH:	134.1 m	DATE LOGGED:	August 22nd, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	DRB

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (fractures, faults, folding, bedding, etc)	REMARKS Mineralization, type, age relations
0	12.2	CASING					
12.2	46.9	PLAGIOCLASE PORPHYRY MONZONITE	CH-EP/P/5-7	PY/D/tr.-1%	7-15/m		
			K/P/4	MT/D/tr-1%	20-30°,	generally moderately magnetic (but variable)	
		medium grey-green-black (ws-5?)	HM-CB/FF/2	CPY/D/tr.	45-55°, &		
		• 45-60% plag. phenocrysts,	K-EP/FE/3-4		70° to C.A.		
		porphyritic (Lth, Eq. shape,					
		<1-4 mm; fine-medium gr.)					
		• 5-10% chloritized Biotite					
		• 35% groundmass (Kspar+?)	primary and/or	secondary Kspar(?)			
	(@12.4 & 19.8)	minor Malachite on fracture surfaces		Tr. Malachite			
(12.2	20.0)	Oxidized Fractures				Oxidized, Rusty orange-red stained, fracture surfaces	
(25.5	26.8)					Blocky, Rubbly Broken Core	

DRILL HOLE NO. CH 90-32

HOLE NO. CH 90-32

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
21.8, 22.9	(@21.0, 23.1 & 30.1)	Qtz Veinlets (0.3-4.0cm) with Kspar Frac. Envelope @ 50° to C.A.					
	(@25.7 & 30.9)	subrounded ANDS FRAGS. (1 & 3cm)					
(34.4	39.1)	Increase in Chlorite-Kspar Alt. fracture controlled	CH/FF-P/8 CB/FF/4 EP-K/FE/5				
(39.1	46.9)	Intensely Alt. Monzonite (Monzodi.)	CH/FF-P/8-9 EP/P/7				
(39.1	41.8)	Altered Plag. Porph Monzodi.	CH/FE/8	MT/FF/5-7%			
	(@42.7, 45.0 & 45.7)	Tr. CPY		CPY/D/Tr.			
(42.4	42.7)	Garnet (Honey Brown colour) Kspar envelope, Blue-Green Chlorite? + Clay/Carb.	K/P/6	PY/FF/5-8% PO/FF/3% tr CPY			
	(@44.7)	Qtz Vein (1.0 cm) @ 65° to C.A.		CPY/D/tr.			
(45.8	46.0)			PY/FF/20%			
(45.2	45.7 &	46.0 to 46.5)	CH/P/8	MT/FF/5-7%			

DRILL HOLE NO. CH 90-32

HOLE NO CH 90-32

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
46.9	51.9	MAGNETITE BRECCIA (Intensely) Strongly Altered; Crackle subangular to subrounded Monzodiorite fragments surrounded by Magnetite. Fragments, <1 to 20 cm, with ≈40-55% fine-med gr Plag. Phenos, ≈30-40% Kspar & 3-5% Biotite (Chloritized) → Coiterix? Hydrothermal, Chloritized Biotite (up to 2 cm) ≈3% → Garnet (≈1-2%) Honey Brown Colour, fracture controlled associated with PY (≈47.2, 47.8, & 48.3)	CH/FF-P/8-9 EP/P-FE/7	MT/FF/15% PY/D/1% PY/FF/1% CPY/D/tr.		hydrothermal magnetite: fracture fill to locally massive 0.3 to 12.0 cm fracture fills of magnetite Contacts: Gradational	
(46.2	47.4)	Shear - Chlorite, slickensides				SHR/10°/2	
51.9	63.5	PLAGIOCLASE PORPHYRY MONZONITE (see 12.2 to 46.9, without the biotite)	CH/FF/8 EP-K/FE-P/4	MT/D/1-2% PY/FF/1% PY/D/<1% CPY/D/tr.		Magnetite dissem. as blebs	
(51.9	54.0)	MT/Dissem. as blebs/3%					
(59.4	60.4)	Shear + minor gouge Chlor-Carb Shear				SHR/5°/1-2	
	(≈61.6)	Garnet → Yellow - Honey Brown coloured; fracture controlled					
(62.3	62.6)	CPY fracture controlled		CPY/FF/¼-½%			

DRILL HOLE NO. CH 90-32

HOLE NO. CH 90-32

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
63.5	66.7	MAGNETITE BRECCIA	K-(Albite?)/P/6	MT/FF/10-15%		Hydrothermal MT	
		Crackled, Fragmented;	CH/P/8	PY/D/1%			
		Altered Plagioclase Porphyry	EP/D/4	CPY/D/tr.		Gradational Contacts	
		Monzonite Fragments					
		angular to subrounded					
		monzonite frags. (Breccia)					
		≈ 40-50% fine-med. gr. plagioclase phenocrysts, porphyritic					
		≈ 50% Kspar (pervasive in groundmass with Monzonite frags.)					
	(265.3)			CPY/FF/½%			
(66.1	66.3)			CPY/D/½%			
66.7	134.1	PLAGIOCLASE PORPHYRY	K/P/6-8	PY/FF/tr-1%			
		MONZONITE	CH/FF-P/6-7	MT/D/tr.-1%		moderately magnetic; locally strong	
		≈ 40-50% fine-med. gr. plag phenos	CB/FF/4	PY/D/tr.		dissem, blebs & fracture fills	
		≈ 35-55% Kspar (groundmass,		CPY/D/tr.			
		primary + alteration)					
		≈ 3% Biotite (Chloritized)					
		Groundmass colour: medium purple & green-grey (GS=5)				Purple colour combination Hematite Alt. & Kspar Alt. (?)	
(68.9	69.1)	CHLORITE-EPIDOTE-KSPAR (FF-FE)					
		fracture @ 10° to C.A. with					
		≈ 15-20% light brown garnet					

HOLE NO. CH 90-32

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(76.6	76.8)	Kspar fracture envelope with ≈40% Honey Brown garnet fracture filling.					
	(@78.8)	Kspar frac. envelope (veinlet 1.0 cm wide) @ 25° to C.A.; blue-green Clay-Carbonate frac fill with ≈25% Honey Brown coloured Garnets					
(79.0	79.6)	Carbonate Fracture fill @10° to C.A. (0.5 cm wide) with PY margin (≈10% PY)					
(80.7	82.0)	CPY frac fill & veinlets (up to 0.5 cm wide) 15% Kf		CPY/FF/2-3%		Good Chalcopyrite mineralization in Kspar Alt.	
	(@83.4, 85.0 & 86.5)	minor CPY		CPY/FF/tr.			
(85.3	85.6)	subangular - subrounded frags ≈20% plagioclase phenos in a purplish groundmass (Hematized,	Kspar Alt.?)			Breccia (Intrusion/Hydrothermal ?)	
(89.1	95.6)	7 Quartz Veins between (2.0-5.0 cm wide); purplish tinge to quartz; crackled with chlorite in hairline fractures.					

DRILL HOLE NO. CH 90-32

HOLE NO CH 90-32

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		Quartz Veins @ : 89.1 - 89.6	(3.0 cm wide) tr.	CPY @ 10° to C.A.			
		90.7	(2 cm) @ 50° to C.A,	@ 91.5 (1.0 cm)			
		91.6	(5 cm) @ 45° to C.A				
		92.4 - 92.7	(2 cm) Quartz +	minor Carb. Kspar	envelope	(10° to C.A.) + ≈ 5% Honey Brown garnets.	
		93.7	(3 cm) @ 45° to C.A				
		95.4 - 95.6	(3 cm) @ 30° to C.A.	with Kspar envelope			
(91.4	92.2)	Blocky, Rubbly, Broken Core					
	(@ 93.6)			CPY/FF/tr.			
(94.4	94.5)			CPY/D/½%			
	(@ 95.2)	Garnet frac. fill (veinlet 0.5 cm wide) @ 20° to C.A.; Kspar Envelope		PY/FF/10% MT/FF/7%			
(95.9	96.6)			MT/D/3%		blebs dissem. MT & minor frac. fill	
	(@ 97.9 & 98.4)	tr CPY		CPY/D/tr.			
(99.1	99.4)	CPY with PY & Chlorite frac. fill		CPY/FF/1%			
(99.6	99.9)			MT/FF/3-5%			

DRILL HOLE NO. CH 90-32

HOLE NO CH 90-32

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(100.5	108.3)	Sheared, Brecciated (locally) Strongly Altered, Crackled + minor gouge (Chazonite)	CH-K/P/8-9 CB/FF/8-9			Generally weakly Magnetic (locally moderate) Carbonate Fracture filling (crackles & hairline fracs.) SHR/?/1-2 Contacts vague.	
	(@ 101.2)			CPY/D/tr.			
	(@ 102.5	103.5) Garnet (minor) Honey Brown colour					
(111.6	111.7)	3 Quartz Veinlets (0.3-0.5 cm wide) @ 55° to C.A.					
	(@ 113.7)	CARBONATE VEIN (5 cm wide) @ 50° to C.A.					
(119.5	120.1)	MAGNETITE BRECCIA MT frac. filling around subangular Monz. frags.		MT/FF/7-10%			
(121.0	134.1)	≈3-5/m KSPAR-EPID frac. envelopes	EP-K/FE/5				
	(@ 123.8)	Frac. fill 10% PY, ½% CPY (0.5 cm wide @ 20° to C.A.)		CPY/FF/½%			
(124.1	124.4)	Quartz Vein + Garnet (Honey Brown ≈30%) @ 20° to C.A.; 3-4 cm wide					
(125.7	126.0)			CPY/FF/tr-¼%			
	(@ 127.2)	frac. fill 10% PY; 3% MT; ½% CPY (0.5 cm wide @ 20° to C.A.) KSPAR-EPID frac. envelope		CPY/FF/½%			
134.1 EOH							

DRILL HOLE NO. CH 90-32

DRILL LOG sample data

CH-90-32.

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
91839	12.2	14	18	1.4	72	0.5								
840	14	16	2.0	2.2	90	0.2								
841	16	18	2.0	3.6	95	0.3								
842	18	20	2.0	2.9	95	0.1								
843	20	22	2.0	3.4	95	0.1								
844	22	24	2.0	2.6	90	0.2								
845	24	26	2.0	2.5	95	0.1								
846	26	28	2.0	2.3	80	0.4								
847	28	30	2.0	2.5	95	0.1								
848	30	32	2.0	2.5	100	0								
849	32	34	2.0	5.0	100	0								
850	34	36	2.0	4.3	95	0.1								
851	36	38	2.0	3.2	100	0								
852	38	40	2.0	11.0	95	0.1								
853	40	42	2.0	15.0	95	0.1								
854	42	44	2.0	3.3	95	0.1								
855	44	46	2.0	2.7	100	0								
856	46	48	2.0	23.6	100	0								
857	48	50	2.0	24.8	95	0.1								
858	50	52	2.0	18.7	100	0								
859	52	54	2.0	3.6	95	0.1								
860	54	56	2.0	4.3	100	0								
861	56	58	2.0	4.8	100	0								
862	58	60	2.0	1.8	100	0								
863	60	62	2.0	0.9	95	0.1								
864	62	64	2.0	6.5	100	0								

PAGE 1 OF 3

DRILL HOLE NO CH-90-32

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91865	64	66	2.0	40	95	01								
866	66	68	20	3.1	100	0								
867	68	70	20	2.1	100	0								
868	70	72	20	14	90	02								
869	72	74	20	3.2	100	0								
870	74	76	20	28	90	02								
871	76	78	20	38	100	0								
872	78	80	20	1.7	100	0								
873	80	82	20	10	100	0								
874	82	84	20	13	90	02								
875	84	86	20	44	95	0.1								
876	86	88	20	18	95	01								
877	88	90	20	19	100	0								
878	90	92	20	0.7	95	01								
879	92	94	20	0.7	90	02								
880	94	96	20	10	95	0.1								
881	96	98	20	20	85	03								
882	98	100	20	40	95	01								
883	100	102	20	5.6	100	0								
884	102	104	20	18	100	0								
885	104	106	20	0.7	80	04								
886	106	108	20	0.6	95	01								
887	108	110	20	22	100	0								
888	110	112	20	18	95	01								
889	112	114	20	16	95	0.1								
890	114	116	20	16	95	01								

PAGE 2 OF 3

DRILL HOLE NO CH-90-32

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
91891	116	118	2.0	17	90	0.2								
892	118	120	2.0	33	100	0								
893	120	122	2.0	29	100	0								
894	122	124	2.0	62	100	0								
895	124	126	2.0	11	100	0								
896	126	128	2.0	37	100	0								
897	128	130	2.0	68	100	0								
898	130	132	2.0	25	100	0								
899	132	134.1	2.1	1.7	100	0								

DRILL HOLE NO OI-90-32

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-33

UTM N: 6125130m
UTM E: 402275m
GRID N: 115+09
GRID E: 102+74

Elev.: 1376m
Depth: 304.5m
Azimuth: 273°
Dip: -60°

Metres (m)

0.0 - 39.6	OVERBURDEN	
39.6 - 304.5	MONZONITE PORPHYRY weak to strong potassic and epidote/tremolite/actinolite alteration. weakly to moderately mineralized with 76.0-134.8m averaging 0.22% Cu, the remainder of the hole averaging 0.03-0.1% Cu.	
304.5	E.O.H.	

HOLE NO. CH90-33

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH			PROJECT: Chuchi Lake
Olympic Drilling	N	COLLAR	-60	273°	DATE STARTED:	9/7/90	NTS: 93N/07E
		999'	-55		DATE COMPLETED:	9/10/90	LOCATION: 115-09N/102-75E
					COLLAR ELEV.:	1376m	
					NORTHING:	6125130	
					EASTING:	402275	
					AZIMUTH:	273°	
					DEPTH:	999' (304.5m)	DATE LOGGED: 9/9-11/90
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY: C.T.Barrie

INTERVAL (meters) FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	39.6	Overburden					
39.6	76.0	Monzodiorite: medium- and fine-grained, strong and moderate potassic and epidote-tremolite/actinolite alteration, non- to slightly magnetic, 0-4% pyrite, 0.-1% chalcopyrite, (0.25% avg).	A: K/P/5-9 B: Ep + trem/act + chl/DB/3-6 C: Bi/FE/1-3	A: Py/D+FF/0.1-4% B: Cpy/D+FF/0.25%		- Primary igneous fabric/35-45°/1 - Local minor fault zones: broken core and rubble - Hairline fractures randomly oriented, 5-10cm spacing.	
	39.6-40.0	Monzodiorite, with 50% fragments of fine-grained monzodiorite-latite	A: Chl/P/5 B: K/FE/5	Py/D+FF/3% Cpy/D/0.2%		- Fine-grained fragments possible chill margin. - Chl alt. 1st, followed by others; K alt. as envelopes to ep + trem/act + chl blebs.	
	40.0-51.6	→	A: K/P+FF/7 B: Ep + trem/act/DB/5 C: FeOx/FE/4	Py/D+FE/1-2% Cpy/D+FF/0.15%		- Broken core/rubble: 46.5-46.7, 47.7-47.8, 48.2-48.8, 49.7-49.9. - DB of stellate trem/act xls up to 5cm, replaced by epidote, and enclosed in ovoid patches of epidote and blue-green chlorite.	

HOLE NO. CH90-33

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
	51.6-55.5	→	A: K/PtFE/8 B: Ep+tran/act/DB/7 C: FeOx/FE/4	Py/DtFF/0.4% Cpy/D/0.1%		Highly fractured and broken core, rubble.	
	55.5-61.3	→	A: K/PtFE/7 B: Ep+tran/act/FE,DB/5 C: FeOx/FE/3	Py/DtFF/0.7% Cpy/DtDB/0.15% Hm/FF/0.1%		- Hm after sulfides, and associated with chlorite, along fractures	
	61.3-65.1	Fault zone: highly fractured monzodiorite; broken core and rubble	A: Chl+Bt/FF/5 B: Ep+tran/act/D/4 C: FeOx/FE/4	Py/DtFF/0.2 Cpy/D/trace			
	65.1-76.0	→	A: K/PtFE/7 B: Ep+tran/act/FE,DB/5 C: Chl/DtFF/3	Py/DtFF/0.5% Cpy/DtFF/0.4% FeOx/FF/0.1%		- Highly fractured zones: 67.5-68.5, 70.9-71.0 - 0.6% cpy 65.8-66.3. - cpy with ep in DB locally.	
	76.0-76.7	Fault zone; as above, with 1 cm thk qt-kf vein	A: Chl/P/7 B: K/FE/5 C: Carb/D/3	Py/DtFF/1.5 Cpy/DtFF/0.5		QV/05°/2	
76.7	94.0	Biotite monzodiorite: medium-grained, equigranular to subporphyritic, moderate to strong potassic alteration, moderately magnetic, local quartz-k spar veins, 1% pyrite, 0.6% chalcopyrite.	A: K/DtFE/6 B: Ep/DB,FF/5 C: Tran/act/DB,FF/5	Py/DtFE/1.0 Cpy/DtFE,DB/0.6		- Magnetite primary mineral of monzodiorite; no hydrothermal variety. - Cpy asso. w/ ep, tran/act DB and FF.	

DRILL HOLE NO. CH90-33

HOLE NO. CH90-33

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
	76.7-78.0	→	→	A: Py / DIFF / 1.5% B: Cpy / DIFF / 0.9%		Partly broken core and rubble.	
	78.0-80.9	→	→	Py / DIFF / 0.7% Cpy / DIFF / 0.3%			
	80.9-84.5	→	→	Py / DIFF / 1.0% Cpy / DIFF / 0.35%			
	84.5-92.1	→	A: K / P / 7 → B: Ep / DDIFF / 6 C: Trem/act / FF / 3	Py / DIFF / 0.7% Cpy / DIDDIFF / 0.8%		- Fracture / 45° / 2 - Potassic metasomatic fronts, with irregular boundaries, from veins into wallrock.	
	92.1-94.0	→	→	Py / DIFF / 0.5% Cpy / DIFF / 0.3%			
94.0	100.0	Fault zone: monzonite protolith.	A: Cly / P / 6 B: K / DDIFF / 6 C: Ep / DD / 5 D: Trem/act / FF / 3	Py / DIFF / 1.2% Cpy / DIFF / 1.0%		Rubble: 94.2-94.5, 95.0-95.5, 98.0-98.8, 99.7-100.0	
100.0	110.7	Monzodiorite, as above, local strong potassic alteration, non- to slightly magnetic, 1.5% pyrite, 1.0% chalcopyrite.	A: K / PFE / 7 B: Ep / DDIFF / 6 C: Trem/act / FE / 4 D: Bt / FF / 3	Py / FFID / 1.5% Cpy / FFID / 1.0%		- Broken core / rubble: 106.4-106.7, 107.8-108.0, 110.1-110.3. - 3% Cpy 107.0-107.3. - Brown hydrothermal bt in 0.5 cm thk fracs 109.0-109.3.	

DRILL HOLE NO. CH90-33

HOLE NO.

INTERVAL		ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE	REMARKS
FROM	TO					(Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
110.7	134.8	Biotite monzodiorite : cs char, non-foliated magnetic, 1.2% pyrite, 0.5% chalcopyrite, trace molybdenite	A: K/P;FE/7 B: Ep;Carb;Chl/DB;FE/6 C: Bt/FF/2	Py/FF10/1.2 Cpy/FF10/0.5 Moly/FF/tr			
	110.7-116.4	→	→	Py/FF10/1 Cpy/FF10/0.2%			
	116.4-120.0	→	→	Py/FF10/1.2% Cpy/FF10/1.4%			
	120.0-123.0	→	A: Chl/P/5 B: K;Ep/DB/5	Py/FF10/1% Cpy/FF10/0.2%			
	123.0-127.3	→	A: Chl/P/5 B: K;Ep/DB;FE/5 C: Cla/FF/3	Py/FF10/3% Cpy/FF10/1.8% Moly/FF/tr			
	127.3-131.7	→	→	Py/FF10/0.3% Cpy/FF10/0.3%			
	131.7-132.3	Inclusion of fine-grained monzodiorite or latite, metasomatic, not magnetic	→	Py/FF/0.3% Cpy/FF/0.45%			

PAGE 4 OF 10 DRILL HOLE NO.

HOLE NO. CH50-33

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age, relations)
	132.3-134.8	→	→	Py/FFtD/1% Cpy/FFtDB/0.4%			
134.8	135.7	Plagioclase-augite latite porphyry dike; unaltered, moderately magnetic, no sulfides.				- Post mineralization - DK/45°43 - Brecciated wallrock for 30 cm upholo (minor)	
135.7	176.0	Biotite monzodiorite: as above, slight to moderate K-spar, epidote and chlorite alteration, 1% pyrite, 0.3% chalcopyrite.	A: K/P+FE/5 B: Ep+Chl/DB+FE/4	Py/FFtD/1% Cpy/DIFF/0.3%			
	135.7-140.6	→	→	Py/FFtD/1% Cpy/DB/0.3%		V/15°75°/3	
	140.6-141.1	Quartz carbonate K spar veins 0.5-5cm	A: Chl+Ser/P/6 B: Carb/V/5	Py/FFtD/0.8% Cpy/DB/0.6%			
	141.1-148.0	→	→	Py/DB+FF/0.6% Cpy/DB/0.3%			
	148.0-150.0	→	A: K+Ep/DB+FE/5 B: Chl/P/4	Py/DIFF/3% Cpy/DB+FF/0.8%			
	150.0-158.0	As above, minor brecciation	A: K+Ep/DB+FE/5 B: Chl/P+FF/5	Py/DIFF/0.5% Cpy/DB/0.15%			

DRILL HOLE NO. CH50-33

HOLE NO. C190-33

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frim	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
	158.0-171.2	→	A: Chl / P / 5 B: K / P,FE / 6 C: Ep / DB / 5	Py / DIFF / 0.6% Cpy / DIFF / 0.5%		Broken core/rubble: 158.8-160.1, 161.0-161.5, 165-162.3, 164.7-164.9.	
	171.2-173.5	→	A: K / P,FE / 6 B: Ep / DB / 6 C: Bi / FF / 4	Py / DIFF / 2% Cpy / DB,FF / 0.5%		Bt FF up to 0.5cm thick.	
	173.5-173.6	→	A: K / V / 10 B: Ep / DB / 7	Py / DIFF / 1.8% Cpy / DB / 0.3%		K-spar vein / 45°/3.	
	173.6-176.0	→	→	Py / DIFF / 1% Cpy / DB / 0.3%			
176.0	201.5	Biotite monzonite; as above, less mineralization		Py / DIFF / 0.7% Cpy / DIFF / 0.1%			
	176.0-187.0	→	A: Ep + Carb/chl / DB / 5 B: K / FE / 4 C: Chl / P / 3	Py / D / 0.5% Cpy / DB / 0.1%			
	187.0-201.5	→	A: Ep, chl + carb / 5 B: K / FE / 4 C: Carb / FF / 3	Py / DIFF / 0.3% Cpy / DB / 0.1%		Breccia and qtz-K-spar-carb veins 189.5-189.8. Broken core/rubble 196.4-196.7, 197.9-198.5	

DRILL HOLE NO. C190-33

HOLE NO. CH90-33

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
201.5	208.4	Plagioclase porphyritic biotite monzodiorite: 5-10% plagioclase phenocrysts medium-coarse grained, 2-7% biotite, moderate to strong potassic alteration	A: K/P+FE/5 B: Ep+Carb/ext/OB C: Bi/FF/2	Py/DIFF/0.4% Cpy/DIFF/0.2%		Trachytic texture /45°/3. Trace graphite along fractures - MoS2?	
208.4	244.5	Biotite monzodiorite, as above, less alteration.	A: Ep/OB/3 B: K/FE/3 C: Chl/P/2	Py/DIFF/0.3% Cpy/OB+FF/0.2%			
	2084-2100	→	A: K/FE/6 B: Ep/OO/4	Py/DIFF/0.5% Cpy/OB/0.1%			
	2100-215.5	→	A: Chl/P/3 B: Ep/O/3	Py/DIFF/0.4% Cpy/OB/0.1%		Trachytic /45°/2	
	215.5-219.0	→	→	Py/DIFF/0.4% Cpy/OB/0.25%			
	219-221.0	→	A: Chl/P/3	Py/D/0.2%			
	221.0-225.5	→	A: Ep/OB/3 B: Chl/P/3 C: Carb/FF/2	Py/D/0.6% Cpy/OB/0.2%			

DRILL HOLE NO. CH90-33

HOLE NO. CH90-33

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
	225.9-226.3	→	Ep / DB / 7 K / FE / 4	Py / DIFF / 1.2% Cpy / DB / 0.6%		Cpy closely asso. w/ Ep.	
	226.3-231.4	→	Chl / P / 3 Ep / DB / 3	Py / DIFF / 0.6% Cpy / D / 0.1%		Inclusion of fine-grained monzodiorite 10cm at 227.3.	
	231.4-232.0	→	→	Py / DIFF / 3.5% Cpy / FF / 1.0%		Pyrite-rich fracture / 65°/2.	
	232.0-234.5	→	→	Py / DIFF / 0.3% Cpy / DB / 0.2%			
	234.5-241.0	→	A: Ep / DB, FE / 5 B: K / FE / 5	Py / DIFF / 0.8% Cpy / DB / 0.15%			
	241.0-244.5	→	A: K / D, FE / 6 B: Ep / DB, FE / 5	Py / FF, D / 1.5% Cpy / D, DB / 0.35%		Strong potassic alteration locally, also syenitic veinlets up to 3 cm thick with diffuse boundaries 242.5-242.6.	
244.5	278.8	Magnetite biotite monzodiorite: fine-grained magnetite (2-3.5%) and biotite (2-4%), and medium-grained, equigranular to sub-porphyritic monzodiorite (as above), slight to moderate epidote and potassic alteration, strongly magnetic, 0.4% pyrite, 0.15% chalcopyrite	A: K / FE / 3 B: Ep / DB, FE / 3 C: Bt / FF / 1	Py / DIFF / 0.4% Cpy / DB, D / 0.15%		Locally trachytic / 0-50°/2	

DRILL HOLE NO. CH90-33

HOLE NO. CH90-33

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
	244.5-253.6	→	A: Ep / DB / 3	Py / DIFF / 0.3%			
			B. Chl / P / 3	Cpy / DD+D / 0.15%			
	253.6-258.5	→	→	Py / DIFF / 0.5%		Po with Ep, along w/ Py+Cpy.	
				Cpy / FF+DB / 0.5%			
				Po / DB / 0.1%			
	258.5-263.4	→	→	Py / D / 0.1%			
				Cpy / D / 0.1%			
	263.4-263.6	→	A: Ep / FE+DD / 6	Py / FF+DB / 0.3%			
			B: K / FE / 3	Cpy / FF+DB / 0.5%			
				Po / FF+DB / 0.1%			
	263.6-267.2	→	→	Py / D / 0.1%			
				Cpy / D / 0.1%			
	267.2-267.6	→	A: Ep / FE / 5	A: Py / FF / 0.4%		Frac / 05° / 3.	
			B: K / FE / 3	B: Cpy / FF / 0.4%			
				c. Po / FF / 0.1%			
	267.6-270.2	→	A: Ep / FE+DB / 3	Py / DIFF / 0.3%			
			B: K / FE+DB / 3	Cpy / DB+D / 0.1%			

DRILL HOLE NO. CH90-33

HOLE NO. CH90-33

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Ftm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age, relations
278.8	304.5 EOH	Monzodiorite: medium-grained, ≤1.5% magnetite, <2% biotite.	A: Chl/P/3 B: Ep/DS FF/2 C: K/FE/2	A: Py/D FF/0.3% B: Cpy/DS FF/0.1%		Locally breccia.	
	278.8-285.4	→	→	Py/D/0.4% Cpy/D/0.1%			
	285.4-285.5	Inclusion of fine-grained monzodiorite					
	285.5-304.5	→	A: Ep/DS FE/2 B: K/FE/2 C: Bt/FF/1	Py/D FF/0.2% Cpy/D/ trace			
	304.5	EOH.					

DRILL HOLE NO. CH90-33

DDH - CH-90-33

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
91900	39.6	42.0	2.4	1.3	100	0								
901	42	44	2.0	0.6	90	0.2								
902	44	46	2.0	0.6	95	0.1								
903	46	48	2.0	0.5	85	0.3								
904	48	50	2.0	0.6	95	0.1								
905	50	52	2.0	0.6	100	0								
906	52	54	2.0	0.6	65	0.7								
907	54	56	2.0	0.7	85	0.3								
908	56	58	2.0	0.6	95	0.1								
909	58	60	2.0	0.6	100	0								
910	60	62	2.0	0.4	100	0								
911	62	64	2.0	0.7	80	0.4								
912	64	66	2.0	0.7	80	0.4								
913	66	68	2.0	0.5	90	0.2								
914	68	70	2.0	0.5	85	0.3								
915	70	72	2.0	0.2	90	0.2								
916	72	74	2.0	0.4	100	0								
917	74	76	2.0	2.9	95	0.1								
918	76	78	2.0	1.1	85	0.3								
919	78	80	2.0	1.8	95	0.1								
920	80	82	2.0	1.6	100	0								
921	82	84	2.0	2.4	100	0								
922	84	86	2.0	0.6	100	0								
923	86	88	2.0	1.2	100	0								
924	88	90	2.0	1.6	100	0								
925	90	92	2.0	1.1	95	0.1								

DRILL HOLE NO CH-90-33

DDH 90-33 cont.

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
91926	92.0	94.0	2.0	2.4	90	0.2								
927	94.0	96.0	2.0	1.2	90	0.4								
928	96.0	98.0	2.0	1.1	90	0.2								
929	98.0	100.0	2.0	1.2	95	0.1								
930	100.0	102.0	2.0	1.0	95	0.1								
931	102.0	104.0	2.0	1.2	90	0.2								
932	104.0	106.0	2.0	1.7	100	0.0								
933	106.0	108.0	2.0	1.4	95	0.1								
934	108.0	110.0	2.0	1.0	85	0.3								
935	110.0	112.0	2.0	1.7	95	0.1								
936	112.0	114.0	2.0	1.3	100	0.0								
937	114.0	116.0	2.0	0.3	90	0.2								
938	116.0	118.0	2.0	0.2	100	0.0								
939	118.0	120.0	2.0	0.4	85	0.3								
940	120.0	122.0	2.0	0.6	95	0.1								
941	122.0	124.0	2.0	0.5	100	0.0								
942	124.0	126.0	2.0	0.5	90	0.2								
943	126.0	128.0	2.0	0.5	95	0.1								
944	128.0	130.0	2.0	0.8	95	0.1								
945	130.0	132.0	2.0	3.7	90	0.2								
946	132.0	134.0	2.0	1.8	95	0.1								
947	134.0	136.0	2.0	1.3	100	0.0								
948	136.0	138.0	2.0	1.0	95	0.1								
949	138.0	140.0	2.0	2.1	90	0.2								
950	140.0	142.0	2.0	0.8	90	0.2								
91951	142.0	144.0	2.0	0.9	85	0.3								

DRILL HOLE NO CH 90-33

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS.	%	AMT LOST								
91552	144.0	146.0	2.0	1.1	85	0.3								
953	146.0	148.0	2.0	4.1	95	0.1								
954	148.0	150.0	2.0	3.2	100	0.0								
955	150.0	152.0	2.0	5.3	90	0.2								
956	152.0	154.0	2.0	1.8	50	0.4								
957	154.0	156.0	2.0	3.0	75	0.5								
958	156.0	158.0	2.0	1.4	85	0.3								
959	158.0	160.0	2.0	1.4	80	0.4								
960	160.0	162.0	2.0	0.5	100	0.0								
961	162.0	164.0	2.0	0.3	100	0.0								
962	164.0	166.0	2.0	0.1	85	0.3								
963	166.0	168.0	2.0	0.1	95	0.1								
964	168.0	170.0	2.0	1.6	100	0.0								
965	170.0	172.0	2.0	1.8	95	0.1								
966	172.0	174.0	2.0	1.5	100	0.0								
967	174.0	176.0	2.0	1.5	90	0.2								
968	176.0	178.0	2.0	1.2	95	0.1								
969	178.0	180.0	2.0	0.7	95	0.1								
970	180.0	182.0	2.0	1.6	95	0.1								
971	182.0	184.0	2.0	1.9	100	0.0								
972	184.0	186.0	2.0	0.9	100	0.0								
973	186.0	188.0	2.0	0.4	95	0.1								
974	188.0	190.0	2.0	2.6	90	0.2								
975	190.0	192.0	2.0	2.2	100	0.0								
976	192.0	194.0	2.0	1.9	95	0.1								
91977	194.0	196.0	2.0	1.9	100	0								

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DRILL HOLE NO CH90-53

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
91978	196	198	2.0	0.3	95	0.1								
979	198	200	2.0	0.2	90	0.2								
980	200	202	2.0	0.4	100	0								
981	202	204	2.0	0.4	95	0.1								
982	204	206	2.0	0.9	100	0								
983	206	208	2.0	0.9	100	0								
984	208	210	2.0	1.4	100	0								
985	210	212	2.0	3.2	95	0.1								
986	212	214	2.0	3.8	95	0.1								
987	214	216	2.0	2.3	100	0								
988	216	218	2.0	1.6	100	0								
989	218	220	2.0	1.8	95	0.3								
990	220	222	2.0	1.0	100	0								
991	222	224	2.0	1.4	100	0								
992	224	226	2.0	2.7	100	0								
993	226	228	2.0	4.2	100	0								
994	228	230	2.0	2.4	100	0								
995	230	232	2.0	1.2	100	0								
996	232	234	2.0	5.0	90	0.2								
997	234	236	2.0	3.2	100	0								
998	236	238	2.0	1.3	95	0.1								
999	238	240	2.0	3.1	100	0								
92000	240	242	2.0	2.3	90	0.2								
001	242	244	2.0	1.5	95	0.1								
002	244	246	2.0	4.5	100	0								
003	246	248	2.0	3.1	100	0								

DRILL HOLE NO CH-90-33

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
77004	248.0	250	2.0	8.7	90	0.2								
005	250.0	252.0	2.0	6.4	80	0.4								
006	252.0	254.0	2.0	7.1	95	0.1								
007	254.0	256.0	2.0	5.3	100	0								
008	256.0	258.0	2.0	4.7	100	0								
009	258.0	260.0	2.0	7.3	95	0.1								
010	260.0	262.0	2.0	4.5	100	0								
011	262.0	264.0	2.0	5.0	95	0.1								
012	264.0	266.0	2.0	2.5	95	0.1								
013	266.0	268.0	2.0	7.6	95	0.1								
014	268.0	270.0	2.0	8.0	90	0.2								
015	270.0	272.0	2.0	9.0	100	0								
016	272.0	274.0	2.0	6.5	100	0								
017	274.0	276.0	2.0	6.1	100	0								
018	276.0	278.0	2.0	6.5	100	0								
019	278.0	280.0	2.0	5.6	100	0								
020	280.0	282.0	2.0	1.0	100	0								
021	282.0	284.0	2.0	3.1	100	0								
022	284.0	286.0	2.0	1.2	100	0								
023	286.0	288.0	2.0	4.3	100	0								
024	288.0	290.0	2.0	1.5	100	0								
025	290.0	292.0	2.0	2.0	100	0								
026	292.0	294.0	2.0	2.3	100	0								
027	294.0	296.0	2.0	3.3	95	0.1								
028	296.0	298.0	2.0	4.0	100	0								
029	298.0	300.0	2.0	3.3	100	0								

DRILL HOLE NO CH 90-33

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
77030	300.0	302.0	2.0	1.8	100	0								
77031	302.0	304.5	2.5	2.5	100	0								

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DRILL HOLE NO CH90-73

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-34

UTM N: 6125130m	Elev.: 1376m
UTM E: 402275m	Depth: 213.1m
GRID N: 115+09	Azimuth: 090°
GRID E: 102+74	Dip: -45°

Metres (m)

0.0 - 75.3	CASING
75.3 - 87.4	MONZONITE PORPHYRY mod. epidote and chlorite, local k-spar, 1-3% PY, CP (est. 0.15% Cu).
87.4 - 152.1	BIOTITIC TUFF (?) abundant irregular monzonite, mod. epidote, chlorite and k-spar, strong biotite, 3-4% PY, CP (est. 0.1-0.2% Cu).
152.1 - 152.4	POSSIBLE FAULT gouge, strong chlorite and sericite, mod. quartz, 2% PY.
152.4 - 213.1	MIXED MONZONITE PORPHYRY/HYBRID ROCK ~50/50, local intrusion breccia, weak to mod. k-spar, epidote and calcite, 2% PY, CP (est. 0.1-0.2% Cu).
213.1	E.O.H.

** est. ~0.15% Cu over 137.8m from 75.3-213.1m.

HOLE NO. CH 90-34

DRILLING CO: Olympic Drilling	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: Sept 10, 1990	PROJECT: CHUCHI
		COLLAR	-46°	090°	DATE COMPLETED: Sept 16, 1990	N.T.S.: 93N/7E
		699'	-43°		COLLAR ELEV.: 1376 m	LOCATION:
					NORTHING: 6125130	115-09(-)/102+74E
					EASTING: 462275	
					AZIMUTH: 090°	
					DEPTH: 699' (213.1m)	DATE LOGGED: Sept 16-17, 1990
HOLE TYPE: DDH					CORE SIZE: NQ	LOGGED BY: RN

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	75.3	CASING				75.0-75.3 recovered mixed boulders	
75.3	87.4	Monzonite Porphyry:				st oxid along fx from 77.5 - 81.4 m	
		= mod - st magnetic, med-grey	A) Ep-Ch/D/5				
		to 'salt + pepper' black-white	B) K/P+FE/0-6				
		colour		A) Py-tr Cp/D/tr -1%		} est .15% Cu avg	
		- plag phenos rectangular from		B) Py-Cp/FF/0-3%		}	
		.3 - 3mm, avg 1-2 mm		Cp(?) in area of volc inclusions			
		comprise ~ 35-40%					
		- bi avg locally ~ 5%, only					
		wkly alt?					
		- Kspar gm, pink-grey to				LCT gradational, occurs where volc inclusions are aligned	
		green grey, ~ 50%					
		- interstitial early chlorite Hb?					
		or Aug ~ 5%; vfg diss					
		mt ~ 1-2%					
		- may inclusions of volc					
		comprise ~ 20% eg. 81.9 - 82.8	is ~ 20% volc				

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DRILL HOLE NO. CH 90-34

HOLE NO. CH90-34

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
87.4	152.1	Fg. vlc. tuff ?					
		- massive; non-magnetic ;				Solid core, ~100% recoveries	
(87.4	110.0)	dk green to black; non-calc	A) Ep/P/6-7				
		- abundant irreg zones of	B) K/P/3-5 local				
		monzod. porphyry, some	zone with vein				
		of which look like dyk	zones				
		in two dimensions (est 10-40	C) Bi hydroth or	A) Py+Cp/FF/2-1 (dry		? predominate over diss, Py predominant over Cp)	
		% intrusive component -	hfls ?	B) Py-Cp-Act/D/1-2		dk preferred orientation to sulphide ??	
		may be parallel to vlc/	D) Ch/P/5-6				
		monzod contact); locally grad	into intrusive rocks	(eg 102.3m, 108.2m)		From ~86-110 m est .15-.20 % Cu avg; relatively	
		- strongly biotitic (vlg), possibly				uniform distribution. From 110-136 est. .1 % Cu	
		last pseudomorphs after (-)					
		mu dly (?)				114-120m with brkt zx locally with carb	
						matrix.	
(110.0	136.0)	- intrusive component increase	A) Ep/P/5-6	A) Py-Cp/FF/2-4			
		toward lower contact at				Good bx text at 129.0 m with matrix ch-	
		152.1, yea decrease in	B) K/P/3-5	B) Py-tr Cp/D/1		carb - Py-Cp in matrix ... in coarse bx ...	
		sulphide and potassic alt					
			C) Cb/FF/local 3			Better Cp from ~128-132 m (.1-.2 % Cu)	
			D) Ac-Ch+Cb/D+FF/4				

DRILL HOLE NO. CH90-34

HOLE NO CH 90-34

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(136.0	152.1)	Chloritization of biotite less	A) Ep/P/3	A) Py-tr Cp/FF/1-2			
		intense - volc is more				est <.1% Cu	
		brown-black in colour; high	B) Ch±Cb/D/2	B) Py-tr Cp/D/	tr-1		
		proportion of intrusive (>50%)					
		Kspar plag phenos to 5mm	C) K/P/1-2			142.4 - 143.5 m is wk shear @ 0-20°CA	
		- bleached and qtz-veined	Δ) Q/V/local 7				
		from 150.0-152.? with				Sh/FLt/20-30°/2-3 ; from 152.1-152.4 m	
		shear/gouge/flt from 152.1-					
		152.4. NB. Bleached + qtz					
		vein zone more extensive					
		on "hanging wall" volc/intrus.					
		("probable" fault contact)					
152.1	152.4	Gouge/FLt; fabric ~ 20-30	° CA, separates	volc/intrus	from	strongly magnetic intrusive-dominated zone	
			A) Cy-Ser/P/3	A) Py/D/1	2		
			B) Q/V/5				
152.4	213.1 EOH	Mixed Monzonite Porphyry/					
		"Hybrid" Volc:					
		- sharp increase in MS at					
		154.0 m					
		- local zones with high					
		proportion of volc inclusions					
		which could be called					

HOLE NO. CH90-34

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		intrusion breccia or hybrid	A) K/P/1.5 (cost				
		zone, wk - st magnetic	(best in bx/hybrid			163.3 - 163.7 are two 15 cm-wide carbonate-	
		eg. 152.5 - 155.1	zones) eg. 172	175m, 180-190m,		healed shears @ 45-60° CA, host core has	
		165.4 - 175.8		A) Py-tr Cp/FF/1-2 %		3% Py + 3% Cp	
		180.1 - 190.4	B) Ep/P/3:	(avg [illegible] best in hybrid zone)			
		= monzonite porphyry green-med					
		to dark grey-green;	C) Ca/FF/1-4	B) Py-tr Cp/D/tr-1 %		167-168m wk shear ~ parallel CA, healed	
		plag. xtals ~ 30%, avg.	(best 167-168m)			by carbonate	
		1-2 mm, strongly magnetic					
						0-30° clay-slt fr and veins in monzonite,	
		= hybrid zones 196.8 - 199.0,		* Py by FF decrease		core is broken	
		204.4 - 209.0, 211.0 - 213.1;		but diss Py + Cp increase			
		contacts very approximate		downhole.		Hybrid zones est .1-.3 % Cu avg; intrus-dominant	
		(complex relationships between				zones ≤ .1 % Cu; locally st Py diss Cp	
		mnz and x/c)				[illegible] zones up to 10cm e.g. 208.8	

DRILL HOLE NO. CH90-34

CH-90-34

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
7032	75.3	78.0	2.7	2.3	100	0								
033	78	80	2.0	0.1	95	0.1								
034	80	82	2.0	0.1	85	0.3								
035	82	84	2.0	1.6	100	0								
036	84	86	2.0	1.4	100	0								
037	86	88	2.0	0.2	95	0.1								
038	88	90	2.0	0	100	0								
039	90	92	2.0	0.1	100	0								
040	92	94	2.0	0	95	0.1								
041	94	96	2.0	0.1	100	0								
042	96	98	2.0	0	95	0.1								
043	98	100	2.0	0.1	100	0								
044	100	102	2.0	0.1	100	0								
045	102	104	2.0	0.1	100	0								
046	104	106	2.0	0.1	100	0								
047	106	108	2.0	0.3	100	0								
048	108	110	2.0	0.3	100	0								
049	110	112	2.0	0.1	95	0.1								
050	112	114	2.0	0.6	100	0								
051	114	116	2.0	1.1	100	0								
052	116	118	2.0	0.2	96	0.2								
053	118	120	2.0	0.1	100	0								
054	120	122	2.0	0	100	0								
055	122	124	2.0	0	96	0.2								
056	124	126	2.0	0.2	100	0								
057	126	128	2.0	0.1	96	0.2								

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DRILL HOLE NO CH-90-34

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
77058	128	130	2.0	0	95	0.1								
059	130	132	2.0	0.1	100	0								
060	132	134	2.0	0.2	95	0.1								
061	134	136	2.0	0	100	0								
062	136	138	2.0	0.1	100	0								
063	138	140	1.0	0.1	90	0.2								
064	140	142	2.0	0.1	95	0.1								
065	142	144	2.0	0	100	0								
066	144	146	2.0	0.1	100	0								
067	146	148	2.0	0	100	0								
068	148	150	2.0	0	100	0								
069	150	152	2.0	0	100	0								
070	152	154	2.0	0.1	90	0.2								
071	154	156	1.0	2.9	90	0.2								
072	156	158	2.0	6.2	100	0								
073	158	160	2.0	6.1	100	0								
074	160	162	2.0	5.7	95	0.1								
075	162	164	2.0	5.4	95	0.1								
076	164	166	2.0	1.8	90	0.4								
077	166	168	2.0	0.3	85	0.3								
078	168	170	2.0	0.1	75	0.5								
079	170	172	2.0	0.1	95	0.1								
080	172	174	2.0	0	100	0								
081	174	176	2.0	0.3	100	0								
082	176	178	2.0	4.3	65	0.7								
083	178	180	2.0	7.9	95	0.1								

DRILL HOLE NO 01-90-3[illegible]

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
[illegible]-084	180	182	2.0	0	100	0								
085	182	184	2.0	0.2	100	0								
086	184	186	2.0	1.5	96	0.2								
087	186	188	2.0	1.2	100	0								
088	188	190	2.0	2.0	95	0.4								
089	190	192	2.0	4.2	100	0								
090	192	194	2.0	1.4	98	0.2								
091	194	196	2.0	2.9	100	0								
092	196	198	2.0	4.4	100	0								
093	198	200	2.0	4.6	100	0								
094	200	202	2.0	6.4	100	0								
095	202	204	2.0	5.5	100	0								
096	204	206	2.0	11.3	100	0								
097	206	208	2.0	5.4	100	0								
098	208	210	2.0	2.1	100	0								
099	210	213.1	3.1	6.7	93	0.2								
E.O.H.														

DRILL HOLE NO [illegible]-80-34

HOLE NO. CH 90-35

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING		COLLAR	-60°	090°	DATE STARTED	Sept 16, 1990	PROJECT:	CHUCHI LAKE
					DATE COMPLETED	Sept 19, 1990	NTS:	93N/7E
					COLLAR ELEV.:	1372m	LOCATION:	
					NORTHING:	6125230		116N/102+70E
					EASTING:	402255		
					AZIMUTH:	090°		
					DEPTH:	55.8m (183')	DATE LOGGED	—
HOLE TYPE: DDH					CORE SIZE:	NQ	LOGGED BY:	RW

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	183' (55.8m)	CASING - hole lost (NO SAMPLES)					
	EOH						

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DRILL HOLE NO. CH 90-35

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-36

UTM N: 6125260m
UTM E: 402405m
GRID N: 116+17
GRID E: 105+00

Elev.: 1300m
Depth: 243.5m
Azimuth: 271°
Dip: -52°

Metres (m)

0.0 - 51.5	OVERBURDEN	
51.5 - 126.9	MONZONITE PORPHYRY mod. epidote, chlorite and k-spar, local biotite, 1-3% PY, Cp (est. 0.1-0.15% Cu).	
126.9 - 129.5	SHEARED, BLEACHED ZONE clay, sericite and quartz, 3% PY, trace CP.	
129.5 - 141.0	MONZONITE PORPHYRY mod. k-spar and epidote, 2-3% PY, trace CP.	
141.0 - 143.8	SYENOMONZONITE PORPHYRY post-mineralization(?), weak epidote and chlorite, trace PY.	
143.8 - 156.4	MONZONITE PORPHYRY mod. k-spar and epidote, 2-3% PY, CP (est. 0.1% Cu).	
156.4 - 157.2	SYENOMONZONITE PORPHYRY weak epidote and chlorite, 1% PY, trace CP.	
157.2 - 206.8	MONZONITE PORPHYRY weak to mod. k-spar and epidote, 1-2% PY, CP (est. ≤0.1% Cu).	
206.8 - 210.8	SYENOMONZONITE PORPHYRY weak epidote and chlorite, 1% PY, trace CP.	
210.8 - 243.5	MONZONITE PORPHYRY weak k-spar and epidote, 1-2% PY, CP (est. 0.15% Cu).	
243.5	E.O.H.	

** est. 0.1% Cu from 51.5-243.5m.

HOLE NO CH90-36

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: Sept 19, 1990	PROJECT: [illegible]
Olympic Drilling	N	COLLAR	-52°	271°	DATE COMPLETED: Sept 23, 1990	N.T.S.: 93L/7E
		243.5m	-52°		COLLAR ELEV.: 1300 m	LOCATION:
					NORTHING: 6125260	11G+17N / 105E
					EASTING: 402.485	
					AZIMUTH: 271°	
					DEPTH: 799' (243.5m)	DATE LOGGED: Sept 21-24, 1990
HOLE TYPE: DDH					CORE SIZE: NQ	LOGGED BY: P.I.T.

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS (Mineralization, type, age relations)
0	51.5	CASING					
51.5	93.4	MONZONITE PORPHYRY:				52.5 rare mafic xenoliths, 9cm long aligned ~10° CA	
		- med grey-gr, variably magnetic					
		(st where not sheared/bleached)					
		- crt plag phenos .5-3.0mm long					
		avg 1.5mm ~40%					
(51.5	53.6)	- biot .5-1.0mm 2-3%	A) Cl-Ser/P/3	A) Py-Cl-Ep/FF/	1-2		
		- chl anygde ~5%, Kspar Gm	B) Ep/FF/3	B) Py/D/tr-1			
		~30%, text locally	C) K/FE/1				
		obscured by silicing	D) Cb/FF/1				
		- tr-3% ctt					
(53.6	60.1)	- Zone of struct-cont alt (10°)	A) K-Bi/P+FE/8	A) Py-Cp/FF/2-3		Est .2% Cu over 6.5m	
		and min adj to shear	B) Ep/FF+D/3	B) Py-Cp/D/tr-1			
			C) Cy/FE/3				
(60.1	60.7)	Shear/gouge, superimposed					
		on K-alt	A) Cy/SH/7	A) Py-Cp/FF/1		SH/0-10°/2	

DRILL HOLE NO. CH90-36

HOLE NO. CH 90-36

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(50.7	65.0)	[illegible]	a) [illegible] P/7	a) B-Cp [illegible]	r/2-3%	est. 2% Cu over [illegible]	
		[illegible]	b) Cp-Ch/P/4-5				
		[illegible]	c) [illegible] /2			overall 36-63.0 m [illegible] 2% Cu	
(?2.0	(3.0)	[illegible]	a) [illegible] P/3	a) B-Cp [illegible] /1-2%		[illegible] .05-1% Cu [illegible]	
		[illegible]	b) [illegible] P/0-3				
		[illegible]					
		[illegible])					
(66.0	93.4)	[illegible]				[illegible] 0-20° [illegible]	
		[illegible]				[illegible]	
		[illegible] portion [illegible] 75.4-	a) K-[illegible] /5-9	a) B-Cp-[illegible] /2			
		76.5 m	b) Ch/P/4	b) B-Cp [illegible] /1		est. 10% Cu	
			c) [illegible] /1-2	(vlg [illegible])			
		[illegible]		c) Cp-[illegible] /7		[illegible] at 78.8 m	
		[illegible]					
		[illegible]				80.9-81.3 [illegible] /7 ; [illegible]	
		Up to 10% [illegible]				[illegible] 6.5 cm in size	
		[illegible]				Increase in [illegible] at 93.4	
		[illegible]					
					93.4	[illegible] /~60°/1 [illegible]	
						[illegible])	

DRILL HOLE NO. CH 90-36

HOLE NO CH 90-36

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
93.4	96.7	Feldspar-Biotite Porphyry Monzonite				CT/10°/2-3 ; [illegible]	
		- mod magnetic, dark grey					
		- similar composition [illegible]	A) Ep/D/4 (tt)	A) Py/FF/1			
		texture, [illegible]	B) Ch/P/4	B) Py-Cp/D/tr	1%	est .05% Cu over [illegible] m	
		[illegible] porph, definitely					
		pre-mineral					
96.7	126.9	Monzonite Porphyry :				Est min as Cp-Py on dry fr gen sub parallel	
		- plag phenos gen obscure	A) K±Ep/FF/5	A) Py-trCp/FF/1-2		CA from 99-103 m (est .2% Cu)	
		due to alt and [illegible]					
		primary Mt (upto 10%)	B) Ep-Ch/D/4	B) Py-tr Cp/D/1-2		Est 96.7-~110m = 13.3 m @ .05-.1% Cu	
		- low angle fr + alt common				Est 110-120m = 10m @ = .0[illegible]% Cu	
		pervasive	C) G/FF/1-2	~110-120 m h.s		Est 120-126.9m = 6.9m @ .2 % Cu	
			(gen 30°)	≤ 1% sulphides (trCp)		120.0 SH/65°/3 ; 10 cm of quartz and qtz-carb-	
		- 118.3 m Fp andes-latite clast		120-126.9 incr sul Py-Cp		vein ; sericite-clay envelope ~ 20 cm wide	
				on low angle fr adj to sh		zone	
126.9	129.5	Healed brecciated shear zone	A) Cy-Ser/P/9	A) Py-trCp/FF/3			
		- predominant orientation of					
		veins and fr ~60-70°	B) Cat/V/6	B) He ?/D/1			
129.5	141.0	Monzonite Porphyry :					
		- med to dk grey-green,	A) K±Ep/FF/5	A) Py-Cp/FF/1	2		
		st magnetic (upto 10%	(low L)			Est 129.5-141.0 = 11.5m @ .1% Cu	
		diss + veinlet Mt locally)		B) Py-Cp/D/1	2		
		- porph texture obscured by alt +	B) Ch-Ep/D/4				

HOLE NO. CH 90-36

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
141.0	143.8	Syenomonzonite porphyry:				UCT/50/2; [illegible]	
		- dyke or differentiated				[illegible]	
		2 cm within monz. porph.					
		- mod-str magnetic, dk pink	A) Ep/D+FF/2-3				
		colour					
	*	- dominated by [illegible]	B) Ch/D/3			[illegible]	
		commonly zoned [illegible]				[illegible] less [illegible] than	
		from 2-10 mm within		A) Py-Cp/FF/.5		monzonite wallrock	
		[illegible]					
		[illegible]		B) Py/D/tr			
		[illegible] (40%), [illegible]					
		[illegible] (10%), 1-2 mm					
		biot (2%), dissem [illegible]				UCT/55/3, [illegible]	
		(1-2%); local cal vein				[illegible]	
		inclusions					
143.8	156.4	Monzonite Porphyry:					
		- dk green, strongly magnetic	A) K+Ep/FF/5-6 (mod angles to CA)			144.5 - 144.7 [illegible] dk pink [illegible] @ 60-70° CA; [illegible] Cp [illegible]	
			B) Ch/D/7	A) Py-Cp/FF/1-2			
				B) Py-Cp/D/.5		est 143.8 - 156.4 = 12.6 m @ [illegible] 1% Cu, [illegible] Cp on [illegible] cal [illegible]	

HOLE NO CX-92-36

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
156.4	157.2	Syenomonz. Porphyry:				UCT / 50° / 1-2 ; sharp [illegible] [illegible],	
		- similar to 140.0-143.6m,	A) Ep-Cl/D/4	A) Py/FF/.5		[illegible] [illegible] [illegible]	
		has some Cu min.					
			B) K/P/8	B) Py-tr Cp/D/.5		LCT / ? / 1 ; [illegible] [illegible] 6 · alt	
			localized at			which extends to 157.7m	
			contacts				
157.2	206.8	Monzonite Porphyry:					
(157.2	170.0)	- dk green, pst monz-to	A) K+Ep/FF/4	A) Py+Cp/FF/	1-2	?	
		- [illegible] and alt				Est 157.2 - 170.0 = 12.8 m [illegible] .05-.1% Cu, but	
		widths to 10% over	B) Ep/FF/3-4	B) Py-tr Cp/D/	.5	[illegible] [illegible] [illegible] [illegible]	
		20 cm locally					
		- from ~168m is [illegible]	C) Cl/D/G				
		and angle is [illegible] [illegible]					
		green colour (Plag is ore					
		crowded with ~50% phenos)					
(170.0	182.0)		A) Ep/D+FF/3	A) Py±Cp/FF/1	? est (<0.5%)	183-183.8 low angle carb healed [illegible] bx	
			B) Cl/D+FF/3	B) Py/D/tr		181-182 two 10° py-cp-Ca [illegible] ~ 2 mm [illegible]	
			C) K/FF/1-3				
(182.0	190.0)	Low angle carb-healed fr/	A) Ca/FF/	A) Py-Cp/FF/	2	[illegible] of sulphides [illegible] within K envelopes, but	
		bx zones. [illegible] crossed	B) K-Ep/FF/6			Cu on [illegible] [illegible] [illegible]	
		as [illegible] and [illegible] [illegible]	C) Cb/D+FF/5		Est	8m @ .15-.2% Cu but largely at	
		[illegible] on Cp [illegible] (@ 188.8m)				low angle to CA.	

DRILL HOLE NO CX-92-36

HOLE NO CH 90-36

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(190.0	196.5)	Med to lt green, crowded porphyry ; local veg List on fr - (chloritized mafic) (p) - alt and min on low angle fr	A) K+Ep/FE/3 B) Ep-Cl/FE/3 C) Bi/D/1 (local sec ?) (mm eg 192.4)	A) Py-Cp/FE/1 B) Py-Cp/D/.5		Est 6.5m @ .05-.1% Cu	
(196.5	206.8)	Slight increase in K-env plus silicified (?) env (possibly related to proximity to Syenomonz dyke	A) K+Ep/FE/5-6 (low + mod angle) B) Al-Ep/FE/3 (@ 200.0) C) Ch-Ep/D/3 D) Gt(?)-Ca-K/FE/1 (eg 200.7, good (p))	A) Py-Cp-Ep/D+FE/1 B) Py-tr Cp-K/FE/1 C) Py-Cp-Gt-Ca/FE/1		Est 10.3m @ .1-.15% Cu	
206.8	210.8	Syenomonz Porphyry - similar to seen earlier - some 2cm size mafic xenoliths - med pink-grey, m-st magnetic - uccg Syenomonz zone extends to 211m (w/ dyke-like contacts with eg 215.7m inclusions of wallrock)	A) Cp-Ch/D/3 (zoned Cp-Ch club) B) K/P/7 at contacts	A) Py-Cp/D+FE/1 (Est .05% Cu)		UCT/?/1-2 ; exact contact obscured by perv K-flooding ; first appearance of large K(f) phenos is 15cm below sharp-edged, irreg K front LCT/15°/1 ; similar to UCT but K front is gradational into 5-10 cm biotitic zone	

DRILL HOLE NO CH 90-36

HOLE NO. CH 90-36

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
210.8	243.5	Monzonite Porphyry					
(210.8	222.6)	- crowded porph., med grey - green, 2-3% diss cl ± numerous dykes (or K veins) from 3mm - 3cm, locally sheared (eg. 213.3), locally with good diss Cp	A) K-Sp/FF/2-3 B) Ep-Cl/FF/2-3 C) Bi/D/1	A) Py-Cp/FF+D/	1-2	Est 11.8 m @ .1% Cu	
(222.6	233.0)	Zone of low angle fr with weak shearing, intermediate fr to 222.6. Local xol'c xenoliths to 5 cm (1%)	A) K-Sp/FF/4 (low angle) B) Ca/FF/3-5 C) Ep-Cl/D/3	A) Py-Cp/D+FF/1 (Py = Cp)	-2	Est .2% Cu Control on low angle fr 227.9 local stock of syenomonz dyke?/K vein with good diss Cp-Py	
(233.0	243.5) EOH	Ground core 240.5 - 241.4 due to mislatch Med to dk grey-gr - 241.5 - 242.0 25% Fg biotized + chloritized xol'c xenoliths with good diss Cp	A) K-Sp/FE/2 B) Ep-Cl/FF+D/3-4 C) Ca/FF/2 D) Bi/D/2 (biotized xol xenoliths)	A) Py-Cp/FF/ B) Cp-Py/D/	-2 tr-1	Est .1-.2% Cu Local 10-20 cm wide zones of dk pink K-altered (dykes?) eg 237, 239 m 241.6 is 20 cm wide K-Sp-Qz-Ca-Cl-Cp-Py envelope 243.0 is 1 cm wide mass. Cl vein @ 45° offset by 0° Cl-Ca-Qz-Py-Cp vt	

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DRILL HOLE NO CH 90-36

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
77100	51.5	54	2.5	1.1	96	.1								
01	54	56	2	.1	95	.1								
02	56	58	2	0	100	0								
03	58	60	2	0	100	0								
04	60	62	2	.1	100	0								
05	62	64	2	1.3	100	0								
06	64	66	2	4.3	100	0								
07	66	68	2	2.0	100	0								
08	68	70	2	.6	100	0								
09	70	72	2	5.9	95	.1								
10	72	74	2	2.1	95	.1								
11	74	76	2	2.4	100	0								
12	76	78	2	4.0	95	.1								
13	78	80	2	9.4	100	0								
14	80	82	2	6.0	100	0								
15	82	84	2	6.3	100	0								
16	84	86	2	12.0	100	0								
17	86	88	2	9.0	100	0								
18	88	90	2	6.7	100	0								
19	90	92	2	4.6	100	0								
20	92	94	2	2.1	100	0								
21	94	96	2	1.2	100	0								
22	96	98	2	.9	100	0								
23	98	100	2	1.1	100	0								
24	100	102	2	.1	95	.1								
25	102	104	2	2.3	90	.2								

DRILL HOLE NO. CH90-36

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
77126	104	106	2	7.6	95	.1								
27	106	108	2	5.6	80	.4								
28	108	110	2	5.9	90	.2								
29	110	112	2	5.3	80	.4								
30	112	114	2	7.0	100	0								
31	114	116	2	8.6	95	.1								
32	116	118	2	12.3	85	.3								
33	118	120	2	3.9	100	0								
34	120	122	2	.5	80	.4								
35	122	124	2	10.8	80	.4								
36	124	126	2	5.9	85	.3								
37	126	128	2	4.7	95	.1								
38	128	130	2	.5	85	.3								
39	130	132	2	4.5	100	0								
40	132	134	2	5.2	85	.3								
41	134	136	2	2.9	90	.2								
42	136	138	2	3.4	90	.2								
43	138	140	2	8.3	90	.2								
44	140	142	2	4.2	80	.4								
45	142	144	2	2.7	100	.0								
46	144	146	2	1.2	80	.4								
47	146	148	2	5.3	95	.1								
48	148	150	2	10.0	100	0								
49	150	152	2	8.5	80	.4								
50	152	154	2	11.3	85	.3								
51	154	156	2	3.8	100	.0								

DRILL HOLE NO. CH 90-36

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	M.S.	CORE RECOVERY %	AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
77152	156	158	2.0	6.1	95	0.3								
153	158	160	2.0	9.4	95	0.1								
154	160	162	2.0	10.3	100	0								
155	162	164	2.0	5.5	95	0.3								
156	164	166	2.0	6.6	95	0.1								
157	166	168	2.0	9.7	95	0.1								
158	168	170	2.0	7.6	96	0.4								
159	170	172	2.0	6.1	95	0.1								
160	172	174	2.0	7.9	96	0.2								
161	174	176	2.0	5.5	90	0.2								
162	176	178	2.0	7.2	95	0.1								
163	178	180	2.0	6.4	85	0.3								
164	180	182	2.0	3.6	95	0.1								
165	182	184	2.0	8.3	95	0.1								
166	184	186	2.0	8.5	95	0.1								
167	186	188	2.0	7.6	100	0								
168	188	190	2.0	1.6	95	0.1								
169	190	192	2.0	3.2	100	0								
170	192	194	2.0	6.6	100	0								
171	194	196	2.0	9.2	100	0								
172	196	198	2.0	3.9	100	0								
173	198	200	2.0	1.4	100	0								
174	200	202	2.0	3.2	95	0.1								
175	202	204	2.0	2.2	95	0.1								
176	204	206	2.0	1.5	100	0								
177	206	208	2.0	[illegible]	100	0								

DRILL HOLE NO [illegible]

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
11178	208	210	2.0	19	95	0.1								
179	210	212	2.0	28	100	0								
180	212	214	2.0	67	100	0								
181	214	216	2.0	53	100	0								
182	216	218	2.0	31	95	0.1								
183	218	220	2.0	85	100	0								
184	220	222	2.0	78	95	0.1								
185	222	224	2.0	48	100	0								
186	224	226	2.0	70	100	0								
187	226	228	2.0	90	75	0.5								
188	228	230	2.0	41	95	0.1								
189	230	232	2.0	85	100	0								
190	232	234	2.0	67	100	0								
191	234	236	2.0	51	95	0.1								
192	236	238	2.0	32	100	0								
193	238	240	2.0	53	100	0								
194	240	242	2.0	43	100	0								
195	242	245.5	1.5	63	93	0.1								

DRILL HOLE NO [illegible]

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-37

UTM N: 6125240m	Elev.: 1341m
UTM E: 402395m	Depth: 262.1m
GRID N: 116+00	Azimuth: 220°
GRID E: 104+15	Dip: -45°

Metres (m)

0.0 - 54.3 OVERBURDEN

54.3 - 60.6 FINE-GRAINED MONZONITE PORPHYRY
mod. to strong k-spar, epidote-chlorite-actinolite, 2-3% PY, CP (est. 0.1% Cu).

60.6 - 63.8 CRACKLED SILTSTONE
mod. to strong k-spar, chlorite-epidote-actinolite, trace biotite, 2-3% PY-CP (0.1% Cu).

63.8 - 65.7 FINE-GRAINED MONZONITE PORPHYRY
strong k-spar, epidote-chlorite-actinolite, trace biotite, 2-3% PY, CP (0.2% Cu).

65.7 - 76.3 CRACKLED SILTSTONE
mod. to strong k-spar, epidote-chlorite-actinolite, trace biotite, 3% PY, CP (0.2% Cu).

76.3 - 76.8 FELDSPAR-BIOTITE PORPHYRY DYKE
post-mineralization(?). weak chlorite, trace PY.

76.8 - 84.1 CRACKLED SILTSTONE
mod. to strong k-spar, epidote-chlorite-actinolite, weak biotite, 2-3% PY, CP (0.1% Cu).

84.1 - 86.8 FELDSPAR-BIOTITE PORPHYRY DYKE
weak chlorite, trace PY + CP (<0.05% Cu).

86.8 - 128.4 CRACKLED SILTSTONE
mod. k-spar, mod. to strong chlorite-epidote-actinolite, weak biotite, 3% PY, CP (0.05-0.3% Cu).

128.4 - 137.4 BIOTITIC FINE-GRAINED MONZONITE
weak k-spar, mod. epidote and chlorite, 3% PY, CP (0.2% Cu).

137.4 - 168.4 CRACKLED SILTSTONE
mod. to strong k-spar, epidote-chlorite, local sericite and clay, 2-4% PY, CP (0.3% Cu).

CH 90-37 cont.

168.4 - 179.4 FINE-GRAINED MONZONITE
mod. k-spar, epidote-chlorite-actinolite, weak biotite,
1-2% PY, CP (0.1% Cu).

179.4 - 182.5 CRACKLED SILTSTONE +/- TUFF
mod. k-spar, epidote-chlorite-actinolite, 1-2% PY,
CP (0.1% Cu).

182.5 - 183.6 FINE-GRAINED MONZONITE
mod. to strong k-spar, mod. epidote, chlorite and actinolite,
1% PY, trace CP (0.05% Cu).

183.6 - 200.0 ALTERED TUFF (?)
minor crackled siltstone, weak to mod. k-spar, epidote-
chlorite-actinolite and biotite, 1-3% PY-CP (0.1-0.3% Cu).

200.0 - 201.7 SYENOMONZONITE PORPHYRY
strong k-spar, mod. epidote-chlorite-actinolite, 0.5% PY,
trace CP.

201.7 - 250.0 ALTERED TUFF (?)
some crackled siltstone, mod. k-spar, epidote-chlorite-
actinolite, biotite, 2-3% PY, CP (0.2% Cu).

250.0 - 262.1 FINE-GRAINED BIOTITE MONZONITE
mod. epidote-chlorite-actinolite, weak k-spar, weak to mod.
calcite, 2-3% PY, CP (0.35% Cu).

262.1 E.O.H.

** est. 0.1-0.3% Cu from 54.3-262.1m.

HOLE NO. CH 90-37

DRILLING CO	CLYNPC DRILLING
LOCATION SKETCH	N
HOLE TYPE	DDH

DEPTH	TESTS DIP ANGLE	AZIMUTH
COLLAR	-47°	278°
262.1 m	-46°	

DATE STARTED:	Sept 22, 1990
DATE COMPLETED:	Sept 29, 1990
COLLAR ELEV.:	1341 m
NORTHING:	6123240
EASTING:	402395
AZIMUTH:	278°
DEPTH:	262.1 m (860')
CORE SIZE:	NQ

PROJECT:	CHUCHI
NTS:	93N/7E
LOCATION:	116N / 104+15E
DATE LOGGED:	Sept 26-29, 1990.
LOGGED BY:	R.L.J.

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (fractures, faults, folding, bedding, etc.) / REMARKS (Mineralization, type, age relations)
0	54.3	CASING				
54.3	60.6	Crowded Feldspar Porphyry: (monzonite, locally hybridized)	A) K/P/5-10 (flooded)	A) Py-Cp/D/1-2	Est. .1%	Cu over 6.3m, tr Mo on fr, lost Cp as vlg dis within Ep-Ch clot
		- nonmagnetic, med pink-grey				
		- local black biotitic fg silt inclusions to 3 cm	B) Ep-Ch-Act/D/7 (patchy Ch-Ep after previous alt)	B) Py-Cp/FF/1-2		
		- rect plag pheno .5-1.5mm ~ 50+%, chloritized biot ~ 10%, gm ~ 35%				LCT gradational over 10cm, distinguished by absence of plag phenos
		- sc alt obscures primary text				
60.6	63.8	Crackled Siltstone:				
		- non-magnetic, med pink to dk grey-green, no bedding	A) K/P+FE/6-8	A) Py-tr Cp/FF/1-2	Est. .1%	Cu over 3.2 m, tr Mo on fr
		- K-flooded with Ep-Ch-Act crackle fr-fill	B) Ep-Ch-Act/D+FF/6			
			C) Bi/FF+D/2 (sec', mg-cg)	B) Py-tr Cp/D/1-2		LCT obscured by 10cm of broken core

PAGE 1 OF 9

DRILL HOLE NO. CH 90-37

HOLE NO. CH 90-37

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
63.8	65.7	Crowded Feldspar Porphyry:					
		(Same as above)	A) K/P/8	A) Py-tr Cp/FF/tr 2			
			B) Ep-Ch-Ac/D+FF/7		Est.	2% Cu over 1.9 m, tr Mo in fr	
			C) Bi/FF/3	B) Py-Cp/D/tr 2			
						LCT relatively sharp but very irregular	
65.7	76.3	Crackled Siltstone:					
		- red pink to dk green	A) K/P/6	A) Py-Cp/FF/1			
		- crackled with Feld hydroth bx (eg C): B - 70.0)	B) Ep-Ch-Act/D+FF/7 (Est 72.8-73.7)	B) Py-Cp/D/2	Est.	.2% Cu over 9.6 m	
		- possible local zones of crowded Feld. porph	C) Bi/D+FF/3			Broken core 75.9-76.3 adj to dyke contact	
						" " 80.0-80.3	
						LCT obscured by broken core, probably sharp	
76.3	76.8	Dyke - Feldspar - Bi Porphyry					
		- mod-st magnetic, red grey-green	A) Ch/D/2	A) Py/FF/tr			
		- post-mineral ?					
		- rect. to tabular plag ~ 35%, 1-3 mm					
		- hbm biot ~5%				LCT/30°/3; sharp planar	
		- grey-green gm ~60%					

DRILL HOLE NO. CH 90-37

HOLE NO CH 90-37

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Form	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
76.8	84.1	Crackled Siltstone:					
		- non-rotated clasts	A) K/P/6-10	A) Py-Cp	/D/2		
		have K-alt rims	(intense 76.8-78.8)	(locally diss in and around clasts)			Est. 1% Cu over 7.3 m
		with Ep-Ch matrix					
		- hydroth. (?) starts ~83m	B) Ep-Ch-Act/FF+D/6	B) Py-Cp	/FF/1		
			C) Bi/D/4			80.0 - 10cm wide kct bx @ 20°	
			(locally cg anhd.)			83.4 1cm wide Mt vein with local Py-Cp with ch env. @ 0°	
						LCT/80°/2-3 ; gradational over 1cm (some chilling)	
84.1	86.8	Feldspar-Biot Porphyry Dyke:					
		(similar to 76.3-76.8 but more alt/ann.)	A) K/P/2	A) Py/FF/.5			
					Est	<.05% Cu over 2.7 m	
		- mod-st magnetic (2-3% diss. Mt), med to dk grey	B) Ser/FE/2-3	B) Cp-Py/D/tr			
		- minor inclusions of dk bi and alt siltst	C) Ca/FF/2			LCT/45°/3 ; sharp	
86.8	128.4	Crackled Siltstone:					
(86.8	88.3)	- abundant epid-act patches	A) K/P/4-7	A) Py-tr Cp	/FF/2		
		- dk green-grey, no bedding					
		- more magnetic due to Mt on Fr	B) Ep-Ch-Act/D+FF/8	B) Py-tr Cp	/D/1	Est .05% Cu over 1.5 m	
			C) Bi/D/3	C) Mt/FF	/1		

DRILL HOLE NO. CH 90-37

HOLE NO. CH 90-37

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(88.3	111.0)	Dk to med pink, locally				126.0 BD/50°/2	
		black (non-hornfelsed)	A) K±Al/P/6-7	A) Py±tr Cp/D+FF/2-3		96-99m broken core ± Carb	
		cracked with matrix of	B) Chl-Cp±Mt/FF/4			95.6 BD/70°/2	
		Ch-Cp-K-sulphide ± Mt	C) Cb/FF/1	B) Mt/D+V/1		102.8-103.2 carb healed sh/30-40°/2	
		108-109 intense K-flood,	D) Bi/FF/3			111-128 est .30% Cu	
		may in part be intrus (?)				109.3 good diss Cp in Ch-Mt-rich zone	
						111.5 1cm wide Mt vein @ 0°	
(111.0	128.4)	Dk to med. grey-green, local	A) K/FF/5-7	A) Py-Cp/DB/2		111-128.4 vfg diss Py-Cp 2-5%, wk fabric	
		bedding, good vfg Py-Cp	B) Cp-Ch/FF/4	Cp to 1% Cu over	50cm)	at 45° CA	
		diss along beds, minor	C) Ch-Se±Al/P/6	B) Py-Cp/FF/2		124.3-134.0 Mt-rich zone, local veins	
		bi hfls				plus fine stwork	
				C) Mt/V/1-2			
						LCT irreg over 2-3cm, obscured by K alt	
						and biot-sulphide at contact	
128.4	137.4	Biotitic Fg Monz Porphyry:					
		- blk to pale grey-green	A) Ch-Se±Al/P/2	A) Py-Cp/D/2	}		
		- 35% fg primary biot	(patchy)		{ Gt.	.20% Cu over 9m	
		- 1-2mm plag phenos ~50%	B) K/FE/2	B) Py-Cp/FF/1	}		
		- wk-mod mag				LCT broken core, K-flooding in adj SLST	
			C) Cp-Ch/FF+D/			for 1m	
			5				
137.4	168.4	Altered Siltstone:					
		crackled and brecciated					
(137.4	149.0)	- med pink to lt grey-green	A) K/P/9	A) Py-Cp/DB/2	(Cp≥Py)	} Gt .5% Cu over 11.6m	
		- no beds intact; local zones	B) Ch-Cp/FE/6	B) Py-Cp/FF/1-2	(Cp≥Py) }		
		of K monz	C) Cb/FF/3				

DRILL HOLE NO. CH 90-37

HOLE NO. CH 90-37

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fr/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
			D) Se-Cp Al/P/5 E) Cy-Sc/Sh/2			Broken core 137.5-138.5, Sl shear/gouge 157-157.2 @ 50° CA with wk K mod. bleaching adj from 138.5 - 168.5	
(149.0	157.0)	Med green-br to lt pink-grey, clasts locally rotated, no beds intact. Probable significant post-min fault at ~157 m; decrease in min² but same lithol across fault.	A) Cy-Se/SH+P/5 B) Ch-Ep/EE/7 C) K/P/6 D) Q+Ca/V/5 (gen 45-55° CA)	A) Cp-Py/D/1 B) Cp-Py/FE/1	Est	.3% Cu from 149-157 152.6-153.1 good diss Cp in biotitic zone	
(157.0	165.4)			A) Py ≥ Cp/FE/1 B) Py ≈ Cp/D/.5	Est	.05% Cu	
(165.4	168.4)	Wk bleaching + carb @ 30°, K alt. less overprinted by shear/bleaching; irreg minz porph from 166.3-166.6 m	A) K/P/8-9 B) Ch-Ep+Ac/FF + D/6 C) Ca/EE/2-4	A) Py > Cp/FE/1 B) Py > Cp/D/1	Est	.05-.10% Cu Broken core 167.3-167.9 @ 45° LCT marked by first occurrence of plag phenos, exact contact obscured by BH	
168.4	179.4	MONZONITE PORPHYRY: - fg, dk green to pink-grey to black/white, mod to st magnetic (local fine Mt stwk), cg primary(?) Bi ~2% - 1 mm tabular plag ~40%, 1-2% Mt, 5% chl aug(?)	A) K/FE/3-7 B) Ep-Ch+Act/D + FE/5-6 C) Ca+He/FE/1 D) Bi/D/1-2	A) Py+Cp/FE/.5 B) Py-Cp/D/1 C) Mt/D+V/1-7	Est	.1% Cu, but Cp as vfg diss in Slst inclusions LCT indistinct over 10 cm	

DRILL HOLE NO. CH 90-37

HOLE NO. CH 90-37

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
179.4	250.0	Mainly Interbedded TUFF/SILTSTONE cut by rare dykes/sills:					
(179.4	183.6)	- non to wk magnetic, med					
		pink to med grey-green	A) K/FE/7	A) Py-Cp/D/1	} Est .1% Cu	180.3 local contact SLST/TUFF is sharp,	
		- variable from crackled pink to	(pdom @ 40°)			conformable at 40°	
		green SLST to mod to dk green	B) Ep-Ch-Act/D+FF/5	B) Py-Cp/FF/.5		Best Cp in biotitized tuff	
		feld-bi tuff					
		- sills(?) of monz porph	C) Ch/D/6				
		181.1-181.3, 182.5-183.6;	D) Bi/P/6				
		display strongest K flooding					
(183.6	193.5)	- mainly tuff with minor	A) K/FE/6	A) Py-Cp/D/.5		180.0 BD/45°/2, beds gen not preserved	
		slst interbeds; local hfls					
		remnants cut by Sc-Ep-Al ff	B) Ch-Ep±Al/P/6	B) Py-Cp/FF/.5	} Est.	.5-1.0% Cu	
		- med grey green to dk grn-black				186.8-188.0 and 188.6-189.7 wk shears @ 40°ca	
		- wk-mod mag	C) Ep-Ch±Act/D/4	C) Mt/FE/1		190.1-190.5 K-flooded then brecciated with	
		- local lapilli-sized clasts in				Ep-Ch-Ca-Py matrix	
		tuff (primary?)	D) Bi/P/5				
		- bx zone 192-193 with Py					
		black and pink clasts in					
		Ch-Ep matrix, could be					
		primary bx					
(193.5	200.0)	Altered, fg, dk green to med	A) K/FE/3	A) Py-Cp/FF/1-2	} Est	.3% Cu	
		grey green, massive tuff(?)	B) Ep-Ch±Act/D+FF/3-4	B) Py-Cp/D/1-2		198.4 black slst clasts(?)	
		- possibly altered monz porph				193.5 Mt on low ∠ veins	
		- med mag - 1% Py diss Mt	C) Ca/FF/2			LCT/40°/2-3, sharp but broken, wk sheared,	
			D) Bi/P/6			K alt for 30cm in tuff	

DRILL HOLE NO CH 90-37

HOLE NO CH90-37

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(200.0	201.7)	Syenomonz Porphyry:					
		- white Kspar phenos 2-5mm	A) K/P/9	A Py-Cp/D/.5	Est ≤.0% Cu		
		~15%					
		- wk-mod shear @ 40°	B) Cp-Ch-Act/D/				
		throughout	4-5				
		- lt to med pink, non-mag	C) Cy/Sh/6.				
		- text obscured by K flooding				KCT obscured by K-alt	
(201.7	211.6)	Tuff/Siltstone:					
		- dk green-black to med	A) K/P/6	A) Py-Cp/D/1		208.4-212.3 mod-st low L carb FF, stack of	
		grey-green, locally mottled				Cp-Py min in carb-filled fct bx (2% Cp, 3% Py,	
		due to alt and local fct	B) Cp-Ch-Act/D/5	B) Py-Cp/FF/1	Est .20% Cu	0-5° CA over 10 cm)	
		brecciation					
		- beds not intact, minor	C) Cy/FF/1-5	C) Cp-Py/Bx/1			
		bi HFL preserved					
		- 204.0 possible primary volc bx	D) Se-Cp-Al/P/5				
			E) Bi/D/5				
(211.6	222.0)	Predom crackled Siltstone,				220.6-228.2 broken core predom 45° CA	
		- no beds intact	A) K/P/4	A) Py-Cp/D/1			
					Est .05% Cu		
			B) Cp-Ch-Act/D/3	B) Py-Cp/FF/1		- minor carb bx @ 30°	
			C) Se-Cp-Al/P/5				

DRILL HOLE NO. CH90-37

HOLE NO CH90-37

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Fm	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
(222.0	232.6)	Broken core 220.6-228.2 @45° with wk clay/bleach - pale grey-green to black tuff and/or siltstone	A) K/P/1-8 loc B) Se-Cp-Al/P/6-7 C) Cp-Ch/D+FF/3 D) Bi/P/5	A) Cp-Py/D/2 (Cp ≥ Py) B) Cp-Py/FF/1	Est	228.6 bed-controlled (?) Se-Cp-Al all @45° .50% Cu, best in st. biotite zones	
(232.6	243.4)	Med to dk grey-br massive to mottled dk grey-lt green tuff and/or siltst - no beds intact, local crackled S/st	A) K/FE/3 B) Cp-Ch-Act/D+FF/3 C) Ca/FF+D/2-5 D) Bi/D+FE/2 E) Ch/P/4-8	A) Cp=Py/D/1 (Cp = Py) B) Cp-Py/FF/1	Est	237.4-243.7 broken predom @ 65-75° CA, wk local sh ± carb, up to 10 fr/10cm .25% Cu 240.7 good Cp on 25° fr with diss Cp + 3% fg Alt in wallrk - best Cp as vfg diss in biotitic zones (fg tuff or mod'z ?)	
(243.4	250.0)	Predom Crackled S/st : - no beds intact, pink-br to dk br., non-mag but increases at 250.0 - Ch-Cp matrix to crackle bx	A) K/P/2-7 B) Ch-Cp/FE/7 C) Cp-Ch/D/1-2 D) Ca/FE/1-2 E) Bi/D+FF/2	A) Py=Cp/D/.5 B) Py-Cp/FF/.5	Est	249.0-251.7 mod-st broken @ 60-70° CA .05-.10% Cu	

DRILL HOLE NO CH90-37

HOLE NO. CH 90-37

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
250.0	262.1	Fg biotitic monz (possibly tuff):				Broken to 252.0	
	EOH	- mod-st mag, med to dk	A) Ep-Ch-Act/N	A) Cp ≥ Py/D/1-2			
		grey-br	4		Est	.35 % Cu	
		- crackled Slst xenolith	B) K/FE/2	B) Py-Cp/FF/1			
		257.2-257.6 and 261.9-262.1				260.3-260.9 wk-mod sh @ 40° CA with	
		- 1+% fg diss Mt	C) Ca/FF/1-4			St Carb FF	
		- fg biot ~ 20%					

DRILL HOLE NO. CH 90-37

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE M.S.	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
77196	54.3	56.0	1.7	0.0	70	0.5								
197	56.0	58.0	2.0	0.0	90	0.2								
198	58.0	60.0	2.0	0.1	95	0.3								
199	60.0	62.0	2.0	0.1	100	0.0								
200	62.0	64.0	2.0	0.1	90	0.2								
201	64.0	66.0	2.0	0.0	90	0.4								
202	66.0	68.0	2.0	0.1	95	0.3								
203	68.0	70.0	2.0	0.1	95	0.1								
204	70.0	72.0	2.0	0.1	90	0.4								
205	72.0	74.0	2.0	0.2	95	0.1								
206	74.0	76.0	2.0	0.1	80	0.4								
207	76.0	78.0	2.0	1.3	90	0.2								
208	78.0	80.0	2.0	0.7	85	0.3								
209	80.0	82.0	2.0	0.2	85	0.3								
210	82.0	84.0	2.0	3.3	95	0.1								
211	84.0	86.0	2.0	4.0	100	0.0								
212	86.0	88.0	2.0	1.7	90	0.2								
213	88.0	90.0	2.0	1.1	100	0.0								
214	90.0	92.0	2.0	0.2	100	0.0								
215	92.0	94.0	2.0	1.5	95	0.1								
216	94.0	96.0	2.0	0.1	90	0.2								
217	96.0	98.0	2.0	0.4	75	0.1								
218	98.0	100.0	2.0	2.2	95	0.1								
219	100.0	102.0	2.0	1.5	95	0.1								
220	102.0	104.0	2.0	1.5	100	0.0								
221	104.0	106.0	2.0	3.8	95	0.1								

DRILL HOLE NO. CH-90-37

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
77222	106	108	2	1.7	90	0.2								
23	108	110	2	0.1	95	0.1								
24	110	112	2	0	90	0.2								
25	112	114	2	0	100	0.0								
26	114	116	2	0.1	90	0.2								
27	116	118	2	0	100	0.0								
28	118	120	2	0.3	100	0.0								
29	120	122	2	0.2	100	0.0								
30	122	124	2	0.3	100	0.0								
31	124	126	2	0.7	100	0.0								
32	126	128	2	1.8	85	0.3								
33	128	130	2	4.0	100	0.0								
34	130	132	2	10.0	100	0.0								
35	132	134	2	3.9	95	0.1								
36	134	136	2	0.3	90	0.2								
37	136	138	2	0.3	95	0.1								
38	138	140	2	0.0	80	0.4								
39	140	142	2	0.0	90	0.2								
40	142	144	2	0.0	95	0.1								
41	144	146	2	0.2	95	0.1								
42	146	148	2	0.0	100	0.0								
43	148	150	2	1.0	100	0.0								
44	150	152	2	0.9	90	0.2								
45	152	154	2	0.9	95	0.1								
46	154	156	2	1.0	100	0.0								
47	156	158	2	0.9	95	0.1								

DRILL HOLE NO. CH 90-37

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
77248	158	160	2	0.9	95	0.1								
49	160	162	2	0.9	100	0.0								
50	162	164	2	1.4	95	0.1								
51	164	166	2	0.8	95	0.1								
52	166	168	2	1.4	100	0.0								
53	168	170	2	1.5	95	0.1								
54	170	172	2	2.8	100	0.0								
55	172	174	2	1.2	100	0.0								
56	174	176	2	3.0	100	0.0								
57	176	178	2	1.3	100	0.0								
58	178	180	2	1.8	95	0.1								
59	180	182	2	1.6	100	0.0								
60	182	184	2	0.8	95	0.1								
61	184	186	2	0.9	95	0.1								
62	186	188	2	1.1	100	0.0								
63	188	190	2	4.1	95	0.1								
64	190	192	2	0.9	100	0.0								
65	192	194	2	11.6	100	0.0								
66	194	196	2	6.4	100	0.0								
67	196	198	2	2.6	100	0.0								
68	198	200	2	1.5	80	0.4								
69	200	202	2	0.1	90	0.2								
70	202	204	2	0.9	95	0.1								
71	204	206	2	0.8	95	0.1								
72	206	208	2	2.0	80	0.4								
73	208	210	2	0.9	80	0.4								

DRILL HOLE NO. CH90-37

DRILL LOG sample data

SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE TOTAL METRES	SAMPLE MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
71274	210	212	2m	0.1	75	0.5								
275	212	214	2	0.2	75	0.5								
276	214	216	2	0.0	80	0.4								
277	216	218	2	0.5	85	0.3								
278	218	220	2	0.3	60	0.8								
279	220	222	2	0.5	70	0.6								
280	222	224	2	0.7	50	1.0								
281	224	226	2	0.2	70	0.6								
282	226	228	2	0.3	85	0.3								
283	228	230	2	1.1	100	0.0								
284	230	232	2	0.5	75	0.5								
285	232	234	2	2.8	90	0.2								
286	234	236	2	0.2	95	0.1								
287	236	238	2	0.4	75	0.5								
288	238	240	2	0.0	85	0.3								
289	240	242	2	0.4	90	0.2								
290	242	244	2	0.0	75	0.5								
291	244	246	2	0.0	95	0.1								
292	246	248	2	0.1	75	0.5								
293	248	250	2	0.6	75	0.5								
294	250	252	2	2.3	90	0.2								
295	252	254	2	2.1	75	0.5								
296	254	256	2	0.1	85	0.3								
297	256	258	2	3.4	80	0.4								
298	258	260	2	3.7	95	0.1								
299	260	262.1	2.1	5.1	95	0.1		EOH - 262.1						

DRILL HOLE NO. CH-90-37

DRILL SUMMARY

CHUCHI LAKE PROPERTY

CH 90-38

UTM N: 6125345m
UTM E: 402192m
GRID N: 117+17
GRID E: 102+37

Elev.: 1354m
Depth: 160.9m
Azimuth: 272°
Dip: -71.5°

Metres (m)

0.0 - 37.2	CASING	
37.2 - 44.1	SILTSTONE minor sills, weak chlorite, sericite-epidote-albite, 1% PY.	
44.1 - 46.4	LATITE PORPHYRY DYKE trace sericite, trace PY.	
46.4 - 52.8	MONZODIORITE SILL weak epidote and chlorite, 2-3% PY.	
52.8 - 73.2	SILTSTONE weak to strong clay, weak chlorite, sericite-epidote-albite, 1-3% PY.	
73.2 - 80.0	FAULTED SILTSTONE strong clay, mod. calcite, 1-2% PY.	
80.0 - 84.0	SILTSTONE weak clay, trace PY.	
84.0 - 87.3	MONZODIORITE SILL weak to mod. chlorite and epidote, weak calcite, 3-4% PY.	
87.3 - 92.4	SILTSTONE mod. clay, weak calcite and epidote, 0.5-2% PY.	
92.4 - 113.8	K-SPAR PORPHYRITIC SYENOMONZONITE weak to mod. clay, weak epidote and chlorite, 1-2% PY.	
113.8 - 121.5	MONZONITE PORPHYRY weak to mod. epidote and chlorite, weak calcite and k-spar, 0.5% PY.	
121.5 - 139.4	SILTSTONE minor sills, mod. sericite-epidote-albite, weak calcite, 2-4% PY.	
139.4 - 160.9	K-SPAR PORPHYRITIC SYENOMONZONITE weak epidote, chlorite, k-spar and calcite, 2% PY.	
160.9	E.O.H.	

HOLE NO. CH90-38

DRILLING CO	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH				
OLYMPIC DRILLING	N	COLLAR	-71½°	272°	DATE STARTED	Sept 29, 1990	PROJECT	CHUCHI
					DATE COMPLETED	Oct 3, 1990	NTS:	93N/7E
					COLLAR ELEV.:	1354 m	LOCATION:	
					NORTHING:	6125315		117+17N/102+37E
					EASTING:	403192		
					AZIMUTH:	272°		
					DEPTH:	160.9 m (528')	DATE LOGGED	Oct 1-3, 1990
HOLE TYPE DDH					CORE SIZE:	NQ	LOGGED BY:	[illegible]

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (fractures, faults, folding, bedding, etc.)	REMARKS Mineralization, type, age relations
0	37.2	CASING				Strongly oxidized [illegible]	
37.2	40.4	Siltstone:				39.0 BD/85°/3 ; 2mm to 1cm bedding	
		- well bedded locally,	A) Ch/FF/C2	A) Py/DB/1		of grey [illegible] sandy to [illegible] silty	
		1mm to grey to purple	B) Ser-Ep-Al/P/L	B) Py/FF/tr		bd's	
		bd					
		- badly broken 39.0-40.4					
						LCT/75°/- ; [illegible]	
						but broken	
40.4	42.1	Fg porphyritic monzonite:					
		(sill)	A) Ep/D/4-5	A) Py/D/2			
		- non-magnetic, red to					
		dk grey	B) Ch/D/	B) Py/FF/.			
		- equant to wct plag phenos					
		≤1mm ~45%,					
		- augite, fine, rarely 3mm					
		~10%, K gm ~40%				LCT obscured by broken core ; [illegible]	
						[illegible]	

DRILL HOLE NO. CH90-38

HOLE NO. CH 90-38

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Film	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
42.1	44.1	Siltstone :					
		- broken core throughout	A) Ch/FF/4	A) Py-Ch/FF/.5		43.2 BD/70°/3	
		- bedding rarely intact					
		- crackle br	B) Ser-Ep-Al/FF/4	B) Py/D/tr			
		- lt green-grey to purple-br				LCT broken with wk shear	
44.1	46.4	Latite Porphyry Dyke :					
		- dk green to black, mod-st	A) Ser/P/1	A) Py/D/tr		Appears to be post-mineral	
		magnetic, chilled contacts					
		- 15-20% lath-like plag phenos					
		to 4mm avg 2-3mm in					
		aphanitic gm				LCT wk-mod sheared/broken with carb FF	
46.4	52.8	Fg-Mg Hbazed Porphyry :					
		(Sill?)	A) Ep/D/3	A) Py-Ep/FF/.5			
		- med grey-green ; wk-st mag					
		- crowded with .5-2mm plag	B) Ep-Ch/FF/2-3	B) Py/D/2-3			
		phenos ~ 60%, 1-2mm					
		augite ~ 5-10%, K gm					
		~ 30%					
		- uniform text					
						LCT/70°/3 ; within 10° of bedding ; not	
52.8	84.0	Siltstone :	A) Cy/Ch/3-9	A) Py/D/1-3		chilled	
(52.8	73.2)	- lt green to purple-br (hfls)	B) Ep/D+FF/4	B) Py-Ch/FF/.5		STR 53.9-54.1, 54.9-55.3,	
		- locally good bedding preserved	C) Ch/FF/4	(best Py diss with Ep		SH 55.6-55.8 @ 15°; 56.5-57.0 @ 70°; 57.9-58.	
		- sheared intermittently from	D) Ser-Ep-Al/P/2	in greenest bedding)		52.9 BD/80°/3 @ 5-10°	
		55.6 - 73.2, then more lt				54.2 BD/75°/3	

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DRILL HOLE NO. CH 90-38

HOLE NO. CH 90-38

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
		- probable 1 cm thick sills				61.7 - 62.5 [illegible] @ 0-10°	
		of [illegible] (≈ 5%)				54.0 - 63.0 [illegible] @ 0-10°	
		- some bleaching of [illegible] beds					
		([illegible]?)				68.3 B3/35°/3 [illegible]	
		- from ~ 55 m [illegible]				[illegible]	
		[illegible]				[illegible]	
		[illegible]				[illegible] 70.0 - 73.2, clay [illegible]	
		[illegible]				[illegible] @ 10-20°	
(70.2	80.0) *	[illegible] UNIT 70.2 - 80.0,	A) Cy/Sk+P/[illegible]	A) Py/D/1-2			
		intercalated gouge, ...bx,	B) Cs/P/5	B) Py/FF/tr		70.7 Ep/55°/3	
		st bleaching [illegible],	C) Cy?/V/7			72.0 [illegible] within fault zone)	
		[illegible] @ 15° CA.	(amorphous, green,			72.5 [illegible] 5 cm wide [illegible] epidotized	
		- lt purple-br to lt green	soft (?) vein [illegible])			[illegible] 10% Py [illegible]	
(80.0	84.0)	Mod bleaching/[illegible]	B) Cy/S[illegible]+P/4	B) Py/[illegible]/tr			
		to [illegible] 84.0, [illegible]					
		[illegible]				ECT appears sharp and conformable @ 70° but affected	
						by low ∠ faulting	
84.0	87.3	Fg [illegible] Porphyry Sill(?)					
		- [illegible] grey-green, [illegible]	A) Ep/D/5	A) Py/D/2-3			
		- augite [illegible] to [illegible] mm ≈ 15%		B) Py/FF/1-2			
		- [illegible] plag. [illegible] - 2 mm	B) Ch/D/4				
		~ 65%, [illegible]					
		- similar to 46.4 - 52.8	C) Ca/FF/1-3				
						ECT broken core, [illegible], probable 20°	

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DRILL HOLE NO. CH 90-38

HOLE NO. CH 90-38

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Ft/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
87.3	92.4	Sheared Siltstone				92.3 [illegible]/65°/3	
		- lt green to dk [illegible]	A) Cy/[illegible]/4-9	A) Py /D/ .5-2			
		- strongly sheared 87.3-88.7					
		90.0-91.4, 92.1-92.3,	B) Cb/FF/7				
		predominantly @ 0-10°				LCT [illegible]	
			C) Ep/D/3				
92.4	112.8	K-Spar Porphyry [illegible]				Extensive [illegible], ground core. Cont	
		- med. gray-green [illegible]	A) Cy/SH/3-10	A) Py /D/ .5-1		strongly [illegible] alt [illegible]; [illegible] 94-	
		- K-phenos to 7mm [illegible]				106 m avg 31%. [illegible] @ 0°	
		~5-8%, dk pink to	B) Ep/D+FF/3	B) Py /FF/ .5		Fault ends at ~114 m	
		white colour, [illegible]					
		- [illegible] crowded [illegible]	C) Cb/D/3	C) Mo /FF/ tr			
		[illegible] plag phenos [illegible]					
		2mm ~70% of [illegible],					
		[illegible] biot? ~5%, [illegible]				LCT/45°/3; [illegible] faulted, [illegible]	
		matrix ~25%				in K porphyry [illegible] 112-113.5; K-phenos	
						still evident [illegible]; [illegible]	
						of contact	

DRILL HOLE NO. CH90-38

HOLE NO. [illegible]-38

INTERVAL FROM	INTERVAL TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	Frim	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
[illegible].8	121.5	Monzonite [illegible]				[illegible] to fault [illegible]	
		- med grain [illegible]	c) Ep/[illegible]/2-C				
		- [illegible]	[illegible]	T			
		[illegible])	B) ep/[illegible]/2-4	A) Py/[illegible]/tr	5%	[illegible] in [illegible]	
		- [illegible]		B) Py/FF/tr)			
		[illegible]	C) [illegible]/N/5				
		- [illegible]					
		- [illegible]	D) [illegible]/FF/1-2			LCT/[illegible]/[illegible], [illegible]	
		[illegible] CT					
			E) F/FE/1				
[illegible]	139.4	Siltstone :					
		- [illegible] and [illegible]	A) Ser-ep-[illegible]/FE+P/5-7	A) Py/N/2%, to 10% in [illegible]	locally [illegible]	[illegible]/70/3; .5-2cm [illegible]	
		[illegible]				; [illegible]	
		[illegible]	B) ep/N/3-4 ([illegible]	B) Py/FF/tr the [illegible]/[illegible])			
		- [illegible]				122.0-122.7 [illegible] ([illegible])	
		[illegible]	C) C/FF/2-3				
		- [illegible] 130.0 [illegible]				120.5-132.0 [illegible] 10° [illegible]	
		[illegible] to CA, contains				[illegible]	
		1% [illegible] FF					
		- 134.3-137.5 [illegible] of				136.8 BD/70°/3	
		[illegible] magnetic monz porph and				133.2-134.0 [illegible]	
		[illegible] magnetic [illegible]					
		contact at 135.7 [illegible] porph/monz					
		porph sharp at 70°; monz					
		porph contains [illegible] of silt,					
		[illegible] silt				LCT sharp but [illegible]	

PAGE 5 OF 6

DRILL HOLE NO. [illegible]-38

HOLE NO. CH90-38

INTERVAL FROM	TO	ROCK TYPE (composition, colour, texture, grain size)	ALTERATION	MINERALIZATION	F/m	STRUCTURE (Fractures, faults, folding, bedding, etc.)	Mineralization, type, age, relations
139.4	160.9 EOH	K Porphyry Quartz monz. :					
		- [illegible]					
		- porphyritic K phase [illegible]	A) Ep-Cl/D/3-4	A) Py/FF/.5			
		[illegible] ~				0-10° [illegible] pervasive [illegible] 145.4 - 154.0,	
		2-15%, [illegible]	B) K/FF/2	B) Py/D/2		and shearing/gouge [illegible]	
		[illegible]	[illegible] of contacts				
		- [illegible]	C) C/FF/1-4				
		[illegible] with Py-Cl					
		[illegible] (eg. 142.5m)					
		- [illegible]					
		- from ~ 145 - 150.4 [illegible]					
		[illegible] texture					

PAGE 6 OF 6

DRILL HOLE NO. CH90-38

CH-90-38

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	M.S.	%	AMT LOST								
77300	37.2	40	28	0.0	68	0.9								
301	40	42	20	0	60	0 8								
302	42	44	20	0	70	0.6								
303	44	46	20	25	70	0 6								
304	46	48	20	1 6	85	0 3								
305	48	50	20	2.1	90	0.2								
306	50	52	20	0 3	80	0.4								
307	52	54	2.0	0.1	85	0.3								
308	54	56	20	0.1	80	0.4								
309	56	58	20	0.1	75	0.5								
310	58	60	20	0.1	70	0 6								
311	60	62	20	0 1	80	0.4								
312	62	64	20	0.1	70	0.6								
313	64	66	2.0	0.2	60	0.8								
314	66	68	20	0.1	65	0.7								
315	68	70	20	0.1	75	0 5								
316	70	72	20	0 2	95	0.1								
317	72	74	20	0.3	75	0.5								
318	74	76	20	0.3	85	0 3								
319	76	78	20	0.3	95	0.1								
320	78	80	2.0	0.4	95	0.1								
321	80	82	20	0.5	90	0 2								
322	82	84	20	0.6	85	0 3								
323	84	86	20	0.6	85	0.3								
324	86	88	20	0 1	75	0 5								
325	88	90	20	0 1	70	0 6								

DRILL HOLE NO. CH-90-38

DRILL LOG sample data

SAMPLE NUMBER	FROM	TO	TOTAL METRES	MS	CORE RECOVERY %	CORE RECOVERY AMT LOST	VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
77326	90	92	2.0	0.1	60	0.8								
327	92	94	2.0	0.0	40	1.2								
328	94	96	2.0	0.1	45	1.1								
329	96	98	2.0	0.2	35	1.3								
330	98	100	2.0	0.1	45	1.1								
331	100	102	2.0	0.1	45	1.1								
332	102	104	2.0	0.3	30	1.4								
333	104	106	2.0	0.3	20	1.6								
334	106	108	2.0	0.1	10	1.8								
335	108	110	2.0	0.3	20	1.6								
336	110	112	2.0	0.1	40	1.2								
337	112	114	2.0	0.1	85	0.3								
338	114	116	2.0	1.8	100	0								
339	116	118	2.0	1.6	80	0.4								
340	118	120	2.0	1.3	95	0.1								
341	120	122	2.0	0.3	80	0.4								
342	122	124	2.0	0.1	80	0.4								
343	124	126	2.0	0.1	85	0.3								
344	126	128	2.0	0	90	0.2								
345	128	130	2.0	0	90	0.2								
346	130	132	2.0	0	95	0.1								
347	132	134	2.0	0	85	0.3								
348	134	136	2.0	0.1	80	0.4								
349	136	138	2.0	0.1	95	0.1								
350	138	140	2.0	0	85	0.3								
351	140	142	2.0	0.2	75	0.5								

DRILL HOLE NO CH-90-38

DRILL LOG sample data

SAMPLE					CORE RECOVERY		VISUAL ESTIMATES (% ORE MINERALS)	ASSAY RESULTS						
NUMBER	FROM	TO	TOTAL METRES	MS	%	AMT LOST								
77352	142	144	2.0	0	80	0.4								
353	144	146	2.0	0.1	90	0.4								
354	146	148	2.0	0.1	85	0.3								
355	148	150	2.0	0	65	0.7								
356	150	152	2.0	0.2	85	0.3								
357	152	154	2.0	0.5	75	0.5								
358	154	156	2.0	0.2	90	0.2								
359	156	158	2.0	0.1	85	0.3								
360	158	1609	29	0.1	86	04								

DRILL HOLE NO CH-90-38

APPENDIX IV

DRILL HOLE ANALYTICAL RESULTS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

BP Resources Canada Ltd. PROJECT 540/LOC 10144 File # 90-2054 Page 1

700 - 890 W. Pender St., Vancouver BC V6E 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51001	1	580	5	20	.1	18	14	186	6.20	7	5	ND	1	74	.4	2	2	111	1.12	.117	4	6	1.22	31	.23	2	1.86	.07	.29	1	27
A 51002	1	746	5	24	.4	22	23	258	8.94	17	5	ND	2	65	.4	2	3	153	.70	.114	5	6	1.77	27	.26	2	2.40	.05	.27	1	55
A 51003	1	1042	4	19	.2	16	17	170	5.08	3	5	ND	2	66	.2	2	3	116	.92	.107	5	11	1.25	52	.27	6	1.94	.06	.45	1	56
A 51004	2	1381	2	23	.2	17	21	202	6.64	2	5	ND	2	43	.4	2	2	154	.85	.107	5	6	1.59	78	.29	2	2.30	.08	.80	1	34
RE A 51009	1	1084	3	16	.2	17	15	159	3.89	2	5	ND	2	74	.2	2	2	84	1.23	.138	8	7	1.18	31	.21	2	1.55	.05	.20	1	12
A 51005	1	1943	4	34	.3	17	22	256	7.86	5	5	ND	2	81	.7	2	2	163	.97	.115	5	6	2.14	47	.28	7	2.90	.05	.38	1	39
A 51006	1	1468	5	30	.2	16	34	245	7.31	8	5	ND	2	50	.7	2	2	153	1.10	.124	5	4	1.97	37	.28	2	2.41	.06	.41	1	21
A 51007	1	1121	2	19	.2	17	22	188	6.02	4	5	ND	2	56	.2	2	2	127	1.33	.122	5	6	1.34	34	.22	3	1.95	.07	.35	1	11
A 51008	1	1459	2	18	.3	18	22	173	4.67	2	5	ND	2	80	.2	2	2	100	1.10	.109	5	22	1.19	51	.22	2	1.60	.06	.43	1	15
A 51009	1	1081	2	16	.1	17	14	157	3.79	4	5	ND	2	73	.2	2	2	82	1.20	.133	7	8	1.15	33	.21	2	1.53	.06	.20	1	13
A 51010	1	1210	2	16	.1	16	16	135	4.10	2	5	ND	2	54	.2	2	2	96	1.04	.127	6	9	1.58	36	.23	3	1.46	.06	.31	1	16
A 51011	1	1178	3	13	.1	11	17	109	3.99	2	5	ND	2	50	.2	2	2	57	1.01	.094	6	8	.81	23	.17	14	1.27	.07	.14	1	14
A 51012	1	1241	2	13	.1	8	20	130	4.07	7	5	ND	2	59	.2	2	2	100	1.17	.167	7	7	1.08	32	.20	2	1.34	.05	.21	1	12
A 51013	1	670	2	10	.1	8	12	98	2.07	12	5	ND	2	52	.2	2	2	58	1.11	.097	5	7	.77	20	.16	2	1.15	.04	.10	1	10
A 51014	2	685	3	11	.1	15	17	97	2.27	2	5	ND	3	49	.2	2	2	59	1.04	.092	6	12	.75	24	.18	14	1.15	.07	.15	1	11
A 51015	2	1262	2	12	.1	12	25	112	3.45	2	5	ND	2	64	.2	2	2	79	1.29	.146	8	8	.96	32	.18	2	1.23	.05	.18	1	14
A 51016	1	1613	2	15	.1	12	25	126	4.57	2	5	ND	2	51	.2	2	2	52	1.18	.091	5	6	.99	19	.15	2	1.25	.05	.12	1	19
A 51017	2	380	3	11	.1	11	8	95	2.03	2	5	ND	3	47	.2	2	2	73	1.06	.095	7	12	.92	28	.19	2	1.21	.06	.24	1	16
A 51018	2	675	2	13	.1	13	14	115	2.38	2	5	ND	3	34	.2	2	2	99	.89	.092	6	16	1.26	41	.23	14	1.33	.06	.41	1	10
A 51019	2	728	2	12	.1	12	13	114	2.42	2	5	ND	2	42	.2	2	2	92	1.07	.099	6	16	1.19	33	.21	2	1.19	.06	.21	1	12
A 51020	2	734	2	13	.1	14	13	108	2.60	2	5	ND	3	28	.2	2	2	94	.86	.095	6	17	1.05	36	.20	2	1.14	.06	.23	1	21
A 51021	2	537	2	11	.1	14	10	107	2.57	2	5	ND	3	24	.2	2	2	101	.88	.096	6	19	1.11	39	.20	9	1.17	.06	.23	1	17
A 51022	1	506	2	14	.1	15	10	124	2.47	2	5	ND	3	28	.2	2	2	108	.90	.100	7	23	1.29	45	.21	2	1.26	.06	.25	1	17
A 51023	1	969	2	14	.1	21	16	137	3.59	2	5	ND	4	22	.2	2	2	117	1.06	.111	8	25	1.30	30	.18	3	1.22	.05	.23	1	22
A 51024	2	782	2	18	.1	19	13	130	3.35	34	5	ND	3	32	.2	73	2	105	1.51	.104	8	23	1.08	40	.15	11	1.26	.05	.24	1	37
A 51025	2	1852	3	15	.2	25	23	130	4.79	5	5	ND	3	39	.2	2	2	85	1.72	.085	7	16	.92	21	.10	5	1.09	.05	.15	1	31
A 51026	2	457	2	13	.1	12	9	126	2.89	6	5	ND	3	31	.2	2	4	120	1.02	.069	6	17	1.41	59	.25	8	1.54	.07	.34	1	10
A 51027	2	505	3	13	.1	19	12	109	3.04	2	5	ND	3	35	.2	2	2	100	.98	.096	7	19	1.16	42	.22	2	1.43	.07	.28	1	9
A 51028	2	809	4	12	.1	13	15	108	3.47	4	5	ND	2	32	.2	2	2	88	.89	.100	6	13	1.01	32	.20	2	1.20	.06	.19	1	11
A 51029	3	1013	2	13	.1	12	18	107	3.32	2	5	ND	2	36	.2	2	2	69	1.37	.135	7	8	.79	28	.16	7	.94	.05	.09	1	22
A 51030	3	1036	2	12	.1	16	17	103	3.29	6	5	ND	3	25	.2	2	2	83	.88	.109	7	15	.94	22	.18	2	1.01	.06	.13	1	19
A 51031	2	514	2	14	.1	15	12	124	3.51	2	5	ND	3	40	.2	2	2	100	1.08	.134	6	16	.98	20	.18	2	1.12	.05	.10	1	16
A 51032	1	226	3	8	.1	9	10	96	3.81	4	5	ND	3	68	.2	2	2	123	1.66	.158	8	11	.32	29	.13	18	1.08	.06	.09	1	3
A 51033	2	385	3	11	.1	8	7	129	2.81	7	5	ND	2	75	.2	2	2	94	1.54	.158	7	7	.61	19	.13	10	1.14	.04	.07	1	8
A 51034	3	455	2	10	.1	10	11	109	2.05	8	5	ND	2	73	.2	2	2	62	1.50	.157	7	8	.51	22	.13	4	1.01	.04	.08	1	11
A 51035	2	213	5	13	.1	15	9	136	3.50	4	5	ND	3	100	.2	2	3	119	1.86	.157	9	15	.65	46	.17	15	1.44	.07	.12	1	4
A 51036	1	462	4	12	.1	11	9	131	3.71	7	5	ND	2	53	.2	2	2	120	1.58	.149	8	10	.75	25	.17	11	1.27	.05	.10	1	13
STANDARD C/AU-R	17	56	39	128	7.2	67	27	982	3.91	40	19	7	37	48	19.0	16	20	58	.49	.096	38	55	.90	166	.07	33	1.95	.06	.14	11	510
STANDARD C	17	58	40	132	7.4	68	28	1029	4.03	41	20	7	37	48	18.6	16	21	59	.51	.099	38	56	.93	175	.07	31	1.96	.06	.14	12	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 27 1990 DATE REPORT MAILED: June 30/90 SIGNED BY ......D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

JUN [illegible] 1990

VIA FAX - CHOCH[illegible]

BP Resources Canada Ltd. PROJECT 540/LOC 10244 FILE # 90-2054

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51037	2	1325	2	17	.2	14	14	118	3.05	5	5	ND	3	23	.2	2	2	87	.80	.101	7	15	.97	26	.17	7	1.00	.05	.14	1	32
A 51038	2	876	2	14	.1	16	13	134	2.60	29	5	ND	3	57	.2	12	2	58	1.93	.087	7	13	.67	21	.11	10	.76	.04	.12	1	21
A 51039	2	1181	2	16	.2	18	16	142	3.28	3	5	ND	3	42	.2	2	3	84	1.40	.104	7	19	1.01	22	.14	6	.95	.05	.13	1	31
A 51040	2	1032	2	14	.1	21	16	103	2.57	6	5	ND	2	30	.2	2	2	70	.83	.103	7	16	.75	26	.16	10	.81	.06	.10	1	18
A 51041	2	2001	2	25	.2	15	31	172	5.43	6	5	ND	3	38	.3	2	3	124	.88	.153	9	16	1.57	27	.19	4	1.50	.05	.11	1	42
A 51042	1	1713	2	21	.2	13	32	156	5.92	5	5	ND	2	83	.7	2	2	100	1.23	.180	7	12	1.29	23	.18	2	1.44	.04	.07	1	22
A 51043	2	2223	2	18	.1	15	27	139	6.29	7	5	ND	2	55	.4	2	2	111	1.02	.177	8	14	1.04	43	.18	6	1.29	.05	.24	1	29
A 51044	3	1352	2	18	.1	18	20	138	3.65	7	5	ND	3	76	.2	2	2	121	.81	.128	6	18	.95	62	.20	2	1.06	.06	.42	1	29
A 51045	2	533	2	17	.1	26	13	91	2.71	4	5	ND	3	90	.2	2	2	99	.60	.095	9	19	.70	65	.20	11	.90	.10	.17	1	17
A 51046	3	685	2	13	.1	23	14	93	2.74	2	5	ND	2	64	.2	2	2	76	.76	.099	8	39	.63	37	.18	5	.82	.07	.13	1	14
A 51047	1	1563	2	17	.1	58	24	145	4.90	3	5	ND	2	75	.2	2	2	79	.99	.090	5	129	.88	27	.12	5	.98	.06	.07	1	17
A 51048	1	590	2	13	.1	53	14	160	3.65	5	5	ND	2	105	.2	2	2	80	1.32	.079	4	160	.92	38	.12	7	1.17	.09	.07	1	13
A 51049	1	559	2	11	.1	60	17	163	4.33	3	5	ND	1	389	.2	2	2	87	1.50	.084	4	177	.78	113	.11	3	1.11	.09	.07	1	10
A 51050	1	610	2	11	.1	39	14	116	3.30	6	5	ND	2	57	.2	2	2	72	1.14	.085	6	113	.63	25	.13	15	.91	.07	.07	1	18
A 51051	3	384	2	11	.2	10	11	93	1.75	2	5	ND	2	47	.2	2	2	43	1.22	.096	7	11	.51	17	.13	6	.75	.06	.08	1	10
A 51052	25	603	2	15	.1	17	14	104	2.84	5	5	ND	3	57	.2	2	2	125	.72	.098	9	22	.88	36	.19	2	.95	.07	.25	1	15
A 51053	4	487	2	16	.1	18	10	110	2.30	4	5	ND	3	32	.2	2	2	101	.62	.096	8	17	.88	30	.18	15	.94	.07	.24	1	13
A 51054	5	582	3	15	.2	11	11	100	2.25	8	5	ND	3	44	.2	2	2	65	.93	.091	6	11	.68	25	.15	7	.99	.06	.19	1	16
A 51055	2	849	2	15	.1	9	15	103	2.72	2	5	ND	2	34	.2	2	2	56	.96	.088	8	7	.66	22	.14	12	1.08	.08	.14	1	20
A 51056	3	764	2	14	.2	13	16	130	2.73	33	5	ND	2	57	.2	2	2	55	.79	.092	8	9	.74	22	.14	2	.93	.06	.08	1	25
A 51057	2	901	2	21	.4	12	20	229	4.14	15	5	ND	2	58	.2	3	2	105	1.19	.153	8	13	1.44	25	.15	7	1.43	.06	.08	1	42
RE 51054	5	520	4	13	.1	12	11	89	2.28	5	5	ND	2	43	.2	2	2	66	.95	.092	6	11	.69	25	.15	4	.99	.06	.18	1	21
A 51058	1	619	2	22	.2	12	14	156	3.19	4	5	ND	2	55	.2	2	3	87	1.24	.154	7	12	.92	24	.16	2	1.16	.05	.09	1	29
A 51059	1	1170	2	31	.1	21	21	255	5.65	8	5	ND	2	39	.2	3	2	138	1.06	.137	6	48	1.83	59	.22	8	1.73	.05	.26	1	34
A 51060	36	530	2	18	.1	11	13	140	2.88	9	5	ND	3	28	.2	2	2	115	.98	.150	7	13	1.18	34	.16	10	1.06	.04	.19	1	16
A 51061	8	857	2	22	.1	14	16	159	3.71	10	5	ND	3	35	.2	2	2	149	1.05	.154	7	26	1.41	41	.19	7	1.34	.06	.19	1	22
A 51062	1	913	2	17	.1	14	18	140	4.58	6	5	ND	2	46	.2	2	2	120	1.29	.158	7	12	.64	28	.14	2	1.12	.05	.10	1	20
A 51063	2	1702	3	22	.7	12	23	156	4.64	7	5	ND	2	43	.2	2	2	84	1.01	.143	7	10	.73	31	.14	4	1.06	.05	.11	1	65
A 51064	3	2928	2	21	1.0	16	37	99	6.66	9	5	ND	3	39	.4	2	2	30	.69	.126	7	5	.42	15	.10	5	.63	.05	.06	1	220
A 51065	3	838	4	19	.2	9	20	136	4.05	8	5	ND	2	45	.2	2	2	55	1.21	.126	8	6	.64	19	.12	7	1.18	.07	.08	1	40
A 51066	2	897	2	20	.3	8	18	129	4.28	3	5	ND	2	41	.2	2	2	57	1.08	.086	5	6	.60	16	.13	3	1.17	.07	.08	1	40
A 51067	5	551	2	14	.1	12	17	83	3.12	8	5	ND	2	41	.2	2	2	42	.86	.107	10	8	.42	22	.13	6	.77	.07	.08	1	25
A 51068	5	380	2	15	.1	13	14	99	3.49	12	5	ND	3	22	.2	2	2	49	.69	.148	11	9	.59	21	.14	5	.78	.07	.15	1	22
A 51069	3	694	2	19	.1	10	13	130	3.54	5	5	ND	2	34	.2	2	2	47	.89	.114	7	8	.71	17	.13	2	1.03	.05	.08	1	56
A 51070	3	857	3	17	.2	10	16	131	3.27	9	5	ND	2	35	.2	2	2	44	1.17	.092	6	7	.71	18	.12	6	1.16	.06	.09	1	40
A 51071	7	969	2	18	.1	10	21	119	4.18	11	5	ND	3	30	.2	2	2	48	1.02	.106	7	7	.53	24	.12	6	.72	.05	.08	1	28
A 51072	10	864	2	15	.1	11	21	93	3.78	3	5	ND	3	24	.2	2	2	51	.68	.113	8	9	.43	26	.14	2	.30	.05	.09	1	27
STANDARD C/AU-R	17	55	39	132	7.3	68	28	1015	3.80	41	23	7	36	48	18.4	15	18	58	.48	.097	35	55	.87	173	.08	34	1.83	.06	.14	13	530
STANDARD C	18	55	36	134	7.8	70	29	1002	4.05	42	22	8	40	49	18.6	16	22	62	.48	.094	38	56	.91	183	.08	36	2.02	.06	.13	12	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51073	4	1447	5	18	.1	12	25	108	5.35	6	5	ND	4	43	.6	2	2	70	.85	.105	8	10	.43	34	.12	8	.49	.04	.12	1	36
A 51074	7	954	2	18	.1	21	18	117	4.95	4	5	ND	2	97	.3	2	2	113	.77	.107	8	28	.94	37	.19	2	1.14	.05	.33	1	26
A 51075	6	774	4	14	.1	19	19	105	4.26	5	5	ND	2	46	.2	2	2	78	.79	.095	7	23	.69	25	.14	5	.96	.05	.14	1	25
A 51076	7	503	2	14	.1	19	12	107	3.00	8	5	ND	2	101	.2	2	2	77	1.08	.087	5	17	.71	25	.14	9	1.14	.06	.17	2	34
A 51077	6	527	3	13	.1	21	14	124	3.40	2	5	ND	3	28	.2	2	2	74	.84	.092	6	16	.62	25	.14	9	.90	.05	.14	1	18
A 51078	20	448	3	14	.1	21	15	113	3.28	7	5	ND	4	33	.2	2	2	106	.87	.100	8	22	.78	52	.19	11	1.09	.10	.29	1	21
A 51079	25	890	2	13	.1	25	28	116	4.72	7	5	ND	3	27	.2	2	2	73	.66	.080	5	15	.51	23	.13	2	.65	.04	.16	1	34
A 51080	3	636	3	17	.1	12	13	142	4.93	2	5	ND	3	44	.2	2	2	86	.80	.098	9	16	1.11	21	.15	6	1.25	.06	.26	1	49
A 51081	13	722	5	11	.2	16	13	88	3.05	5	5	ND	3	42	.2	2	2	76	.79	.095	7	15	.58	19	.13	7	.72	.05	.14	2	35
A 51082	6	568	2	16	.1	9	13	174	3.94	16	5	ND	2	40	.2	2	2	61	.81	.084	7	9	.96	20	.14	4	1.13	.05	.13	1	45
A 51083	8	1125	3	18	.2	13	23	165	6.27	6	5	ND	3	34	.3	2	2	66	.80	.095	7	10	.85	19	.12	2	1.00	.05	.14	1	57
A 51084	7	513	6	15	.2	16	14	142	3.16	5	5	ND	2	70	.2	2	2	54	1.37	.092	8	15	.80	27	.20	13	1.56	.15	.14	1	34
A 51085	5	397	3	14	.1	16	13	138	2.38	5	5	ND	2	23	.2	2	2	58	.99	.115	8	13	.76	27	.14	5	.94	.07	.16	1	21
A 51086	2	791	3	15	.1	13	27	147	4.06	2	5	ND	2	37	.2	2	2	60	1.29	.124	8	11	1.01	16	.15	7	1.29	.06	.11	1	34
A 51087	5	1024	4	17	.2	13	14	156	3.78	2	5	ND	2	28	.2	2	3	75	1.05	.113	8	13	1.15	43	.16	11	1.26	.06	.35	1	49
A 51088	4	930	3	19	.3	11	18	196	3.92	6	5	ND	2	49	.2	2	2	79	1.87	.106	9	10	1.34	37	.13	9	1.44	.05	.14	1	38
A 51089	24	1057	3	19	.3	15	21	193	4.15	9	5	ND	3	53	.2	2	2	65	2.08	.102	8	13	1.33	26	.07	8	1.31	.05	.12	1	36
A 51090	4	476	3	23	.2	8	8	344	3.66	38	5	ND	2	78	.3	4	2	45	5.97	.082	7	9	1.28	52	.03	5	1.26	.03	.11	1	41
A 51091	11	639	4	18	.1	11	19	230	5.03	3	5	ND	2	63	.2	2	2	45	3.30	.092	5	9	1.12	18	.09	2	1.23	.04	.07	1	22
A 51092	9	791	3	14	.2	12	15	124	3.68	2	5	ND	2	46	.2	2	2	42	1.36	.097	7	9	.79	23	.13	9	.98	.05	.07	1	35
A 51093	3	799	3	14	.2	12	17	141	3.57	3	5	ND	2	42	.3	2	2	46	1.85	.101	8	10	.80	50	.09	12	1.01	.05	.09	1	36
A 51094	2	847	2	15	.1	10	16	168	3.59	8	5	ND	2	82	.2	2	2	46	2.77	.086	7	9	.87	56	.06	<2	.77	.04	.10	1	28
A 51095	2	726	7	18	.1	11	19	164	4.16	4	5	ND	2	34	.2	2	2	61	1.20	.090	6	13	1.17	78	.12	2	1.16	.05	.07	1	31
A 51096	3	971	4	16	.2	11	15	116	3.14	4	5	ND	2	55	.2	2	2	51	1.29	.089	7	11	.79	34	.12	2	1.04	.05	.06	1	41
A 51097	2	1312	3	21	.2	10	13	150	3.29	4	5	ND	2	35	.2	2	2	43	1.17	.080	5	10	.98	14	.11	13	1.08	.05	.10	1	63
A 51098	2	1332	5	17	.3	8	22	144	4.34	3	5	ND	2	43	.3	2	2	36	1.50	.061	5	5	.86	19	.09	2	.92	.05	.07	1	60
A 51099	2	1140	4	18	.3	10	14	156	3.42	3	5	ND	2	36	.2	2	2	58	1.24	.068	5	7	.87	16	.12	10	1.01	.06	.07	1	52
A 51100	2	615	4	17	.1	11	24	166	4.19	4	5	ND	2	42	.2	2	2	66	1.35	.079	6	13	.93	16	.12	14	.93	.05	.07	1	29
A 51101	1	1644	5	22	.2	14	32	167	6.61	7	5	ND	2	44	.4	2	2	92	1.46	.104	6	18	1.20	15	.13	5	1.27	.05	.09	1	47
A 51102	6	942	3	18	.2	12	22	157	3.82	6	5	ND	2	37	.2	2	2	67	1.40	.088	7	15	1.28	33	.15	8	1.33	.05	.27	1	32
A 51103	8	1202	6	20	.3	11	26	143	3.78	8	5	ND	3	39	.2	2	2	45	1.32	.080	6	9	.96	21	.11	10	1.03	.05	.11	1	38
A 51104	5	2138	3	18	.4	18	36	139	4.37	8	5	ND	3	43	.3	2	2	55	1.55	.094	7	11	.86	25	.11	2	.86	.04	.10	1	78
A 51105	2	677	3	16	.1	11	17	204	5.15	36	5	ND	2	102	.2	28	2	116	2.88	.157	7	7	1.42	65	.08	5	1.09	.03	.23	1	28
A 51106	1	1455	4	18	.1	11	24	223	4.83	2	5	ND	2	58	.3	2	2	187	1.81	.196	10	13	1.98	46	.16	2	1.71	.03	.26	1	37
RE A 51102	5	947	4	19	.2	13	22	157	3.79	8	5	ND	2	37	.2	2	2	66	1.40	.086	6	15	1.28	33	.14	8	1.32	.06	.27	1	32
A 51107	3	1742	4	17	.2	12	24	198	6.23	6	5	ND	2	56	.3	2	2	171	1.71	.195	9	10	1.90	46	.21	11	1.74	.04	.32	1	68
A 51108	8	604	2	10	.1	10	16	115	3.09	4	5	ND	2	48	.2	2	2	62	1.64	.083	7	10	1.10	25	.11	2	1.08	.05	.13	1	22
STANDARD C/AU-R	18	57	37	131	7.6	68	27	1028	4.01	38	25	7	39	47	18.5	16	20	59	.49	.093	40	56	.91	180	.07	34	1.98	.06	.13	11	510
STANDARD C	18	58	38	132	7.3	67	27	1018	3.97	39	18	7	36	47	18.8	15	19	58	.51	.094	39	57	.92	175	.07	32	1.93	.06	.13	11	-

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51109	3	628	4	15	.1	14	10	176	2.38	7	5	ND	3	63	.2	7	2	63	2.02	.093	8	15	.91	28	.10	2	1.01	.06	.11	1	12
A 51110	4	566	4	13	.3	12	11	130	2.23	10	5	ND	3	83	.2	6	2	56	1.91	.081	9	10	.79	80	.03	15	.71	.04	.10	1	19
A 51111	8	483	2	11	.1	12	9	158	2.52	55	5	ND	3	200	.2	13	2	31	2.71	.056	4	5	1.01	120	.01	3	.92	.02	.14	1	13
A 51112	8	379	2	13	.2	19	12	171	3.38	94	5	ND	3	225	.2	70	2	13	2.81	.096	7	3	.94	45	.01	15	.42	.01	.22	1	92
A 51113	3	366	4	10	.1	20	13	149	3.50	92	5	ND	3	207	.2	50	2	15	2.47	.087	7	3	.79	41	.01	16	.49	.01	.23	1	123
A 51114	3	369	2	6	.1	15	11	163	2.64	16	5	ND	3	328	.2	9	2	16	3.32	.095	8	3	1.19	90	.01	7	.51	.04	.19	1	20
RE A 51118	5	751	2	11	.1	17	13	119	2.71	5	5	ND	3	70	.2	4	2	88	1.08	.089	8	17	1.29	102	.12	4	1.24	.06	.22	1	24
A 51115	14	861	2	5	.2	9	12	151	2.76	32	5	ND	4	284	.2	9	2	11	2.79	.078	6	2	1.05	64	.01	9	.44	.04	.21	1	22
A 51116	3	1086	2	6	.2	11	10	133	2.24	20	5	ND	4	197	.2	7	2	21	2.28	.079	7	4	.86	105	.01	18	.51	.05	.14	1	26
A 51117	13	802	2	10	.1	11	9	143	2.11	10	5	ND	3	115	.2	4	2	45	1.63	.081	8	10	1.00	88	.02	19	.89	.06	.17	1	21
A 51118	6	771	3	11	.1	16	12	123	2.79	4	5	ND	3	71	.3	4	2	92	1.10	.089	8	17	1.32	109	.13	2	1.31	.06	.23	1	42
A 51119	8	840	2	9	.1	13	10	131	2.51	6	5	ND	3	74	.2	5	2	52	1.72	.089	9	12	1.10	139	.03	17	.97	.07	.16	1	25
A 51120	5	1074	2	11	.1	14	14	130	2.97	3	5	ND	2	74	.2	3	2	60	1.56	.095	9	12	1.13	90	.08	15	.99	.05	.13	1	48
A 51121	3	851	2	9	.1	12	11	148	2.49	2	5	ND	2	82	.2	2	2	57	2.32	.079	9	13	.96	87	.10	13	1.09	.06	.13	1	21
A 51122	9	549	2	12	.1	16	11	120	2.56	3	5	ND	3	43	.2	2	2	79	1.13	.087	8	18	1.17	31	.14	8	1.08	.05	.07	1	16
A 51123	7	742	2	14	.1	20	14	105	2.64	6	5	ND	2	57	.2	2	2	80	.87	.091	8	17	.93	48	.18	8	1.03	.07	.09	1	29
A 51124	8	1403	4	13	.1	19	22	110	4.20	4	5	ND	2	50	.2	2	2	78	.75	.102	7	22	.92	29	.16	2	.98	.07	.09	1	35
A 51125	8	1191	2	13	.1	15	20	125	4.78	2	5	ND	2	63	.3	2	2	103	1.25	.137	9	12	.96	36	.17	15	1.25	.07	.16	1	36
A 51126	1	1490	4	22	.1	10	23	168	5.03	7	5	ND	1	72	.4	2	2	111	1.24	.155	8	7	1.25	27	.18	13	1.40	.06	.11	1	55
A 51127	1	1278	3	19	.1	10	23	169	6.09	4	5	ND	2	63	.3	2	2	130	1.21	.149	8	8	1.30	57	.20	2	1.45	.06	.21	1	41
A 51128	2	2276	3	20	.5	12	25	155	4.94	7	5	ND	2	76	.4	2	3	100	1.27	.167	11	7	1.05	35	.16	10	1.26	.05	.08	1	67
A 51129	38	817	2	16	.1	20	17	121	3.97	5	5	ND	2	78	.2	2	2	116	.79	.115	9	17	1.09	75	.18	2	1.29	.11	.32	1	38
A 51130	4	413	3	12	.1	22	12	110	3.30	7	5	ND	2	53	.2	2	2	98	.89	.089	7	20	.83	41	.16	2	1.20	.10	.13	1	16
A 51131	11	596	3	11	.1	15	12	92	2.90	12	5	ND	2	46	.2	2	2	60	.99	.105	8	12	.73	27	.14	2	1.02	.09	.07	1	24
A 51132	30	1237	3	12	.1	11	11	89	2.38	6	5	ND	2	40	.2	2	2	44	1.03	.117	6	7	.57	25	.12	10	.81	.05	.09	1	66
A 51133	19	445	3	10	.1	11	6	90	1.67	4	5	ND	2	45	.2	2	2	55	.94	.090	7	14	.77	33	.14	7	1.06	.09	.10	1	21
A 51134	17	852	3	15	.1	7	14	112	3.02	6	5	ND	2	116	.2	2	3	45	1.23	.099	7	6	.83	51	.15	8	1.15	.09	.07	1	35
A 51135	5	527	2	9	.1	13	14	149	2.93	5	5	ND	2	99	.2	2	2	55	.84	.094	7	15	.87	47	.14	5	1.00	.08	.10	1	20
A 51136	5	1205	4	12	.1	12	12	113	3.36	2	5	ND	1	94	.2	2	3	60	.93	.090	6	12	.77	38	.13	2	1.10	.08	.07	1	39
A 51137	3	771	3	10	.1	7	16	105	3.24	4	5	ND	1	144	.2	2	2	34	1.11	.094	6	11	.57	41	.12	3	1.07	.09	.06	1	31
A 51138	12	651	4	10	.1	9	14	84	3.17	4	5	ND	2	50	.2	2	2	37	1.03	.096	7	7	.41	23	.12	2	.89	.07	.07	1	28
A 51139	5	619	2	10	.1	8	11	92	2.79	5	5	ND	1	52	.2	2	2	34	1.17	.101	7	12	.45	19	.12	2	.88	.08	.06	1	25
A 51140	5	378	4	14	.1	7	10	111	2.92	8	5	ND	2	58	.2	2	3	36	1.35	.099	[illegible]	5	.64	20	.12	14	1.21	.09	.07	1	26
A 51141	23	2992	4	34	.1	7	24	151	5.21	3	5	ND	1	49	.7	2	2	62	1.06	.090	6	13	1.05	25	.15	2	1.48	.07	.08	1	220
A 51142	9	2556	2	29	1.0	7	12	122	3.33	5	5	ND	2	54	.5	2	2	57	.98	.076	7	6	.70	22	.13	16	1.12	.08	.07	1	240
A 51143	5	501	4	12	.1	7	11	93	2.38	2	5	ND	2	69	.2	2	5	38	1.13	.134	9	16	.56	28	.13	2	.89	.04	.08	1	20
A 51144	2	656	4	16	.1	7	14	121	4.05	7	5	ND	2	177	.2	2	2	40	1.13	.081	6	6	.60	35	.12	6	1.16	.07	.08	1	20
STANDARD C/AU-R	18	62	40	137	7.8	68	28	1065	4.15	38	19	7	39	50	18.4	14	21	59	.50	.096	40	57	.92	183	.07	35	1.97	.07	.13	11	520
STANDARD C	17	57	41	132	7.3	68	28	1008	3.93	38	18	6	35	48	18.4	15	21	57	.50	.094	38	57	.91	173	.08	33	1.93	.06	.13	13	-

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150 P05

BP Resources Canada Ltd. PROJECT 540/LOC 10144 FILE # 90-2054

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51145	7	716	7	18	.5	9	12	104	3.11	12	5	ND	1	65	.2	2	2	49	1.10	.091	7	20	.66	38	.14	4	1.03	.08	.10	2	20
RE A 51150	5	1201	8	17	.2	20	22	118	4.83	12	5	ND	2	54	.4	2	2	79	.82	.092	7	18	.78	41	.16	5	1.08	.06	.14	1	32
A 51146	11	880	3	15	.2	11	12	116	3.02	5	5	ND	1	38	.6	3	2	81	1.12	.120	7	12	.87	28	.15	11	1.11	.05	.11	2	25
A 51147	3	1676	7	20	.4	9	26	131	4.86	13	5	ND	2	55	.5	2	2	71	1.01	.108	7	16	.93	37	.14	7	1.22	.07	.24	1	54
A 51148	3	1621	5	22	.4	9	27	143	4.84	10	5	ND	1	36	.2	2	4	92	1.06	.075	5	9	1.06	26	.14	4	1.49	.06	.11	1	47
A 51149	4	1569	2	16	.3	11	22	97	4.31	10	5	ND	2	34	.4	2	2	46	.86	.105	7	17	.52	26	.13	4	.67	.06	.14	1	58
A 51150	5	1196	10	17	.1	18	21	107	4.73	10	5	ND	1	53	.8	2	4	77	.79	.088	7	17	.76	36	.15	8	1.03	.06	.14	1	37
A 51151	7	686	3	15	.1	18	14	115	3.56	14	5	ND	1	119	.2	2	2	85	.98	.101	7	33	.85	44	.17	2	1.05	.06	.12	1	17
A 51152	7	1623	5	16	.3	18	12	137	3.15	25	5	ND	2	119	.2	2	2	86	.90	.080	7	18	.86	41	.16	3	1.12	.07	.13	1	61
A 51153	8	678	2	13	.2	16	11	98	2.97	36	5	ND	2	97	.6	2	3	91	1.04	.093	7	28	.88	41	.17	4	1.17	.09	.16	1	17
A 51154	8	973	2	14	.2	16	12	91	2.94	13	5	ND	2	40	.2	2	2	97	.76	.090	7	20	.96	37	.17	11	1.00	.07	.22	1	34
A 51155	6	593	2	15	.1	15	9	110	2.54	7	5	ND	1	250	.2	2	2	102	1.19	.081	7	21	1.20	46	.16	11	1.34	.04	.15	1	23
A 51156	14	2127	4	21	.4	14	15	104	4.02	11	5	ND	2	609	.5	2	2	81	1.24	.110	7	11	1.07	77	.14	4	1.43	.06	.16	1	74
A 51157	7	408	4	13	.1	18	10	95	3.03	10	5	ND	2	151	.3	2	2	111	1.02	.085	7	32	1.03	38	.18	12	1.29	.08	.13	1	21
A 51158	7	553	2	13	.1	19	11	100	2.93	5	5	ND	1	70	.2	2	2	108	1.00	.092	7	23	1.01	30	.17	7	1.19	.07	.15	1	24
A 51159	26	521	2	10	.1	10	12	96	2.95	5	5	ND	2	80	.2	2	4	85	.95	.091	6	25	1.08	30	.17	2	1.22	.09	.13	1	16
A 51160	33	544	2	11	.1	10	11	93	3.14	3	5	ND	1	45	.3	2	2	66	.87	.090	6	12	1.04	23	.15	5	1.18	.07	.12	1	16
A 51161	7	398	4	10	.2	7	9	83	2.96	2	5	ND	1	55	.7	2	2	62	.84	.095	7	19	.97	32	.14	2	1.17	.10	.14	1	16
A 51162	11	551	2	12	.2	15	11	89	3.41	8	5	ND	1	69	.2	2	2	86	.89	.088	5	18	.95	27	.16	2	1.26	.08	.19	1	23
STANDARD C/AU-R	17	60	38	129	7.1	68	28	960	3.90	37	16	7	37	48	17.4	15	22	55	.49	.095	37	56	.89	171	.08	33	1.92	.05	.14	12	510
STANDARD C	17	58	42	132	7.2	68	28	1023	4.05	42	17	7	37	47	19.0	16	22	56	.51	.096	36	56	.92	174	.07	33	1.97	.06	.14	13	-

JUN 20 '90 13:49

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Received July 6/90
Chuchi.

GEOCHEMICAL ANALYSIS CERTIFICATE

BP Resources Canada Ltd. PROJECT 540 LOC 10144 File # 90-2166 Page 1

700 - 890 W. Pender St., Vancouver BC V6B 4V3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51163	2	969	2	26	.1	6	10	352	3.22	3	5	ND	1	138	.4	2	2	25	3.35	.094	8	3	.86	238	.01	13	.65	.04	.23	1	54
A 51164	1	508	2	27	.1	7	15	373	4.01	7	5	ND	1	252	.4	2	2	35	4.10	.111	5	3	1.37	37	.01	10	.62	.04	.20	1	26
A 51165	1	1014	2	32	.1	7	14	405	4.10	9	5	ND	2	285	.5	2	2	48	4.14	.166	8	2	1.50	75	.01	12	.73	.03	.19	1	14
A 51166	1	291	2	29	.1	7	13	521	4.33	12	6	ND	1	390	.6	2	2	50	5.35	.152	6	3	1.93	28	.01	14	.44	.03	.16	1	11
A 51167	5	251	2	25	.1	9	14	490	4.74	14	5	ND	1	428	.6	2	3	46	5.03	.119	4	3	1.87	17	.01	13	.36	.03	.18	1	32
RE A 51172	3	3686	68	402	20.3	10	15	811	6.14	105	6	ND	1	432	5.4	50	2	43	6.39	.131	4	3	2.04	33	.01	5	.94	.01	.15	1	610
A 51168	3	234	2	31	.1	9	16	526	4.91	11	7	ND	1	471	.7	2	2	49	5.94	.147	5	3	2.09	28	.01	18	.36	.03	.18	1	23
A 51169	1	260	2	35	.1	7	10	626	4.43	4	6	ND	1	528	.6	2	2	51	7.02	.139	6	2	2.45	91	.01	5	.33	.02	.16	1	10
A 51170	1	245	2	28	.1	6	10	543	3.81	4	5	ND	1	409	.3	2	2	41	5.67	.149	10	3	1.97	76	.01	8	.42	.02	.19	1	10
A 51171	2	353	2	29	.1	8	13	648	4.47	19	5	ND	1	375	.5	2	2	40	5.78	.148	8	4	1.99	44	.01	9	.53	.02	.20	1	17
A 51172	3	3674	68	407	20.0	10	16	845	6.37	108	6	ND	1	436	5.4	47	2	44	6.46	.136	4	3	2.13	37	.01	9	.95	.01	.15	1	720
A 51173	1	194	3	45	.1	12	15	777	5.52	25	5	ND	1	146	.4	2	2	147	3.91	.148	8	11	1.24	42	.01	13	1.64	.02	.15	1	22
A 51174	1	418	3	46	.1	12	19	715	6.62	16	5	ND	1	65	.5	4	2	193	3.09	.151	9	15	1.24	33	.01	7	1.97	.03	.12	1	34
A 51175	38	1124	4	58	.6	19	30	772	10.17	22	5	ND	1	52	1.0	2	2	284	2.37	.076	6	15	1.16	57	.01	8	2.24	.02	.12	1	126
A 51176	1	770	4	36	.1	13	16	881	6.21	27	5	ND	1	64	.7	3	2	177	3.87	.163	8	11	1.44	143	.01	8	1.49	.03	.11	1	72
A 51177	3	1518	4	52	.3	13	14	736	5.24	11	5	ND	2	133	.7	2	2	165	4.74	.150	14	19	1.37	42	.13	10	1.47	.04	.10	1	135
A 51178	1	2174	2	61	.7	15	18	583	5.77	11	5	ND	2	107	.9	2	2	182	3.40	.153	11	14	1.62	57	.19	8	1.67	.04	.09	1	310
A 51179	2	845	2	43	.2	15	15	558	5.32	7	5	ND	1	91	.5	2	5	188	3.00	.155	9	19	1.78	44	.24	4	1.59	.04	.10	1	230
A 51180	1	564	4	43	.1	14	15	472	5.72	13	5	ND	3	99	.7	2	3	187	2.82	.361	16	15	1.70	38	.19	11	1.56	.04	.08	2	156
A 51181	1	574	2	42	.1	13	14	525	5.13	13	5	ND	1	118	.7	2	2	176	3.03	.154	9	13	1.60	63	.20	9	1.61	.04	.09	1	80
A 51182	1	424	3	45	.1	13	14	428	4.85	7	5	ND	1	101	.2	2	2	165	2.12	.155	9	13	1.47	37	.22	11	1.47	.04	.08	1	96
A 51183	1	231	2	50	.1	13	14	475	5.26	2	5	ND	1	111	.4	2	2	184	2.55	.164	10	14	1.33	50	.23	10	1.47	.04	.10	1	40
A 51184	1	198	3	50	.1	13	13	419	5.29	3	5	ND	2	96	.3	2	3	183	2.05	.158	10	14	1.25	39	.22	11	1.36	.04	.09	1	15
A 51185	1	785	4	49	.2	15	15	423	5.82	14	5	ND	1	98	.5	2	2	198	1.96	.178	10	15	1.47	97	.24	8	1.47	.05	.11	1	80
A 51186	1	850	2	46	.2	13	16	392	5.93	10	5	ND	2	94	.5	2	2	209	2.37	.266	12	13	1.19	104	.22	9	1.40	.04	.11	1	72
A 51187	1	238	2	47	.1	14	13	363	5.32	8	5	ND	1	83	.3	2	3	196	1.78	.168	10	16	1.05	119	.24	10	1.28	.05	.11	1	21
A 51188	4	1230	2	51	.2	14	18	378	5.22	5	5	ND	2	81	.6	2	2	187	1.72	.164	10	16	1.14	50	.25	10	1.33	.04	.13	1	104
A 51189	1	1368	5	47	.4	16	17	413	5.37	5	5	ND	2	86	.5	2	2	190	2.03	.173	10	18	1.22	100	.25	9	1.44	.05	.14	2	98
A 51190	1	1946	2	54	.6	20	17	401	5.67	6	5	ND	1	81	.6	2	2	196	1.90	.183	9	36	1.41	84	.23	10	1.38	.05	.11	1	230
A 51191	1	1254	4	52	.3	15	16	414	4.94	7	5	ND	2	108	.6	2	2	180	2.16	.170	10	18	1.19	50	.23	16	1.37	.05	.11	1	74
A 51192	1	1200	3	46	.3	14	16	376	5.38	12	5	ND	2	86	.6	2	2	186	1.84	.171	9	14	1.29	35	.24	11	1.36	.05	.10	2	94
A 51193	1	1273	4	39	.6	15	15	371	5.52	11	5	ND	1	78	.6	2	2	186	2.01	.169	9	16	1.30	38	.24	5	1.46	.04	.12	2	152
A 51194	4	887	2	42	.5	16	19	356	6.36	10	5	ND	2	60	.5	2	2	194	1.61	.199	10	18	1.56	41	.24	5	1.66	.04	.13	2	101
A 51195	4	218	5	42	.1	16	14	372	5.03	2	5	ND	1	97	.5	2	2	177	1.92	.169	10	20	1.09	55	.25	5	1.39	.05	.15	1	25
A 51196	1	663	3	44	.3	20	27	390	5.42	13	5	ND	1	115	.6	2	2	171	2.19	.176	10	16	.97	42	.23	12	1.31	.05	.13	2	75
A 51197	1	190	3	52	.1	13	13	344	5.45	2	5	ND	1	108	.4	2	2	190	1.87	.161	10	15	.80	36	.22	9	1.20	.05	.10	1	13
A 51198	1	335	3	53	.1	13	14	443	5.84	10	5	ND	1	99	.6	2	2	180	2.20	.178	9	17	1.33	24	.23	7	1.46	.04	.09	1	23
A 51199	1	272	4	49	.1	14	14	382	6.41	10	5	ND	1	84	.4	2	2	212	1.91	.183	9	18	1.18	30	.24	5	1.46	.05	.10	1	34
STANDARD C/AU-R	20	64	41	142	7.9	72	31	969	4.23	41	22	8	39	53	19.0	18	22	60	.54	.094	40	60	.99	188	.10	33	1.96	.07	.14	12	520
STANDARD C	18	57	39	132	7.3	72	29	1001	3.94	42	23	7	39	52	18.6	15	20	59	.50	.097	39	59	.92	182	.09	34	1.92	.06	.14	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 3 1990 DATE REPORT MAILED: July 6/90. SIGNED BY..........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-2166

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51200	1	407	7	55	.2	14	18	417	5.59	7	5	ND	1	76	.7	4	2	154	1.79	.157	7	25	1.06	54	.18	8	1.38	.04	.14	1	45
A 51201	8	1061	2	48	.7	14	22	472	5.53	16	5	ND	1	114	1.7	4	2	138	2.84	.181	8	19	1.01	34	.14	3	1.25	.04	.09	1	113
A 51202	2	715	8	51	.4	15	28	657	6.26	14	5	ND	1	141	1.0	7	3	111	3.34	.160	6	19	1.61	46	.11	3	1.61	.04	.06	1	87
A 51203	1	319	4	47	.3	9	14	518	5.91	17	5	ND	1	107	1.2	5	2	145	2.65	.201	8	20	1.22	32	.13	14	1.33	.05	.09	2	35
A 51204	1	560	14	45	.3	11	16	598	5.26	9	5	ND	1	218	1.3	6	2	112	3.47	.158	7	17	1.38	30	.08	15	1.08	.04	.12	2	54
A 51205	3	209	2	48	.1	8	15	561	5.57	9	5	ND	1	233	1.5	6	2	98	2.58	.175	6	14	1.82	148	.14	10	1.65	.05	.51	1	14
A 51206	77	2332	3	37	1.1	12	33	537	5.82	10	5	ND	1	124	1.5	4	3	102	2.93	.180	6	13	1.28	45	.14	9	1.33	.04	.11	1	270
A 51207	1	420	2	37	.3	11	23	317	6.28	9	5	ND	1	77	.9	2	2	138	1.84	.166	7	16	.75	28	.14	4	1.16	.05	.09	1	111
A 51208	1	1081	2	39	.8	11	19	347	7.54	8	5	ND	1	91	1.0	4	2	179	1.65	.161	5	20	.95	26	.16	8	1.21	.05	.08	2	148
A 51209	1	564	2	37	.2	10	15	335	5.83	5	5	ND	1	88	1.3	2	2	149	1.42	.074	4	19	.89	37	.18	5	1.26	.05	.08	1	64
A 51210	1	511	5	32	.3	11	11	321	3.43	4	5	ND	1	99	.5	2	2	88	1.75	.023	4	15	.87	36	.16	2	1.26	.05	.08	2	75
A 51211	1	341	7	33	.1	9	14	401	4.81	9	5	ND	1	134	1.2	3	2	115	2.36	.025	3	17	.80	46	.14	7	1.17	.04	.09	1	33
\ 51216	1	302	2	41	.1	11	17	329	5.12	6	5	ND	1	109	1.1	2	2	154	1.65	.181	8	18	.73	48	.15	11	1.15	.05	.11	2	21
A 51212	1	844	10	36	.3	12	13	415	5.45	8	5	ND	1	120	.9	2	2	143	2.58	.178	8	17	.98	42	.13	4	1.27	.05	.11	2	104
A 51213	2	442	5	40	.2	13	15	337	5.69	9	5	ND	1	117	.8	2	2	166	2.06	.192	8	17	.74	60	.14	2	1.18	.05	.10	2	44
A 51214	1	1101	4	46	.4	10	17	340	5.83	2	5	ND	1	87	1.0	2	2	170	1.86	.196	6	18	.82	38	.14	11	1.13	.05	.10	1	132
A 51215	1	427	6	43	.2	12	15	323	5.36	6	5	ND	1	88	1.1	2	2	162	1.85	.168	6	19	.74	48	.15	9	1.17	.05	.12	1	38
A 51216	1	296	2	39	.1	11	16	325	4.86	6	5	ND	1	105	.7	2	2	152	1.68	.174	8	16	.70	46	.15	8	1.13	.05	.10	1	25
A 51217	1	191	2	41	.1	12	17	334	5.09	7	5	ND	1	117	.9	3	2	162	1.77	.168	8	17	.71	51	.15	14	1.15	.05	.10	1	16
A 51218	1	504	3	40	.3	11	17	287	5.50	8	5	ND	1	77	.9	2	2	162	1.56	.184	7	15	.78	37	.15	8	1.05	.04	.09	1	72
A 51219	1	737	7	37	.4	13	14	263	5.46	7	5	ND	1	59	.7	2	3	171	1.49	.160	7	15	.71	37	.14	6	1.01	.04	.10	2	83
A 51220	1	346	2	41	.2	11	15	321	5.67	4	5	ND	1	82	1.0	2	4	169	1.75	.186	7	18	.87	44	.15	5	1.17	.04	.10	2	36
A 51221	1	202	2	29	.1	9	11	252	4.52	6	5	ND	1	75	.5	2	2	141	1.71	.158	7	15	.61	37	.13	12	.93	.04	.09	2	20
A 51222	1	160	2	39	.1	10	11	365	4.32	4	5	ND	1	151	.8	2	2	135	2.17	.157	7	14	.68	49	.13	2	.95	.03	.08	1	9
A 51223	1	289	2	32	.1	11	12	293	4.48	5	5	ND	1	125	.2	2	2	127	1.72	.141	7	18	.75	41	.13	10	1.06	.04	.08	1	46
A 51224	1	1193	2	48	.7	12	15	631	6.12	24	5	ND	1	160	1.0	9	2	137	4.97	.096	6	28	.99	47	.09	12	1.31	.03	.12	1	160
A 51225	1	590	4	47	.2	11	16	359	4.81	5	5	ND	1	121	.6	2	2	139	2.08	.135	6	18	.99	33	.14	8	1.20	.04	.08	2	87
A 51226	1	3366	2	46	3.3	15	24	378	5.90	7	5	4	1	142	1.4	2	2	170	2.19	.156	7	18	1.01	31	.15	10	1.05	.04	.08	1	890
A 51227	2	1026	2	49	.6	14	19	386	4.81	3	5	ND	1	125	.7	2	2	150	2.08	.162	7	21	.91	63	.16	10	1.11	.04	.11	1	230
A 51228	3	234	2	40	.1	10	12	327	4.73	4	5	ND	1	135	.9	2	2	160	1.70	.153	7	18	.78	59	.15	2	1.08	.04	.10	1	40
. 229	1	87	7	41	.2	10	13	431	5.22	8	5	ND	1	131	.4	2	2	156	2.70	.155	7	16	.93	49	.14	12	1.23	.04	.09	1	8
A 51230	1	465	2	36	.3	11	19	446	4.50	9	5	ND	1	250	.5	2	2	128	3.14	.156	7	16	1.13	38	.14	8	1.27	.03	.07	1	58
A 51231	1	196	2	42	.1	11	14	361	5.26	2	5	ND	1	156	.9	2	2	166	1.88	.159	7	17	.77	74	.15	8	1.12	.04	.11	2	17
A 51232	1	461	4	44	.2	14	16	345	6.07	4	5	ND	1	148	.7	2	2	191	1.60	.171	7	20	.73	82	.16	7	1.12	.05	.13	1	31
A 51233	1	664	7	49	.4	14	25	346	7.92	4	5	ND	1	113	1.0	3	2	219	1.77	.241	8	23	.89	52	.15	10	1.15	.04	.10	2	78
A 51234	1	219	7	42	.1	13	15	363	5.61	5	5	ND	1	132	.8	3	2	169	1.66	.159	7	21	1.06	81	.17	4	1.23	.03	.20	2	18
A 51235	1	447	2	45	.3	10	16	370	6.40	4	5	ND	1	114	.6	2	2	189	2.07	.160	8	17	.79	44	.15	7	1.04	.04	.10	1	42
A 51236	1	169	6	45	.2	12	14	349	4.74	6	5	ND	1	122	.8	2	2	154	1.69	.158	8	22	.85	47	.16	9	1.17	.04	.10	2	13
STANDARD C/AU-R	19	65	42	136	7.7	74	31	1056	4.06	42	21	8	38	53	18.0	19	19	57	.52	.095	37	60	.90	179	.07	33	1.96	.06	.14	13	510
STANDARD C	18	61	38	130	7.1	71	31	958	3.80	41	16	8	36	51	18.6	16	20	56	.47	.098	35	57	.84	180	.08	33	1.83	.06	.14	11	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

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700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51237	1	74	2	32	.1	2	9	402	4.60	5	5	ND	1	66	.8	3	6	84	1.86	.219	6	5	2.08	59	.14	5	2.05	.03	.61	2	260
A 51238	27	6297	5	78	2.0	11	18	370	5.15	66	5	ND	2	128	.6	107	2	93	3.24	.243	11	6	1.12	22	.06	5	1.18	.03	.10	1	720
A 51239	2	3223	8	40	1.0	9	16	234	3.46	10	5	ND	1	56	.7	4	3	72	1.43	.114	6	9	1.11	22	.13	2	1.20	.04	.10	1	400
A 51240	8	2648	2	46	1.0	18	22	227	3.51	15	5	ND	1	55	1.0	5	2	73	1.20	.108	8	23	1.20	19	.16	5	1.22	.05	.08	1	420
A 51241	3	1533	14	34	.5	6	9	262	2.67	6	5	ND	1	92	.6	4	2	59	1.93	.101	7	9	1.13	28	.14	6	1.33	.04	.09	1	89
A 51242	7	899	8	23	.3	12	19	184	3.15	4	5	ND	2	173	.4	2	2	69	1.26	.093	8	10	.88	44	.14	5	1.04	.04	.11	1	48
A 51243	8	450	2	14	.2	14	15	162	2.54	14	5	ND	2	125	.6	2	3	71	1.09	.095	8	12	.80	37	.14	6	1.03	.06	.11	1	30
A 51244	7	1515	2	24	.8	8	10	171	2.09	18	5	ND	1	199	.3	2	2	52	1.08	.074	7	12	.86	44	.12	4	1.07	.05	.10	1	58
A 51245	12	1211	4	24	.4	9	9	165	1.97	7	5	ND	1	50	.5	2	2	63	.97	.080	7	12	.86	23	.14	7	.93	.05	.07	1	98
51246	9	1162	3	15	.5	9	8	111	1.76	7	5	ND	2	35	.5	2	2	49	.82	.080	5	11	.57	26	.13	2	.68	.04	.12	1	59
A 51247	10	1879	3	13	.5	11	9	111	1.98	2	5	ND	1	121	.2	2	2	53	.94	.086	7	13	.56	54	.13	2	.76	.05	.13	1	66
A 51248	6	2124	2	16	.8	10	12	135	2.27	2	5	ND	1	96	.3	2	2	51	1.53	.079	6	12	.76	61	.10	3	.88	.05	.11	1	85
A 51249	24	2475	5	27	.9	11	17	147	2.84	10	5	ND	1	78	.5	2	2	47	2.20	.076	7	11	.66	44	.09	2	.71	.04	.07	1	270
A 51250	4	854	2	13	.3	15	17	117	3.39	2	5	ND	2	70	.3	2	2	69	1.06	.101	8	19	.75	48	.18	4	.98	.07	.13	1	46
A 51251	6	918	2	13	.3	18	17	116	3.12	4	5	ND	2	45	.2	2	2	74	.94	.089	7	17	.72	43	.16	8	.86	.06	.12	1	119
A 51252	8	483	2	10	.2	14	11	106	2.16	8	6	ND	2	44	.2	2	2	71	.99	.094	8	16	.52	25	.17	5	.69	.06	.07	1	17
A 51253	5	356	4	13	.2	8	9	130	1.96	2	5	ND	1	47	.2	2	3	32	1.14	.092	8	7	.36	29	.13	2	.88	.07	.09	1	14
A 51254	7	329	4	9	.1	9	10	98	2.05	9	5	ND	1	35	.2	2	2	34	1.02	.091	8	10	.35	18	.12	5	.83	.08	.09	1	8
A 51255	11	412	4	13	.1	7	9	112	2.07	28	5	ND	1	26	.2	2	2	30	.96	.086	7	7	.37	22	.11	2	.79	.06	.08	1	61
A 51256	29	571	3	12	.3	10	8	109	2.00	66	6	ND	2	44	.3	3	2	49	1.25	.091	7	13	.56	19	.13	4	.96	.06	.10	1	10
A 51257	3	429	9	13	.1	8	10	115	2.46	4	5	ND	1	54	.2	2	2	37	1.12	.090	6	7	.57	23	.12	3	.97	.05	.09	2	42
A 51258	4	485	8	16	.2	8	16	126	2.76	7	5	ND	1	84	.2	2	5	35	1.26	.106	8	7	.52	19	.11	10	.92	.05	.07	1	87
A 51259	4	517	2	18	.3	6	16	141	3.11	33	5	ND	1	41	.2	2	2	35	1.20	.083	6	7	.60	23	.11	3	1.19	.06	.07	1	33
A 51260	8	291	3	11	.1	8	11	131	2.75	8	5	ND	2	43	.2	2	2	39	1.38	.107	9	7	.40	17	.11	8	.69	.05	.06	1	32
A 51261	6	584	5	21	.3	7	19	171	3.47	7	5	ND	1	37	.2	2	2	56	1.14	.073	4	7	.71	27	.13	3	1.16	.04	.08	1	85
A 51262	7	323	9	19	.2	6	10	191	2.64	5	5	ND	1	65	.2	2	2	78	1.48	.103	5	7	.74	40	.14	5	1.19	.05	.12	1	40
A 51263	4	1911	14	27	1.0	8	30	189	4.53	11	5	ND	1	29	.2	2	4	49	.97	.091	6	7	.76	23	.12	3	1.13	.05	.08	1	320
1264	5	520	5	19	.3	5	10	195	2.63	7	5	ND	1	35	.5	2	3	43	1.67	.084	6	7	.58	20	.09	3	.86	.05	.06	1	126
51263	6	577	6	18	.4	5	20	161	3.37	9	5	ND	1	36	.2	2	2	54	1.05	.070	4	6	.67	27	.12	4	1.10	.05	.08	1	106
A 51265	7	384	6	13	.1	8	9	118	2.36	2	5	ND	1	42	.2	2	2	37	.99	.112	9	8	.43	27	.12	6	.81	.07	.10	1	49
A 51266	3	6379	6	69	2.3	8	34	173	10.32	19	5	ND	1	61	1.1	2	2	63	.85	.061	15	5	.61	24	.09	6	1.23	.05	.11	1	910
A 51267	4	2121	3	25	.7	9	22	150	7.86	12	5	ND	2	34	.7	2	2	41	.95	.083	11	6	.32	43	.09	5	.66	.03	.11	1	390
A 51268	10	295	4	10	.1	7	9	123	3.50	9	5	ND	3	80	.2	2	3	45	.88	.107	10	8	.35	40	.12	2	.62	.06	.09	1	28
A 51269	8	316	3	12	.2	18	13	112	3.45	16	5	ND	2	63	.2	2	2	81	.80	.091	10	20	.71	45	.16	4	.94	.07	.19	2	14
A 51270	9	258	4	10	.1	19	15	123	3.65	7	5	ND	2	69	.2	2	2	109	.81	.092	7	21	1.05	46	.19	4	1.33	.07	.46	1	13
A 51271	11	168	2	10	.1	16	11	136	2.91	10	5	ND	3	63	.2	2	2	118	.82	.092	8	22	1.12	56	.20	7	1.37	.07	.55	1	12
A 51272	7	296	5	10	.1	19	13	136	3.21	5	5	ND	2	74	.2	2	2	102	.80	.091	8	17	.97	40	.18	2	1.26	.08	.42	1	6
STANDARD C/AU-R	18	58	38	132	7.2	67	30	1023	3.88	41	24	7	36	49	17.2	14	18	56	.50	.095	36	56	.91	172	.08	33	1.87	.06	.14	11	540
STANDARD C	18	58	42	132	7.2	68	31	1029	3.98	40	21	7	36	48	17.5	15	21	57	.52	.098	37	56	.93	173	.07	34	1.91	.06	.14	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 6 1990 DATE REPORT MAILED: July 10/90. SIGNED BY C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51273	6	205	2	11	.1	20	11	131	2.87	6	5	ND	2	41	.2	2	2	115	.69	.083	6	19	.94	31	.17	2	1.14	.06	.42	2	14
A 51274	7	265	4	11	.1	20	13	113	3.13	39	5	ND	2	52	.2	2	2	113	.68	.085	6	19	.94	27	.17	2	1.09	.05	.31	1	5
A 51275	12	186	2	10	.1	11	10	123	2.72	3	5	ND	1	75	.4	2	2	101	.82	.093	8	19	.94	30	.16	2	1.11	.05	.28	1	2
A 51276	6	100	2	9	.1	8	6	140	2.84	2	5	ND	1	76	.7	2	2	73	.96	.093	8	11	.98	31	.15	2	1.17	.05	.29	1	1
A 51277	25	1055	12	15	.5	7	35	167	6.24	8	5	ND	2	57	.3	2	2	81	.74	.093	7	9	1.03	29	.13	2	1.24	.04	.31	1	26
A 51278	29	738	2	12	.2	14	17	126	3.11	4	5	ND	1	57	.3	2	2	95	.92	.092	7	15	.82	41	.14	4	.82	.04	.21	1	69
A 51279	62	850	7	17	.2	17	18	221	3.77	14	5	ND	1	50	.2	2	2	80	2.53	.097	6	16	.73	28	.07	4	1.02	.02	.14	1	16
A 51280	2	134	3	32	.1	22	17	429	4.22	2	5	ND	1	87	1.3	2	2	128	2.21	.167	6	36	1.47	32	.18	4	1.82	.03	.09	1	19
A 51281	4	151	2	34	.1	21	14	384	3.90	3	5	ND	1	69	.2	2	5	122	2.24	.158	6	35	1.12	21	.18	9	1.69	.03	.10	1	9
A 51282	2	123	4	34	.1	17	14	418	3.90	2	5	ND	1	104	.3	2	2	117	2.09	.161	6	34	1.20	29	.17	2	1.82	.04	.10	1	7
A 51283	17	433	3	29	.1	19	19	296	3.85	6	5	ND	1	49	.3	2	3	109	1.29	.132	6	28	1.06	30	.18	2	1.38	.05	.25	1	16
A 51284	38	1053	2	21	.1	17	23	178	3.67	2	5	ND	2	83	.4	2	2	108	.84	.108	8	19	1.31	40	.17	5	1.35	.05	.56	1	8
1285	64	3956	2	27	.9	15	23	142	3.62	4	5	ND	1	96	.2	2	2	78	.77	.090	6	15	.81	29	.14	2	.98	.04	.30	1	280
A 51286	56	1487	5	18	.2	14	23	146	4.24	2	5	ND	2	61	.2	2	2	104	.71	.090	6	20	1.13	26	.16	2	1.11	.04	.38	1	89
A 51287	25	784	2	18	.1	14	19	148	3.58	3	5	ND	1	107	.2	2	2	104	1.02	.089	6	21	1.33	28	.17	2	1.32	.05	.34	1	30
A 51288	37	1608	11	24	.2	14	20	238	4.28	2	5	ND	1	50	.5	2	2	101	.80	.131	7	15	1.26	45	.19	2	1.39	.06	.49	1	28
A 51289	5	136	5	26	.1	4	19	457	4.17	2	5	ND	1	73	.2	2	2	68	1.29	.220	5	7	1.20	57	.17	2	1.55	.04	.26	1	4
A 51290	54	1564	2	21	.1	11	14	170	3.12	2	5	ND	1	49	.6	2	2	111	.59	.094	7	16	1.28	39	.18	2	1.21	.05	.57	1	5
A 51291	82	638	2	11	.1	13	12	127	2.41	3	5	ND	1	34	.2	2	2	111	.65	.081	5	18	1.05	35	.18	2	1.07	.05	.44	1	2
A 51292	36	916	2	12	.1	10	9	112	1.86	8	5	ND	2	60	.7	2	2	103	.87	.090	6	17	.95	38	.17	2	.99	.05	.25	1	32
A 51293	44	583	3	11	.1	16	18	120	3.09	3	5	ND	2	37	.5	3	2	110	.89	.092	7	20	1.33	25	.18	2	1.30	.05	.41	1	26
A 51294	25	514	2	13	.2	8	17	147	4.47	2	5	ND	3	63	.7	2	2	158	.86	.130	7	14	1.59	35	.20	6	1.54	.04	.67	1	1
A 51295	10	2003	7	15	.4	13	23	142	5.15	5	6	ND	2	56	1.5	5	2	185	.96	.155	7	15	1.69	44	.22	2	1.74	.05	.90	1	170
A 51296	17	514	2	11	.1	14	12	113	2.42	2	5	ND	1	40	.7	2	4	116	.77	.086	6	23	1.28	35	.19	2	1.28	.06	.51	1	28
A 51297	21	302	2	11	.1	11	13	118	2.40	2	6	ND	1	32	.2	2	2	107	.60	.081	6	20	1.28	28	.18	2	1.16	.05	.54	1	9
RE A 51293	44	578	2	10	.1	16	18	128	3.06	3	5	ND	2	38	.3	2	2	110	.88	.096	6	20	1.31	23	.18	3	1.27	.05	.40	1	33
A 51298	12	540	2	12	.2	11	14	132	2.89	4	5	ND	1	57	.5	2	2	111	.66	.082	7	19	1.33	29	.18	2	1.24	.04	.46	1	9
A 51299	95	398	2	10	.1	15	13	126	2.77	3	5	ND	2	53	.6	2	2	135	.73	.102	7	30	1.27	42	.21	2	1.34	.05	.61	1	2
A 51300	7	46	2	8	.1	13	7	122	2.60	2	5	ND	1	54	.5	2	2	138	.73	.098	7	33	1.37	50	.21	2	1.43	.05	.76	1	8
A 51301	13	1461	2	14	.2	20	20	124	5.04	2	5	ND	1	48	.3	2	2	179	.78	.119	7	29	1.79	58	.23	2	1.74	.04	.94	1	1
.302	11	972	2	12	.3	18	15	99	2.86	7	5	ND	2	117	.5	3	2	139	.72	.087	6	25	1.15	34	.18	2	1.29	.06	.51	1	7
A 51303	16	350	5	10	.1	18	16	104	3.06	2	5	ND	2	43	.5	2	2	129	.73	.092	5	31	1.27	33	.18	2	1.29	.06	.51	1	15
A 51304	13	628	7	12	.1	18	18	107	2.80	2	5	ND	2	59	.2	2	2	145	.73	.085	5	27	1.18	40	.18	2	1.25	.05	.55	1	19
A 51305	8	1444	5	13	.1	17	16	113	2.67	4	5	ND	2	55	.2	2	2	130	.67	.091	6	23	1.08	37	.16	2	1.09	.04	.37	1	35
A 51306	14	1625	2	14	.2	17	12	102	2.73	3	5	ND	2	45	.2	2	2	140	.71	.086	6	27	1.07	42	.17	2	1.14	.05	.46	1	104
A 51307	9	2390	2	22	.5	21	17	123	3.07	4	5	ND	2	32	.2	3	2	116	.73	.083	7	19	.79	35	.16	2	.77	.03	.30	1	320
A 51308	8	7357	2	64	1.7	19	21	206	4.34	5	5	ND	1	118	1.0	2	2	109	1.08	.109	6	10	1.16	27	.14	2	1.23	.04	.25	1	620
STANDARD C/AU-R	19	58	36	123	7.2	66	29	980	3.79	38	18	7	37	48	17.6	17	23	55	.47	.094	37	59	.88	169	.08	34	1.77	.06	.14	11	510
STANDARD C	18	58	45	132	7.3	64	31	1022	3.96	38	19	7	36	47	17.1	15	19	57	.51	.097	36	56	.92	175	.07	34	1.88	.06	.14	11	-

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-2282

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51309	3	4475	5	50	2.3	13	23	329	5.85	11	5	ND	1	110	.9	2	2	123	1.48	.111	9	10	1.21	74	.20	2	1.69	.13	.46	1	590
A 51310	5	2248	3	25	.5	16	19	139	3.19	5	5	ND	3	130	.4	2	2	131	1.03	.094	7	24	.99	61	.22	8	1.24	.12	.38	1	210
A 51311	5	1867	4	16	.5	16	20	126	3.04	5	5	ND	3	54	.2	2	2	110	.70	.090	7	19	.75	45	.20	8	.90	.09	.32	1	200
A 51312	5	2444	3	22	.7	20	23	147	3.90	8	5	ND	3	61	.4	2	2	108	1.01	.088	8	17	.84	34	.20	2	1.05	.14	.20	1	270
A 51313	3	2745	4	36	1.7	9	24	185	4.78	9	5	ND	2	85	.6	2	2	107	1.08	.093	9	8	.89	46	.16	2	1.40	.11	.16	1	680
A 51314	3	4343	4	50	2.5	12	26	191	4.92	8	5	ND	2	115	.8	2	2	126	.95	.095	10	8	.93	47	.17	5	1.40	.10	.19	1	900
A 51315	3	2639	6	33	1.1	11	22	145	3.49	6	5	ND	2	53	.4	2	2	89	.88	.104	8	8	.71	85	.18	3	1.37	.07	.22	1	390
A 51316	5	724	4	22	.5	8	15	153	2.61	8	6	ND	2	45	.2	2	2	71	.79	.091	6	7	.73	81	.17	5	1.21	.07	.23	1	79
A 51317	4	1243	4	20	.5	10	28	125	4.24	9	5	ND	2	50	.2	2	2	43	.77	.083	8	7	.53	33	.16	7	1.08	.10	.13	1	91
A 51318	5	915	5	24	.4	8	22	162	3.59	7	5	ND	1	41	.3	2	3	59	.95	.070	5	8	.80	29	.16	9	1.31	.10	.15	1	280
A 51319	14	819	2	18	.4	11	21	122	3.18	13	5	ND	3	31	.2	2	2	50	.71	.076	9	9	.61	36	.15	8	.92	.12	.19	1	200
51320	14	1156	2	23	.5	9	33	157	4.40	6	5	ND	1	41	.4	2	2	46	1.15	.093	7	8	.66	28	.13	2	1.13	.08	.15	1	240
1321	32	1289	2	19	.4	13	21	167	3.64	6	5	ND	2	37	.3	2	2	60	1.11	.081	8	10	.69	31	.15	2	.95	.08	.14	1	270
A 51322	18	1051	2	17	.4	11	11	150	2.90	4	5	ND	2	39	.3	2	2	79	1.08	.098	9	11	.82	34	.19	3	1.06	.08	.17	1	85
A 51323	14	782	4	16	.3	10	17	167	3.57	11	5	ND	3	52	.3	2	2	96	1.50	.095	10	9	.75	39	.11	8	.97	.06	.13	1	44
A 51324	20	594	2	12	.3	11	23	147	3.90	7	5	ND	3	48	.2	2	2	63	1.51	.097	11	9	.54	33	.09	8	.68	.05	.12	1	59
A 51325	28	635	4	11	.1	11	22	113	4.25	9	5	ND	3	30	.2	2	2	64	.85	.100	8	9	.40	68	.13	9	.65	.05	.14	1	55
A 51326	13	602	3	9	.1	21	20	90	3.51	12	5	ND	1	35	.2	2	2	53	.73	.077	7	16	.36	32	.17	7	.58	.07	.09	1	23
A 51327	8	468	7	32	.1	19	27	342	4.68	12	5	ND	1	82	.4	3	2	121	.92	.083	4	17	1.83	83	.31	2	2.23	.15	.88	1	25
A 51328	4	201	6	28	.1	14	20	349	4.27	11	5	ND	1	101	.2	2	2	123	1.28	.084	3	14	1.56	79	.33	3	2.48	.20	.78	1	16
RE A 51324	20	589	4	12	.1	10	22	149	3.85	9	5	ND	2	47	.2	2	2	63	1.51	.097	10	8	.54	32	.09	6	.67	.05	.12	2	57
A 51329	6	517	3	11	.3	20	33	164	4.09	8	5	ND	1	71	.2	2	2	64	1.59	.085	4	11	.76	26	.19	8	1.22	.08	.11	1	43
A 51330	2	248	9	19	.1	18	28	274	4.26	5	5	ND	1	74	.2	2	2	97	1.48	.091	3	12	1.67	34	.26	11	2.33	.13	.32	1	21
A 51331	15	1100	5	19	.6	11	51	183	6.28	11	5	ND	2	51	.3	2	2	72	1.30	.081	6	9	1.01	39	.15	5	1.40	.07	.12	2	52
A 51332	6	522	3	12	.3	11	17	129	2.93	8	5	ND	2	47	.3	2	2	58	1.48	.093	10	11	.75	23	.15	7	.95	.08	.08	1	53
A 51333	19	519	2	8	.2	18	23	140	3.87	7	5	ND	3	64	.2	2	2	78	1.45	.081	8	17	.66	35	.17	8	.78	.06	.14	1	39
A 51334	57	1256	3	12	.5	17	23	93	3.43	7	5	ND	3	33	.2	2	2	93	.84	.082	7	17	.75	37	.16	2	.94	.08	.21	1	71
A 51335	22	744	3	11	.3	17	18	105	3.51	9	5	ND	3	42	.2	2	2	94	.89	.084	8	20	.92	40	.17	6	1.18	.09	.28	1	38
A 51336	23	698	4	11	.1	16	15	116	3.70	2	5	ND	3	43	.2	2	2	107	.99	.085	7	21	1.20	43	.21	5	1.41	.10	.30	1	29
A 51337	5	353	4	10	.2	16	13	117	2.95	4	5	ND	3	43	.2	2	2	90	1.17	.094	9	20	1.15	29	.21	2	1.26	.08	.26	1	30
338	131	980	3	11	.3	16	19	116	3.81	5	5	ND	3	40	.2	2	3	90	.94	.079	7	18	.85	54	.21	9	1.06	.09	.26	1	240
A 51339	29	1738	3	15	.8	17	22	133	3.69	11	5	ND	4	36	.4	2	2	117	.76	.081	8	18	1.07	50	.23	2	1.18	.09	.34	1	390
A 51340	8	388	2	12	.2	18	12	142	2.83	2	5	ND	3	55	.2	2	2	118	.76	.085	8	22	1.34	63	.28	2	1.41	.09	.57	1	29
A 51341	8	331	2	15	.1	13	10	163	2.56	5	5	ND	3	227	.2	2	2	141	.68	.094	7	22	1.47	136	.30	8	1.47	.09	.67	2	14
A 51342	15	918	2	17	.4	13	21	164	3.82	7	5	ND	2	53	.3	2	2	130	.95	.121	8	22	1.33	49	.24	2	1.45	.08	.48	1	32
A 51343	7	501	4	12	.1	17	20	158	3.38	7	5	ND	3	34	.3	2	2	114	.71	.088	7	23	1.29	55	.25	6	1.36	.09	.48	1	53
A 51344	7	464	3	10	.1	14	13	124	2.48	4	5	ND	3	43	.2	2	2	106	.79	.086	5	20	1.21	53	.22	4	1.29	.09	.36	1	33
STANDARD C/AU-R	17	57	37	132	7.3	66	30	971	3.78	36	22	8	40	52	17.8	17	19	56	.47	.089	38	57	.87	187	.09	33	1.91	.06	.13	11	540
STANDARD C	17	57	39	132	7.3	68	31	977	3.82	39	22	7	38	53	18.8	16	18	56	.49	.090	37	57	.89	179	.09	34	1.87	.06	.14	11	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51345	5	223	2	12	.1	18	11	142	3.00	15	5	ND	3	55	.2	3	2	112	.84	.081	6	25	1.38	80	.25	4	1.57	.15	.59	1	22
A 51346	50	416	2	9	.1	17	13	134	3.06	5	5	ND	3	51	.2	2	2	79	.90	.073	5	19	1.00	88	.22	2	1.01	.10	.34	2	27
A 51347	9	201	2	20	.1	18	15	265	3.25	2	5	ND	3	64	.2	2	2	108	1.18	.117	6	26	1.13	55	.25	11	1.47	.11	.36	1	17
A 51348	2	147	2	35	.1	16	15	465	3.98	6	5	ND	3	87	.2	3	2	113	2.01	.166	6	27	1.10	38	.24	4	1.88	.12	.22	1	10
A 51349	2	134	2	43	.1	16	14	432	4.19	7	5	ND	3	72	.2	3	2	129	1.73	.167	7	29	.97	48	.25	2	1.76	.12	.23	1	9
A 51350	2	110	4	34	.1	17	14	460	4.40	3	5	ND	3	68	.2	4	2	135	2.11	.162	8	31	1.15	41	.27	7	1.96	.12	.21	1	14
A 51351	1	121	2	37	.1	15	16	462	4.27	6	5	ND	4	62	.2	2	2	133	2.24	.155	8	29	1.07	36	.26	5	1.88	.10	.28	1	17
A 51352	1	144	3	40	.1	16	15	500	4.06	6	5	ND	3	85	.2	3	2	126	2.00	.168	7	30	1.10	49	.26	4	2.01	.15	.35	1	10
A 51353	5	688	2	33	.2	15	23	353	4.82	8	5	ND	3	63	.2	4	2	138	1.26	.142	8	22	1.32	57	.29	6	1.74	.13	.57	1	58
A 51354	3	470	2	21	.2	17	16	214	3.82	5	5	ND	3	60	.2	3	3	146	.85	.096	9	23	1.40	85	.29	5	1.61	.13	.71	2	34
A 51355	3	335	2	16	.1	20	13	195	4.79	4	5	ND	3	65	.2	3	2	191	.87	.109	8	31	1.73	122	.36	2	2.16	.16	1.10	1	16
A 51356	8	226	2	15	.1	20	10	174	2.91	2	5	ND	4	39	.2	3	2	135	.75	.086	8	35	1.26	80	.30	2	1.41	.12	.67	1	13
A 51361	40	1007	2	15	.4	22	15	172	2.91	6	5	ND	4	42	.2	2	2	161	1.07	.085	8	32	1.10	56	.26	8	1.20	.08	.44	2	74
A 51357	4	199	2	15	.1	23	10	333	3.18	3	5	ND	4	39	.2	2	2	142	.75	.090	9	42	1.43	61	.29	2	1.45	.12	.48	1	13
A 51358	3	267	2	13	.1	23	14	168	3.17	3	5	ND	3	52	.2	3	2	133	1.10	.086	7	33	1.50	35	.27	10	1.57	.13	.27	1	13
A 51359	9	155	2	11	.1	19	11	148	2.59	6	5	ND	4	41	.2	3	2	131	.96	.088	8	36	1.24	45	.26	2	1.28	.10	.35	1	13
A 51360	88	308	2	11	.2	19	11	153	2.57	4	5	ND	4	41	.2	3	2	152	.68	.081	8	34	1.36	52	.27	9	1.33	.11	.65	1	22
A 51361	40	1004	2	16	.4	22	15	168	2.95	3	5	ND	4	42	.2	2	2	162	1.09	.085	8	33	1.11	56	.26	3	1.22	.08	.44	2	60
A 51362	45	2189	2	18	.6	22	17	165	3.24	4	5	ND	4	42	.2	2	2	164	.75	.081	7	31	1.05	70	.27	2	1.17	.09	.44	1	136
A 51363	18	355	3	13	.1	18	11	177	3.16	5	5	ND	4	47	.2	3	2	163	.73	.088	6	29	1.39	81	.27	2	1.51	.11	.62	1	16
A 51364	37	1137	3	14	.3	22	18	140	3.42	6	5	ND	4	39	.2	2	2	167	.67	.086	6	28	1.26	56	.21	4	1.30	.09	.51	1	66
A 51365	10	343	2	11	.1	26	16	134	2.99	4	5	ND	3	37	.2	2	2	164	.65	.078	6	28	1.25	53	.23	6	1.25	.11	.54	1	27
A 51366	6	550	2	13	.1	17	9	162	2.89	2	5	ND	4	44	.2	2	2	147	.73	.086	9	28	1.12	69	.26	6	1.21	.11	.48	2	33
A 51367	4	514	2	11	.1	20	18	151	4.15	11	5	ND	3	67	.2	3	2	111	1.19	.116	8	17	.85	53	.23	2	1.34	.08	.34	1	52
A 51368	2	596	2	9	.1	18	19	127	4.44	6	5	ND	2	88	.2	2	2	84	1.55	.137	8	15	.51	35	.17	7	1.12	.07	.11	1	46
A 51369	11	1234	2	11	.3	22	26	131	4.98	11	5	ND	2	111	.3	2	2	61	1.49	.135	8	11	.57	42	.17	8	1.24	.08	.13	1	127
A 51370	15	568	2	9	.1	18	18	129	3.15	9	5	ND	2	87	.2	2	2	77	1.49	.114	7	14	.69	41	.18	4	1.07	.08	.19	1	47
A 51371	23	809	2	11	.2	16	23	148	4.34	7	5	ND	2	93	.2	3	2	94	1.43	.116	10	12	.86	60	.22	2	1.11	.08	.29	2	45
A 51372	8	226	3	10	.1	21	10	129	2.63	12	5	ND	3	62	.2	3	2	125	.59	.076	5	23	1.35	69	.27	2	1.50	.18	.73	1	16
A 51373	9	571	4	16	.1	12	15	202	4.43	4	5	ND	2	77	.2	4	2	104	1.03	.112	7	13	1.32	64	.19	8	1.53	.10	.47	2	61
.374	17	916	2	17	.4	12	22	216	5.87	8	5	ND	2	73	.2	3	2	119	.99	.124	8	13	1.42	47	.20	5	1.53	.08	.49	1	81
A 51375	8	1329	4	18	.4	17	52	215	8.73	11	5	ND	3	118	.5	2	2	126	1.17	.143	8	14	1.36	46	.19	5	1.52	.08	.33	1	88
A 51376	18	514	2	16	.1	11	14	176	4.46	2	5	ND	2	84	.2	3	2	101	1.10	.123	8	11	1.06	46	.18	12	1.30	.09	.31	1	55
A 51377	35	451	2	15	.2	9	12	151	3.61	5	5	ND	3	102	.2	2	2	84	1.20	.100	8	8	.76	41	.16	2	1.25	.08	.16	1	53
A 51378	7	526	4	15	.2	8	16	154	3.80	5	5	ND	3	157	.2	4	3	87	1.30	.097	8	7	.89	36	.15	7	1.29	.08	.13	1	82
A 51379	3	328	3	15	.1	8	14	189	4.06	6	5	ND	2	199	.2	4	2	109	1.53	.108	8	8	1.27	37	.15	7	1.39	.06	.14	1	49
A 51380	18	369	2	13	.1	25	19	162	5.57	10	5	ND	3	108	.2	4	2	166	1.05	.083	8	36	1.45	54	.19	5	1.48	.08	.40	2	41
STANDARD C/AU-R	19	60	40	141	7.8	72	33	1030	4.11	44	22	8	40	52	18.6	18	23	61	.53	.095	40	59	.98	182	.10	33	1.96	.07	.15	11	480
STANDARD C	18	57	37	132	7.3	70	31	1006	3.93	37	20	7	39	53	18.9	16	19	57	.50	.091	38	57	.91	181	.09	33	1.92	.06	.13	11	-

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-2282

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51381	24	829	2	13	.4	31	24	143	4.46	7	5	ND	5	105	.2	3	2	125	.87	.099	6	27	1.25	31	.18	6	1.11	.04	.31	1	55
A 51382	12	537	2	14	.3	28	18	161	4.24	3	5	ND	4	61	.2	2	2	159	.78	.118	6	30	1.51	43	.25	7	1.44	.06	.57	1	48
A 51383	17	237	4	12	.2	28	16	157	3.58	7	5	ND	5	99	.3	2	2	127	1.19	.103	7	29	1.27	37	.18	2	1.16	.06	.33	1	16
A 51384	5	276	2	12	.4	23	14	139	3.36	2	5	ND	5	68	.2	3	2	132	.95	.100	8	35	1.20	36	.20	6	1.13	.05	.28	1	25
A 51385	14	274	4	12	.2	18	14	151	3.95	2	5	ND	4	85	.2	2	2	116	1.20	.133	8	24	1.05	35	.19	2	1.17	.04	.24	1	25
A 51386	10	506	4	13	.4	9	13	180	5.39	4	5	ND	4	120	.2	2	2	106	1.80	.168	9	7	1.05	29	.14	8	1.29	.03	.12	1	46
A 51387	11	368	2	11	.5	22	10	142	2.90	2	5	ND	5	85	.3	2	2	118	1.49	.096	8	31	1.13	37	.10	11	1.00	.04	.18	1	33
A 51388	11	347	2	11	.4	17	14	189	3.46	8	5	ND	5	133	.2	2	2	87	2.54	.113	6	17	.99	39	.08	12	.91	.04	.16	1	42
A 51389	12	394	2	10	.3	19	13	166	2.91	10	5	ND	5	90	.3	2	2	96	1.76	.102	8	18	.85	46	.15	12	.79	.04	.16	1	40
STANDARD C/AU-R	19	56	42	132	7.5	74	31	995	3.92	42	17	7	40	53	18.5	14	19	60	.50	.097	39	60	.91	181	.09	36	1.90	.06	.13	12	490

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GEOCHEMICAL ANALYSIS CERTIFICATE

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700 - 890 W. Pender St., Vancouver BC V6B 4W3   Submitted by: D. RUSSELL BARNES

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51390	8	869	3	15	.2	18	23	238	4.19	16	5	ND	3	69	.3	4	2	109	1.79	.108	7	17	1.08	42	.12	2	.89	.04	.24	1	45
A 51391	7	876	2	16	.3	17	18	273	3.24	15	5	ND	4	154	.2	10	2	66	2.41	.104	8	12	.99	55	.05	5	.73	.04	.12	1	72
A 51392	1	988	2	21	.2	16	21	271	4.38	8	5	ND	3	60	.4	2	2	88	2.03	.129	7	14	1.14	28	.11	3	1.22	.03	.08	1	48
A 51393	2	658	2	19	.2	16	15	252	4.36	7	5	ND	3	68	.3	3	2	106	1.77	.137	6	15	1.17	41	.13	7	1.21	.04	.10	1	67
A 51394	3	1011	2	25	.4	19	32	361	5.35	9	5	ND	3	68	.5	2	2	92	2.43	.127	7	17	1.15	22	.10	2	1.21	.03	.09	1	38
A 51395	3	536	2	19	.2	18	18	218	3.80	5	5	ND	3	47	.2	2	2	91	1.38	.116	6	16	1.10	29	.14	3	1.14	.04	.16	1	108
A 51396	5	595	2	12	.1	19	14	157	3.04	4	5	ND	4	25	.2	2	2	97	1.05	.084	6	19	1.01	34	.17	2	.90	.04	.30	1	66
A 51397	11	1226	2	19	.4	27	28	214	4.99	18	5	ND	3	76	.4	3	2	92	2.23	.097	7	27	1.04	27	.07	2	.96	.04	.16	1	119
A 51398	4	1024	2	16	.4	17	23	167	4.40	6	5	ND	3	41	.5	2	2	86	1.44	.118	7	11	.99	29	.12	3	1.10	.03	.11	1	41
399	10	731	2	13	.2	26	19	195	3.53	7	5	ND	4	46	.2	2	2	70	2.06	.087	8	16	.89	29	.07	2	.90	.04	.15	1	31
A 51400	4	418	2	11	.1	19	13	227	3.22	8	5	ND	3	186	.2	2	2	62	2.27	.084	7	14	1.04	37	.07	3	.64	.04	.17	1	34
A 51401	3	501	3	12	.1	18	14	187	3.66	5	5	ND	3	54	.3	2	2	69	1.56	.117	8	13	.93	31	.12	3	1.10	.04	.12	1	47
RE A 51406	3	356	2	11	.1	19	17	134	3.70	4	5	ND	3	30	.2	2	2	99	.90	.106	7	16	1.00	28	.18	3	1.05	.04	.20	1	39
A 51402	2	839	2	12	.4	15	26	140	14.23	14	5	ND	3	33	.4	2	2	66	.81	.113	6	11	.86	19	.10	2	.94	.04	.15	1	139
A 51403	2	793	2	14	.3	11	26	184	5.72	6	5	ND	3	52	.3	2	2	94	1.08	.131	9	10	1.13	24	.13	2	1.24	.04	.15	2	113
A 51404	14	568	2	11	.1	10	18	121	4.00	5	5	ND	3	44	.2	2	2	69	1.04	.101	7	8	.70	23	.11	4	.90	.04	.10	1	102
A 51405	38	282	2	10	.1	23	16	134	3.13	3	5	ND	4	26	.2	2	2	119	.71	.082	6	23	1.06	37	.19	3	.90	.05	.37	1	30
A 51406	3	359	2	11	.1	20	16	134	3.66	6	5	ND	3	30	.2	2	2	99	.90	.104	7	17	1.00	28	.18	3	1.05	.04	.20	1	41
A 51407	16	730	2	13	.1	34	28	131	4.16	8	5	ND	3	23	.3	2	2	114	.77	.088	8	37	1.05	36	.18	4	.88	.04	.25	1	69
A 51408	13	521	2	7	.5	10	29	97	2.68	4	5	ND	3	26	.2	2	2	42	.94	.065	5	13	.54	40	.10	2	.40	.02	.13	1	74
A 51409	18	1203	2	10	.5	17	49	84	4.77	6	5	ND	3	21	.2	2	2	61	.56	.068	7	18	.70	26	.10	5	.57	.04	.11	1	220
A 51410	22	306	2	8	.1	20	25	115	4.10	4	5	ND	3	28	.2	2	2	80	.88	.086	7	30	.87	23	.14	2	.79	.05	.15	1	56
A 51411	15	293	2	7	.1	20	20	93	3.51	8	5	ND	3	22	.2	2	2	80	.60	.080	6	32	.82	31	.16	3	.74	.06	.17	1	59
A 51412	21	236	3	8	.1	16	16	113	3.87	2	5	ND	3	23	.2	2	2	75	.57	.069	6	19	.96	36	.17	3	.86	.07	.24	1	36
A 51413	6	214	3	11	.1	23	12	153	3.67	4	5	ND	4	25	.2	2	2	142	.84	.082	7	30	1.26	47	.21	2	1.20	.04	.42	1	18
A 51414	7	227	3	11	.1	19	13	149	3.45	4	5	ND	3	31	.2	2	2	130	.98	.081	7	29	1.21	45	.17	2	1.20	.05	.30	1	17
A 51415	6	282	2	12	.1	19	16	160	3.28	6	5	ND	4	25	.2	2	2	130	.71	.084	5	35	1.24	45	.18	3	1.11	.05	.39	1	34
A 16	17	332	2	12	.2	22	20	166	3.65	16	5	ND	4	35	.2	2	2	150	.96	.083	6	36	1.36	42	.19	4	1.20	.05	.41	2	23
A .17	10	256	2	11	.1	18	14	138	3.02	7	5	ND	4	37	.2	2	2	114	.77	.080	6	20	1.13	45	.18	5	1.10	.05	.30	1	23
A 51418	7	212	2	12	.1	17	13	147	3.27	2	5	ND	3	45	.2	2	2	131	.73	.079	5	20	1.29	49	.19	3	1.31	.06	.45	1	12
A 51419	7	238	2	11	.1	20	16	144	3.37	4	5	ND	3	52	.3	2	2	130	.86	.076	6	25	1.28	52	.19	2	1.32	.07	.44	1	17
A 51420	4	369	2	9	.1	17	25	222	4.75	6	5	ND	2	77	.2	2	2	82	2.02	.112	7	18	1.18	30	.11	2	1.09	.03	.17	1	25
A 51421	3	345	2	11	.1	18	29	200	4.82	4	5	ND	3	75	.3	3	2	83	1.89	.127	8	21	1.19	28	.10	5	1.06	.03	.10	1	27
A 51422	14	202	2	8	.1	14	16	152	3.06	13	7	ND	4	70	.2	3	2	84	1.50	.077	8	16	.92	47	.06	3	.76	.04	.25	1	49
A 51423	5	358	2	12	.1	18	14	186	4.08	9	5	ND	2	110	.2	3	2	60	2.11	.085	7	17	1.12	33	.04	8	.97	.05	.25	1	139
A 51424	151	353	2	10	.1	17	42	219	5.20	11	5	ND	3	121	.2	3	2	61	2.69	.072	9	13	.96	19	.02	6	.66	.04	.15	1	83
A 51425	31	466	2	10	.2	18	23	159	4.61	7	5	ND	3	56	.2	3	2	79	1.19	.073	7	14	.86	29	.08	2	.96	.05	.16	1	75
STANDARD C/AU-R	18	55	37	124	7.1	67	30	987	3.81	39	21	7	38	48	18.8	15	18	56	.45	.090	36	56	.87	172	.08	33	1.75	.06	.13	12	480
STANDARD C	18	57	37	132	7.3	70	31	1017	3.98	42	22	7	40	53	18.4	16	19	57	.51	.092	38	58	.92	181	.09	34	1.94	.06	.14	14	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core   AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 12 1990   DATE REPORT MAILED: July 17/90   SIGNED BY........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51426	4	201	2	13	.1	17	14	275	4.40	8	5	ND	2	165	.2	7	2	84	2.67	.121	8	18	1.21	31	.11	6	1.03	.04	.15	1	14
A 51427	3	282	2	11	.1	19	28	180	5.09	11	5	ND	2	74	.2	2	2	80	1.81	.116	7	17	1.01	17	.14	7	1.04	.05	.13	2	85
A 51428	3	322	2	14	.1	17	19	239	5.07	13	5	ND	2	143	.2	11	2	84	2.33	.117	7	17	1.28	25	.13	5	1.13	.04	.15	1	51
A 51429	1	381	2	15	.2	16	22	243	4.89	8	5	ND	2	115	.3	2	2	108	2.27	.115	8	19	1.57	37	.15	7	1.66	.04	.11	1	58
A 51430	1	440	4	19	.2	18	21	278	5.37	13	6	ND	2	170	.2	9	2	87	2.65	.112	8	20	1.58	36	.08	4	1.36	.03	.17	1	52
A 51431	2	694	4	15	.3	30	24	287	7.43	41	6	ND	3	112	.5	4	2	87	2.72	.105	7	20	1.27	20	.08	3	1.47	.03	.13	1	65
A 51432	3	441	630	76	.5	14	16	517	4.98	76	5	ND	1	398	.6	160	2	24	4.95	.075	4	4	1.93	25	.01	6	.36	.01	.18	1	78
A 51433	1	438	2	15	.1	18	28	306	5.22	10	5	ND	2	91	.4	2	2	89	2.78	.110	8	17	1.51	24	.08	4	1.34	.04	.12	1	91
A 51434	4	445	2	14	.1	15	27	306	5.35	19	5	ND	2	172	.2	13	2	80	2.99	.115	8	14	1.60	32	.06	6	1.26	.03	.12	1	49
RE A 51439	5	713	8	75	.6	16	14	572	4.05	75	7	ND	2	385	.7	225	2	21	5.65	.098	5	4	1.64	46	.01	9	.42	.01	.21	1	105
A 51435	1	250	3	14	.1	16	13	289	3.75	8	5	ND	2	146	.2	12	2	74	2.56	.113	7	14	1.32	66	.10	5	1.29	.04	.14	1	33
1436	7	243	19	28	.1	17	12	438	3.89	28	5	ND	2	378	.2	47	2	39	4.12	.109	7	7	1.70	77	.01	9	.72	.02	.22	1	13
.437	6	423	5	58	.3	14	14	567	4.13	57	5	ND	2	599	.5	163	2	23	5.54	.103	6	3	2.03	23	.01	8	.40	.01	.23	1	5
51438	5	653	9	48	.4	16	12	446	3.82	43	5	ND	2	418	.3	142	2	34	4.37	.112	7	6	1.60	53	.02	9	.67	.02	.21	1	95
A 51439	5	715	8	78	.6	16	14	584	4.15	76	5	ND	2	388	.5	226	2	21	5.73	.100	5	4	1.66	46	.01	11	.45	.01	.21	1	89
A 51440	3	472	7	53	.3	14	11	569	4.00	59	5	ND	2	462	.3	138	2	21	5.67	.101	6	2	1.66	50	.01	10	.50	.01	.24	1	61
A 51441	4	700	7	28	.3	19	27	432	7.89	51	5	ND	2	154	.4	30	2	99	3.19	.120	8	15	1.81	16	.07	5	1.66	.02	.15	4	200
A 51442	2	334	4	15	.2	15	20	341	4.53	9	5	ND	2	172	.2	2	2	97	3.05	.143	8	14	1.40	33	.15	5	1.50	.04	.09	2	10
A 51443	6	272	2	13	.2	16	22	247	4.25	6	5	ND	2	115	.2	2	2	85	1.67	.151	7	14	1.28	21	.18	7	1.39	.04	.07	1	19
A 51444	7	333	2	11	.2	16	30	167	4.23	2	5	ND	2	95	.2	2	2	61	1.42	.141	6	10	.82	20	.16	4	1.07	.04	.08	1	11
A 51445	2	374	2	19	.2	17	23	242	4.45	7	5	ND	2	80	.3	2	2	81	1.50	.144	6	13	1.19	29	.18	3	1.41	.05	.10	1	23
A 51446	1	551	2	12	.2	15	18	202	4.30	3	5	ND	2	93	.3	2	2	76	1.59	.148	7	11	1.06	38	.17	3	1.24	.05	.09	1	62
A 51447	16	759	4	15	.5	19	38	249	6.49	10	5	ND	3	92	.2	2	2	92	1.53	.142	6	14	1.32	24	.19	3	1.46	.04	.10	1	31
A 51448	3	686	3	14	.3	18	23	240	5.08	8	5	ND	2	99	.2	2	2	83	1.67	.149	6	14	1.14	24	.18	8	1.37	.05	.10	1	15
A 51449	2	729	2	18	.3	17	21	292	5.24	11	5	ND	2	105	.3	2	2	105	1.88	.153	7	16	1.45	26	.20	6	1.58	.04	.13	2	33
A 51450	3	603	2	20	.2	15	30	327	5.19	7	5	ND	2	77	.2	2	2	106	1.98	.158	6	17	1.64	23	.19	3	1.77	.05	.11	1	74
A 51451	4	490	2	19	.3	15	17	307	4.35	8	5	ND	2	89	.3	2	2	99	2.09	.160	6	16	1.41	26	.19	2	1.70	.07	.12	1	74
A 51452	5	432	2	18	.2	16	21	275	4.67	6	5	ND	2	107	.3	2	2	93	2.07	.160	6	16	1.17	37	.19	6	1.62	.06	.11	1	35
A 51453	4	415	2	16	.2	14	11	242	4.03	7	5	ND	2	95	.2	2	2	89	2.04	.163	7	15	1.14	27	.19	4	1.51	.05	.11	2	43
A 51454	8	485	2	17	.2	17	10	267	5.08	14	5	ND	2	104	.3	2	2	99	1.72	.149	7	16	1.19	27	.19	2	1.48	.06	.13	1	113
455	9	471	5	21	.4	21	17	325	6.90	10	5	ND	2	104	.4	2	2	117	1.80	.146	6	18	1.40	30	.20	4	1.72	.07	.16	1	12
A 51456	3	328	68	19	.1	14	15	365	5.83	14	5	ND	2	126	.5	2	2	128	2.63	.155	8	18	1.56	30	.21	5	1.65	.05	.13	1	31
A 51457	13	1200	3	29	.4	20	24	344	8.33	29	5	ND	2	69	.6	2	2	130	1.35	.145	7	24	1.67	35	.21	2	1.88	.04	.14	2	200
A 51458	3	443	2	28	.3	14	29	332	6.54	11	5	ND	2	103	.4	2	2	118	1.64	.156	8	19	1.74	31	.20	2	1.80	.04	.13	1	14
A 51459	3	305	3	27	.1	17	17	526	6.00	9	5	ND	2	170	.6	2	2	162	3.16	.172	7	29	2.21	33	.20	3	2.19	.05	.12	1	30
A 51460	3	399	2	23	.1	14	27	367	5.66	12	5	ND	2	146	.4	2	2	137	1.96	.254	7	12	1.95	39	.23	2	1.88	.08	.13	1	50
A 51461	7	465	2	25	.2	15	20	373	5.44	9	5	ND	2	136	.2	2	2	120	2.08	.149	8	17	1.71	23	.20	5	1.80	.05	.11	1	72
STANDARD C/AU-R	19	64	39	136	7.3	73	31	1066	4.12	42	21	7	39	52	18.7	15	18	60	.52	.099	40	60	.96	181	.09	31	2.00	.06	.13	11	500
STANDARD C	18	59	38	132	7.2	72	31	1025	4.02	42	24	7	40	52	18.4	15	19	58	.51	.094	39	58	.93	181	.09	34	1.97	.06	.14	11	-

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
A 51462	2	315	2	21	.2	16	14	295	4.89	9	5	ND	3	124	.2	2	2	100	1.77	.145	6	22	1.54	37	.19	2	1.58	.04	.07	1	65
A 51463	7	377	2	11	.1	15	16	159	5.52	7	5	ND	3	43	.3	2	3	62	1.65	.085	10	15	.67	15	.03	3	.68	.03	.17	2	51
A 51464	1	174	2	11	.1	10	14	199	4.80	2	5	ND	3	81	.2	2	2	94	2.27	.121	9	10	1.15	19	.13	2	1.31	.04	.12	1	17
A 51465	9	100	2	6	.2	16	15	126	5.95	13	5	ND	3	56	.2	2	2	54	1.58	.081	7	12	.74	19	.04	2	.72	.04	.16	1	45
A 51466	26	935	2	12	.5	19	25	107	7.73	336	5	ND	2	113	.4	41	2	21	1.73	.036	2	3	.81	6	.01	11	.50	.02	.15	1	68
A 51467	9	261	2	15	.1	17	11	132	3.56	77	5	ND	3	74	.2	10	2	38	1.82	.072	7	10	.88	53	.01	13	.87	.04	.21	1	19
A 51468	3	766	2	12	.6	25	28	231	8.86	19	6	ND	2	73	.7	3	2	97	2.84	.089	5	31	1.04	25	.10	2	1.25	.04	.10	1	78
RE A 51472	27	33	4	16	.1	7	3	305	2.06	13	5	ND	3	108	.2	9	2	27	2.93	.075	9	3	1.15	50	.01	12	.56	.03	.17	1	11
A 51469	7	729	2	15	.5	23	28	270	7.71	50	5	ND	2	128	.6	14	2	71	3.44	.097	5	22	1.07	18	.04	5	.85	.04	.14	1	58
A 51470	5	280	2	14	.1	16	17	179	4.72	110	5	ND	3	141	.2	9	2	58	1.99	.076	6	9	1.00	33	.02	9	.77	.05	.13	1	41
A 51471	12	264	2	17	.1	17	16	187	3.97	63	5	ND	3	65	.2	13	2	48	2.09	.079	7	11	.95	37	.02	9	.60	.05	.11	1	9
- ‾1472	27	35	4	17	.1	7	3	277	2.01	16	5	ND	3	108	.2	9	2	27	2.92	.075	9	3	1.15	49	.01	10	.55	.03	.18	2	11
.473	11	210	2	11	.1	22	9	128	2.87	19	5	ND	3	64	.2	3	2	79	1.46	.086	7	20	.92	64	.07	7	.69	.06	.19	1	79
- 51474	8	322	2	13	.2	11	21	195	4.86	91	5	ND	3	71	.2	5	2	31	2.42	.087	7	4	.92	15	.01	9	.45	.04	.12	1	72
A 51475	21	181	2	11	.1	14	10	138	3.41	37	5	ND	4	62	.2	3	2	52	1.55	.098	10	9	.49	36	.03	11	.50	.05	.11	1	24
A 51476	4	287	2	15	.1	14	21	152	5.14	110	5	ND	3	56	.2	5	2	21	2.02	.092	5	2	.73	17	.01	8	.47	.03	.13	1	80
A 51477	2	126	2	16	.1	11	10	319	3.79	36	5	ND	2	108	.2	6	2	56	2.95	.101	9	9	1.07	64	.01	12	.64	.04	.13	1	26
A 51478	1	150	2	16	.1	9	10	398	4.08	40	5	ND	3	115	.2	4	2	57	4.07	.122	10	6	1.72	79	.01	11	.70	.02	.17	1	15
A 51479	3	243	2	12	.1	15	10	211	3.92	40	5	ND	3	58	.2	4	2	31	2.27	.117	10	8	.70	28	.02	11	.40	.04	.11	1	38
A 51480	13	141	2	9	.1	10	11	192	3.87	42	5	ND	3	81	.2	4	2	25	2.32	.092	9	4	.64	29	.01	7	.32	.04	.12	1	17
A 51481	9	164	2	11	.1	21	13	171	3.58	40	5	ND	3	68	.2	3	2	47	1.99	.077	7	11	.70	36	.01	4	.38	.05	.08	1	9
A 51482	9	304	8	17	.2	17	18	186	4.70	153	5	ND	2	52	.2	25	2	9	1.79	.073	4	2	.51	21	.01	7	.30	.02	.12	1	18
A 51483	5	297	4	20	.1	17	16	189	4.44	107	5	ND	2	62	.2	29	2	10	2.08	.074	5	5	.54	20	.01	8	.30	.03	.13	1	13
A 51484	1	599	2	28	.4	18	19	306	7.13	199	5	ND	2	103	.5	17	2	38	3.19	.104	5	5	1.43	19	.01	9	.48	.02	.15	1	50
A 51485	1	375	2	24	.2	18	16	318	6.17	57	5	ND	2	88	.2	6	2	73	2.66	.099	7	14	1.77	35	.03	11	1.22	.02	.18	1	103
A 51486	1	283	2	24	.1	17	11	336	5.53	14	5	ND	1	74	.4	3	2	125	2.16	.112	9	21	2.14	53	.13	2	2.20	.04	.09	1	23
A 51487	1	216	2	22	.1	19	12	356	5.01	13	5	ND	1	68	.5	3	2	117	2.20	.110	8	21	1.86	55	.13	3	1.95	.05	.07	1	25
A 51488	1	513	2	27	.3	26	14	344	7.37	17	5	ND	2	71	.5	5	2	104	2.06	.102	6	18	1.83	23	.11	2	1.87	.04	.07	1	13
A 51489	1	186	2	21	.1	19	11	359	4.95	40	5	ND	2	109	.3	3	4	117	2.51	.105	8	21	1.82	58	.11	2	1.95	.05	.06	1	3
A 51490	1	142	2	20	.1	16	10	392	4.91	34	5	ND	2	154	.2	9	3	77	3.32	.102	7	14	1.75	45	.03	6	1.57	.03	.11	1	2
. +91	1	159	8	26	.1	16	13	429	4.67	71	5	ND	1	329	.2	31	2	30	4.19	.103	7	6	1.78	39	.01	7	.72	.02	.18	1	10
A 51492	1	335	598	73	.6	15	15	457	4.74	87	5	ND	2	326	.5	149	2	20	5.20	.083	3	3	1.90	30	.01	5	.33	.01	.16	1	8
A 51493	1	113	2	20	.1	18	12	356	4.19	20	5	ND	1	79	.4	2	2	109	2.23	.112	8	22	1.78	108	.14	2	2.07	.05	.06	1	4
A 51494	1	159	2	16	.1	20	15	283	4.09	18	5	ND	2	71	.2	2	2	93	1.44	.112	8	18	1.31	89	.15	5	1.68	.06	.07	1	11
A 51495	1	116	2	22	.1	19	12	441	4.61	7	5	ND	1	136	.3	2	2	119	3.28	.104	7	25	2.00	80	.12	3	2.45	.03	.06	1	2
A 51496	1	84	2	18	.1	10	6	547	3.57	15	5	ND	1	174	.2	2	2	46	5.69	.088	7	7	2.24	77	.01	5	.76	.02	.12	1	6
A 51497	1	337	2	24	.1	23	17	390	4.98	36	5	ND	1	178	.2	7	2	45	4.19	.099	7	7	1.33	34	.01	8	1.10	.02	.13	1	3
STANDARD C/AU-R	20	57	36	137	7.1	73	32	968	4.20	43	22	7	40	54	18.7	18	20	59	.52	.099	40	61	.97	183	.08	31	2.02	.06	.14	11	510
STANDARD C	18	58	38	132	7.2	71	31	1001	4.00	39	17	6	39	53	18.5	15	18	57	.51	.094	38	59	.93	180	.09	33	1.95	.06	.14	11	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51498	1	211	2	22	.1	20	11	366	4.79	29	5	ND	1	102	.3	2	2	110	1.81	.111	6	21	1.70	42	.11	4	1.69	.06	.07	1	5
A 51499	1	388	3	23	.3	23	14	403	5.86	47	5	ND	2	85	.4	2	6	113	1.99	.100	6	20	1.62	29	.10	4	1.73	.06	.05	1	5
A 51500	3	228	2	18	.1	19	9	315	3.97	7	5	ND	1	74	.3	2	2	88	1.76	.109	7	17	1.33	55	.13	5	1.48	.06	.07	1	1
A 51551	1	211	2	20	.1	19	9	361	4.74	10	5	ND	1	87	.3	2	2	99	1.87	.109	6	21	1.49	39	.13	7	1.70	.06	.07	1	5
A 51552	1	187	2	22	.1	18	10	396	4.79	15	5	ND	2	96	.2	2	2	96	1.88	.111	8	19	1.65	33	.11	4	1.61	.06	.07	1	1
A 51553	1	261	2	23	.1	19	10	425	5.40	28	5	ND	1	110	.3	2	2	114	2.17	.108	7	24	1.82	27	.09	6	1.90	.05	.06	1	1
A 51554	2	228	2	24	.1	18	9	449	5.11	14	5	ND	2	108	.3	2	2	114	2.72	.104	7	23	1.88	41	.05	3	1.82	.05	.06	1	3
A 51555	1	331	2	24	.1	19	7	484	4.99	86	5	ND	2	122	.2	3	2	104	4.05	.101	10	18	1.91	47	.01	6	1.32	.04	.06	1	1
A 51556	8	300	2	25	.2	22	13	453	6.45	109	8	ND	2	189	.3	10	2	72	3.45	.101	6	14	1.88	29	.01	6	1.18	.03	.10	1	4
A 51557	3	283	49	34	1.6	15	12	517	5.48	83	5	ND	1	198	.2	25	6	44	5.20	.105	4	9	1.88	38	.01	7	.58	.02	.12	1	320
A 51558	6	292	2	30	.1	21	14	604	6.61	43	5	ND	2	182	.3	7	2	59	3.83	.122	5	11	2.18	18	.01	3	1.11	.03	.14	1	7
A 51559	5	242	2	26	.1	18	13	530	5.88	49	5	ND	2	139	.4	2	2	110	2.77	.131	7	22	2.04	31	.07	5	1.95	.03	.09	2	12
A 51560	17	233	2	19	.1	16	11	494	4.87	56	5	ND	2	286	.3	13	2	55	4.03	.123	6	11	1.76	64	.03	6	.93	.03	.14	1	1
A 51561	5	191	2	24	.1	11	10	578	4.99	26	5	ND	2	556	.3	28	2	22	5.43	.122	5	3	2.10	48	.01	7	.40	.02	.20	1	12
A 51562	4	159	3	22	.1	14	12	531	5.04	72	5	ND	2	444	.3	6	2	46	5.40	.107	5	8	1.99	42	.01	9	.60	.03	.13	1	10
A 51563	2	234	2	22	.1	13	14	600	5.24	48	5	ND	1	593	.4	6	2	37	5.47	.111	5	6	2.04	53	.01	5	.65	.02	.14	1	13
A 51564	3	435	2	24	.2	20	32	482	7.37	35	5	ND	2	236	.3	3	2	55	2.70	.125	6	11	1.83	26	.02	5	.83	.02	.14	1	13
A 51565	3	300	2	22	.1	13	17	573	5.55	14	5	ND	2	587	.5	6	2	31	4.71	.117	5	5	2.03	29	.01	9	.42	.02	.16	1	14
A 51566	3	392	2	20	.1	9	19	412	5.21	30	5	ND	2	392	.2	5	2	31	3.36	.123	7	4	1.43	31	.01	6	.52	.02	.16	1	8
A 51567	88	410	2	33	.2	17	16	464	6.81	22	5	ND	2	217	.4	4	2	125	3.09	.143	7	35	1.88	22	.07	11	1.85	.03	.11	1	15
A 51568	2	562	2	32	.1	18	22	512	6.42	31	5	ND	2	213	.6	2	2	108	4.28	.131	7	20	2.14	21	.13	4	1.66	.03	.10	1	26
A 51569	1	529	2	26	.2	16	24	345	5.22	7	5	ND	2	172	.2	2	2	114	1.79	.149	6	22	1.76	26	.17	5	1.80	.04	.11	1	44
A 51570	19	487	2	26	.3	17	25	330	5.14	9	5	ND	1	143	.3	2	2	105	1.78	.135	6	22	1.64	41	.15	4	1.67	.03	.08	1	30
A 51571	3	297	2	26	.1	17	17	327	4.93	8	5	ND	2	174	.3	2	2	100	1.65	.136	6	22	1.54	49	.15	4	1.71	.05	.09	1	17
A 51572	8	537	35	47	.3	17	20	470	5.66	29	5	ND	1	339	.6	80	2	80	4.07	.135	6	16	1.64	29	.07	8	1.37	.02	.16	1	55
A 51573	13	486	2	25	.2	16	23	347	5.42	14	5	ND	1	178	.3	4	2	95	2.39	.144	6	21	1.67	29	.14	5	1.70	.03	.11	1	53
A 51574	8	730	2	33	.3	17	28	357	6.03	11	5	ND	2	109	.5	2	2	103	1.53	.150	5	19	1.82	27	.16	2	1.84	.04	.12	1	90
A 51575	4	561	2	25	.2	15	22	320	5.14	11	5	ND	2	120	.5	3	2	87	1.71	.146	6	17	1.55	17	.14	5	1.65	.03	.08	1	70
A 51576	6	398	2	15	.1	14	24	210	3.78	9	5	ND	2	123	.2	2	2	79	1.48	.113	8	11	.92	23	.15	3	1.05	.04	.08	1	41
A 51577	4	738	2	21	.3	16	46	289	5.79	9	5	ND	2	136	.5	2	2	91	2.22	.125	7	16	1.42	15	.14	3	1.48	.03	.08	1	210
51573	14	481	2	25	.2	16	22	334	5.26	13	5	ND	1	176	.5	3	2	93	2.31	.138	5	21	1.60	29	.14	5	1.65	.03	.11	1	57
A 51578	27	1176	2	20	.3	21	28	253	5.11	12	5	ND	2	97	.4	2	2	94	1.55	.142	6	19	1.55	21	.15	2	1.54	.04	.09	1	200
A 51579	47	1121	2	19	.3	16	29	240	5.02	7	5	ND	2	135	.6	2	2	89	1.56	.139	6	15	1.37	21	.15	2	1.46	.03	.13	1	220
A 51580	5	1599	2	28	.6	23	63	271	8.16	7	5	ND	2	80	.6	2	2	110	1.12	.143	6	17	1.46	32	.18	2	1.59	.04	.37	1	310
A 51581	3	1276	2	30	.5	22	41	269	6.71	14	5	ND	2	94	.7	2	2	112	1.27	.124	6	20	1.35	27	.17	2	1.49	.04	.23	1	250
A 51582	2	996	2	24	.3	20	23	242	4.61	15	5	ND	1	98	.4	3	2	89	1.16	.115	6	19	1.33	30	.19	2	1.41	.04	.29	2	220
A 51583	3	442	2	23	.1	17	16	267	3.99	8	5	ND	2	71	.4	2	2	96	1.19	.109	5	19	1.40	34	.20	3	1.57	.06	.37	1	40
STANDARD C/AU-R	18	59	38	124	7.2	68	30	1023	3.87	42	24	7	39	52	18.6	14	19	55	.48	.093	37	57	.89	171	.08	34	1.84	.06	.14	11	490
STANDARD C	18	58	37	132	7.2	70	31	1011	3.95	38	23	7	40	53	18.5	16	18	57	.51	.093	38	59	.93	180	.09	34	1.94	.06	.13	11	-

ACME ANALYTICAL LABORATORIES LTD.   852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6   PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Chuchi - [illegible] July 20/90

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700 - 890 W. Pender St., Vancouver BC V6B 4W3   Submitted by: RUSSELL BARNES

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51584	1	145	5	19	.1	17	10	201	3.40	11	5	ND	4	79	.2	2	2	109	1.23	.138	10	12	.55	145	.17	6	1.67	.07	.11	1	27
A 51585	1	106	2	15	.1	24	6	169	3.09	26	5	ND	4	96	.2	2	2	108	1.22	.133	11	12	.40	84	.14	10	1.62	.07	.10	1	19
A 51586	1	140	4	19	.1	22	6	201	2.76	12	6	ND	4	92	.2	2	2	95	1.16	.137	10	13	.48	72	.14	9	1.61	.07	.12	1	42
A 51587	1	117	5	17	.1	19	8	199	3.02	14	5	ND	4	87	.2	2	2	103	1.34	.145	10	13	.45	116	.16	6	1.53	.06	.11	2	34
A 51588	1	129	4	14	.1	17	7	189	2.72	11	6	ND	5	106	.2	2	2	97	1.64	.141	10	14	.40	148	.18	11	1.66	.07	.11	2	20
A 51589	1	149	4	19	.2	22	7	234	3.40	10	5	ND	3	67	.2	2	2	113	1.47	.148	9	19	.60	77	.18	8	1.79	.08	.12	1	24
A 51590	1	149	3	23	.1	17	7	261	4.25	10	5	ND	3	75	.2	2	2	148	1.67	.171	9	23	.64	80	.22	10	1.85	.09	.15	1	21
A 51591	1	176	3	22	.1	15	8	240	4.16	10	5	ND	4	65	.2	2	2	146	1.71	.168	9	21	.62	85	.21	6	1.77	.08	.15	1	70
RE A 51596	2	534	4	20	.2	19	17	223	4.06	11	5	ND	3	207	.2	3	2	95	1.12	.114	7	21	1.01	118	.21	2	1.71	.06	.16	2	55
1592	2	647	6	44	.2	24	18	531	7.20	11	5	ND	3	70	.2	2	2	191	1.35	.205	8	33	1.45	56	.24	3	2.88	.05	.12	2	50
A 51593	1	432	4	27	.3	21	13	278	4.00	4	5	ND	3	57	.2	2	2	94	1.34	.127	7	25	1.06	47	.18	5	2.07	.06	.10	1	46
A 51594	1	448	2	19	.3	22	16	196	3.93	5	5	ND	3	54	.2	2	2	80	1.31	.121	7	20	.88	42	.19	4	1.73	.08	.13	1	59
A 51595	2	485	3	20	.3	19	22	291	4.10	6	5	ND	3	84	.2	2	2	80	1.30	.120	8	16	.91	43	.20	5	1.70	.07	.11	2	66
A 51596	2	538	5	21	.2	19	17	228	4.15	8	5	ND	3	210	.2	2	2	98	1.16	.119	7	21	1.03	120	.22	4	1.75	.06	.16	1	56
A 51597	1	466	3	22	.2	20	17	246	3.57	7	5	ND	3	92	.3	3	2	82	1.40	.117	7	18	1.05	41	.19	7	1.71	.06	.12	1	75
A 51598	1	403	5	24	.1	21	15	300	3.75	12	5	ND	2	81	.2	2	2	97	1.61	.119	7	20	1.23	29	.19	7	1.82	.07	.10	1	10
A 51599	1	465	4	20	.2	19	15	244	3.35	8	5	ND	3	84	.2	3	2	85	1.51	.117	7	17	1.04	29	.19	7	1.62	.08	.12	1	69
A 51600	2	972	6	29	.6	19	22	238	5.23	12	7	ND	3	51	.2	3	2	95	1.30	.137	8	17	1.20	29	.18	6	1.58	.05	.12	2	61
A 51601	1	766	5	28	.5	17	25	300	5.46	10	5	ND	3	81	.2	2	2	104	2.05	.121	8	16	1.35	26	.16	5	1.45	.04	.13	1	79
A 51602	3	1138	3	27	.5	19	39	360	6.28	43	5	ND	3	91	.4	4	2	101	2.63	.119	9	11	1.24	33	.09	4	1.50	.04	.13	1	125
A 51603	3	853	5	29	.4	15	22	384	4.81	12	5	ND	3	90	.2	2	2	104	2.53	.119	8	15	1.55	31	.15	15	1.78	.05	.09	2	78
A 51604	2	565	4	24	.3	17	16	359	4.18	12	5	ND	2	201	.2	3	2	92	2.63	.134	8	19	1.53	37	.14	7	1.66	.06	.11	1	57
A 51605	2	469	5	23	.3	22	21	326	4.51	10	5	ND	2	56	.2	2	2	98	1.59	.116	7	23	1.93	29	.15	6	1.84	.06	.09	1	37
A 51606	2	613	4	22	.4	17	17	262	4.53	4	5	ND	3	55	.2	2	2	85	1.49	.124	8	15	1.23	46	.16	3	1.57	.05	.10	1	65
A 51607	5	845	6	33	.4	20	23	499	5.65	4	7	ND	3	143	.3	3	2	95	3.93	.108	9	18	1.73	29	.06	5	1.91	.04	.13	1	42
A 51608	1	575	5	24	.2	15	21	900	5.04	21	5	ND	2	139	.5	12	2	29	6.64	.115	7	5	.94	33	.01	5	1.37	.02	.18	1	73
A 51609	41	13621	17	75	3.7	16	39	590	8.26	44	5	ND	2	200	3.3	67	2	28	4.26	.109	4	3	1.01	17	.01	4	1.04	.03	.15	2	31
510	10	671	4	26	.2	15	14	492	4.79	9	5	ND	3	96	.4	7	2	85	3.06	.110	7	16	1.36	27	.05	2	1.41	.04	.12	1	30
A 51611	2	589	4	26	.3	17	17	448	5.44	3	5	ND	3	50	.2	2	2	124	1.61	.110	8	23	1.98	42	.15	2	1.92	.05	.11	1	25
A 51612	1	502	3	21	.2	16	13	438	5.11	2	5	ND	3	44	.2	2	2	105	1.63	.113	7	20	1.56	66	.15	2	1.63	.06	.12	1	42
A 51613	6	2448	9	37	1.0	17	36	521	8.63	27	5	ND	2	48	.5	4	2	111	1.57	.102	6	22	1.92	26	.12	2	2.07	.06	.08	1	40
A 51614	1	451	3	23	.1	19	16	495	4.81	4	5	ND	2	62	.2	2	2	106	1.57	.120	7	23	1.73	56	.19	7	1.75	.08	.11	1	34
A 51615	24	884	42	32	.6	23	37	670	8.07	18	5	ND	2	131	.4	2	2	121	3.09	.105	6	22	2.28	26	.16	2	2.13	.05	.09	1	50
A 51616	1	149	28	17	.1	15	11	417	4.57	8	5	ND	3	69	.2	2	2	107	2.12	.113	7	21	1.39	48	.16	2	1.59	.07	.12	1	28
A 51617	8	219	3	13	.1	17	10	374	4.08	2	5	ND	2	42	.2	2	2	96	1.30	.118	7	20	1.30	30	.17	2	1.33	.06	.12	1	50
A 51618	2	362	3	19	.2	17	12	358	5.12	4	5	ND	2	33	.2	2	3	110	.91	.113	7	23	1.37	35	.21	6	1.38	.07	.16	2	98
A 51619	1	344	3	19	.1	17	18	341	5.67	3	5	ND	2	52	.2	2	2	108	1.21	.120	7	21	1.31	41	.21	3	1.50	.06	.14	1	31
STANDARD C/AU-R	20	62	41	136	7.4	72	31	1124	4.08	42	25	8	40	53	18.0	19	20	62	.54	.094	40	60	1.01	182	.09	39	1.96	.07	.15	12	460
STANDARD C	18	57	38	132	7.1	70	31	1011	3.94	38	17	7	40	53	18.4	16	19	57	.50	.093	38	59	.92	181	.09	34	1.95	.06	.13	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core   AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 17 1990   DATE REPORT MAILED: July 19/90   SIGNED BY..........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 1044 FILE # 90-2570

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51620	2	280	4	21	.1	17	13	527	5.45	8	5	ND	2	46	.3	2	2	121	1.67	.114	7	22	1.99	24	.21	3	2.06	.06	.09	1	21
A 51621	1	201	2	21	.1	16	10	554	4.98	9	5	ND	3	50	.2	2	2	120	2.07	.110	7	23	2.15	20	.20	4	2.11	.06	.08	1	23
A 51622	7	371	5	23	.2	19	16	380	5.94	6	5	ND	3	42	.2	2	2	110	1.20	.112	7	23	1.57	29	.23	6	1.71	.06	.13	1	58
A 51623	4	202	2	19	.1	18	14	331	4.84	5	5	ND	2	68	.2	2	2	107	1.38	.117	7	20	1.39	31	.23	9	1.69	.08	.13	1	28
A 51624	4	506	3	29	.3	20	11	379	6.83	9	5	ND	2	52	.3	2	2	114	1.38	.111	7	25	1.74	24	.23	9	1.82	.06	.12	1	55
A 51625	2	308	4	28	.2	14	13	499	6.11	9	5	ND	3	46	.3	2	2	135	2.24	.107	7	23	2.11	25	.22	3	2.02	.04	.16	1	28
A 51626	1	120	3	21	.1	17	11	415	5.26	9	5	ND	3	53	.2	2	2	126	1.52	.112	7	23	1.68	37	.25	4	1.79	.08	.15	1	21
A 51627	3	470	2	24	.4	18	16	425	6.37	3	5	ND	2	41	.4	2	3	112	1.46	.106	7	21	1.59	29	.23	3	1.58	.06	.19	1	52
A 51628	59	2989	5	44	1.9	20	28	367	7.03	11	5	ND	3	49	.6	2	5	129	1.20	.104	6	23	1.63	53	.22	4	1.70	.05	.24	1	25
A 51629	3	328	2	21	.2	16	22	304	6.61	11	5	ND	2	124	.3	2	4	130	1.36	.134	8	15	1.26	66	.23	5	1.73	.06	.22	1	37
A 51630	1	131	4	17	.1	10	9	280	5.45	9	5	ND	2	75	.2	2	2	163	1.46	.163	9	10	1.02	81	.25	4	1.62	.07	.24	1	17
1631	6	261	3	21	.1	12	14	282	5.94	6	5	ND	2	70	.3	2	3	159	1.54	.164	9	10	1.15	68	.26	7	1.69	.07	.22	1	40
51632	3	210	2	21	.1	11	13	318	5.77	9	5	ND	3	72	.2	2	2	170	1.63	.159	9	10	1.27	48	.26	12	1.80	.06	.16	1	33
A 51633	48	285	15	23	.5	12	11	415	4.78	25	5	ND	2	116	.2	24	3	134	2.96	.128	8	11	1.28	135	.20	8	1.51	.04	.24	1	18
A 51634	1	108	3	18	.1	15	18	655	4.81	13	5	ND	2	189	.4	4	2	76	4.94	.098	7	13	1.94	161	.02	14	1.16	.03	.24	1	18
A 51635	81	125	18	21	.4	15	15	584	4.45	11	5	ND	2	171	.2	5	2	94	4.07	.101	7	17	1.64	228	.05	9	1.59	.04	.19	1	44
RE A 51640	3	262	5	16	.1	22	20	271	6.70	13	5	ND	3	55	.2	2	2	134	1.24	.101	8	35	1.27	54	.27	8	1.43	.07	.12	1	90
A 51636	52	78	51	15	.3	15	12	505	4.01	42	6	ND	2	159	.3	18	2	60	4.21	.093	5	10	1.00	122	.01	25	1.12	.03	.21	1	22
A 51637	1	443	5	23	.1	20	31	436	5.87	10	5	ND	3	51	.3	2	3	131	1.50	.115	8	22	1.71	30	.23	3	1.89	.05	.11	1	36
A 51638	1	182	2	15	.1	18	20	424	4.62	9	5	ND	2	95	.2	2	2	109	1.91	.113	7	19	1.52	37	.18	4	1.57	.07	.10	1	12
A 51639	1	113	3	15	.1	19	10	432	4.45	7	5	ND	2	66	.2	2	2	118	1.93	.119	7	21	1.56	35	.19	4	1.72	.06	.10	1	12
A 51640	2	258	3	15	.1	21	18	262	6.49	15	5	ND	3	53	.2	2	3	130	1.21	.098	8	34	1.24	54	.26	9	1.38	.07	.12	1	98
A 51641	1	235	2	12	.1	19	16	230	6.12	11	5	ND	3	53	.2	2	3	148	1.21	.105	7	50	1.01	41	.28	6	1.29	.05	.10	1	105
A 51642	3	311	2	13	.2	18	18	239	5.83	6	5	ND	3	76	.2	2	4	108	1.54	.107	6	42	.70	37	.25	10	.92	.06	.12	1	94
A 51643	4	238	4	13	.1	21	14	274	6.52	11	5	ND	3	112	.2	2	5	146	1.42	.140	7	45	1.08	89	.25	5	1.33	.07	.13	1	36
A 51644	4	223	2	10	.1	15	16	156	4.28	5	5	ND	5	36	.2	2	3	104	.76	.080	10	18	1.14	48	.23	3	1.15	.07	.12	1	39
A 51645	3	471	5	10	.3	9	9	72	2.16	36	8	ND	56	18	.2	2	2	20	.18	.014	28	8	.22	23	.03	3	.53	.03	.18	1	390
A 51646	2	259	4	19	.2	20	18	272	4.48	12	6	ND	17	49	.2	2	3	122	.86	.088	14	24	1.06	63	.25	7	1.32	.08	.26	1	69
A 51647	1	142	2	15	.1	21	18	364	4.64	2	5	ND	2	119	.2	2	2	129	1.71	.139	7	22	.93	54	.25	8	1.49	.11	.16	1	86
A 51648	1	159	3	17	.1	22	17	342	4.52	2	5	ND	3	89	.2	2	2	123	1.69	.143	6	23	1.08	42	.25	5	1.55	.10	.17	1	28
A 51649	3	138	4	10	.1	22	15	182	3.87	7	5	ND	4	55	.2	2	3	138	1.34	.105	10	25	1.13	41	.27	2	1.14	.08	.16	1	24
A 51650	2	73	2	10	.1	10	9	157	2.64	5	5	ND	5	36	.2	2	2	93	1.08	.081	10	12	1.13	29	.20	8	1.04	.09	.15	1	19
A 51651	6	113	2	6	.1	24	11	139	3.37	8	5	ND	5	44	.2	2	3	162	.97	.087	11	26	1.10	46	.24	5	1.04	.08	.23	1	37
A 51652	1	1856	2	33	.5	11	10	244	3.42	2	5	ND	3	75	.3	2	2	132	1.36	.158	10	9	.72	51	.22	7	1.36	.07	.17	1	108
A 51653	1	1505	3	43	.6	11	10	320	3.97	7	5	ND	4	96	.5	2	5	141	1.50	.169	11	10	1.04	36	.23	15	1.67	.06	.12	1	152
A 51654	1	910	5	40	.3	11	13	397	4.53	7	5	ND	4	129	.3	2	3	150	1.50	.166	11	11	.97	53	.22	8	1.80	.06	.14	1	88
A 51655	1	636	3	39	.4	12	14	364	4.80	5	7	ND	4	172	.2	2	4	156	1.46	.170	11	10	.85	64	.23	11	1.84	.05	.15	1	72
STANDARD C/AU-R	19	63	40	135	7.2	74	30	1078	4.20	41	23	8	40	54	18.6	18	23	61	.54	.099	39	59	.98	183	.10	36	1.97	.07	.15	14	540
STANDARD C	18	60	36	132	7.2	72	31	1028	4.04	44	20	7	40	52	18.5	15	21	57	.51	.096	39	60	.94	182	.09	35	1.98	.06	.13	12	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51656	1	417	2	34	.1	11	11	279	4.92	2	5	ND	4	158	.2	2	2	163	1.43	.162	11	10	.67	83	.21	8	1.71	.06	.16	1	30
A 51657	1	886	4	31	.1	10	14	317	4.63	5	5	ND	4	119	.2	2	2	164	1.48	.165	11	9	.65	67	.20	9	1.66	.05	.14	1	63
A 51658	4	741	3	30	.1	10	14	283	5.43	6	5	ND	4	101	.2	2	2	165	1.20	.165	11	9	.61	75	.21	11	1.50	.05	.16	1	51
A 51659	1	815	2	30	.1	9	12	283	4.36	4	5	ND	4	93	.2	2	2	161	1.46	.155	11	9	.60	87	.20	8	1.51	.05	.18	1	33
A 51660	1	1621	4	27	.3	10	13	212	4.54	2	5	ND	4	106	.2	2	2	164	1.38	.154	10	9	.55	103	.21	6	1.45	.05	.19	1	83
A 51661	1	1167	2	33	.2	9	19	327	4.51	7	5	ND	3	102	.2	2	2	155	1.27	.155	10	9	.72	58	.21	7	1.50	.05	.14	1	61
A 51662	1	3043	3	31	.9	10	7	151	2.88	9	5	ND	3	71	.4	2	2	91	1.21	.167	10	9	.61	60	.20	8	1.20	.04	.17	1	240
A 51663	1	1424	2	31	.5	9	12	224	4.14	3	5	ND	4	94	.2	2	2	146	1.28	.161	9	8	.65	51	.20	6	1.19	.04	.14	1	137
A 51664	1	910	3	35	.2	9	15	271	4.12	4	5	ND	3	92	.2	2	2	147	1.18	.156	10	8	.74	55	.21	7	1.44	.06	.15	1	52
A 51665	9	1360	4	31	.4	11	29	208	4.39	4	5	ND	4	115	.2	2	2	149	1.21	.151	9	10	.66	55	.22	8	1.32	.05	.15	1	82
A 51666	1	850	2	29	.1	9	10	229	4.06	5	5	ND	4	98	.2	2	2	166	1.43	.156	11	10	.58	66	.19	5	1.34	.06	.16	1	44
51667	1	823	4	30	.1	8	11	255	4.04	4	5	ND	4	135	.2	2	2	157	1.50	.159	11	8	.58	70	.18	11	1.45	.05	.14	1	47
51668	1	2581	3	25	.8	9	8	178	3.96	6	5	ND	4	88	.3	2	2	161	1.33	.151	10	8	.54	57	.20	7	1.24	.06	.16	1	117
A 51669	1	1204	2	30	.4	8	10	234	4.44	2	5	ND	3	113	.2	2	2	155	1.36	.158	10	8	.62	64	.19	7	1.39	.05	.14	1	58
A 51670	1	899	3	31	.3	9	10	245	3.91	3	5	ND	3	131	.2	2	2	144	1.45	.154	10	8	.59	64	.19	7	1.44	.06	.14	1	73
A 51671	1	1942	5	41	1.6	10	13	249	4.70	15	5	ND	3	116	.5	2	2	120	1.68	.153	10	7	.85	52	.19	4	1.28	.04	.13	2	210
A 51672	1	937	2	31	.6	10	12	241	4.14	5	5	ND	4	91	.2	2	2	129	1.91	.150	10	8	.74	48	.19	5	1.41	.06	.14	1	62
RE A 51677	1	813	2	28	.3	9	14	235	4.29	2	5	ND	4	93	.2	2	2	137	1.57	.157	10	7	.72	67	.20	3	1.31	.06	.18	1	67
A 51673	1	917	3	28	.3	10	13	227	4.68	2	5	ND	4	101	.2	2	2	141	1.43	.157	10	9	.73	88	.20	8	1.32	.06	.23	1	51
A 51674	1	1144	4	30	.4	10	11	245	3.93	4	5	ND	4	99	.2	2	2	140	1.62	.158	10	8	.74	73	.20	6	1.30	.05	.18	1	105
A 51675	1	1684	3	33	.4	10	12	251	3.95	2	5	ND	3	110	.3	2	2	134	1.93	.172	10	8	.75	73	.20	8	1.30	.07	.20	1	104
A 51676	2	911	3	30	.3	10	13	236	3.97	3	5	ND	3	81	.2	2	2	126	1.77	.177	10	9	.73	65	.20	8	1.24	.06	.19	1	73
A 51677	1	810	2	28	.2	9	14	243	4.44	2	5	ND	4	94	.2	2	3	141	1.61	.161	10	8	.75	69	.20	6	1.35	.07	.17	1	64
A 51678	1	936	4	30	.3	10	19	274	4.22	3	5	ND	3	89	.2	2	3	132	1.66	.153	10	9	.85	66	.20	4	1.32	.05	.16	1	61
A 51679	1	1658	3	34	.5	10	15	229	3.96	2	5	ND	4	79	.4	2	2	128	1.63	.173	10	7	.66	67	.19	3	1.19	.05	.17	1	114
A 51680	1	942	4	34	.3	9	15	251	3.99	2	5	ND	4	117	.2	2	2	138	1.56	.179	10	9	.64	64	.19	6	1.31	.05	.15	1	63
A 51681	2	528	3	27	.4	9	14	258	4.10	5	5	ND	4	84	.2	2	2	132	1.38	.159	10	9	.74	52	.19	7	1.32	.06	.15	1	41
A 51682	1	601	3	35	.2	9	11	275	4.05	3	5	ND	4	72	.2	2	2	143	1.49	.164	10	9	.83	52	.19	5	1.28	.04	.14	1	86
A 51683	1	890	2	30	.3	10	12	280	3.94	4	5	ND	4	105	.2	2	2	136	1.83	.155	11	8	.74	52	.20	8	1.42	.05	.14	1	72
A 51684	1	1369	3	34	.5	10	14	265	3.77	8	5	ND	4	99	.2	2	2	120	1.67	.163	10	8	.82	49	.19	6	1.35	.06	.13	1	81
A 51685	4	1340	3	34	.4	8	13	282	3.97	6	5	ND	4	101	.3	2	3	130	1.75	.160	11	8	.77	47	.19	8	1.36	.06	.14	1	112
A 51686	2	1563	4	33	1.0	17	22	232	6.02	9	5	ND	3	116	.3	2	2	119	1.62	.142	9	8	.66	30	.18	4	1.13	.04	.10	1	54
A 51687	1	1311	5	36	.4	9	12	261	3.91	6	5	ND	4	103	.2	2	2	133	1.52	.160	10	9	.65	57	.20	6	1.20	.05	.15	1	51
A 51688	1	1703	3	42	.6	11	16	281	4.27	6	5	ND	4	65	.4	2	3	138	1.64	.161	10	11	.92	50	.22	5	1.33	.06	.18	1	112
A 51689	1	619	2	29	.2	14	14	300	4.13	2	5	ND	3	76	.2	2	2	134	1.61	.155	6	21	.85	28	.23	6	1.43	.06	.13	1	40
A 51690	1	1465	2	34	.7	12	15	280	3.65	5	5	ND	4	123	.3	2	2	109	1.57	.156	7	17	.85	30	.22	6	1.37	.05	.11	1	85
A 51691	3	1156	4	48	.7	16	20	473	4.68	9	5	ND	4	165	.2	2	2	119	2.90	.152	6	24	1.45	44	.19	5	1.81	.04	.18	1	82
STANDARD C/AU-R	19	64	38	137	7.1	76	31	977	4.17	41	24	8	40	53	18.7	17	21	61	.53	.097	39	59	.98	184	.09	35	1.95	.06	.14	11	510
STANDARD C	18	58	37	132	7.3	73	31	931	4.00	42	21	7	40	52	18.6	16	21	58	.51	.093	39	60	.93	182	.09	35	1.99	.06	.13	11	-

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51692	76	1225	10	51	1.4	7	12	537	4.10	8	5	ND	3	183	.5	2	2	128	3.68	.135	9	6	1.25	50	.12	4	1.44	.04	.14	1	107
A 51693	1	3323	2	68	2.5	11	18	354	4.33	10	5	ND	4	148	.6	2	2	105	2.20	.153	10	10	1.02	57	.19	8	1.36	.05	.17	1	820
A 51694	1	1868	4	55	1.4	18	18	299	4.67	9	5	ND	4	56	.4	2	2	142	1.50	.161	10	19	1.65	60	.28	5	1.65	.05	.48	1	380
A 51695	1	1164	3	41	.8	15	19	291	4.25	24	5	ND	3	64	.2	2	2	140	2.18	.158	12	19	1.55	79	.26	5	1.56	.05	.42	1	250
A 51696	1	3786	4	81	2.5	20	40	190	5.37	20	5	ND	3	45	1.1	2	2	93	1.77	.149	11	14	.82	46	.25	4	.91	.04	.22	1	610
A 51697	1	1504	5	51	.9	20	25	296	5.22	14	5	ND	3	61	.4	2	2	141	1.50	.162	10	21	1.55	63	.28	4	1.82	.06	.35	1	300
A 51698	1	843	5	52	.6	19	22	323	4.10	4	5	ND	3	98	.3	2	2	130	1.82	.162	9	19	1.60	95	.28	8	2.06	.07	.53	1	133
A 51699	1	992	4	45	.6	17	24	298	4.54	4	5	ND	3	70	.3	2	2	155	1.45	.163	9	15	1.65	95	.30	9	1.94	.07	.62	1	144
A 51700	1	1570	4	53	.9	18	23	299	4.32	17	5	ND	3	68	.4	2	2	141	1.33	.154	9	18	1.73	89	.30	7	2.02	.08	.67	1	270
A 51701	2	1471	2	39	.8	14	20	308	4.01	5	5	ND	3	68	.2	2	2	140	1.39	.153	9	15	1.83	124	.30	6	1.83	.06	.59	1	220
A 51702	1	3234	4	55	1.8	21	22	376	4.20	3	5	ND	3	76	.6	2	2	142	1.90	.162	10	31	2.15	142	.31	12	2.14	.08	.66	1	310
51703	1	1148	2	42	.8	10	21	305	5.23	17	5	ND	3	77	.2	2	2	152	1.93	.156	10	8	.97	67	.22	7	1.62	.07	.21	1	94
.1704	12	1125	2	42	.9	11	16	294	5.21	14	5	ND	4	82	.3	2	2	114	2.36	.144	9	7	.93	37	.18	5	1.49	.06	.15	1	390
A 51705	1	666	4	51	.3	8	10	333	4.13	3	5	ND	4	145	.2	2	2	152	2.09	.153	10	9	.64	58	.20	8	1.66	.07	.15	1	37
A 51706	2	520	3	38	.3	9	15	267	4.48	9	5	ND	4	92	.2	2	2	145	1.84	.148	10	8	.73	59	.19	10	1.48	.06	.20	1	57
A 51707	2	524	3	39	.3	7	17	295	4.78	3	5	ND	4	98	.2	2	2	155	2.08	.155	9	7	.71	67	.20	5	1.67	.08	.20	1	99
A 51708	1	1103	3	45	.4	10	13	260	4.71	2	5	ND	4	117	.2	2	2	177	1.81	.170	9	8	.53	87	.20	9	1.48	.07	.20	1	97
A 51709	1	585	3	45	.2	8	13	285	4.89	5	5	ND	4	125	.3	2	2	174	1.77	.163	9	8	.62	94	.21	7	1.57	.08	.22	1	52
A 51710	1	2029	2	44	1.2	15	15	311	4.18	2	5	ND	4	126	.3	2	2	119	1.79	.153	7	14	1.26	41	.22	6	1.67	.07	.16	1	410
A 51711	1	1147	2	40	.5	15	19	326	4.12	4	5	ND	2	115	.3	2	2	129	1.75	.165	8	16	1.31	79	.24	9	1.68	.07	.24	1	220
A 51712	1	1143	5	46	.6	15	20	471	4.68	7	5	ND	3	132	.6	2	2	149	4.88	.131	8	20	1.96	87	.22	5	2.05	.07	.21	1	87
A 51713	1	753	2	45	.5	16	17	375	4.94	2	5	ND	4	81	.2	2	2	157	1.90	.161	7	21	1.43	111	.29	7	1.71	.07	.30	1	124
A 51714	4	377	2	38	.2	16	15	353	4.95	4	5	ND	4	128	.2	2	2	163	2.09	.161	7	19	1.26	89	.28	7	1.91	.08	.22	1	46
A 51715	1	804	2	43	.3	13	16	342	4.24	5	5	ND	3	224	.2	2	2	131	2.11	.175	8	14	1.15	56	.24	8	1.79	.06	.16	1	126
A 51716	1	398	3	48	.1	15	15	400	4.93	2	5	ND	4	123	.2	2	2	160	1.95	.166	8	22	1.40	160	.28	9	1.99	.08	.35	1	48
A 51717	1	616	3	43	.3	14	16	551	4.78	2	5	ND	4	146	.2	2	2	157	2.87	.145	8	22	1.87	210	.25	20	1.72	.06	.40	1	270
A 51718	53	611	3	47	.5	15	17	627	4.87	12	5	ND	3	204	.3	2	2	166	4.09	.136	8	25	1.73	169	.17	14	1.63	.04	.38	1	49
RE A 51714	4	373	2	37	.2	15	14	334	4.76	2	5	ND	3	125	.2	2	2	161	1.97	.154	7	18	1.21	89	.27	10	1.82	.08	.21	1	43
A 51719	1	607	4	41	.3	13	17	356	4.60	2	5	ND	3	111	.2	2	2	146	1.66	.158	7	19	1.22	117	.26	9	1.66	.06	.27	1	45
A 51720	1	378	2	37	.1	12	16	361	4.78	4	5	ND	3	124	.2	2	2	157	1.68	.134	7	19	1.17	127	.27	7	1.65	.06	.23	1	34
A .721	1	444	3	35	.1	12	13	271	4.53	2	5	ND	3	102	.2	2	2	167	1.81	.154	8	12	.76	116	.23	7	1.51	.07	.22	1	46
A 51722	2	583	2	36	.3	12	15	305	4.83	7	5	ND	3	91	.2	2	2	165	1.98	.159	8	13	.86	88	.23	25	1.55	.07	.22	1	50
A 51723	1	358	4	40	.2	13	18	284	4.82	3	5	ND	4	98	.2	2	2	167	1.76	.160	8	11	.78	86	.24	6	1.54	.06	.19	1	35
A 51724	62	403	2	40	.4	12	29	348	5.03	4	5	ND	3	94	.2	2	2	158	2.00	.159	7	11	1.06	47	.23	7	1.70	.06	.15	1	51
A 51725	4	277	3	44	.2	15	24	365	5.50	6	5	ND	3	133	.2	2	2	167	2.04	.160	7	20	1.14	122	.26	7	1.70	.07	.25	1	30
A 51726	1	97	3	51	.1	14	15	395	4.99	2	5	ND	3	151	.2	2	2	164	1.77	.166	6	24	1.23	181	.28	7	1.70	.07	.32	1	5
A 51727	1	266	3	53	.1	17	26	405	6.19	6	5	ND	3	112	.2	2	2	176	1.44	.145	6	28	1.23	178	.28	10	1.70	.07	.35	1	11
STANDARD C/AU-R	18	58	38	132	7.3	71	32	997	3.90	39	18	7	40	53	18.4	14	19	58	.50	.091	40	60	.90	186	.09	35	2.00	.07	.14	11	540
STANDARD C	18	57	36	132	7.2	72	31	1011	3.94	38	18	7	40	52	18.5	15	18	57	.50	.093	39	60	.92	181	.09	35	1.95	.06	.13	11	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Received July 24/90 Chuchu

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700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
A 51728	27	179	2	8	.1	15	10	85	2.45	2	5	ND	2	44	.6	2	2	97	.48	.083	9	21	.90	44	.21	3	1.33	.06	.30	1	21
A 51729	16	291	2	11	.1	16	15	85	3.34	6	5	ND	2	29	1.0	2	2	110	.49	.078	9	21	1.06	40	.23	4	1.54	.07	.25	1	20
A 51730	25	235	112	12	.1	13	11	45	2.98	15	5	ND	4	33	.2	2	2	67	.03	.081	18	14	.56	51	.04	13	1.91	.03	.15	1	22
A 51731	29	172	2	8	.1	15	11	75	3.52	6	5	ND	4	47	.5	2	2	105	.36	.087	15	18	.77	56	.22	6	1.37	.06	.16	1	24
A 51732	11	182	2	12	.1	15	15	128	3.33	2	5	ND	2	33	.2	2	2	95	.54	.079	6	18	1.02	30	.18	7	1.22	.05	.09	1	23
A 51733	18	225	11	27	.1	15	21	115	3.48	6	7	ND	2	46	.5	2	2	85	.66	.086	7	17	.87	31	.16	6	1.11	.05	.10	1	39
A 51734	7	65	2	10	.1	15	9	123	2.43	4	5	ND	2	49	.2	2	2	96	.74	.087	6	21	1.12	35	.18	7	1.40	.07	.12	1	21
A 51735	16	99	2	7	.1	8	5	64	1.64	4	5	ND	1	36	.2	2	2	66	.58	.092	9	9	.46	9	.14	10	.88	.07	.04	1	32
A ''736	8	137	3	8	.1	17	12	82	2.18	3	5	ND	1	60	.3	2	2	75	.62	.083	7	16	.64	23	.14	6	.93	.07	.15	1	20
. 37	6	140	5	6	.1	19	12	73	1.98	4	5	ND	1	29	.3	2	2	61	.70	.089	6	17	.49	15	.13	4	.74	.06	.11	1	28
A 51738	41	160	2	7	.1	11	12	75	3.56	6	5	ND	3	28	.4	2	2	70	.91	.089	6	9	.51	17	.09	5	.94	.05	.12	1	68
A 51739	3	199	7	10	.1	10	10	94	3.63	4	5	ND	1	18	.3	2	2	60	1.01	.098	5	6	.42	12	.08	10	.83	.05	.06	1	92
A 51740	6	187	2	9	.1	10	8	82	1.95	2	5	ND	1	38	.3	2	2	73	.72	.092	13	10	.42	25	.11	8	.71	.05	.09	1	51
A 51741	42	128	2	7	.1	17	9	59	3.27	5	5	ND	2	56	.2	2	2	122	.53	.102	13	26	.53	44	.17	8	.86	.07	.16	1	16
A 51742	8	221	4	8	.1	23	17	82	2.81	6	5	ND	2	76	.2	2	2	100	.68	.086	9	24	.70	27	.17	5	1.04	.07	.26	1	26
A 51743	5	295	3	9	.1	20	18	118	3.66	4	5	ND	1	56	.3	2	2	61	1.48	.120	8	13	.43	18	.13	9	1.06	.06	.09	1	55
A 51744	3	305	5	11	.1	13	18	123	4.00	4	9	ND	1	46	.2	2	2	65	1.55	.145	6	11	.67	15	.11	9	1.28	.06	.08	1	37
A 51745	5	338	2	15	.1	16	14	157	4.16	6	5	ND	1	40	.2	2	2	81	1.32	.132	8	9	.91	5	.11	7	1.34	.05	.07	1	61
A 51746	2	193	2	13	.1	10	12	132	3.40	6	5	ND	1	32	.2	2	2	73	1.24	.140	10	9	.93	7	.10	6	1.30	.05	.06	1	45
A 51747	2	293	2	19	.1	17	18	168	4.40	9	5	ND	1	37	.6	2	2	96	1.09	.137	11	11	1.32	17	.11	5	1.54	.05	.11	1	50
A 51748	4	311	2	20	.1	12	16	169	3.98	9	5	ND	1	48	.8	2	2	93	1.71	.142	6	13	1.21	10	.13	5	1.68	.07	.15	1	81
A 51749	2	130	5	19	.1	16	15	178	3.92	6	5	ND	1	51	.7	2	6	88	1.80	.149	5	19	1.22	13	.14	9	1.57	.07	.17	1	42
A 51750	4	174	2	12	.1	15	12	126	3.15	8	6	ND	1	37	.4	3	2	73	1.37	.129	5	14	.92	17	.13	9	1.17	.05	.08	1	26
A 51751	18	85	4	8	.1	21	13	77	1.95	9	5	ND	1	34	.3	2	2	84	.79	.093	9	17	.68	15	.16	6	.77	.06	.06	1	34
A 51752	21	215	2	11	.2	14	18	118	3.43	10	5	ND	2	35	.4	2	4	82	1.02	.099	12	12	.70	30	.13	8	1.03	.05	.10	1	32
A 51753	21	381	5	14	.1	9	17	130	4.12	16	5	ND	1	41	.3	2	2	74	1.55	.109	9	6	.73	25	.09	8	1.17	.04	.08	1	50
' 754	37	195	2	11	.1	10	35	107	7.05	8	5	ND	1	47	.2	2	2	58	1.35	.108	7	5	.54	20	.09	10	1.05	.04	.09	1	46
. 755	24	213	2	11	.1	9	19	125	3.62	6	5	ND	1	55	.5	2	5	64	1.53	.114	10	6	.74	15	.09	5	1.23	.05	.07	1	59
A 51756	2	123	2	12	.2	8	13	128	2.82	7	5	ND	1	49	.3	3	2	60	1.42	.111	6	6	.68	15	.09	4	1.23	.05	.07	1	36
A 51757	2	118	2	10	.1	11	17	131	3.33	7	9	ND	1	69	.3	2	4	62	1.40	.111	7	6	.66	14	.10	6	1.23	.05	.08	1	24
A 51758	7	100	5	11	.1	12	13	149	4.05	2	5	ND	1	56	.2	2	6	70	1.41	.105	7	8	.77	21	.10	10	1.29	.05	.09	1	25
A 51759	54	188	4	11	.1	11	41	148	10.42	8	5	ND	1	67	.2	2	6	69	1.42	.120	9	7	.80	20	.11	7	1.19	.05	.09	1	87
A 51760	2	123	4	14	.1	11	19	177	4.36	3	6	ND	1	52	.5	2	5	96	1.27	.136	8	8	1.11	23	.14	9	1.41	.06	.17	1	25
A 51761	8	79	5	9	.1	27	16	74	3.40	19	7	ND	3	52	.6	3	6	125	.36	.078	4	28	1.36	51	.18	7	1.61	.08	.80	1	8
A 51762	3	110	7	13	.1	13	23	167	4.57	8	5	ND	1	67	.2	2	4	91	1.52	.161	9	15	1.29	12	.14	4	1.51	.06	.30	1	24
RE A 51758	6	96	4	11	.1	9	13	145	3.94	4	5	ND	1	54	.4	2	4	68	1.39	.102	7	8	.76	17	.10	7	1.24	.05	.09	1	25
A 51763	1	139	2	20	.3	11	22	176	4.85	7	5	ND	1	64	.2	2	5	74	1.85	.181	7	11	1.18	6	.12	4	1.58	.05	.08	1	29
STANDARD C/AU-R	20	58	41	131	7.2	74	32	1013	4.02	44	25	6	38	53	18.6	16	23	57	.50	.095	38	58	.93	177	.07	37	1.98	.06	.14	11	530
STANDARD C	19	57	42	132	7.3	73	32	1028	4.06	44	22	8	37	53	18.4	16	19	57	.52	.097	38	58	.95	182	.07	36	1.98	.06	.14	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 18 1990 DATE REPORT MAILED: July 23/90 SIGNED BY C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-2651

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51764	1	176	10	34	.3	17	15	221	5.03	12	5	ND	1	68	.9	2	3	97	1.82	.162	6	12	1.15	12	.15	6	1.67	.08	.17	1	30
A 51765	2	172	2	29	.2	13	14	247	5.61	7	7	ND	1	96	1.0	2	2	122	1.33	.180	8	13	1.59	36	.16	2	1.86	.09	.66	1	25
A 51766	43	194	6	14	.1	28	23	140	4.33	33	8	ND	1	84	.2	2	2	65	1.34	.105	10	13	.56	24	.13	6	.96	.06	.14	1	51
A 51767	40	182	2	15	.1	22	17	201	4.75	11	10	ND	1	118	.8	2	6	80	2.02	.135	16	13	.85	20	.15	6	1.50	.07	.10	1	20
A 51768	4	120	2	9	.1	20	17	117	2.82	8	5	ND	1	43	.2	2	2	58	1.28	.118	7	12	.48	21	.13	5	.96	.06	.09	1	11
A 51769	14	205	2	7	.1	33	15	82	2.47	49	5	ND	1	35	.2	2	2	72	1.03	.088	6	15	.46	24	.33	4	.56	.06	.08	1	43
A 51770	14	127	2	7	.2	24	6	88	1.37	6	5	ND	1	23	.3	2	2	53	1.04	.098	8	16	.29	16	.15	2	.60	.06	.04	1	16
A 51771	5	195	2	8	.1	31	18	133	3.95	14	5	ND	1	27	.2	2	2	67	.99	.099	6	27	.54	16	.13	4	.80	.05	.05	1	20
A 51772	13	65	2	6	.1	24	13	103	2.13	6	5	ND	1	23	.2	2	6	51	.82	.086	6	16	.34	21	.13	2	.49	.06	.09	1	12
A 51773	18	168	2	10	.1	25	12	121	2.65	48	5	ND	1	45	.2	3	2	101	1.39	.069	5	20	.77	36	.12	4	.85	.06	.16	1	39
' 74	8	104	3	11	.1	30	21	109	3.93	9	5	ND	1	27	.2	2	6	120	.81	.075	4	22	1.01	28	.14	8	1.00	.06	.26	1	12
A .75	13	204	2	7	.1	17	12	98	3.20	9	5	ND	1	41	.4	2	3	86	.92	.090	7	19	.67	30	.15	7	.84	.06	.14	1	32
A 51776	3	283	3	15	.1	12	16	127	4.05	4	5	ND	1	62	.2	2	6	60	1.53	.121	5	7	.84	24	.11	8	1.35	.04	.08	1	31
A 51777	6	229	4	15	.1	14	17	136	4.05	2	5	ND	1	80	.2	2	2	56	1.73	.123	6	7	.71	22	.11	11	1.25	.05	.08	1	33
A 51778	4	988	2	31	1.0	19	10	197	4.24	5	5	ND	1	75	.4	2	2	72	1.73	.128	8	13	1.20	18	.13	10	1.34	.05	.09	1	490
A 51779	9	225	3	17	.1	21	16	194	4.13	8	5	ND	1	64	.2	2	3	66	1.93	.130	9	17	.88	26	.15	7	1.25	.05	.09	1	95
A 51780	26	415	2	15	.1	15	16	171	4.81	14	5	ND	1	71	.4	2	5	61	1.49	.133	9	13	.90	21	.12	3	1.10	.04	.08	1	42
A 51781	13	301	3	13	.1	16	17	157	4.00	6	5	ND	1	61	.2	2	2	58	1.30	.125	7	12	.86	15	.12	6	1.04	.05	.07	1	46
A 51782	9	191	2	11	.1	22	12	173	2.73	11	5	ND	1	53	.2	2	2	89	1.61	.095	7	19	.88	18	.10	3	.71	.06	.08	1	43
A 51783	25	93	7	9	.6	17	10	291	1.98	29	5	ND	2	81	.2	4	2	42	3.44	.079	6	9	.30	20	.01	4	.43	.04	.06	1	20
A 51784	6	184	2	9	.1	24	19	164	3.34	3	5	ND	1	49	.2	2	2	72	1.49	.100	9	11	.70	26	.11	9	.68	.04	.05	1	33
A 51785	10	103	2	5	.1	26	12	75	1.77	5	5	ND	1	25	.2	2	2	61	.78	.085	8	14	.48	22	.14	4	.40	.06	.05	1	30
A 51786	10	121	2	9	.4	21	17	90	2.65	8	5	ND	1	27	.2	2	2	69	.83	.078	6	17	.61	17	.12	7	.54	.05	.06	2	28
RE A 51782	9	187	5	11	.1	23	13	175	2.72	7	5	ND	1	52	.2	2	2	89	1.64	.098	7	19	.90	22	.09	2	.70	.06	.07	1	39
A 51787	11	106	5	5	.1	23	19	86	3.00	4	5	ND	1	30	.2	2	2	63	.72	.084	8	17	.39	26	.14	7	.44	.05	.07	1	40
A 51788	10	112	6	5	.1	20	16	142	3.29	7	5	ND	1	44	.2	2	2	68	.95	.094	12	20	.50	32	.15	2	.62	.05	.07	1	26
A 51789	7	111	2	7	.1	15	15	108	2.56	15	5	ND	2	43	.2	2	2	63	1.02	.081	11	16	.64	21	.12	3	.66	.05	.08	1	24
A 51790	8	121	5	5	.1	21	17	104	2.32	4	5	ND	1	42	.2	2	2	52	.85	.079	10	13	.38	23	.12	2	.47	.05	.06	1	29
A 51791	5	138	2	12	.1	15	6	190	1.87	2	5	ND	1	52	.2	2	2	57	1.75	.100	8	20	.52	16	.13	4	.89	.05	.03	1	19
792	5	404	5	22	.3	27	10	227	3.51	7	5	ND	1	57	.6	3	2	72	1.72	.141	8	24	.73	13	.15	11	1.11	.06	.03	1	51
A 51793	23	71	3	5	.1	14	7	68	.91	13	5	ND	3	20	.2	2	2	30	.80	.080	11	7	.15	16	.13	12	.35	.06	.05	1	11
A 51794	38	50	2	3	.1	11	5	94	1.13	3	5	ND	2	18	.2	2	2	31	.70	.085	9	7	.09	18	.15	4	.23	.05	.05	1	8
A 51795	14	120	5	5	.1	24	13	191	2.36	2	5	ND	2	26	.2	2	2	48	.75	.080	10	13	.24	23	.13	6	.46	.05	.05	1	14
A 51796	11	97	7	5	.1	15	10	66	2.13	2	5	ND	1	42	.2	2	2	30	.78	.073	8	8	.21	28	.11	2	.46	.05	.05	1	10
A 51797	5	199	2	7	.1	17	16	97	2.58	3	5	ND	1	29	.2	2	2	39	.70	.087	13	7	.28	14	.12	6	.40	.05	.03	1	19
A 51798	5	237	2	4	.1	18	14	86	2.71	7	5	ND	3	36	.2	2	2	37	.81	.098	15	9	.09	17	.15	4	.21	.05	.04	1	23
A 51799	4	154	5	4	.2	12	7	79	1.59	2	5	ND	4	18	.2	3	2	37	.72	.107	11	7	.15	17	.13	2	.26	.05	.05	1	40
A 51800	2	244	3	4	.1	14	13	104	2.80	5	5	ND	3	17	.2	3	2	41	.73	.107	13	7	.25	14	.13	3	.37	.05	.06	1	52
STANDARD C/AU-R	20	61	40	139	7.3	72	31	1040	4.14	41	21	7	39	52	18.8	15	22	59	.52	.098	39	58	.94	182	.08	32	2.00	.06	.13	12	510
STANDARD C	19	57	42	132	7.2	73	30	1024	4.04	40	23	7	37	53	18.4	16	21	56	.51	.095	38	59	.94	181	.07	33	1.92	.06	.14	11	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

QHIDCHI

BP Resources Canada Ltd. PROJECT 540 File # 90-2775 Page 1

700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
51801	5	341	6	14	.1	8	7	88	2.07	2	5	ND	2	65	.2	2	2	47	.62	.051	10	7	.18	98	.11	6	1.11	.12	.22	1	12
51802	3	266	4	17	.1	8	7	84	3.14	3	5	ND	1	73	.2	2	2	64	.68	.054	10	7	.17	107	.11	4	1.10	.13	.22	1	12
51803	3	347	7	13	.1	9	6	96	3.67	13	5	ND	2	66	.2	2	2	70	.68	.060	11	7	.22	98	.11	6	1.08	.12	.21	1	18
51804	6	369	4	16	.1	8	9	147	4.46	9	5	ND	2	54	.2	2	2	81	.63	.070	10	6	.21	75	.11	5	1.15	.10	.17	1	39
51805	5	345	4	25	.1	11	9	156	5.28	8	5	ND	1	78	.2	2	2	134	.98	.101	11	7	.46	65	.19	4	1.39	.08	.16	1	31
51806	12	371	4	10	.2	9	6	79	3.47	2	7	ND	2	75	.2	2	2	81	.59	.088	10	6	.19	101	.12	6	1.03	.09	.27	1	28
51807	6	512	6	14	.1	9	9	86	2.43	11	9	ND	2	51	.2	2	2	52	.65	.066	9	6	.27	100	.10	5	.93	.12	.25	1	18
51808	16	313	3	12	.2	6	3	83	2.78	12	5	ND	3	64	.2	2	2	60	.56	.079	9	6	.21	113	.12	5	.97	.13	.27	1	55
51809	28	292	5	24	.1	10	12	195	5.98	19	5	ND	1	86	.2	2	2	149	1.21	.142	14	8	.45	84	.18	9	1.30	.11	.19	4	49
51810	2	176	5	25	.1	12	14	236	6.16	2	5	ND	1	119	.2	2	2	159	1.46	.145	9	9	.57	52	.15	7	1.44	.10	.15	1	2
51811	6	458	4	28	.1	11	17	255	5.09	17	5	ND	1	110	.2	2	2	134	1.38	.156	10	9	.81	47	.17	5	1.63	.10	.14	1	17
51812	3	787	5	27	.3	10	11	217	5.41	8	5	ND	1	110	.3	2	2	144	1.77	.218	12	11	.69	58	.16	8	1.66	.12	.17	1	55
51813	2	195	4	31	.1	11	15	252	4.81	5	5	ND	1	113	.4	2	2	144	1.57	.162	9	9	.92	65	.20	7	1.69	.12	.19	1	5
51814	2	205	5	26	.1	14	16	262	7.41	8	5	ND	1	115	.4	2	2	236	1.68	.262	13	10	.73	55	.16	6	1.55	.09	.17	1	5
51815	2	282	5	36	.1	14	21	280	6.11	7	5	ND	1	80	.3	2	2	167	1.64	.169	10	10	.97	43	.20	8	1.83	.11	.13	1	17
51816	129	3360	6	45	2.8	17	52	281	6.48	15	5	2	1	84	.8	2	3	110	1.39	.161	14	7	.80	61	.18	8	1.54	.10	.17	2	730
51817	19	1931	5	43	2.4	17	32	169	4.52	7	7	2	2	103	.3	3	2	91	.95	.110	10	11	.66	92	.17	14	1.31	.14	.20	1	320
51818	12	770	4	20	.4	13	21	139	2.73	7	5	ND	1	57	.2	2	2	69	.69	.099	11	14	.82	66	.17	7	1.30	.18	.16	1	56
51819	5	492	3	16	.3	7	19	109	2.55	4	5	ND	3	17	.2	2	2	59	.22	.058	10	6	.67	71	.03	6	.93	.09	.18	1	44
51820	4	464	2	11	.2	10	31	204	2.15	29	6	ND	2	45	.2	2	2	10	1.93	.059	7	4	.08	57	.01	10	.46	.05	.17	1	12
51821	3	130	5	16	.1	9	13	230	3.44	11	5	ND	1	65	.2	2	2	86	2.64	.108	10	14	.83	59	.11	8	1.16	.08	.16	1	9
51822	2	191	5	9	.1	15	23	174	5.01	2	5	ND	1	62	.2	2	5	73	1.53	.124	7	12	.81	65	.13	5	1.12	.11	.19	1	14
51823	2	95	4	8	.1	8	14	192	2.95	14	5	ND	1	88	.2	2	2	53	3.41	.088	8	7	.55	44	.06	9	.84	.05	.19	1	14
51824	9	114	3	16	.1	13	18	255	4.11	11	5	ND	1	101	.2	2	2	103	2.75	.143	9	14	1.21	43	.12	8	1.56	.09	.15	1	10
51825	4	123	4	11	.1	13	14	194	3.89	6	5	ND	1	82	.2	2	2	91	1.63	.151	9	13	1.04	68	.18	9	1.54	.13	.19	1	9
51826	2	122	4	9	.1	13	12	116	2.75	2	6	ND	1	69	.2	2	2	63	1.44	.145	8	10	.56	69	.17	8	1.21	.11	.16	1	5
RE 51823	2	98	5	8	.1	9	14	199	3.04	11	5	ND	1	91	.2	2	2	55	3.55	.094	8	9	.57	46	.06	8	.86	.05	.20	1	16
51827	1	166	3	9	.1	12	13	99	3.26	3	5	ND	1	55	.2	2	2	49	1.36	.128	6	8	.52	64	.15	8	1.10	.10	.15	1	8
51828	6	125	4	11	.1	12	22	150	4.11	7	5	ND	1	61	.2	2	2	84	1.20	.122	6	13	.99	86	.16	4	1.32	.15	.17	1	13
51829	10	229	4	8	.1	10	29	122	3.91	9	5	ND	1	63	.2	2	2	69	2.56	.138	4	11	.58	47	.11	3	.85	.10	.17	1	30
51830	4	123	4	6	.1	11	15	86	2.34	5	5	ND	1	68	.2	2	2	63	1.37	.146	5	11	.58	68	.16	9	1.01	.15	.22	1	19
51831	38	295	3	9	.2	13	18	136	2.42	8	5	ND	1	71	.2	2	2	91	2.79	.099	5	19	.99	38	.11	6	.94	.09	.18	1	29
51832	24	366	3	9	.1	19	28	78	4.19	6	5	ND	2	42	.2	2	3	80	1.12	.073	6	14	.82	34	.12	7	.90	.15	.20	1	38
51833	37	480	3	15	.2	20	36	78	5.00	2	5	ND	2	47	.2	3	4	109	.78	.090	5	32	1.00	35	.17	6	1.09	.13	.31	1	23
51834	76	1669	3	22	.6	23	26	98	3.15	11	5	ND	2	161	.3	2	2	103	.94	.085	7	22	1.05	72	.17	5	1.31	.20	.35	1	75
51835	6	531	2	10	.3	21	22	98	3.39	8	5	ND	1	81	.2	2	3	53	1.35	.117	5	11	.58	45	.14	11	1.03	.16	.13	1	42
51836	16	246	5	11	.2	17	25	131	3.30	3	7	ND	1	102	.2	2	2	59	1.59	.117	6	13	.84	65	.15	6	1.47	.20	.13	1	26
STANDARD C/AU-R	20	62	40	139	7.2	75	30	982	4.19	41	19	8	40	51	18.8	19	22	61	.53	.097	39	60	.99	183	.09	36	1.97	.06	.15	11	490
STANDARD C	18	58	38	132	7.1	70	31	933	3.98	41	15	7	37	48	18.5	15	20	57	.51	.092	38	58	.94	181	.09	35	1.98	.06	.14	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 23 1990 DATE REPORT MAILED: July 26/90 SIGNED BY. C Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
51837	6	184	2	12	.1	18	23	181	3.28	11	5	ND	1	97	.2	2	2	47	2.33	.098	5	9	.86	40	.09	5	1.02	.06	.05	1	21
51838	1	76	2	9	.1	15	11	199	2.61	9	8	ND	2	69	.2	2	2	65	1.86	.100	6	13	1.02	35	.10	7	1.05	.05	.07	1	6
51839	10	216	4	12	.1	9	19	215	4.22	13	6	ND	1	79	.2	2	2	91	2.29	.109	6	8	1.10	34	.07	2	1.04	.03	.07	1	32
51840	21	458	15	17	.4	10	25	220	5.10	22	8	ND	2	67	.2	2	2	189	2.77	.108	6	4	.78	20	.04	8	.94	.02	.14	1	37
51841	7	201	2	13	.1	16	17	186	3.96	23	5	ND	1	49	.2	3	2	68	1.63	.096	5	13	1.12	34	.11	2	1.00	.05	.06	1	49
51842	70	730	20	23	1.3	17	23	226	4.53	31	5	ND	2	77	.3	3	2	77	2.51	.095	4	13	.96	32	.08	7	.91	.04	.07	1	136
51843	10	317	3	14	.2	18	21	202	3.26	16	6	ND	2	189	.2	2	2	60	2.55	.098	6	12	.83	68	.08	4	.93	.04	.10	1	116
51844	24	484	2	11	.2	14	9	136	3.09	2	5	ND	1	70	.2	2	2	78	1.28	.099	4	16	.47	46	.11	3	.79	.04	.06	1	28
51845	13	787	3	13	.5	15	20	139	2.96	5	6	ND	1	61	.2	2	2	50	1.26	.097	3	12	.57	23	.11	2	.79	.05	.05	1	25
51846	45	2996	5	37	1.4	15	29	183	2.95	7	5	ND	1	224	1.1	2	2	101	2.28	.097	5	11	.79	67	.11	2	.90	.06	.07	1	148
51847	10	358	2	14	.1	14	14	188	2.79	7	7	ND	2	48	.2	2	2	64	2.02	.097	5	12	.75	26	.12	3	.92	.07	.08	1	36
51848	1	75	3	10	.1	12	13	168	2.71	8	5	ND	1	76	.2	2	2	62	1.81	.099	4	12	.65	20	.11	6	.93	.06	.07	1	8
[illegible]9	11	149	2	11	.1	13	12	146	2.62	6	5	ND	2	43	.2	2	2	63	1.41	.103	4	13	.64	28	.13	4	.98	.07	.08	1	14
5[illegible]50	4	143	2	10	.1	13	11	133	2.49	6	5	ND	1	68	.2	2	2	61	1.30	.100	4	12	.56	27	.12	4	.94	.06	.07	1	15
51851	1	108	2	7	.1	14	14	137	2.73	2	5	ND	1	287	.2	2	2	62	1.31	.098	5	12	.43	60	.13	4	1.13	.07	.08	1	7
51852	2	185	3	6	.1	15	16	99	2.82	4	5	ND	1	71	.2	2	2	40	1.25	.099	4	7	.32	29	.12	3	.90	.06	.07	1	12
51853	7	224	3	7	.1	15	18	98	3.57	2	5	ND	1	59	.2	2	2	50	.94	.088	4	11	.59	22	.13	16	.71	.06	.07	1	18
51854	8	492	4	14	.1	11	23	142	3.65	3	5	ND	1	69	.2	2	2	59	1.90	.104	5	7	.68	32	.12	5	.87	.05	.08	1	29
51855	2	297	4	14	.1	9	19	135	3.32	2	5	ND	1	66	.2	2	2	62	1.50	.105	5	7	.65	30	.11	2	1.03	.05	.09	1	25
51856	11	445	3	14	.1	7	14	147	3.14	2	5	ND	1	88	.2	2	2	67	1.49	.109	5	6	.59	43	.14	4	.98	.06	.10	1	26
51857	4	441	4	9	.1	13	30	119	4.57	6	5	ND	1	68	.2	2	2	36	1.62	.097	4	11	.54	25	.13	2	.61	.05	.07	1	28
51858	28	590	4	9	.2	9	20	96	3.27	2	5	ND	1	43	.2	2	2	40	2.19	.099	5	5	.34	29	.13	5	.54	.05	.06	1	96
51859	5	303	4	6	.1	11	14	78	3.08	3	5	ND	1	39	.2	2	2	27	1.30	.097	5	5	.24	30	.14	2	.47	.06	.09	1	27
51860	10	685	4	21	.6	8	17	123	3.01	4	6	ND	2	60	.2	2	2	36	1.15	.097	5	5	.58	47	.14	2	.64	.08	.12	1	72
51861	7	245	4	11	.1	9	18	109	3.43	2	5	ND	1	42	.2	2	2	21	1.41	.098	4	5	.35	26	.12	3	.43	.05	.06	1	29
51862	156	1968	5	17	1.1	11	27	264	4.07	6	5	ND	1	43	.5	2	2	32	2.23	.087	5	5	.23	21	.11	2	.41	.05	.06	43	620
51863	17	1262	2	15	.8	11	34	118	4.19	7	5	ND	1	39	.4	2	2	29	1.21	.092	5	4	.19	22	.12	2	.36	.04	.06	1	143
51864	41	949	3	12	.5	8	37	82	3.44	4	5	ND	2	37	.2	2	2	33	1.12	.103	5	3	.17	20	.12	3	.35	.05	.06	1	90
51865	75	2966	3	36	2.0	9	23	231	2.25	4	5	ND	2	32	.7	2	2	65	2.04	.074	4	8	.45	40	.13	2	.65	.04	.15	2	550
RE 51862	157	1994	5	18	1.2	11	27	264	4.13	7	5	ND	2	45	.5	2	2	33	2.24	.090	5	5	.23	20	.12	3	.42	.05	.06	40	630
[illegible]6	17	337	3	15	.2	8	18	99	1.43	2	5	ND	3	25	.2	2	2	30	.74	.036	4	8	.44	28	.08	5	.47	.06	.09	2	49
5[illegible]67	34	1225	5	15	.5	13	60	226	4.20	8	5	ND	3	32	.2	2	2	34	1.79	.044	5	7	.39	26	.09	2	.56	.05	.09	2	128
51868	13	546	4	19	.1	12	9	116	2.66	6	5	ND	3	38	.2	2	2	83	.91	.140	7	13	.64	34	.16	2	.76	.06	.15	1	117
51869	12	763	4	11	.2	9	11	154	1.85	2	6	ND	3	46	.2	2	2	59	.99	.074	6	8	.45	38	.13	3	.56	.06	.16	1	53
51870	7	326	3	13	.1	13	16	122	2.63	2	5	ND	3	83	.2	2	2	53	.81	.076	5	12	.72	44	.13	2	.89	.08	.22	1	36
51871	8	787	7	20	.3	18	32	147	4.36	2	5	ND	1	66	.2	2	2	71	1.28	.148	6	12	.95	11	.13	2	1.21	.07	.09	1	68
51872	34	1116	4	23	.6	15	24	132	3.20	2	5	ND	1	81	.2	2	2	57	1.35	.145	5	10	.82	17	.12	2	1.08	.06	.07	1	280
STANDARD C/AU-R	18	59	38	130	7.2	70	30	1000	3.88	39	21	7	40	52	18.5	15	18	55	.47	.088	37	56	.88	177	.08	32	1.90	.05	.13	11	480
STANDARD C	18	58	42	136	7.2	71	31	1017	3.97	39	19	7	39	53	18.4	16	18	57	.51	.091	38	59	.93	181	.09	34	1.98	.06	.13	11	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
51873	2	533	3	15	.2	16	24	147	2.94	2	5	ND	1	108	.2	2	2	65	1.78	.145	6	14	.88	24	.14	4	1.67	.26	.14	1	30
51874	24	7425	5	93	6.3	42	115	206	7.92	12	5	ND	1	97	2.0	2	2	87	1.40	.114	6	14	1.07	48	.12	7	1.47	.22	.24	1	1700
51875	6	1559	4	36	.2	11	10	400	4.08	4	5	ND	2	192	.4	2	2	139	1.50	.136	8	13	1.53	193	.23	3	2.05	.15	1.17	1	156
51876	2	739	5	37	.1	12	21	528	4.77	9	5	ND	2	131	.3	2	2	154	2.15	.149	8	19	1.51	112	.24	5	2.00	.11	.95	1	61
51877	7	2087	6	35	.4	13	25	341	4.32	15	5	ND	3	96	.4	2	2	140	1.50	.135	9	11	1.62	169	.21	3	2.01	.13	1.22	1	54
51878	4	1134	6	28	.2	14	11	388	4.48	10	5	ND	3	105	.5	2	2	153	1.65	.136	10	11	1.78	161	.22	4	2.08	.10	1.18	1	76
51879	1	2319	5	28	.6	13	14	456	6.07	9	5	ND	3	235	.6	2	2	214	3.15	.109	7	8	1.28	83	.11	6	1.44	.05	.64	1	95
51880	1	1035	5	30	.1	11	12	410	5.10	8	5	ND	2	99	.4	2	2	190	2.18	.129	9	9	1.60	165	.20	8	1.97	.07	1.09	1	37
51881	1	1409	7	34	.1	14	19	375	4.49	6	5	ND	1	104	.4	2	2	152	1.34	.124	8	10	1.76	232	.25	4	2.10	.14	1.24	1	111
51882	1	1620	4	32	.3	13	18	348	3.76	2	5	ND	2	103	.5	2	2	116	1.65	.126	7	11	1.54	213	.22	4	1.83	.12	.95	1	98
51883	1	1037	6	27	.2	13	16	364	3.78	2	5	ND	1	102	.2	2	2	120	2.17	.125	7	9	1.55	219	.23	6	1.93	.12	1.06	1	61
RE 51887	1	3256	4	31	.6	13	14	343	4.19	9	5	ND	1	126	.4	2	2	108	2.25	.130	23	8	1.34	106	.08	4	1.45	.03	.70	1	270
34	2	898	5	29	.2	13	18	393	4.17	4	5	ND	2	113	.3	2	2	122	1.93	.148	11	10	1.84	191	.24	3	1.94	.10	1.17	1	69
.885	1	1287	7	35	.3	13	13	376	4.12	2	5	ND	2	90	.2	2	2	139	1.12	.147	10	11	2.02	214	.26	5	2.14	.14	1.50	1	89
51886	1	1486	5	32	.3	11	11	399	4.04	6	5	ND	2	150	.4	2	2	127	2.37	.121	10	12	1.53	175	.15	6	1.56	.06	.78	1	59
51887	1	3311	4	33	.7	15	15	362	4.39	11	5	ND	2	128	.4	2	2	110	2.38	.137	24	9	1.41	113	.09	7	1.53	.03	.72	1	247
51888	1	1887	4	31	.3	10	11	424	3.74	18	5	ND	2	172	.3	5	2	112	2.52	.127	16	7	1.60	144	.10	8	1.47	.05	.55	1	66
51889	2	3025	4	30	.3	12	16	423	3.78	200	5	ND	1	199	.3	51	2	111	2.48	.112	12	8	1.64	183	.11	13	1.37	.05	.60	1	220
51890	29	2807	2	27	.4	12	13	450	3.51	58	5	ND	1	213	.5	11	2	90	2.97	.097	11	7	1.49	167	.08	9	1.28	.03	.47	1	330
51891	6	1554	3	29	.1	12	13	415	4.28	4	5	ND	1	99	.4	2	2	153	1.83	.085	5	10	1.70	176	.24	2	1.70	.07	1.01	1	156
51892	2	919	5	27	.1	10	16	395	3.92	2	5	ND	1	79	.2	2	2	121	1.53	.120	7	9	1.78	119	.25	4	1.68	.06	.92	1	41
51893	1	592	3	22	.2	11	9	377	3.79	2	5	ND	2	108	.2	2	2	126	2.52	.111	9	10	1.27	76	.16	5	1.55	.06	.31	1	27
51894	1	2015	6	26	.4	11	14	344	3.56	2	6	ND	2	95	.2	2	2	125	2.10	.122	8	11	1.35	108	.22	5	1.65	.08	.41	1	81
51895	1	847	4	18	.2	12	12	305	3.67	5	5	ND	2	89	.2	2	2	119	2.03	.112	8	11	1.10	85	.19	8	1.56	.09	.31	1	14
51896	1	565	4	20	.3	10	14	465	4.32	5	5	ND	2	301	.2	2	2	102	2.82	.097	10	8	1.59	109	.08	8	1.35	.06	.43	1	34
51897	2	1183	4	28	.5	11	10	450	3.52	20	5	ND	2	303	.2	130	2	87	2.47	.107	10	9	1.80	118	.14	12	1.51	.05	.75	1	33
51898	1	931	3	25	.2	11	12	461	3.80	6	5	ND	1	277	.2	4	2	79	2.34	.127	11	9	1.72	127	.11	11	1.46	.05	.54	1	35
51899	1	1662	3	21	.1	9	12	458	3.75	2	5	ND	1	362	.2	12	2	62	2.85	.112	10	5	1.34	214	.03	8	.87	.03	.36	1	110
51900	1	1591	2	24	.4	11	14	474	3.82	7	5	ND	1	200	.3	6	2	96	3.08	.107	9	8	1.37	190	.10	6	1.24	.05	.42	1	109
51901	1	2165	6	27	.5	13	16	350	3.50	7	5	ND	1	97	.2	2	2	103	2.25	.130	8	9	1.24	168	.19	8	1.60	.10	.42	1	220
02	1	1372	3	24	.5	11	13	311	4.06	6	6	ND	1	74	.2	2	2	128	1.68	.137	7	10	1.17	145	.20	4	1.44	.08	.47	1	105
51903	1	367	6	17	.4	11	12	272	3.44	5	6	ND	2	78	.2	2	2	112	1.73	.119	7	10	.98	120	.19	4	1.56	.11	.37	1	25
51904	4	551	6	17	.5	12	17	265	3.45	10	8	ND	1	77	.2	2	2	103	1.47	.110	6	10	1.09	121	.19	6	1.65	.12	.42	1	43
51905	2	509	6	19	.4	12	15	273	3.62	7	6	ND	1	76	.2	2	2	110	1.57	.120	6	10	1.07	124	.20	5	1.64	.11	.42	1	28
51906	1	417	5	23	.3	12	12	307	3.50	6	5	ND	1	91	.2	2	2	103	1.62	.124	6	12	1.26	96	.19	6	1.77	.12	.29	1	36
51907	6	854	2	21	.3	10	8	304	2.90	11	5	ND	1	160	.2	2	2	95	2.63	.101	7	9	1.04	68	.17	3	1.35	.08	.26	1	37
51908	1	541	4	24	.4	11	11	344	3.24	4	8	ND	2	133	.2	2	3	95	1.47	.127	6	11	1.29	141	.20	6	1.58	.08	.49	1	34
STANDARD C/AU-R	18	58	36	122	7.2	69	30	950	3.69	39	17	7	41	48	18.5	15	19	56	.46	.088	38	57	.85	169	.08	32	1.84	.06	.17	12	460
STANDARD C	18	57	40	132	7.1	72	31	988	3.86	42	15	7	37	50	18.7	15	18	59	.50	.094	39	59	.90	182	.09	37	1.93	.06	.13	13	-

BP Resources Canada Ltd. PROJECT 540 FILE # 90-2775

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
51909	3	343	3	22	.1	8	5	387	3.57	4	5	ND	2	121	.3	2	2	104	2.46	.133	7	11	1.27	86	.17	6	1.53	.09	.33	1	19
51910	6	1196	3	25	.2	10	13	333	3.42	7	5	ND	2	93	.3	2	2	106	1.93	.124	7	10	1.12	103	.18	11	1.53	.08	.43	1	60
51911	29	973	2	25	.1	9	12	274	3.51	2	5	ND	2	105	.2	2	2	91	1.28	.088	5	11	1.05	59	.15	4	1.12	.07	.27	1	28
51912	2	1510	2	22	.2	9	20	253	4.95	6	5	ND	2	95	.5	2	2	146	1.59	.118	6	10	.77	50	.12	2	1.08	.06	.20	1	118
51913	2	1983	5	30	.3	8	15	284	3.21	2	5	ND	3	116	.4	2	2	90	1.26	.093	5	10	1.06	59	.14	3	1.19	.06	.31	1	128
51914	3	1443	2	25	.4	8	7	271	2.65	5	6	ND	2	118	.3	2	2	71	1.21	.041	3	11	1.08	69	.13	3	1.26	.06	.25	1	107
51915	1	1450	6	27	.5	8	8	356	4.38	12	5	ND	1	116	.5	2	2	114	2.98	.076	6	12	1.15	53	.12	4	1.49	.07	.25	1	200
51916	1	2472	2	34	.8	7	12	305	3.42	8	5	ND	2	212	.5	2	2	103	2.35	.101	5	11	1.05	86	.12	2	1.28	.06	.17	1	240
51917	1	1304	2	20	.2	8	12	222	3.24	9	5	ND	2	159	.5	2	2	88	1.71	.090	5	10	.63	60	.12	4	1.09	.08	.18	1	76
51918	1	1024	2	21	.1	9	10	245	2.94	3	5	ND	2	265	.3	2	2	72	1.54	.078	4	10	.88	91	.14	6	1.22	.08	.37	1	60
51919	1	850	3	27	.1	10	9	317	3.62	5	5	ND	2	129	.3	2	2	108	1.60	.137	7	14	1.21	63	.20	7	1.51	.09	.51	1	38
51920	5	792	3	18	.2	11	19	219	3.05	5	5	ND	3	124	.3	2	2	56	1.00	.113	6	11	.93	45	.16	4	1.03	.07	.41	1	28
21	6	1073	2	21	.1	11	15	269	3.52	3	5	ND	3	82	.2	2	2	81	.93	.126	6	14	1.21	60	.20	3	1.31	.07	.68	1	35
922	2	862	2	22	.2	11	17	303	3.94	5	5	ND	2	159	.3	2	2	122	.99	.112	6	14	1.37	72	.21	4	1.47	.07	.87	1	17
51923	1	848	2	21	.1	12	16	312	3.82	3	5	ND	3	106	.3	2	2	106	1.23	.137	7	14	1.31	98	.20	4	1.39	.07	.66	1	41
51924	2	303	3	18	.1	11	10	278	3.32	4	5	ND	3	78	.2	2	2	106	1.58	.137	7	14	.99	85	.18	4	1.32	.08	.47	1	15
51925	3	472	4	17	.1	10	20	231	3.59	2	5	ND	3	105	.2	2	2	109	1.63	.119	6	14	.74	63	.14	5	1.20	.09	.23	1	31
51926	1	631	4	21	.1	10	13	255	3.50	2	5	ND	3	83	.2	2	2	106	1.49	.133	7	13	.80	86	.16	3	1.15	.08	.36	1	12
RE 51922	1	846	2	20	.1	11	16	289	3.78	6	5	ND	2	157	.3	2	2	120	.95	.107	6	13	1.32	77	.20	3	1.44	.08	.85	1	16
51927	42	2114	4	29	.3	9	11	302	2.48	4	5	ND	3	87	.4	2	2	67	1.95	.111	6	12	.99	64	.17	2	1.08	.08	.66	1	49
51928	6	2307	4	26	.2	11	11	248	2.47	4	5	ND	3	58	.4	2	2	66	1.39	.120	6	13	.98	65	.20	3	1.04	.08	.61	1	88
51929	2	2989	2	32	.4	12	18	274	3.71	7	5	ND	3	71	.5	2	2	96	1.71	.134	7	13	.99	84	.18	3	1.12	.08	.62	1	74
51930	11	1588	4	22	.3	10	14	255	3.21	7	8	ND	4	66	.4	2	2	95	1.33	.126	7	12	1.03	79	.18	3	1.07	.08	.65	1	99
STANDARD C/AU-R	20	63	39	132	7.3	72	31	1042	4.03	40	18	8	40	52	19.0	17	22	60	.49	.097	39	59	.93	185	.08	40	1.97	.07	.15	12	510
STANDARD C	19	59	38	132	7.2	73	30	999	3.91	40	19	6	40	52	18.7	15	22	59	.50	.094	40	59	.91	183	.09	37	1.95	.06	.14	12	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

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700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51931	2	183	6	15	.1	14	13	152	4.21	4	5	ND	1	69	.2	2	2	65	1.55	.102	8	13	.78	17	.21	9	1.69	.07	.10	1	11
A 51932	7	158	9	11	.1	12	14	159	3.82	9	5	ND	2	61	.2	2	2	78	1.36	.110	7	13	.94	23	.22	13	1.74	.08	.19	1	13
A 51933	2	187	12	13	.2	14	15	140	4.17	7	5	ND	1	77	.2	2	2	57	1.74	.109	8	10	.70	19	.22	7	1.65	.09	.10	1	14
A 51934	4	296	6	13	.2	13	17	156	4.12	6	5	ND	1	70	.2	2	2	68	1.66	.110	8	11	.93	24	.22	10	1.70	.08	.20	1	15
RE A 51939	6	271	8	19	.3	17	20	277	5.39	26	5	ND	2	46	.2	3	3	104	1.26	.126	7	16	1.49	28	.23	8	1.75	.08	.13	2	23
A 51935	8	309	7	16	.1	14	18	154	3.92	4	5	ND	1	57	.2	2	2	54	1.94	.108	7	11	.85	19	.19	12	1.84	.07	.08	2	17
A 51936	8	233	9	13	.1	13	11	150	4.26	3	5	ND	1	58	.2	2	2	56	1.92	.102	6	10	.90	19	.18	10	1.89	.08	.07	2	14
A 51937	10	228	8	17	.1	12	12	203	4.52	6	5	ND	2	63	.2	3	2	84	1.63	.109	8	15	1.31	24	.22	11	1.91	.07	.29	1	14
A 51938	5	153	6	12	.1	22	14	151	4.07	3	5	ND	3	40	.2	3	2	88	1.24	.120	11	19	.91	35	.23	6	1.36	.08	.25	1	16
A 51939	6	266	6	18	.1	17	19	264	5.21	30	5	ND	1	45	.2	3	2	102	1.23	.122	7	17	1.45	26	.23	8	1.69	.07	.12	2	23
A 51940	3	549	6	17	.1	17	13	216	4.21	14	5	ND	2	40	.2	3	2	124	1.73	.124	9	17	1.57	27	.24	12	1.94	.06	.28	2	26
A 51941	3	247	4	13	.1	17	12	174	3.70	11	5	ND	2	92	.2	5	2	101	2.21	.107	11	16	1.11	41	.16	14	1.34	.06	.29	1	13
A 51942	20	473	4	15	.1	14	16	210	3.91	4	9	ND	2	507	.2	4	2	123	1.85	.128	9	17	1.63	73	.26	8	1.97	.06	.39	2	29
A 51943	12	237	4	17	.2	16	15	212	3.88	2	5	ND	2	39	.2	3	2	115	1.30	.119	7	18	1.62	35	.24	10	1.78	.08	.52	2	15
A 51944	3	168	6	11	.1	14	11	150	3.23	4	5	ND	1	57	.2	3	2	72	1.85	.125	7	14	.98	24	.24	6	1.78	.08	.18	2	11
A 51945	4	154	7	11	.1	16	9	144	3.06	7	5	ND	1	46	.2	2	2	63	1.51	.109	7	14	.85	22	.21	11	1.43	.07	.21	1	12
A 51946	5	253	4	17	.1	13	13	208	4.03	7	5	ND	1	49	.2	4	2	78	1.45	.087	6	13	1.30	28	.24	14	1.82	.09	.36	1	18
A 51947	12	176	4	16	.1	16	14	197	3.50	9	5	ND	1	43	.2	2	3	73	1.37	.099	7	16	1.13	19	.21	13	1.44	.07	.18	1	13
A 51948	3	112	4	14	.1	12	9	183	3.06	7	5	ND	1	65	.2	3	2	53	1.64	.077	7	13	.98	22	.19	11	1.66	.07	.08	1	10
A 51949	5	154	5	14	.1	11	12	189	3.27	6	5	ND	1	74	.2	2	3	56	1.30	.078	7	12	1.05	22	.18	12	1.38	.07	.08	1	24
A 51950	5	130	5	15	.1	12	11	185	3.41	7	5	ND	1	122	.2	3	2	53	1.45	.086	6	13	1.00	24	.19	7	1.47	.06	.14	1	10
A 51951	7	236	5	17	.1	10	15	188	4.56	5	5	ND	1	171	.2	2	2	61	1.33	.102	8	8	1.06	30	.19	7	1.45	.07	.20	2	18
A 51952	7	396	5	18	.1	12	19	198	4.65	4	5	ND	1	64	.2	2	2	71	1.31	.084	8	14	1.26	35	.23	7	1.66	.07	.44	1	20
A 51953	48	205	5	14	.1	10	16	181	4.51	5	5	ND	1	89	.2	2	2	75	1.24	.115	7	10	1.00	30	.21	12	1.33	.06	.38	1	16
A 51954	21	355	4	16	.1	11	24	196	6.18	3	5	ND	1	42	.2	2	2	148	1.18	.128	7	12	1.27	29	.27	4	1.60	.07	.62	1	27
A 51955	2	403	2	14	.1	13	17	168	4.96	7	5	ND	1	46	.2	2	2	107	1.21	.165	10	7	1.08	27	.22	8	1.41	.06	.47	1	27
A 51956	4	320	3	13	.1	11	20	163	4.94	10	5	ND	1	46	.2	2	2	85	1.27	.138	10	10	.87	25	.19	7	1.22	.06	.21	1	24
A 51957	10	475	5	14	.1	10	25	167	4.99	15	5	ND	1	48	.2	4	2	84	1.17	.101	7	12	1.02	24	.20	7	1.30	.05	.30	1	75
51958	21	322	5	15	.2	14	19	179	4.73	2	5	ND	1	61	.2	2	2	112	1.61	.161	8	14	1.18	29	.23	8	1.62	.06	.35	1	23
A 51959	3	118	5	20	.1	12	11	163	3.73	9	5	ND	1	73	.2	2	2	103	1.56	.142	10	15	1.22	27	.24	15	1.70	.08	.42	1	14
A 51960	10	178	4	16	.1	15	13	140	3.21	3	5	ND	1	42	.2	2	2	95	1.03	.105	9	17	1.06	30	.23	10	1.30	.09	.42	1	22
A 51961	17	166	4	14	.1	18	12	144	3.03	6	5	ND	1	69	.2	2	3	121	1.00	.093	8	24	1.21	38	.24	5	1.40	.08	.44	1	17
A 51962	6	79	3	13	.1	22	7	139	2.67	7	5	ND	2	124	.2	2	2	122	1.14	.104	11	31	1.16	30	.26	3	1.49	.10	.43	1	14
A 51963	8	340	4	15	.1	11	18	140	4.44	7	5	ND	1	69	.2	3	2	68	1.47	.126	9	9	.75	17	.17	5	1.13	.05	.06	1	20
A 51964	7	225	5	10	.1	10	16	123	4.27	5	5	ND	1	83	.2	2	2	74	1.96	.152	9	7	.57	23	.18	5	1.23	.05	.06	1	12
A 51965	3	252	5	11	.1	11	20	131	4.36	11	5	ND	1	65	.2	2	2	74	1.63	.144	9	7	.64	24	.18	6	1.21	.05	.07	1	21
A 51966	53	210	4	14	.1	14	9	146	2.92	5	5	ND	1	56	.2	2	2	87	1.32	.112	7	15	1.09	22	.22	7	1.22	.05	.11	1	17
STANDARD C/AU-R	19	58	42	140	7.2	73	33	1143	4.17	41	16	7	39	52	18.6	19	19	59	.61	.096	39	58	1.00	184	.10	36	1.97	.06	.14	11	520
STANDARD C	17	59	41	132	7.2	69	31	1058	3.96	36	18	6	37	52	18.4	16	18	55	.56	.091	37	57	.94	179	.09	33	2.00	.06	.14	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 26 1990 DATE REPORT MAILED: July 31/90 SIGNED BY. ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-2874

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
A 51967	16	391	26	15	.4	17	26	135	4.13	10	7	ND	2	80	.2	2	2	85	1.66	.115	7	12	1.01	52	.18	9	1.41	.08	.16	1	26
A 51968	4	180	5	11	.2	14	10	131	3.05	2	5	ND	2	77	.2	2	2	77	1.22	.095	8	16	.93	39	.17	8	1.22	.09	.21	1	14
A 51969	3	211	11	11	.3	14	13	136	3.27	4	5	ND	1	71	.2	2	2	65	1.25	.115	9	14	.76	22	.14	5	1.07	.06	.08	1	12
A 51970	30	389	5	17	.3	14	29	173	5.10	10	5	ND	1	86	.2	2	2	86	2.07	.148	8	10	.96	30	.15	9	1.46	.05	.10	1	27
A 51971	3	299	6	15	.3	12	20	218	5.36	16	5	ND	1	112	.3	19	2	109	2.14	.140	9	12	1.30	32	.13	9	1.44	.04	.11	1	44
A 51972	16	193	4	11	.1	21	16	134	3.25	8	5	ND	2	49	.2	2	2	81	.90	.086	10	18	1.02	63	.17	4	1.09	.06	.12	2	32
A 51973	4	161	5	12	.2	17	18	157	4.30	11	5	ND	2	54	.2	3	2	84	2.08	.092	12	20	1.25	46	.10	5	1.32	.05	.10	1	20
A 51974	4	116	3	11	.1	18	14	138	2.96	3	5	ND	2	47	.2	2	2	87	1.24	.083	10	17	.95	26	.17	7	1.13	.07	.10	1	15
A 51975	4	73	2	10	.1	22	14	108	2.80	8	5	ND	1	59	.2	2	2	104	.95	.087	9	23	.77	30	.17	4	1.16	.08	.14	1	12
A 51976	2	214	6	10	.3	11	18	109	4.04	7	6	ND	3	53	.2	2	2	40	1.14	.087	9	11	.43	20	.14	9	1.07	.08	.10	1	21
A 51977	8	100	5	7	.1	10	7	101	1.86	5	5	ND	2	46	.2	2	2	37	1.19	.093	11	9	.36	17	.15	4	.92	.08	.07	2	28
51978	3	115	6	6	.1	9	11	88	2.38	10	5	ND	1	63	.2	2	2	21	1.53	.101	10	6	.22	18	.13	10	.96	.09	.06	1	19
1979	6	224	3	15	.2	12	16	105	3.40	6	5	ND	2	63	.2	2	2	63	1.15	.124	11	11	.56	38	.14	5	.95	.06	.11	1	19
A 51980	2	181	5	7	.2	12	16	102	4.00	11	5	ND	1	77	.2	2	2	81	1.40	.147	11	11	.30	37	.13	11	.88	.06	.08	1	19
A 51981	4	432	7	11	.2	13	21	140	4.79	13	5	ND	1	73	.2	2	2	72	1.42	.142	8	10	.42	31	.13	3	.90	.06	.08	1	26
A 51982	3	258	5	10	.1	13	17	115	4.34	8	5	ND	1	93	.2	2	2	73	1.61	.148	8	10	.45	30	.13	10	.97	.06	.07	1	28
A 51983	2	94	5	9	.1	12	14	121	4.39	17	5	ND	1	162	.2	3	2	80	1.82	.138	7	10	.50	31	.12	10	1.10	.05	.06	1	22
A 51984	2	101	6	9	.2	12	13	114	4.23	12	5	ND	1	93	.2	2	2	82	1.48	.148	8	9	.46	33	.13	6	1.03	.06	.08	1	16
A 51985	2	192	4	11	.1	11	10	165	4.80	10	5	ND	1	88	.2	2	3	115	1.81	.145	8	12	.80	36	.15	6	1.30	.05	.07	1	19
A 51986	8	499	6	14	.3	12	15	133	4.39	15	6	ND	1	84	.2	2	2	75	1.50	.146	9	9	.69	34	.15	10	1.08	.07	.08	1	46
A 51987	57	871	7	17	.4	14	53	192	6.29	16	7	ND	2	120	.2	2	2	72	2.35	.127	9	10	.87	31	.15	4	1.02	.04	.07	1	138
A 51988	4	1732	4	21	.6	13	48	144	4.95	11	5	ND	2	68	.5	3	2	58	1.41	.153	7	9	.69	28	.14	6	.98	.06	.08	1	230
A 51989	2	1227	5	20	.3	13	50	189	6.43	9	5	ND	1	95	.4	2	2	71	1.52	.144	7	12	.91	27	.14	10	1.10	.05	.07	1	120
A 51990	2	600	6	13	.2	12	28	140	4.14	18	7	ND	1	181	.2	2	2	66	2.29	.145	7	10	.62	39	.13	4	1.12	.05	.07	1	63
A 51991	3	645	5	12	.3	13	33	126	5.81	19	5	ND	1	145	.2	2	2	83	1.61	.152	9	12	.65	41	.13	10	1.17	.05	.09	1	48
A 51992	2	280	5	8	.1	12	16	103	3.63	9	5	ND	1	66	.2	2	2	62	1.35	.149	8	10	.41	29	.13	5	.89	.05	.08	1	23
A 51993	1	162	4	9	.1	12	15	102	3.67	14	5	ND	1	53	.2	2	2	55	1.28	.143	6	8	.53	27	.12	7	.95	.04	.06	1	22
A 51994	2	167	4	6	.1	11	10	141	2.76	10	5	ND	1	70	.2	2	2	51	1.32	.137	9	8	.33	27	.12	12	.78	.05	.07	2	24
A 51995	5	241	5	8	.1	11	23	125	3.88	12	5	ND	1	50	.2	2	2	63	1.19	.131	7	8	.54	27	.13	4	.85	.03	.07	1	40
A 51996	15	230	3	8	.1	21	31	100	4.30	6	5	ND	2	28	.2	2	3	68	.72	.099	10	16	.60	32	.18	14	.70	.06	.16	1	111
1997	3	117	4	10	.1	23	10	122	3.22	8	5	ND	3	38	.2	2	2	107	.64	.084	11	23	1.10	37	.22	8	1.13	.07	.39	1	46
RE A 51993	1	159	4	9	.1	13	15	111	3.72	11	5	ND	1	56	.2	2	2	57	1.33	.148	7	8	.54	28	.13	10	.98	.05	.07	1	22
A 51998	2	316	4	9	.1	19	17	122	4.39	11	5	ND	3	70	.3	2	2	94	.74	.088	10	16	1.10	41	.20	5	1.28	.08	.28	2	56
A 51999	5	199	4	9	.1	19	14	109	3.49	10	5	ND	2	74	.2	2	2	97	.78	.083	9	17	.94	30	.18	19	1.12	.07	.27	1	32
A 52000	5	160	2	15	.1	22	13	132	3.64	22	5	ND	2	93	.2	2	2	121	.80	.078	6	21	.97	38	.21	3	1.36	.10	.33	1	15
B 91001	6	186	4	12	.1	22	12	100	3.15	6	5	ND	2	53	.2	2	2	121	.77	.082	10	22	1.01	34	.20	6	1.24	.09	.30	1	18
B 91002	27	276	3	10	.2	13	17	115	2.79	9	5	ND	2	47	.2	2	2	81	1.13	.095	9	19	1.09	16	.18	6	1.03	.06	.11	2	24
STANDARD C/AU-R	20	64	42	134	7.4	74	31	1065	4.04	41	22	8	39	53	18.6	16	20	61	.56	.097	39	60	.94	185	.09	35	2.07	.06	.14	11	540
STANDARD C	19	60	39	132	7.3	73	31	1059	4.00	39	24	7	39	52	18.6	16	23	59	.57	.096	40	60	.95	183	.09	36	2.00	.06	.14	11	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91003	30	629	2	12	.1	10	15	133	3.96	4	5	ND	1	64	.2	2	2	59	1.03	.074	7	11	.90	26	.18	6	1.26	.07	.13	1	52
B 91004	6	326	2	9	.1	11	15	116	3.12	6	5	ND	2	54	.2	2	2	75	.98	.097	9	11	.89	26	.18	14	1.17	.07	.12	1	24
B 91005	23	490	2	13	.1	12	27	170	5.36	19	5	ND	1	51	.2	2	2	134	.86	.118	8	15	1.41	51	.23	4	1.65	.06	.16	1	15
B 91006	56	467	2	10	.1	20	24	123	3.84	8	5	ND	3	57	.2	2	3	97	.88	.081	8	25	1.01	49	.25	7	1.39	.11	.31	1	17
B 91007	25	534	3	12	.1	20	17	103	3.93	4	5	ND	3	81	.2	2	2	108	.80	.074	6	22	1.16	41	.25	2	1.50	.11	.45	1	27
B 91008	8	400	2	10	.1	16	14	100	3.40	27	5	ND	3	73	.2	2	2	102	.79	.073	5	20	1.11	44	.24	21	1.42	.10	.36	1	14
B 91009	19	239	3	10	.1	13	12	106	3.00	7	5	ND	3	60	.2	2	2	115	1.16	.078	5	23	1.22	40	.26	168	1.79	.07	.37	1	10
B 91010	25	319	3	10	.1	14	15	124	3.26	11	5	ND	1	79	.2	2	2	118	1.09	.083	6	22	1.33	62	.26	173	1.82	.14	.37	1	11
B 91011	18	155	3	9	.1	15	11	133	2.45	4	5	ND	1	110	.2	2	2	118	.88	.086	6	24	1.43	63	.27	18	1.71	.12	.57	1	8
B 91012	15	255	2	10	.1	15	11	136	2.51	2	5	ND	4	171	.2	2	2	120	.84	.078	7	24	1.33	60	.27	51	1.59	.12	.55	1	14
B 91013	14	280	2	9	.1	17	14	110	2.21	4	5	ND	4	75	.2	2	2	111	.76	.074	6	23	1.17	57	.23	7	1.26	.10	.35	2	11
91014	35	363	2	9	.1	15	11	110	1.91	5	5	ND	3	42	.2	2	2	104	1.08	.074	6	24	1.14	36	.22	6	1.26	.09	.12	1	7
1015	7	400	2	9	.1	18	17	139	3.00	3	5	ND	3	80	.2	2	2	113	.84	.086	5	28	1.39	40	.23	5	1.43	.08	.24	1	17
B 91016	5	458	3	10	.1	22	19	139	3.29	5	5	ND	3	161	.2	2	2	128	.92	.087	7	30	1.49	51	.27	6	1.68	.09	.52	1	17
B 91017	8	305	2	8	.1	15	12	120	2.31	7	5	ND	2	79	.2	2	2	112	.95	.070	5	24	1.30	46	.23	4	1.43	.09	.40	1	12
B 91018	8	633	2	9	.2	10	10	140	2.44	2	5	ND	3	61	.2	2	2	85	1.10	.063	6	15	1.18	23	.19	3	1.26	.07	.20	1	46
B 91019	11	325	2	9	.1	17	19	111	3.01	4	5	ND	3	58	.2	2	2	106	1.02	.077	6	24	1.19	32	.20	5	1.32	.07	.19	1	21
B 91020	9	412	2	10	.1	19	16	122	3.43	7	5	ND	1	115	.2	2	2	141	1.10	.092	7	26	1.32	36	.25	4	1.49	.10	.22	1	28
B 91021	1	547	2	8	.1	11	19	125	4.22	8	5	ND	4	45	.2	2	2	136	1.27	.134	7	10	1.02	31	.20	5	1.24	.04	.13	1	30
B 91022	2	443	2	8	.1	10	18	176	4.57	9	5	ND	4	48	.2	2	2	118	1.12	.124	7	9	1.14	46	.22	5	1.32	.05	.19	1	29
B 91023	2	553	2	7	.1	10	17	127	4.50	5	5	ND	3	43	.2	2	2	111	1.13	.126	8	7	1.08	39	.21	2	1.23	.04	.16	1	25
B 91024	4	181	2	9	.1	16	11	118	3.10	5	5	ND	3	58	.2	2	2	148	1.09	.104	8	24	1.00	43	.24	6	1.32	.07	.37	1	9
RE B 91020	8	415	3	9	.1	19	16	123	3.44	5	5	ND	1	112	.2	2	2	139	1.09	.092	8	26	1.33	34	.25	6	1.47	.09	.24	1	29
B 91025	5	369	3	10	.1	23	19	154	3.12	2	5	ND	4	134	.2	2	2	148	1.18	.080	7	36	1.31	47	.25	4	1.59	.08	.51	1	33
B 91026	5	300	3	11	.1	17	12	120	2.75	5	8	ND	3	244	.2	2	2	122	1.94	.080	8	26	1.16	34	.25	4	1.77	.05	.29	1	23
B 91027	9	1286	2	12	.2	19	17	118	2.92	9	5	ND	3	142	.2	2	2	127	1.64	.077	6	27	1.12	32	.22	3	1.40	.07	.30	1	72
B 91028	5	607	2	12	.1	24	18	140	3.17	10	5	ND	1	142	.2	2	2	138	.97	.081	8	31	1.16	36	.24	6	1.27	.07	.32	1	55
B 91029	6	936	2	17	.2	14	30	168	4.06	10	5	ND	4	46	.2	2	2	137	.77	.092	8	17	1.32	24	.19	2	1.24	.04	.22	1	100
B 91030	8	431	3	14	.1	20	14	146	2.70	6	6	ND	4	54	.2	2	2	131	.80	.081	7	28	1.15	48	.23	4	1.27	.10	.35	1	41
B 91031	29	738	2	14	.1	29	21	130	3.12	4	5	ND	4	59	.2	2	2	124	.78	.077	8	41	.99	26	.20	5	1.12	.08	.27	1	81
1032	8	987	2	21	.2	15	20	201	5.18	11	5	ND	4	64	.2	2	2	158	.99	.102	9	18	1.41	46	.25	3	1.61	.08	.36	1	74
B 91033	5	989	3	24	.3	14	22	241	5.38	9	6	ND	3	64	.2	2	2	124	1.43	.119	9	15	1.43	32	.19	4	1.64	.05	.12	1	73
B 91034	29	3839	2	19	.8	24	28	121	3.39	5	5	ND	4	54	.3	2	2	109	.78	.091	7	19	.93	39	.20	4	1.00	.06	.24	2	380
B 91035	20	533	2	9	.1	20	16	98	2.77	8	5	ND	3	49	.2	2	2	119	.81	.080	8	25	.94	37	.22	3	1.03	.08	.32	1	46
B 91036	9	440	2	9	.1	23	15	107	2.97	4	6	ND	4	394	.2	2	2	146	.90	.085	7	27	1.19	63	.24	7	1.45	.11	.45	1	35
B 91037	18	848	2	10	.1	18	14	111	2.34	5	5	ND	3	59	.2	2	2	129	.84	.084	8	22	1.08	47	.25	5	1.23	.10	.37	1	36
B 91038	21	1568	2	13	.3	24	22	109	3.89	7	7	ND	4	46	.2	2	2	155	.76	.084	11	22	.91	48	.24	4	1.01	.08	.32	1	59
STANDARD C/AU-R	18	62	36	135	7.2	70	33	1088	3.75	36	20	6	41	52	18.1	15	18	58	.52	.086	39	61	.88	184	.10	33	1.96	.06	.14	11	510
STANDARD C	18	57	38	132	7.3	72	31	1053	3.88	42	24	7	40	52	18.6	14	20	58	.55	.093	39	59	.92	182	.09	35	1.95	.06	.13	11	-

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91039	10	1363	2	10	.4	17	13	40	1.99	4	5	ND	2	37	.2	2	2	67	.52	.067	7	17	.66	24	.15	7	.73	.08	.29	1	44
B 91040	34	3578	2	21	.7	12	7	117	3.30	4	5	ND	2	64	1.2	2	4	115	.83	.112	8	18	1.10	50	.19	2	1.14	.08	.44	2	126
B 91041	4	1351	5	12	.2	11	17	113	4.10	7	5	ND	1	100	.7	2	5	110	1.35	.138	9	12	.83	41	.14	2	1.09	.07	.22	1	47
B 91042	6	664	2	12	.2	9	16	145	4.70	8	5	ND	1	78	1.2	2	2	121	1.24	.138	9	11	.92	61	.15	6	1.26	.09	.29	1	47
B 91043	5	1507	4	13	.4	18	19	124	3.83	12	5	ND	1	63	.9	2	5	96	1.24	.125	11	13	.91	41	.16	5	1.14	.08	.29	1	53
B 91044	31	564	4	7	.1	24	17	79	2.75	9	6	ND	2	46	.4	2	5	81	.72	.086	7	29	.69	24	.17	9	.78	.09	.25	2	16
B 91045	13	367	3	10	.1	28	19	74	3.39	7	5	ND	2	41	.5	2	4	87	.75	.080	7	20	.75	21	.16	2	.89	.08	.23	1	20
B 91046	9	354	2	10	.1	20	17	112	3.73	9	5	ND	2	78	.7	2	2	115	1.55	.105	8	19	1.03	22	.18	2	1.52	.06	.25	1	9
B 91047	9	653	4	10	.3	18	20	107	3.97	8	5	ND	2	113	1.0	2	2	111	1.26	.122	8	19	.87	55	.15	3	1.29	.11	.27	1	25
B 91048	10	496	2	8	.1	28	21	97	3.30	10	5	ND	1	178	1.3	2	2	133	.93	.096	7	35	1.02	37	.19	2	1.16	.14	.36	1	12
B 91049	13	6175	92	27	1.8	22	15	103	3.05	12	6	ND	2	60	1.1	2	2	63	1.54	.079	8	24	.75	10	.15	2	.66	.05	.06	4	300
B 91050	60	4539	6	26	.8	22	18	99	3.30	10	5	ND	2	145	1.5	3	2	130	.95	.081	9	19	.80	32	.17	2	.93	.08	.25	3	330
051	40	3600	4	32	.8	16	18	151	3.98	6	5	ND	2	39	.4	2	2	123	.99	.094	8	17	.98	26	.15	4	1.07	.05	.21	2	250
Re B 91047	9	657	8	10	.3	18	23	113	4.14	6	5	ND	2	115	.6	2	4	112	1.33	.122	8	19	.92	53	.16	2	1.33	.10	.27	1	24
B 91052	16	719	7	19	.1	7	17	212	4.97	7	5	ND	1	99	.9	2	2	109	1.27	.103	8	8	1.00	34	.14	2	1.29	.09	.16	1	25
B 91053	16	671	2	23	.2	5	14	222	4.91	5	5	ND	1	66	.5	3	4	112	1.29	.104	8	7	.94	25	.12	3	1.19	.06	.15	1	9
B 91054	9	870	5	23	.4	6	37	170	5.49	6	5	ND	1	74	.6	2	2	75	1.65	.095	8	7	.67	18	.11	8	1.14	.05	.09	2	52
B 91055	45	664	2	16	.3	9	15	167	4.50	8	5	ND	2	63	.3	2	2	90	1.30	.097	8	8	.80	32	.11	6	1.24	.09	.13	1	28
B 91056	27	1142	2	18	.4	8	22	156	5.11	6	5	ND	2	76	.8	2	3	100	1.24	.097	9	9	1.00	41	.13	6	1.51	.11	.14	1	54
B 91057	7	393	2	8	.3	18	24	99	3.29	8	5	ND	2	64	.7	2	4	103	.92	.104	8	28	.92	21	.17	3	.98	.08	.26	1	23
B 91058	14	218	3	8	.1	26	21	95	3.34	7	5	ND	2	64	.4	2	2	99	1.13	.089	7	27	.85	27	.17	10	.89	.09	.16	1	11
B 91059	12	407	3	8	.3	18	21	100	3.61	8	9	ND	2	86	.4	2	7	102	.92	.088	6	20	.92	46	.15	2	1.06	.12	.26	1	25
STANDARD C/AU-R	19	60	43	132	7.3	74	32	1033	4.09	43	25	7	37	52	18.3	15	18	55	.56	.095	37	60	.94	172	.07	34	1.96	.06	.13	11	490
STANDARD C	18	57	37	132	7.2	70	31	1005	3.91	41	22	6	36	52	18.6	16	21	56	.54	.093	36	56	.90	182	.07	36	1.89	.06	.14	11	-

ACME ANALYTICAL LABORATORIES LTD.   852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6   PHONE(604)253-3158 FAX(604)253-1716

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700 - 890 W. Pender St., Vancouver BC V6B 4W3   Submitted by: R.WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B91060	10	485	2	18	.2	13	17	179	3.88	9	5	ND	1	83	.2	2	2	118	.76	.103	7	25	1.30	42	.19	2	1.63	.08	.59	1	43
B91061	12	365	6	10	.1	17	17	188	2.85	12	5	ND	1	68	.3	2	2	94	.72	.081	6	36	1.06	31	.17	3	1.24	.08	.42	1	31
B91062	20	971	6	11	.3	23	19	142	3.17	6	5	ND	1	45	.2	2	2	121	.71	.088	6	30	.93	26	.15	2	1.10	.06	.36	1	109
B91063	17	468	5	11	.1	18	16	139	2.80	5	5	ND	2	43	.3	2	2	96	.87	.099	5	35	.97	27	.16	3	1.11	.05	.33	1	54
B91064	64	338	6	9	.1	17	13	128	2.43	5	5	ND	1	55	.5	2	2	85	1.01	.083	6	21	.99	17	.15	7	1.29	.06	.22	1	119
B91065	10	397	3	12	.1	15	15	129	2.75	5	5	ND	2	40	.2	2	2	93	.80	.089	6	28	1.07	24	.16	4	1.15	.06	.27	1	55
B91066	13	517	2	11	.2	15	15	134	2.42	4	6	ND	2	47	.2	2	2	103	.80	.092	5	25	1.15	31	.17	3	1.22	.06	.30	1	80
B91067	8	413	4	7	.1	13	15	140	2.74	3	5	ND	1	175	.5	2	2	99	.90	.086	6	30	1.11	40	.18	2	1.41	.06	.42	1	54
B91068	11	766	7	10	.2	14	17	140	2.90	4	5	ND	1	31	.3	2	2	75	.91	.073	6	19	1.16	15	.15	4	1.38	.07	.25	1	118
B[illegible]	17	1138	4	11	.3	17	23	147	3.31	7	5	ND	1	30	.2	2	2	93	1.29	.087	8	29	1.16	29	.13	2	1.30	.05	.39	1	119
B91070	29	1154	3	14	.4	13	13	122	2.27	11	5	ND	1	102	.5	4	2	75	1.36	.079	7	21	.90	32	.10	6	1.14	.04	.25	1	210
B91071	12	1487	2	15	.4	19	14	154	2.99	5	5	ND	1	74	.2	2	2	88	1.17	.100	6	38	1.21	22	.15	3	1.53	.06	.29	1	290
B91072	3	450	4	10	.1	16	7	129	2.82	3	5	ND	1	61	.4	2	2	83	1.15	.082	7	23	.77	20	.14	2	1.28	.06	.18	1	75
B91073	18	731	2	12	.3	17	13	112	2.86	5	5	ND	2	94	.3	2	2	98	.95	.087	8	27	.59	24	.14	2	1.02	.05	.16	1	128
B91074	13	375	8	10	.1	7	8	134	3.62	4	5	ND	1	63	.3	2	2	55	1.41	.084	6	12	.45	9	.11	5	1.16	.05	.08	1	83
B91075	33	451	6	11	.2	6	6	155	2.87	4	5	ND	1	108	.3	2	2	59	1.36	.081	8	19	.66	18	.14	3	1.17	.07	.16	1	118
B91076	12	285	5	9	.1	6	4	158	2.57	5	5	ND	1	98	.2	2	2	47	1.46	.082	7	13	.69	14	.12	6	1.26	.05	.07	1	57
B91077	6	220	5	9	.1	7	6	130	2.11	7	5	ND	1	60	.2	2	2	43	1.74	.088	8	16	.59	13	.10	5	.92	.05	.05	1	44
B91078	43	1475	11	14	.7	9	11	238	2.84	14	5	ND	1	95	.2	2	2	55	2.80	.081	10	14	.77	30	.05	4	.98	.03	.09	1	370
B91079	6	1527	3	20	.7	7	12	242	3.00	7	5	ND	1	69	.5	2	3	46	2.38	.070	8	10	.76	22	.03	3	.93	.03	.11	1	290
B91080	30	601	3	16	.2	6	12	204	3.54	7	5	ND	1	46	.2	3	2	64	1.18	.091	6	11	1.26	22	.10	2	.97	.03	.07	1	97
B91081	21	3182	5	48	2.1	12	21	234	5.36	25	5	ND	1	55	.6	2	2	48	1.00	.060	4	12	.79	68	.08	2	.83	.04	.06	1	260
B91082	16	2420	4	48	1.6	8	25	202	4.42	25	5	ND	1	71	.3	2	2	49	.83	.100	6	13	.74	53	.10	3	.88	.04	.06	1	410
B91083	6	3548	4	55	1.7	9	33	305	10.64	17	5	ND	1	118	.7	4	2	73	1.17	.068	7	20	1.10	36	.10	2	1.46	.04	.06	1	430
B91084	5	15128	8	195	7.3	7	29	375	11.48	17	5	3	1	71	2.3	7	2	185	1.36	.081	7	18	1.24	24	.10	2	1.16	.02	.20	1	2590
B91085	3	1061	6	35	.5	11	24	324	9.09	8	5	ND	1	64	.2	2	2	149	1.13	.145	6	19	1.28	33	.15	3	1.28	.04	.33	1	210
B91086	1	475	10	18	.2	8	15	239	5.78	10	5	ND	1	61	.2	2	2	110	1.20	.136	5	12	1.00	41	.13	2	1.11	.04	.15	1	60
[illegible]87	3	517	2	17	.3	11	22	204	6.36	11	5	ND	1	84	.2	2	2	93	1.33	.140	5	16	.82	33	.13	4	1.01	.04	.15	1	76
[illegible].088	14	360	7	19	.3	8	17	216	4.98	11	5	ND	1	259	.3	2	2	87	1.26	.107	7	11	.83	60	.14	2	.99	.05	.24	1	68
RE B91084	5	15055	6	191	7.5	8	29	365	11.20	19	5	3	1	67	2.4	4	2	182	1.31	.076	7	18	1.20	22	.10	2	1.13	.02	.20	1	2870
B91089	9	478	6	12	.2	10	15	211	3.62	11	5	ND	1	253	.2	2	3	58	2.82	.086	6	13	.70	37	.06	2	.86	.04	.05	2	76
B91090	4	334	8	29	.2	18	19	386	4.87	14	5	ND	1	275	.2	2	2	133	3.14	.104	6	33	1.81	35	.06	2	1.74	.03	.09	1	30
B91091	9	573	4	7	.2	19	16	123	3.44	10	5	ND	2	365	.2	2	3	67	1.21	.084	7	23	.76	58	.13	2	1.08	.06	.15	1	56
B91092	4	190	16	2	.5	17	14	98	3.00	15	5	ND	1	103	.2	4	2	70	.96	.087	9	19	.68	29	.12	3	.84	.06	.08	1	43
B91093	8	307	5	10	.1	17	16	111	3.05	3	5	ND	2	195	.2	2	2	76	.92	.086	10	20	.92	41	.12	2	.85	.05	.10	1	45
B91094	5	486	23	10	1.0	11	23	117	3.83	26	5	ND	2	157	.2	8	2	64	.80	.082	9	14	.69	34	.10	2	.74	.04	.08	1	89
B91095	15	607	4	12	.2	20	18	129	3.65	7	5	ND	1	217	.2	2	2	77	1.30	.075	8	20	.91	37	.06	5	.92	.04	.08	1	57
STANDARD C/AU-R	19	63	38	132	6.9	70	32	1068	4.08	41	17	7	39	53	18.4	16	20	56	.48	.096	38	59	.90	179	.08	35	1.91	.06	.14	11	530
STANDARD C	18	58	38	131	6.9	67	31	1052	3.96	40	17	7	38	53	18.9	14	20	55	.48	.093	38	59	.88	180	.08	35	1.88	.06	.14	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core   AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 31 1990 **DATE REPORT MAILED:** Aug 4/90 **SIGNED BY** D.Toye ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 FILE # 90-3022

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B91096	54	523	3	10	.3	16	17	132	2.71	3	5	ND	2	81	.2	2	2	77	.96	.087	9	17	.70	27	.12	9	.72	.05	.08	1	35
B91097	8	346	3	11	.2	12	13	148	2.62	5	5	ND	1	273	.2	2	2	76	1.15	.097	10	23	.87	37	.12	2	.90	.06	.06	1	39
B91098	4	466	5	12	.3	9	12	162	3.51	5	5	ND	1	62	.2	2	2	52	.95	.092	8	15	.78	21	.10	2	1.01	.06	.07	1	45
B91099	6	149	3	8	.1	8	7	171	3.01	5	5	ND	1	233	.2	2	2	51	1.18	.091	8	17	.83	33	.10	3	1.18	.06	.06	1	13
B91100	8	218	8	9	.2	7	10	176	2.84	4	5	ND	1	142	.2	2	2	45	1.62	.087	9	13	.83	26	.08	6	1.13	.05	.06	1	23
B91101	6	411	2	15	.2	15	15	111	2.84	3	5	ND	2	59	.2	2	2	60	.84	.091	10	22	.70	20	.12	6	.76	.05	.06	1	44
B91102	5	1101	2	27	.6	9	15	161	3.23	5	5	ND	1	102	.2	2	2	49	1.21	.083	8	14	.78	16	.10	7	1.26	.05	.06	1	47
B91103	5	634	4	24	.4	15	11	148	2.68	6	5	ND	2	148	.2	2	2	64	.93	.090	8	23	.85	22	.12	2	.93	.05	.04	2	48
B91104	32	6004	5	43	3.0	20	20	166	3.23	7	6	2	1	86	1.4	2	2	66	1.29	.128	11	20	.89	18	.11	6	.86	.03	.05	1	720
B91105	22	1102	2	14	.5	9	7	232	2.06	5	5	ND	1	57	.5	2	2	44	3.22	.095	9	15	.51	33	.02	5	.70	.03	.10	1	27
B91106	38	250	5	12	.1	12	10	264	3.18	4	5	ND	1	67	.2	2	2	53	3.26	.101	9	18	1.03	39	.01	3	1.09	.03	.11	2	17
F [illegible]7	7	763	3	15	.4	15	19	167	3.44	5	6	ND	2	129	.2	2	2	81	1.26	.095	9	26	1.18	40	.11	3	1.08	.05	.09	1	46
B. [illegible]J8	7	558	2	17	.3	16	18	159	3.18	3	5	ND	2	66	.2	2	2	69	.94	.101	9	19	1.07	23	.11	7	1.02	.04	.09	1	32
B91109	5	83	3	12	.1	15	10	146	2.45	4	5	ND	2	40	.2	2	2	52	.83	.098	9	25	.75	22	.13	3	.72	.05	.05	1	9
B91110	9	353	6	14	.2	17	18	203	3.66	7	5	ND	1	229	.2	2	2	76	1.48	.113	9	17	.94	48	.11	6	.90	.04	.05	2	6
RE B91115	11	267	5	14	.1	15	4	150	2.02	2	5	ND	2	29	.2	2	2	101	1.32	.090	9	28	1.28	20	.12	5	1.10	.04	.08	2	1
B91111	17	396	2	16	.2	17	14	157	3.00	6	5	ND	2	96	.2	2	2	81	.94	.088	8	25	1.06	37	.14	6	.94	.05	.05	1	31
B91112	14	652	3	15	.3	16	11	154	3.18	2	6	ND	2	95	.2	2	2	76	1.34	.083	11	19	1.04	26	.05	10	.92	.04	.05	1	32
B91113	11	295	3	19	.1	14	4	216	2.65	2	5	ND	3	66	.2	3	2	88	1.45	.086	11	23	1.39	20	.04	6	1.29	.04	.05	1	1
B91114	7	351	3	19	.2	11	6	187	2.56	3	5	ND	2	45	.2	3	3	103	1.13	.088	11	23	1.38	15	.13	4	1.15	.05	.04	1	1
B91115	11	270	2	11	.1	15	5	149	2.03	3	5	ND	2	29	.2	2	2	102	1.30	.089	10	29	1.28	21	.12	3	1.07	.04	.08	2	1
B91116	11	1086	2	15	.3	10	13	151	2.20	3	5	ND	2	72	.2	2	2	98	1.53	.089	10	22	1.23	25	.14	3	1.19	.04	.07	2	61
B91117	6	972	2	16	.3	16	19	165	2.64	5	6	ND	2	58	.2	2	2	92	1.12	.087	11	24	1.29	25	.13	4	1.15	.06	.10	1	6
B91118	6	637	4	12	.2	13	14	162	2.74	4	5	ND	2	114	.2	3	2	108	1.14	.088	8	27	1.42	52	.18	4	1.56	.06	.40	1	93
B91119	14	832	4	11	.3	21	17	151	3.15	7	5	ND	1	56	.2	3	2	107	1.07	.100	7	37	1.53	33	.16	2	1.51	.06	.39	1	2
B91120	6	515	2	10	.2	14	17	152	2.69	7	5	ND	1	110	.2	2	2	73	2.36	.083	6	23	1.18	36	.10	9	1.15	.06	.22	1	11
B91121	7	162	7	6	.1	19	13	127	2.62	4	5	ND	1	44	.2	2	2	104	1.15	.087	6	32	1.33	49	.16	2	1.23	.07	.39	1	24
B91122	3	167	2	7	.1	14	11	125	2.20	3	5	ND	2	38	.2	2	4	98	.66	.080	5	26	1.26	40	.17	3	1.18	.06	.40	1	1
B91123	14	219	2	9	.1	16	13	125	2.18	4	5	ND	2	57	.2	2	2	102	1.06	.079	6	27	1.07	27	.17	7	1.18	.06	.21	1	1
B91124	9	215	2	6	.1	17	11	124	2.42	5	5	ND	2	61	.2	2	2	125	.85	.089	6	31	1.37	38	.19	2	1.38	.06	.40	1	4
[illegible]1125	10	247	2	7	.1	17	11	132	2.58	4	5	ND	2	42	.2	2	2	134	.73	.093	7	35	1.28	37	.19	8	1.23	.07	.31	1	5
B91126	12	388	4	6	.1	18	16	133	3.00	4	5	ND	2	59	.2	2	2	129	.68	.094	7	40	1.33	46	.20	4	1.33	.07	.60	1	16
B91127	14	1067	2	11	.2	27	16	118	3.08	3	5	ND	2	64	.2	2	2	137	.85	.091	8	40	1.31	33	.19	9	1.29	.07	.44	1	38
B91128	9	451	5	10	.1	23	14	117	2.82	7	5	ND	2	40	.2	3	2	159	.69	.087	6	34	1.44	35	.20	15	1.31	.07	.52	1	2
B91129	22	950	2	12	.2	24	16	110	3.10	9	5	ND	2	61	.2	2	2	135	1.03	.085	7	34	1.26	33	.16	5	1.22	.07	.34	1	37
B91130	7	538	9	5	.2	18	13	106	2.74	6	5	ND	2	60	.3	3	2	126	.69	.090	6	35	1.35	38	.19	2	1.32	.07	.55	1	28
B91131	8	330	2	5	.1	19	14	95	2.66	6	5	ND	2	95	.2	2	2	141	.91	.082	7	35	1.14	32	.17	2	1.28	.06	.27	1	15
STANDARD C/AU-R	19	56	38	133	6.8	70	31	1053	3.95	40	17	8	39	52	18.5	17	18	55	.45	.095	38	60	.86	170	.08	34	1.83	.06	.14	12	520
STANDARD C	18	57	39	131	6.9	71	31	1051	3.96	40	16	7	38	53	18.4	15	20	56	.48	.094	38	59	.88	181	.07	36	1.88	.06	.14	13	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B91132	7	372	6	7	.1	18	13	106	2.70	7	5	ND	2	76	.2	2	2	122	.89	.079	7	28	1.09	36	.17	3	1.32	.08	.30	1	24
B91133	11	712	6	11	.1	18	15	99	2.45	6	5	ND	2	54	.5	2	2	137	.83	.086	8	32	1.12	76	.19	2	1.30	.08	.33	1	65
B91134	9	586	14	17	.2	17	14	111	2.62	9	5	ND	2	47	.2	2	2	141	.69	.089	7	36	1.11	66	.16	3	1.23	.13	.41	1	40
B91135	8	291	10	11	.1	14	11	118	2.21	6	5	ND	2	51	.2	2	2	127	.72	.087	8	35	1.20	54	.18	2	1.28	.13	.35	1	27
B91136	14	508	11	9	.1	18	13	111	2.42	5	5	ND	2	44	.2	2	2	113	.80	.089	8	30	1.13	32	.15	7	1.12	.08	.25	1	44
B91137	19	388	4	11	.1	19	20	142	3.54	6	5	ND	2	74	.2	2	2	143	.76	.094	7	33	1.48	60	.19	2	1.53	.12	.45	1	20
RE B91142	34	1121	4	27	.5	9	12	235	5.68	6	5	ND	1	52	.2	4	2	146	.93	.119	7	18	1.47	57	.18	4	1.58	.05	.72	1	129
B91138	19	467	7	11	.1	34	24	110	4.28	7	5	ND	1	66	.2	2	3	109	.94	.085	8	28	1.01	35	.13	2	1.03	.06	.29	1	36
B91139	22	448	10	10	.2	27	16	113	3.64	6	5	ND	2	61	.2	2	4	109	.92	.081	6	29	.97	47	.15	3	1.16	.10	.29	1	37
B91140	12	288	9	8	.1	23	17	119	3.13	5	5	ND	2	62	.2	2	2	137	.78	.084	6	35	1.11	60	.18	2	1.30	.15	.46	1	24
B91141	5	245	2	12	.1	13	15	161	3.54	5	7	ND	1	53	.2	2	2	127	.76	.100	9	27	1.28	58	.19	2	1.47	.12	.69	1	33
F[illegible]2	34	1114	8	23	.5	9	12	234	5.53	6	5	ND	1	49	.2	3	2	142	.89	.116	7	16	1.44	52	.17	5	1.54	.05	.71	1	135
B.[illegible]3	7	1114	7	23	.4	9	13	236	5.95	8	5	ND	1	60	.2	3	2	124	.97	.115	7	19	1.39	54	.15	7	1.66	.07	.44	1	117
B91144	31	1659	5	23	.7	11	22	202	5.16	9	5	ND	1	45	.2	2	2	120	.92	.109	6	21	1.34	53	.16	8	1.47	.07	.55	1	150
B91145	14	410	7	11	.1	25	20	96	3.80	4	5	ND	1	49	.2	2	2	112	.86	.102	7	56	1.11	51	.18	4	1.18	.11	.43	1	70
B91146	10	891	5	13	.2	27	27	101	5.27	5	5	ND	1	46	.2	3	2	106	.81	.107	6	59	1.02	37	.17	4	1.20	.10	.33	1	38
B91147	11	449	4	7	.1	22	14	101	3.38	6	5	ND	1	59	.2	2	2	97	.68	.083	8	29	1.00	54	.18	2	1.17	.12	.43	1	25
B91148	14	461	3	10	.1	24	18	113	3.62	8	5	ND	2	50	.2	2	5	115	.72	.085	8	34	1.20	65	.19	5	1.34	.15	.51	1	31
B91149	17	1255	2	11	.4	29	19	88	3.46	8	5	ND	2	50	.2	2	2	102	.80	.091	6	36	.74	47	.17	6	1.04	.10	.32	1	98
B91150	32	552	2	9	.2	22	15	110	2.77	6	5	ND	1	60	.4	2	2	81	.77	.081	7	26	.66	49	.16	2	.92	.12	.19	1	133
B91151	38	2896	10	44	1.4	14	29	278	6.75	11	5	ND	1	80	.2	4	2	182	1.37	.158	9	28	1.46	63	.18	3	1.59	.06	.45	1	410
B91152	11	1342	2	23	.7	14	17	177	4.90	8	6	ND	1	67	.5	2	2	97	1.34	.141	5	18	.62	50	.13	5	1.03	.08	.21	1	310
B91153	11	533	3	13	.4	12	10	164	4.21	7	10	ND	1	67	.2	2	2	94	1.36	.128	7	19	.38	45	.11	5	.84	.07	.15	1	143
B91154	6	430	6	11	.3	17	25	171	5.22	7	6	ND	1	65	.2	2	4	98	1.17	.133	7	24	.65	50	.12	5	1.04	.09	.18	2	113
B91155	12	690	8	13	.3	15	14	143	4.77	9	5	ND	1	74	.2	2	3	108	1.41	.134	6	20	.46	32	.11	12	.90	.07	.11	1	320
B91156	3	898	4	17	.4	13	17	228	4.83	7	5	ND	1	104	.2	2	2	114	1.37	.138	5	20	.58	41	.12	5	1.06	.08	.13	1	132
B91157	13	953	5	19	.4	16	24	169	5.31	7	7	ND	1	125	.2	3	2	142	1.07	.136	8	26	1.19	36	.17	3	1.47	.08	.40	1	102
B91158	28	595	2	10	.1	26	17	88	3.53	6	7	ND	1	83	.2	2	3	99	.67	.088	7	36	.78	49	.17	8	.95	.09	.36	1	74
B91159	4	396	2	11	.2	23	14	103	4.23	5	5	ND	1	42	.2	2	3	76	.80	.091	6	40	.84	25	.14	2	1.04	.08	.18	1	48
B91160	7	969	6	11	.3	22	17	89	4.75	2	8	ND	1	58	.2	2	3	65	.82	.094	6	44	.70	24	.14	10	.98	.10	.18	1	138
[illegible]1161	25	1061	6	11	.3	29	19	110	5.05	3	5	ND	1	38	.2	2	2	113	.76	.112	8	62	1.07	34	.17	2	1.23	.08	.48	1	118
B91162	14	895	2	7	.2	36	54	97	6.50	4	6	ND	1	92	.2	2	2	123	.73	.113	7	53	1.07	46	.17	2	1.36	.12	.56	1	62
B91163	26	464	3	13	.1	36	18	118	5.16	3	5	ND	1	153	.2	2	4	191	.67	.107	8	64	1.32	55	.21	4	1.63	.13	.89	1	25
B91164	15	435	3	10	.1	32	24	108	4.24	4	5	ND	1	80	.2	2	2	177	.65	.096	7	44	1.29	50	.20	2	1.45	.12	.72	1	48
B91165	8	381	4	13	.1	25	16	129	3.80	5	5	ND	1	68	.2	2	5	204	.84	.103	9	48	1.43	48	.23	3	1.71	.10	.78	1	26
113018	5	24	31	8	.2	6	1	133	1.75	15	5	ND	3	19	.2	2	2	42	.89	.063	3	12	.24	69	.16	5	1.28	.07	.14	1	13
113019	1	26	6	40	.1	10	8	318	3.47	4	5	ND	1	64	.2	2	2	105	1.11	.135	6	24	.40	39	.20	5	1.06	.08	.09	1	17
113020	1	10	5	31	.1	10	6	271	2.79	4	5	ND	1	114	.2	2	2	83	1.04	.110	6	24	.36	38	.19	4	.93	.07	.08	1	10
STANDARD C/AU-R	18	55	38	126	6.9	64	30	1022	3.88	40	18	7	38	52	18.7	16	19	56	.44	.092	38	57	.84	170	.08	35	1.83	.06	.14	11	540
STANDARD C	18	58	35	131	6.9	67	31	1051	3.96	39	17	7	38	53	18.7	15	20	55	.48	.095	37	58	.88	180	.07	34	1.88	.06	.14	11	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

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GEOCHEMICAL ANALYSIS CERTIFICATE

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700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91166	5	82	3	12	.1	13	5	137	1.69	2	5	ND	5	18	.2	2	2	137	.41	.080	7	29	.94	35	.22	3	.92	.09	.38	1	13
B 91167	4	257	2	13	.2	20	14	143	2.63	9	5	ND	5	17	.2	2	2	148	.51	.089	7	26	1.15	43	.21	2	1.04	.09	.41	1	45
B 91168	3	124	2	12	.2	17	11	158	2.28	2	5	ND	5	17	.2	2	2	151	.55	.080	7	25	1.11	32	.21	2	.93	.06	.34	1	22
B 91169	4	195	4	14	.2	18	14	166	4.11	4	5	ND	4	48	.2	2	3	125	.74	.106	10	23	.93	47	.20	3	1.09	.09	.28	1	71
B 91170	2	320	4	19	.3	11	16	233	5.42	6	5	ND	4	42	.2	2	3	100	1.09	.132	10	10	1.24	33	.17	2	1.38	.06	.16	1	76
B 91171	1	237	4	27	.3	9	15	322	5.43	2	5	ND	4	43	.2	2	3	134	1.36	.131	12	13	1.72	45	.20	2	1.63	.06	.20	1	36
B 91172	6	230	3	10	.1	21	10	128	2.96	22	5	ND	4	16	.2	2	2	135	.56	.093	9	26	1.10	36	.22	2	.93	.09	.32	1	50
B 91173	2	273	4	19	.1	15	14	248	4.43	11	5	ND	3	36	.2	2	3	175	.86	.143	12	26	1.70	43	.27	3	1.67	.09	.31	2	30
B 91174	1	191	5	28	.1	9	14	372	4.46	12	5	ND	2	87	.2	4	2	104	1.73	.143	5	6	1.68	38	.21	8	2.22	.06	.15	1	33
B 175	1	85	4	27	.1	8	7	394	3.81	4	5	ND	3	130	.2	2	3	100	1.51	.143	5	6	1.73	146	.20	6	2.31	.10	.21	1	20
B 91176	5	208	3	19	.2	12	13	282	3.47	294	5	ND	4	100	.2	3	2	107	1.60	.112	8	11	1.27	47	.16	3	1.51	.08	.21	1	38
B 91177	4	287	2	15	.2	18	14	159	3.17	9	5	ND	4	30	.2	2	3	130	.72	.099	10	18	1.07	53	.21	2	1.09	.11	.26	1	35
B 91178	27	164	2	15	.1	14	8	165	3.25	10	5	ND	4	34	.2	2	2	110	.80	.116	12	16	.94	28	.21	5	1.06	.08	.17	1	17
B 91179	4	226	3	15	.1	14	10	231	3.71	15	5	ND	3	100	.2	2	2	96	1.47	.143	7	17	.78	29	.18	6	1.08	.06	.09	1	45
B 91180	3	369	2	16	.3	20	23	220	5.06	31	5	ND	4	67	.3	2	3	108	1.59	.142	8	18	.68	36	.16	5	1.23	.07	.11	1	61
B 91181	5	217	3	15	.2	13	9	237	4.04	24	5	ND	3	97	.2	2	2	107	1.60	.150	7	21	.77	35	.15	6	1.28	.07	.11	1	21
B 91182	3	294	2	16	.3	15	17	249	4.65	13	5	ND	3	81	.2	2	3	117	1.50	.141	7	20	.89	35	.15	5	1.38	.07	.11	1	23
B 91183	3	243	4	16	.3	15	11	293	3.74	26	5	ND	3	116	.2	2	2	106	2.31	.143	8	19	.96	43	.15	9	1.42	.08	.13	1	43
B 91184	3	807	6	28	.6	23	24	342	6.25	34	5	ND	4	80	.3	2	4	108	1.49	.136	10	18	1.41	38	.15	2	1.58	.07	.11	1	85
B 91185	13	507	2	20	.5	23	16	215	3.58	46	5	ND	4	71	.2	2	2	98	1.14	.107	7	25	1.14	24	.17	2	1.10	.08	.08	1	11
B 91186	15	283	2	13	.2	26	15	145	3.02	26	5	ND	5	41	.2	2	3	123	1.07	.100	8	32	1.14	53	.19	7	1.02	.09	.25	1	42
B 91187	6	527	2	22	.3	10	14	252	4.94	19	5	ND	4	79	.2	2	2	109	1.44	.099	11	8	1.06	57	.13	5	1.37	.06	.15	1	310
B 91188	3	369	2	21	.2	6	9	265	4.17	13	5	ND	4	85	.2	2	2	113	1.43	.099	12	8	1.05	38	.12	4	1.30	.06	.13	1	210
B 91189	4	478	4	23	.3	7	16	302	3.96	37	5	ND	5	101	.2	2	2	60	2.74	.101	12	4	.90	38	.01	9	.78	.05	.12	1	22
B 91190	11	1183	2	31	.5	7	16	315	2.99	343	5	ND	3	114	.2	8	2	33	3.39	.099	8	3	.90	93	.01	8	.43	.04	.15	1	6
B 91191	8	330	2	17	.1	12	14	220	3.05	11	5	ND	4	89	.2	2	2	59	1.96	.097	13	9	.86	108	.01	6	.57	.05	.14	1	9
B 91192	41	1165	12	19	.9	67	268	183	11.89	366	5	ND	4	101	.6	4	3	74	1.35	.070	6	16	.80	22	.01	4	1.13	.03	.13	1	21
B 193	34	1624	2	33	1.5	23	12	224	2.65	24	7	ND	6	93	.3	2	2	89	2.16	.081	8	16	1.09	47	.02	3	.66	.04	.14	1	84
B 194	44	2787	2	58	2.1	24	13	192	2.77	44	5	ND	4	93	.6	2	2	101	2.01	.079	11	18	.90	44	.03	6	.66	.06	.10	1	11
RE B 91190	11	1172	2	30	.5	6	15	311	2.95	340	5	ND	3	114	.2	8	2	33	3.36	.097	9	3	.89	95	.01	10	.42	.04	.15	1	7
B 91195	35	5204	2	94	3.6	31	14	208	3.06	16	5	ND	4	59	1.1	2	2	144	1.78	.085	11	22	1.03	90	.04	2	.84	.05	.12	1	33
B 91196	104	1453	2	33	1.3	19	9	219	2.36	11	5	ND	5	64	.2	2	2	142	1.94	.096	13	34	1.10	34	.11	2	1.04	.08	.08	1	210
B 91197	17	644	2	24	.5	22	9	191	2.07	3	5	ND	5	68	.2	2	2	127	1.57	.099	13	29	1.00	37	.20	2	.97	.10	.09	2	22
B 91198	11	383	2	19	.4	20	12	195	2.10	12	5	ND	5	105	.2	2	2	89	1.13	.091	9	39	1.10	33	.23	3	.97	.09	.07	1	6
B 91199	24	294	3	19	.1	20	16	205	2.43	14	5	ND	3	151	.2	2	2	78	2.51	.100	9	21	1.34	27	.22	3	2.27	.09	.04	1	5
B 91200	24	435	2	20	.2	22	27	286	5.15	12	5	ND	3	118	.2	3	2	102	.90	.105	8	33	1.54	46	.21	3	1.84	.07	.07	1	4
B 91201	16	331	2	15	.4	18	14	152	3.21	12	7	ND	6	65	.2	2	2	80	.62	.094	8	17	.79	54	.21	5	1.00	.11	.11	1	6
STANDARD C/AU-R	20	62	37	132	7.0	72	31	1062	3.96	40	18	8	39	52	18.6	16	21	59	.50	.096	40	60	.88	184	.09	32	1.91	.06	.14	12	540
STANDARD C	19	60	39	131	6.9	72	31	1047	3.95	40	17	7	39	52	18.6	15	19	60	.51	.096	40	61	.89	187	.09	36	1.89	.06	.14	14	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 2 1990 DATE REPORT MAILED: Aug 9/90. SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-3109 Page 2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91202	41	113	2	9	.1	15	12	178	2.12	2	5	ND	3	111	.2	2	3	70	1.29	.097	10	18	.85	33	.19	5	.83	.08	.07	1	2
B 91203	15	281	6	13	.1	13	26	185	5.08	21	5	ND	3	139	.2	2	2	66	.89	.116	9	12	.71	59	.19	8	.94	.08	.11	1	2
B 91204	15	509	10	16	.5	17	32	210	6.39	53	5	ND	3	200	.2	3	2	82	1.33	.098	11	19	.72	43	.20	5	.96	.07	.09	1	6
B 91205	6	418	7	24	.3	18	22	281	6.38	38	5	ND	1	76	.2	2	4	117	.97	.114	8	23	1.32	46	.20	8	1.35	.10	.09	1	11
B 91206	23	556	3	24	.4	21	46	289	7.92	14	5	ND	1	76	.3	2	2	126	1.63	.114	7	26	1.47	36	.19	16	1.53	.09	.14	1	86
B 91207	8	517	6	22	.5	19	24	275	6.61	12	5	ND	1	192	.2	3	2	117	1.93	.119	8	22	1.39	43	.18	8	1.47	.08	.14	1	128
B 91208	4	689	6	29	.4	21	34	354	9.02	16	5	ND	1	148	.7	4	2	126	1.81	.138	8	27	1.96	30	.21	9	2.01	.07	.34	1	98
B 91209	2	365	4	25	.2	17	14	358	6.46	17	5	ND	1	141	.2	2	2	122	2.19	.148	6	19	1.85	37	.18	7	1.99	.06	.16	1	61
B 91210	2	426	5	23	.1	16	11	321	6.59	14	5	ND	1	89	.2	3	2	142	1.65	.152	6	23	1.68	65	.24	4	1.90	.08	.56	2	64
B 91211	1	390	7	21	.3	19	13	304	6.96	14	5	ND	2	116	.2	2	2	119	2.16	.149	7	21	1.39	53	.21	8	1.72	.10	.37	1	60
B 91212	1	178	7	21	.2	14	13	323	6.13	8	5	ND	1	89	.2	2	2	124	1.88	.151	7	24	1.53	64	.23	3	1.79	.11	.60	1	46
B [illegible]13	1	117	4	20	.1	13	5	334	5.54	13	5	ND	1	68	.2	2	2	132	1.79	.151	6	20	1.27	58	.21	9	1.62	.11	.48	1	23
B [illegible]14	6	125	9	18	.1	16	24	359	5.76	7	5	ND	1	80	.2	2	2	134	1.88	.157	5	21	.90	35	.18	5	1.56	.12	.16	1	33
B 91215	6	160	9	18	.2	16	15	282	5.03	4	5	ND	1	74	.2	2	2	124	1.85	.154	5	19	.70	36	.17	5	1.55	.11	.15	1	35
B 91216	9	306	7	14	.2	14	18	179	5.50	9	5	ND	2	90	.2	2	3	94	1.32	.153	7	18	.62	37	.21	3	1.67	.10	.12	1	41
RE B 91221	3	238	8	14	.1	21	13	164	4.11	10	5	ND	3	34	.2	2	3	157	.51	.094	7	35	1.32	42	.26	3	2.25	.09	.56	1	54
B 91217	7	342	6	15	.2	17	16	244	3.92	15	5	ND	1	74	.2	2	2	78	1.90	.140	4	14	.71	39	.16	5	1.48	.13	.14	1	78
B 91218	5	201	7	18	.1	14	14	287	4.13	3	5	ND	1	85	.2	2	2	100	2.11	.151	4	18	.84	44	.19	6	1.85	.15	.18	1	42
B 91219	5	195	6	16	.1	16	13	263	4.20	10	5	ND	1	86	.2	2	3	95	1.94	.148	5	16	.80	28	.18	5	1.82	.12	.13	1	36
B 91220	5	304	9	15	.2	13	20	157	6.53	25	5	ND	2	79	.2	2	3	132	1.05	.147	9	21	.81	31	.22	3	1.88	.07	.23	1	111
B 91221	3	241	8	14	.1	21	13	162	4.05	8	5	ND	3	33	.2	2	2	155	.50	.092	7	34	1.29	41	.26	3	2.22	.09	.55	1	67
B 91222	3	251	9	15	.1	29	17	179	3.50	3	5	ND	3	48	.2	2	2	179	.62	.085	4	39	1.35	79	.26	2	2.71	.11	.75	1	42
B 91223	6	1357	4	14	.8	15	8	120	3.50	6	5	ND	4	53	.2	2	2	147	.47	.084	5	25	1.03	44	.17	2	1.84	.09	.43	1	400
B 91224	4	440	6	12	.5	17	11	131	3.36	8	5	ND	3	30	.2	2	3	131	.38	.080	6	35	1.04	45	.17	2	1.65	.09	.48	1	102
B 91225	5	447	8	13	.1	22	13	227	3.72	15	5	ND	3	37	.2	2	2	172	.58	.081	4	30	1.29	58	.25	2	1.89	.11	.77	1	65
B 91226	3	1853	7	17	.9	20	12	189	3.42	8	5	ND	2	44	.2	2	2	155	.77	.095	6	36	1.28	41	.27	3	1.73	.12	.45	1	370
B 91227	2	409	9	14	.2	14	22	173	6.24	13	5	ND	1	58	.2	2	2	106	1.21	.139	8	13	.96	46	.20	3	1.55	.10	.18	1	72
B 91228	2	340	6	15	.2	17	14	198	3.16	9	5	ND	2	83	.2	2	2	130	.67	.086	7	31	1.01	43	.17	2	1.65	.10	.31	1	59
B 91229	2	382	6	16	.2	18	14	178	3.69	15	5	ND	3	58	.2	2	2	145	.62	.086	5	24	1.12	48	.19	2	1.71	.10	.52	1	74
B 91230	2	209	7	13	.1	19	17	171	4.23	25	5	ND	3	101	.2	2	2	128	.52	.082	5	30	1.21	83	.21	2	2.16	.10	.82	1	33
B [illegible]231	6	249	8	9	.1	23	14	145	4.56	51	5	ND	3	70	.2	2	2	126	.41	.075	5	18	1.05	63	.21	2	1.79	.09	.66	1	43
B 91232	6	263	6	12	.1	21	14	154	3.55	10	5	ND	3	36	.2	2	2	144	.49	.083	6	30	1.03	34	.23	3	1.31	.09	.48	1	86
B 91233	10	566	7	13	.3	17	23	154	5.16	5	5	ND	3	31	.2	2	4	136	.66	.096	7	16	1.00	37	.21	2	1.19	.08	.41	1	140
B 91234	4	160	5	12	.1	15	11	150	3.24	14	5	ND	3	51	.2	2	3	154	.57	.093	8	34	1.15	36	.27	2	1.31	.13	.62	1	49
B 91235	2	114	6	13	.1	14	13	165	3.36	53	5	ND	3	49	.2	2	2	140	.52	.096	10	21	1.06	35	.26	2	1.16	.10	.60	1	28
B 91236	2	150	6	30	.1	16	19	555	4.28	12	5	ND	2	84	.2	2	2	127	2.20	.173	6	26	1.09	25	.23	5	1.83	.11	.23	1	52
B 91237	32	97	31	34	.6	16	15	714	4.69	21	5	ND	2	159	.2	2	2	113	4.28	.159	6	24	1.62	765	.16	6	1.49	.09	.23	1	35
STANDARD C/AU-R	20	61	44	141	7.5	72	32	1102	4.22	43	22	8	39	52	18.9	18	22	61	.61	.094	41	60	.97	182	.09	31	2.05	.07	.13	13	540
STANDARD C	18	58	40	132	6.8	71	32	1050	3.97	38	20	7	38	53	18.4	15	20	58	.58	.095	38	60	.90	182	.09	35	1.91	.07	.14	12	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91238	18	150	7	29	.4	15	16	458	5.88	666	5	ND	2	66	.4	17	2	124	1.36	.151	6	19	1.20	88	.16	14	1.66	.07	.23	1	52
B 91239	1	117	2	35	.1	16	13	457	4.36	26	5	ND	2	69	.2	2	4	137	1.62	.169	7	28	1.07	82	.20	6	1.61	.10	.18	2	28
B 91240	1	106	2	37	.1	16	14	457	4.69	13	5	ND	2	73	.2	2	2	146	1.53	.169	9	32	1.06	59	.20	9	1.71	.07	.18	2	13
B 91241	1	75	2	27	.1	15	10	483	3.70	8	5	ND	2	98	.2	2	2	114	1.92	.168	6	26	1.10	26	.19	10	1.84	.11	.16	1	33
B 91242	12	226	2	26	.2	15	20	361	4.94	23	5	ND	1	144	.2	2	2	112	1.40	.148	5	17	1.09	33	.18	6	1.61	.11	.27	1	38
B 91243	29	167	2	23	.2	17	17	346	5.33	17	5	ND	2	89	.2	2	2	109	1.70	.139	5	18	1.08	36	.16	4	1.84	.09	.14	1	11
B 91244	16	202	3	21	.1	16	24	344	5.62	438	5	ND	1	69	.3	3	2	106	2.14	.141	5	16	1.06	31	.13	6	1.76	.06	.12	1	35
B 91245	6	197	4	16	.1	20	24	271	4.93	22	5	ND	1	79	.2	2	2	84	1.62	.145	5	15	.85	27	.15	5	1.64	.06	.11	1	13
B 91246	4	283	2	15	.1	20	29	235	5.77	32	5	ND	1	55	.2	2	4	72	1.40	.143	6	13	.77	22	.14	5	1.60	.06	.11	1	6
B 91247	5	183	2	21	.2	17	14	288	4.36	11	5	ND	1	72	.2	2	2	91	1.76	.141	5	16	.91	28	.17	4	1.64	.10	.17	1	14
RE B 91252	1	186	2	17	.1	19	17	277	4.70	32	5	ND	1	117	.2	2	2	99	1.40	.138	6	21	.99	25	.15	9	1.61	.08	.15	1	38
B 248	3	203	2	17	.1	14	22	236	4.80	11	5	ND	1	51	.2	2	2	82	1.90	.138	5	13	.83	25	.15	5	1.67	.06	.11	1	870
B 249	2	213	2	20	.1	18	14	264	3.97	15	5	ND	1	77	.2	2	3	89	1.45	.143	5	15	.92	26	.17	6	1.53	.08	.13	1	43
B 91250	5	281	2	27	.4	17	19	328	5.03	11	11	ND	2	67	.2	2	2	103	1.60	.145	5	14	1.23	27	.20	5	1.85	.07	.23	1	100
B 91251	2	144	2	22	.1	16	12	297	4.53	12	5	ND	1	120	.2	2	4	111	1.91	.139	5	19	.97	23	.17	10	1.82	.09	.15	1	18
B 91252	1	190	2	18	.1	20	17	289	4.90	34	5	ND	1	119	.2	2	2	101	1.46	.142	6	23	1.04	23	.16	8	1.68	.08	.15	1	35
B 91253	1	436	3	15	.2	35	40	199	7.32	25	5	ND	1	91	.4	2	2	86	1.25	.129	5	12	.76	20	.13	8	1.41	.06	.09	1	200
B 91254	3	102	2	18	.2	14	13	283	4.19	10	5	ND	1	62	.2	2	2	105	1.71	.140	5	16	.79	26	.15	7	1.62	.09	.15	1	14
B 91255	3	76	2	22	.2	17	14	325	4.49	6	8	ND	2	75	.2	2	2	111	1.69	.138	6	19	.99	37	.18	7	1.66	.09	.20	1	12
B 91256	5	50	2	19	.1	13	10	291	3.93	8	5	ND	1	108	.2	2	2	102	1.77	.142	5	17	.87	26	.15	7	1.60	.08	.11	1	6
B 91257	5	82	2	22	.2	17	13	401	4.79	8	5	ND	1	275	.2	2	2	122	2.52	.137	6	26	1.23	40	.16	5	1.53	.08	.28	1	13
B 91258	15	50	2	20	.2	15	12	316	4.44	18	5	ND	1	86	.2	3	3	117	1.71	.148	4	19	1.07	30	.18	8	1.64	.10	.24	1	9
B 91259	20	115	2	17	.1	16	13	318	4.34	18	5	ND	1	104	.2	2	2	107	1.71	.146	5	19	.93	24	.16	9	1.73	.11	.15	1	20
B 91260	30	217	2	18	.2	18	23	295	4.63	11	6	ND	1	67	.2	2	2	91	1.49	.148	5	16	.98	21	.15	8	1.64	.09	.14	1	48
B 91261	44	178	2	21	.2	19	24	318	5.20	11	5	ND	1	66	.2	2	2	107	1.61	.151	5	18	1.07	25	.18	4	1.67	.09	.23	1	62
B 91262	15	195	2	19	.1	16	22	266	5.12	25	5	ND	1	48	.2	2	2	96	1.29	.155	5	15	1.08	17	.16	9	1.58	.07	.15	1	30
B 91263	6	119	2	19	.1	15	16	277	5.12	13	5	ND	2	72	.2	2	5	115	1.80	.162	6	17	1.00	19	.16	7	1.72	.08	.17	1	24
B 91264	6	139	2	18	.1	15	14	313	4.70	12	5	ND	1	69	.2	2	5	107	1.56	.168	5	14	1.12	23	.16	5	1.67	.10	.21	1	30
B 91265	3	133	3	11	.1	12	21	223	4.86	51	5	ND	1	91	.2	2	2	121	1.66	.152	7	9	.72	22	.13	6	1.32	.07	.11	1	30
B 91266	1	14	2	7	.1	7	10	152	3.80	9	5	ND	1	94	.2	2	2	146	1.72	.169	7	5	.34	20	.16	7	1.12	.06	.09	1	14
B ..267	1	42	2	10	.1	11	10	185	3.67	8	5	ND	1	87	.2	2	3	130	1.70	.174	6	9	.55	22	.16	6	1.27	.07	.10	1	24
B 91268	2	368	2	10	.2	14	22	140	4.75	8	5	ND	1	120	.2	2	3	69	1.23	.159	6	6	.46	19	.15	4	1.02	.05	.08	1	48
B 91269	2	127	2	10	.2	10	14	181	4.05	24	7	ND	2	92	.2	2	2	104	1.87	.152	7	7	.57	28	.15	14	1.35	.08	.14	1	65
B 91270	6	173	2	13	.1	22	16	144	3.54	18	5	ND	3	88	.2	2	2	153	.72	.099	5	19	1.08	49	.22	109	1.30	.07	.51	1	81
B 91271	3	147	2	11	.1	17	10	153	3.62	19	5	ND	4	57	.2	2	2	142	.39	.070	4	21	1.11	50	.20	3	1.46	.07	.59	1	48
B 91272	3	110	2	12	.1	17	11	157	2.87	5	6	ND	4	107	.2	2	2	149	.55	.071	5	26	1.08	58	.23	3	1.37	.09	.59	1	58
B 91273	3	251	2	13	.1	18	28	163	4.52	11	5	ND	4	80	.2	2	4	131	.53	.085	8	20	1.44	44	.24	3	1.54	.09	.55	1	39
STANDARD C/AU-R	19	63	36	131	7.1	71	31	1028	3.88	38	22	7	39	53	18.8	16	21	59	.48	.091	39	60	.90	177	.09	33	1.88	.06	.14	12	520
STANDARD C	19	59	40	133	6.8	72	31	1049	3.99	42	16	6	38	53	19.0	15	22	60	.52	.094	40	60	.89	178	.09	36	1.90	.06	.14	11	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91274	3	132	4	11	.2	13	14	156	2.78	6	6	ND	2	95	.6	2	2	119	.73	.084	9	20	1.27	37	.20	58	1.24	.08	.44	2	13
B 91275	4	110	4	11	.2	14	13	151	2.44	5	5	ND	3	100	.6	2	2	123	.65	.085	9	17	.98	41	.20	3	1.07	.08	.42	2	82
B 91276	4	277	4	12	.3	19	24	191	4.48	9	5	ND	1	132	1.0	2	2	107	1.17	.138	7	20	.84	32	.17	5	1.19	.07	.18	2	34
B 91277	3	188	2	8	.2	12	11	136	2.61	11	5	ND	1	77	.4	2	2	51	1.65	.104	6	8	.33	19	.11	6	.95	.04	.07	1	27
B 91278	3	460	3	9	.3	14	14	139	3.11	15	5	ND	1	112	.4	2	2	54	1.53	.108	8	9	.42	24	.12	7	.93	.04	.06	1	10
B 91279	3	147	3	11	.1	12	11	197	2.86	13	5	ND	1	133	.2	2	4	66	1.49	.108	8	11	.50	28	.12	6	.95	.04	.06	1	23
B 91280	3	176	5	11	.2	11	10	193	2.98	20	5	ND	1	64	.3	2	2	66	1.27	.105	7	10	.52	20	.10	4	1.07	.04	.06	1	15
B 91281	4	196	2	10	.1	13	11	160	2.77	13	5	ND	1	67	.7	2	2	55	1.26	.110	8	10	.43	29	.11	5	.81	.05	.07	1	20
RE B 91286	4	381	2	12	.1	14	17	175	3.10	65	5	ND	1	51	.5	2	2	58	1.17	.101	7	10	.58	27	.11	2	.73	.04	.08	2	35
B 91282	12	194	7	12	.1	12	10	216	2.82	28	5	ND	1	130	.6	7	2	55	2.89	.112	7	9	.52	56	.09	12	.93	.05	.09	2	34
B 91283	4	238	6	9	.2	15	10	148	2.57	17	5	ND	1	57	.3	2	2	63	1.26	.114	7	11	.36	31	.12	8	.83	.06	.09	1	35
B [illegible]84	3	266	6	7	.2	14	11	138	2.45	15	5	ND	1	130	.4	2	2	54	1.45	.112	8	11	.35	60	.12	6	.81	.06	.08	1	25
B [illegible]35	2	279	5	10	.1	14	16	166	3.05	14	5	ND	1	81	.8	2	2	62	1.70	.109	8	10	.40	28	.10	8	.83	.04	.08	1	23
B 91286	4	388	3	12	.2	15	18	181	3.22	68	5	ND	1	53	.6	2	2	60	1.21	.102	8	10	.61	26	.11	3	.76	.05	.08	1	27
B 91287	4	300	3	14	.2	20	14	199	3.38	21	5	ND	2	47	.3	2	4	88	.83	.101	7	18	.82	23	.15	5	.98	.06	.12	2	10
B 91288	3	187	4	8	.1	15	13	184	3.60	12	5	ND	1	41	.2	2	3	71	1.04	.107	7	18	.38	22	.10	5	.89	.05	.07	1	23
B 91289	14	195	4	12	.2	15	15	233	3.53	575	5	ND	1	54	.3	2	2	73	1.64	.101	8	11	.60	22	.07	7	.92	.05	.07	1	85
B 91290	4	109	2	11	.1	7	10	200	3.26	8	5	ND	1	67	.6	2	4	79	1.53	.102	6	5	.58	21	.10	5	.97	.05	.10	2	31
B 91291	4	285	6	13	.1	8	14	216	3.99	19	5	ND	1	74	.9	7	2	90	1.82	.120	7	8	.65	26	.12	11	1.24	.05	.10	2	21
B 91292	4	115	5	10	.1	9	11	191	3.76	7	5	ND	1	116	.5	2	2	81	1.49	.124	6	5	.59	44	.12	10	1.13	.06	.10	1	19
B 91293	3	155	2	11	.1	8	11	175	3.89	8	5	ND	1	101	.6	2	3	73	1.44	.111	6	6	.48	26	.11	6	1.09	.05	.08	1	22
STANDARD C/AU-R	19	56	39	127	6.7	66	31	1028	3.87	38	23	7	36	51	18.4	16	22	57	.48	.092	36	56	.88	171	.08	33	1.82	.06	.14	12	530
STANDARD C	18	58	39	131	6.6	67	31	1050	3.96	37	20	6	36	53	18.6	15	18	55	.51	.093	37	56	.91	180	.07	34	1.88	.06	.14	11	-

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GEOCHEMICAL ANALYSIS CERTIFICATE

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91294	4	149	7	15	.2	12	9	156	2.37	5	5	ND	2	26	.6	2	8	105	.60	.095	7	28	.46	41	.19	4	.89	.05	.14	1	22
B 91295	3	139	7	18	.1	18	15	221	1.39	4	5	ND	3	14	.2	2	2	106	.47	.091	9	30	.79	19	.14	2	1.02	.05	.07	1	7
B 91296	3	182	2	14	.1	12	14	175	1.85	6	6	ND	3	16	.4	2	2	97	.54	.091	8	20	.46	24	.16	3	.85	.05	.06	1	9
B 91297	6	296	7	15	.2	5	10	145	5.75	2	5	ND	2	80	.2	2	2	96	.63	.132	6	10	.75	25	.21	5	1.45	.04	.08	1	59
B 91298	6	253	3	18	.3	8	13	166	3.90	5	5	ND	1	83	.6	2	2	86	.88	.107	7	11	1.02	18	.18	2	1.52	.05	.06	1	54
B 91299	6	426	8	17	.3	7	16	166	5.19	5	5	ND	1	64	.7	3	5	99	.89	.127	8	9	.92	23	.18	5	1.59	.04	.07	1	63
B 91300	9	370	12	29	.3	14	15	218	6.11	16	7	ND	1	47	.7	2	2	117	.67	.136	10	40	1.11	26	.22	2	2.02	.04	.06	1	27
B 91301	4	253	5	16	.3	10	11	128	4.16	4	5	ND	1	49	.3	2	2	93	.70	.128	8	25	.81	30	.19	2	1.34	.05	.07	1	21
B 91302	7	386	5	23	.6	14	12	185	5.18	16	5	ND	1	27	.2	2	4	121	.56	.126	10	29	1.04	48	.19	2	1.85	.03	.12	1	32
B 03	3	313	5	28	.1	10	17	294	4.66	2	5	ND	2	47	.3	2	2	141	.68	.124	11	27	1.31	33	.21	4	1.84	.04	.25	1	21
B 91304	6	225	3	12	.3	15	12	256	3.20	9	5	ND	2	47	.3	3	2	77	3.40	.102	7	16	.89	31	.12	2	.78	.04	.17	1	19
B 91305	11	385	6	9	.2	19	18	171	2.49	4	5	ND	2	39	.4	2	2	65	2.79	.087	7	12	.52	22	.10	3	.47	.04	.09	1	58
B 91306	18	633	2	11	.3	18	30	247	4.95	14	5	ND	2	48	.6	2	3	68	3.54	.089	7	15	.64	20	.11	2	.56	.02	.09	1	37
B 91307	8	349	2	13	.2	9	20	257	4.46	5	5	ND	1	53	.2	2	2	73	2.63	.101	6	9	.80	26	.10	6	.95	.03	.14	1	25
B 91308	2	179	6	15	.2	8	13	332	4.00	2	5	ND	1	57	.2	2	2	91	2.16	.098	7	6	1.27	23	.11	2	1.39	.04	.17	2	14
B 91309	4	317	2	11	.2	11	18	199	3.45	5	5	ND	1	39	.2	2	2	72	1.48	.100	6	12	.84	29	.12	2	.92	.04	.17	1	23
B 91310	2	588	2	23	.5	17	31	222	6.25	7	5	ND	1	35	.4	2	2	70	1.19	.094	5	30	1.01	18	.15	2	1.04	.04	.10	1	34
B 91311	4	333	2	12	.2	19	27	166	5.39	5	5	ND	1	32	.2	2	2	64	1.24	.111	7	21	.61	24	.13	2	.73	.04	.10	1	35
B 91312	4	260	2	8	.2	12	16	234	3.52	2	5	ND	1	47	.2	2	3	54	4.43	.081	6	17	.49	22	.11	2	.55	.03	.16	1	34
B 91313	22	115	2	6	.1	10	11	113	2.53	2	5	ND	3	29	.2	2	3	36	1.43	.081	6	8	.43	20	.12	2	.55	.04	.11	1	6
B 91314	95	507	9	14	.4	18	45	163	8.40	2	6	ND	1	38	.9	2	2	44	2.53	.078	4	11	.55	26	.10	2	.65	.02	.18	1	30
B 91315	64	404	5	22	.4	11	23	209	4.58	2	5	ND	1	41	.3	2	2	51	2.61	.068	8	7	.96	30	.12	2	.96	.03	.36	1	43
B 91316	4	202	7	21	.4	18	19	229	4.57	4	5	ND	1	45	.3	4	2	73	1.95	.109	5	17	1.35	15	.13	2	1.42	.05	.25	1	17
B 91317	4	183	7	36	.5	17	18	248	4.41	3	5	ND	1	61	.5	2	2	55	1.64	.104	5	12	.91	13	.12	2	1.25	.04	.13	1	25
B 91318	4	178	8	79	.4	17	21	316	4.51	2	5	ND	1	56	.4	2	4	64	2.36	.108	5	17	1.24	15	.13	6	1.50	.06	.23	1	36
B 91319	6	131	2	27	.3	20	22	276	4.67	3	5	ND	1	45	.2	2	9	69	1.58	.108	5	17	1.30	16	.13	7	1.50	.06	.22	1	19
B 91320	6	156	4	38	.3	20	22	275	4.78	3	5	ND	1	46	.4	2	2	68	1.69	.118	6	17	1.20	27	.14	3	1.64	.07	.21	1	25
P 321	4	116	2	24	.3	19	15	215	4.16	3	5	ND	1	39	.5	2	2	55	1.43	.105	5	14	.90	14	.12	2	1.32	.05	.10	1	23
.322	6	246	2	22	.4	17	16	207	4.03	2	5	ND	1	46	.2	2	6	52	1.71	.107	5	11	.69	15	.11	2	1.22	.06	.07	1	33
B 91323	5	237	2	20	.4	23	18	229	4.20	2	5	ND	1	36	.2	2	2	56	1.51	.105	5	24	.73	16	.12	2	1.29	.08	.10	1	20
B 91324	2	215	2	22	.4	21	18	234	4.01	5	5	ND	1	53	.2	2	2	52	1.97	.106	5	14	.71	14	.11	3	1.37	.06	.07	1	43
RE B 91320	5	142	5	33	.3	19	18	238	4.58	2	5	ND	1	44	.2	2	2	65	1.61	.114	5	15	1.05	24	.12	5	1.56	.06	.20	1	20
B 91325	1	224	2	18	.5	18	14	167	4.03	4	5	ND	1	70	.3	2	2	45	1.67	.100	5	11	.55	18	.11	2	1.17	.04	.07	1	50
B 91326	2	149	4	20	.3	16	13	212	3.30	4	5	ND	1	30	.2	2	6	65	1.44	.113	6	14	.95	16	.14	4	1.40	.07	.13	1	24
B 91327	4	100	4	28	.2	15	16	261	3.88	2	5	ND	1	34	.3	2	2	63	2.14	.113	6	14	.95	15	.12	5	1.71	.06	.09	1	22
B 91328	2	368	3	21	.6	18	30	179	5.36	3	5	ND	1	44	.2	2	5	42	1.73	.107	4	10	.47	16	.11	2	1.19	.05	.07	1	48
B 91329	3	360	6	20	.7	21	26	175	4.81	7	5	ND	1	65	.6	3	3	37	2.47	.101	4	9	.49	15	.10	3	1.35	.04	.07	1	32
STANDARD C/AU-R	20	60	42	138	7.2	73	33	1095	4.20	40	23	7	40	51	19.0	17	21	58	.55	.096	39	59	.95	179	.07	31	2.00	.06	.13	11	480
STANDARD C	19	58	40	131	6.9	69	31	1051	3.99	39	23	7	37	53	18.3	15	20	55	.52	.093	37	57	.89	179	.07	34	1.88	.06	.14	13	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 7 1990 DATE REPORT MAILED: Aug 11/90. SIGNED BY .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-3235

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91330	8	431	9	21	.4	25	22	195	4.57	6	5	ND	1	82	.5	2	2	40	2.49	.111	4	10	.50	9	.11	8	1.24	.04	.08	1	30
B 91331	3	269	4	29	.3	23	33	235	5.22	7	5	ND	1	50	.6	2	2	60	2.23	.124	5	12	.84	13	.13	4	1.50	.05	.09	1	32
B 91332	2	317	7	26	.1	23	22	313	4.76	14	5	ND	1	51	.7	2	2	74	1.96	.119	6	13	1.23	13	.12	3	1.40	.05	.11	1	15
B 91333	6	227	2	19	.2	19	21	208	4.47	7	5	ND	1	31	.4	2	2	44	2.47	.104	4	10	.60	5	.10	6	1.36	.04	.07	1	25
B 91334	4	257	2	25	.2	19	38	240	5.76	14	5	ND	1	36	.8	2	2	52	2.53	.110	4	12	.76	8	.11	7	1.39	.04	.07	1	37
B 91335	2	203	6	32	.3	17	20	290	3.56	9	5	ND	1	33	.3	2	3	78	1.59	.117	6	18	1.27	13	.15	4	1.54	.06	.26	1	14
B 91336	4	230	4	39	.2	23	22	342	5.15	4	5	ND	1	39	.5	2	2	96	1.81	.172	5	24	1.40	12	.16	2	1.77	.06	.14	1	17
B 91337	2	112	2	52	.2	23	15	370	3.99	9	5	ND	1	43	.9	2	2	106	1.93	.161	5	27	1.66	23	.18	8	1.99	.07	.35	1	8
B 91338	2	59	2	22	.1	14	5	234	2.25	9	5	ND	1	29	.4	2	2	67	1.76	.116	6	15	.99	5	.13	4	1.51	.06	.05	1	8
B 91339	4	171	3	21	.2	15	14	210	3.38	8	5	ND	1	25	.2	2	2	64	1.49	.116	6	17	.88	2	.12	5	1.29	.05	.06	1	13
B 91340	5	168	6	24	.3	18	18	255	3.73	11	5	ND	1	31	.4	2	2	73	1.93	.120	5	15	1.06	6	.13	2	1.39	.06	.11	1	15
B 341	12	214	2	27	.1	11	10	266	3.37	23	5	ND	1	21	.4	2	2	72	1.75	.116	5	15	1.13	7	.11	7	1.61	.05	.07	1	10
b 342	29	544	13	27	.5	18	17	321	6.23	24	5	ND	1	42	.5	2	2	48	2.60	.106	4	12	.93	4	.10	4	1.80	.04	.03	1	49
B 91343	46	386	6	25	.3	18	21	205	4.61	8	5	ND	1	49	.6	2	2	40	3.76	.106	5	9	.52	7	.10	6	1.54	.04	.03	1	39
B 91344	25	538	7	30	.5	21	18	356	5.00	33	5	ND	1	40	.6	2	2	58	2.43	.103	5	13	.99	8	.09	3	1.52	.04	.04	1	23
B 91345	37	431	9	25	1.3	20	16	251	3.60	15	5	ND	1	43	.5	2	2	46	2.67	.111	5	12	.63	27	.12	4	1.57	.04	.03	2	16
B 91346	23	128	7	21	.3	15	15	216	3.30	18	5	ND	1	37	.5	2	2	42	2.34	.113	5	10	.52	66	.11	6	1.20	.04	.05	1	12
B 91347	57	206	3	28	.4	18	17	315	4.01	11	5	ND	1	32	.5	2	2	42	2.15	.107	5	11	.54	6	.10	8	1.42	.05	.04	1	20
B 91348	32	245	4	27	.2	20	22	242	4.35	7	5	ND	1	62	.3	2	2	44	2.00	.104	4	10	.64	16	.12	2	1.10	.03	.04	1	27
B 91349	16	223	9	34	.2	19	26	296	4.13	7	5	ND	1	59	.3	2	2	58	2.54	.104	4	13	.93	16	.11	4	1.38	.03	.07	1	24
B 91350	8	205	6	35	.3	21	20	298	4.49	10	5	ND	1	62	.4	2	2	61	2.40	.105	5	14	1.04	20	.13	6	1.48	.05	.10	1	27
B 91351	5	87	3	36	.3	20	18	291	4.60	10	5	ND	1	45	.5	2	2	66	1.82	.108	5	15	1.23	19	.13	4	1.52	.04	.13	1	25
B 91352	5	105	9	27	.1	18	17	238	4.42	9	5	ND	1	40	.2	2	2	69	1.36	.108	6	17	1.11	17	.14	3	1.38	.05	.20	1	13
B 91353	8	389	7	22	.3	20	30	215	5.37	7	5	ND	1	36	.5	2	2	75	1.74	.100	5	17	1.02	15	.13	2	1.11	.05	.22	1	62
B 91354	10	405	2	13	.4	15	32	127	3.59	9	5	ND	3	36	1.0	2	2	44	2.43	.072	4	11	.19	20	.10	2	.29	.03	.08	1	65
B 91355	42	250	6	13	.3	13	38	143	3.77	8	5	ND	3	45	.5	2	2	40	2.22	.078	4	9	.25	23	.10	3	.34	.03	.07	1	26
B 91356	35	88	12	18	.1	13	20	168	3.41	8	5	ND	2	42	.3	2	2	56	1.96	.090	5	17	.53	25	.12	3	.59	.04	.07	1	16
B 91357	3	232	2	34	.1	22	24	382	4.51	10	5	ND	1	52	.3	2	2	102	1.89	.127	5	22	1.04	18	.16	3	1.27	.05	.16	1	34
B 91358	2	122	2	50	.1	13	16	486	3.95	10	5	ND	1	59	.5	3	2	128	2.21	.153	6	24	1.18	16	.16	8	1.74	.06	.18	1	9
B 91359	17	423	11	27	.2	17	34	356	6.60	26	5	ND	1	88	.6	2	2	106	2.83	.125	7	16	1.42	22	.10	6	1.45	.04	.27	1	60
b 360	2	520	8	18	.1	15	33	272	6.37	8	5	ND	1	61	1.0	2	2	90	1.24	.141	5	15	1.54	29	.13	2	1.46	.05	.36	1	69
B 91361	1	141	9	29	.1	7	14	323	3.93	10	5	ND	1	71	.2	2	2	87	1.78	.179	5	5	1.11	46	.15	2	1.35	.07	.27	1	16
B 91362	2	118	9	43	.2	8	18	284	3.99	12	5	ND	1	75	.5	2	2	71	2.19	.174	5	5	.84	33	.13	3	1.24	.04	.16	1	21
RE B 91358	2	124	4	52	.1	15	17	500	4.08	11	5	ND	1	58	.4	2	2	130	2.19	.159	6	25	1.23	22	.16	6	1.78	.06	.19	1	12
B 91363	3	345	7	27	.3	17	31	240	5.78	11	5	ND	1	63	.7	2	2	63	1.54	.134	4	15	1.10	16	.12	3	1.26	.05	.14	1	29
B 91364	4	301	10	26	.2	21	22	230	5.58	9	5	ND	1	52	.7	2	2	66	1.53	.132	4	14	1.20	17	.13	2	1.35	.03	.16	1	31
STANDARD C/AU-R	19	58	37	131	6.9	73	32	1061	3.95	42	25	7	30	52	18.5	15	21	55	.50	.092	37	56	.92	178	.08	34	1.88	.06	.14	11	480
STANDARD C	19	58	41	131	6.7	73	31	1050	3.95	40	21	7	38	53	18.6	15	22	55	.51	.094	37	56	.92	180	.07	35	1.88	.06	.14	12	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

CHUCH,

BP Resources Canada Ltd. PROJECT 540 LOC 10144 File # 90-3282 Page 1

700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91365	1	504	8	39	.2	10	23	459	4.52	10	5	ND	2	92	.7	2	2	131	1.15	.155	10	14	1.23	52	.18	4	1.54	.05	.07	2	52
B 91366	1	347	4	39	.3	10	19	386	4.75	9	5	ND	2	115	.5	2	4	152	1.56	.155	10	14	.98	28	.14	6	1.49	.05	.08	1	11
B 91367	1	342	12	40	.2	10	17	334	4.95	7	5	ND	2	212	.2	2	2	161	1.63	.177	10	16	.81	39	.15	2	1.39	.05	.09	2	13
B 91368	1	559	8	40	.2	10	14	293	4.41	5	5	ND	2	121	.8	2	2	144	1.57	.150	8	16	.78	32	.17	2	1.07	.05	.11	1	48
B 91369	1	749	5	37	.4	11	16	313	4.19	6	5	ND	2	121	.4	2	2	131	1.73	.163	9	16	.82	35	.16	3	1.20	.06	.10	1	51
B 91370	2	833	6	39	.3	14	16	286	4.47	7	5	ND	2	129	1.0	2	2	146	1.51	.172	10	28	.84	42	.18	8	1.26	.06	.14	1	49
B 91371	1	854	6	47	.4	13	14	267	4.55	3	5	ND	2	115	.5	2	2	155	1.50	.147	9	24	.69	37	.18	4	1.07	.05	.12	1	50
B 91372	1	955	2	48	.2	11	13	316	4.66	3	5	ND	1	96	.3	2	2	150	1.61	.164	9	23	.86	28	.17	2	1.16	.05	.09	1	28
B 91373	1	1798	6	66	.9	9	21	379	4.91	9	5	ND	2	110	1.2	2	2	153	1.54	.140	8	17	1.10	43	.19	2	1.31	.05	.13	1	90
B [illegible]74	1	2883	8	75	1.0	13	18	357	4.87	6	5	ND	2	95	.9	2	2	159	.88	.155	7	22	1.13	39	.18	2	1.25	.05	.13	1	250
B 91375	1	899	8	41	.2	8	13	258	6.01	4	5	ND	2	87	.7	2	2	195	1.49	.179	8	12	.63	31	.16	6	.97	.05	.09	1	57
B 91376	1	1571	4	53	.4	12	15	289	5.22	8	5	ND	3	98	.6	2	2	184	2.19	.408	14	13	.87	47	.16	2	1.10	.05	.17	1	133
B 91377	1	697	2	46	.1	10	16	293	5.90	7	5	ND	4	113	.7	2	2	191	1.93	.292	13	13	.91	36	.17	12	1.26	.05	.12	1	27
B 91378	2	871	2	45	.3	10	20	314	5.30	6	5	ND	3	92	.4	2	2	162	2.11	.352	13	11	.97	26	.15	3	1.20	.06	.15	1	105
B 91379	2	1203	6	45	.8	13	20	274	4.88	10	5	ND	2	74	1.0	2	2	134	1.59	.180	9	20	.78	38	.18	2	1.15	.06	.13	1	120
B 91380	2	1212	2	43	.3	8	12	249	4.44	2	5	ND	1	108	.7	2	2	151	1.63	.188	9	11	.78	60	.18	3	1.15	.06	.19	1	116
B 91381	1	1090	3	56	.2	10	15	295	5.00	3	5	ND	1	106	.5	2	2	172	1.57	.185	9	12	.87	74	.19	4	1.27	.06	.18	1	70
B 91382	1	654	8	46	.3	9	13	248	5.16	3	5	ND	2	92	.2	2	2	170	1.44	.187	9	12	.72	55	.18	4	1.05	.05	.13	1	73
B 91383	1	1049	6	48	.2	13	19	349	5.06	4	5	ND	1	142	.8	2	2	133	1.96	.169	8	15	1.16	28	.16	2	1.14	.05	.09	1	89
B 91384	2	1509	4	56	.6	13	14	292	4.76	6	5	ND	3	112	.8	2	2	165	2.06	.176	9	15	.80	60	.19	5	1.25	.06	.18	1	70
B 91385	2	2810	2	48	.6	9	13	248	4.85	2	5	ND	2	125	.3	2	2	171	1.88	.180	9	12	.66	54	.17	2	1.01	.05	.13	1	138
B 91386	2	5053	3	70	1.5	10	15	296	4.24	5	5	ND	2	84	1.0	2	2	136	2.02	.224	9	12	1.13	38	.18	10	1.15	.05	.14	1	380
B 91387	2	2052	8	52	.7	13	18	315	4.51	3	5	ND	2	104	.7	2	2	133	1.77	.146	8	18	1.10	58	.20	6	1.41	.08	.20	1	115
B 91388	2	1242	8	42	.5	10	15	286	4.25	4	5	ND	2	118	.5	2	2	128	2.12	.152	9	14	.85	44	.18	7	1.27	.06	.16	1	113
RE B 91384	2	1483	6	51	.4	9	14	271	4.51	4	5	ND	2	112	.6	2	2	163	1.96	.172	9	14	.75	60	.19	9	1.22	.06	.18	1	85
B 91389	2	2461	7	63	.6	12	17	253	4.33	5	5	ND	2	107	.7	2	3	140	1.45	.158	8	14	.83	72	.20	2	1.13	.06	.22	1	128
B 91390	2	2472	9	53	.7	10	13	284	4.20	4	5	ND	2	134	1.0	2	2	139	1.60	.155	8	13	.97	70	.20	2	1.17	.06	.19	1	137
[illegible]391	3	728	7	34	.6	9	33	241	5.99	7	5	ND	2	118	.7	2	2	119	1.73	.159	8	9	.75	37	.15	2	1.06	.05	.10	1	95
[illegible].392	2	1252	2	39	.5	10	16	249	4.74	6	5	ND	1	105	.5	2	2	148	1.61	.210	8	10	.84	45	.18	2	1.14	.05	.12	1	290
B 91393	3	2030	3	48	1.2	11	28	253	6.22	12	5	ND	1	124	.7	2	4	146	1.09	.155	8	10	.92	86	.18	2	1.36	.05	.11	1	320
B 91394	2	753	6	34	.4	10	12	276	4.98	4	5	ND	1	140	.6	2	2	153	1.77	.135	6	14	.94	32	.17	6	1.25	.05	.09	1	90
B 91395	2	1028	3	35	.6	9	10	228	3.91	4	5	ND	2	118	.4	2	2	127	1.55	.141	7	13	.74	28	.15	4	1.09	.04	.09	1	133
B 91396	3	948	2	34	.4	9	11	251	4.00	3	5	ND	1	122	.4	2	2	128	1.86	.145	6	11	.89	42	.14	3	1.29	.07	.13	1	100
B 91397	2	1443	6	42	.6	12	13	325	4.38	6	5	ND	1	153	.9	2	2	128	1.78	.166	7	17	1.31	32	.17	3	1.33	.04	.09	1	133
B 91398	2	1346	6	44	.6	11	20	309	7.04	7	5	ND	1	148	.7	2	3	156	1.33	.179	8	11	.95	48	.16	5	1.42	.04	.13	1	136
B 91399	2	1175	4	40	.5	8	16	336	5.21	3	5	ND	2	160	.8	2	2	120	1.06	.134	6	9	1.05	42	.15	3	1.35	.05	.12	2	88
B 91400	2	3999	9	57	.9	10	15	294	5.33	3	5	ND	2	83	1.0	2	8	200	1.53	.148	7	20	1.02	56	.20	3	1.04	.04	.21	1	420
STANDARD C/AU-R	19	58	38	131	6.9	69	32	1071	3.99	39	23	7	38	53	18.5	15	19	57	.55	.097	38	58	.92	172	.07	33	1.92	.06	.13	11	510
STANDARD C	18	59	40	129	6.9	67	31	1051	3.96	41	21	7	37	53	18.6	15	20	55	.51	.094	37	56	.89	180	.07	36	1.89	.06	.14	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 9 1990 DATE REPORT MAILED: Aug 13/90. SIGNED BY. C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-3282

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91401	2	2582	3	52	.8	14	13	345	5.29	7	5	ND	1	76	.7	2	6	168	1.61	.155	7	11	1.12	56	.19	3	1.16	.05	.17	1	300
B 91402	2	761	2	46	.3	11	18	317	7.16	7	5	ND	1	77	1.0	2	2	235	1.47	.189	7	16	1.09	56	.19	2	1.16	.04	.16	1	81
B 91403	1	2234	5	65	.8	18	23	326	8.80	8	5	ND	1	49	1.4	2	2	350	1.10	.185	7	10	1.47	129	.26	2	1.32	.04	.66	1	400
B 91404	1	938	2	61	.3	15	21	399	6.93	2	5	ND	1	71	.8	2	2	284	.91	.033	2	13	1.85	161	.36	2	1.61	.04	.78	1	63
B 91405	3	713	2	44	.3	13	18	328	6.91	6	7	ND	1	64	1.2	2	3	247	1.42	.086	4	11	1.30	120	.26	2	1.24	.05	.63	1	86
B 91406	1	648	2	39	.3	13	19	313	10.78	7	5	ND	1	67	1.1	2	7	340	1.12	.109	4	13	1.12	75	.23	2	1.18	.05	.40	2	74
B 91407	1	880	8	52	.4	14	18	389	8.30	5	6	ND	1	97	1.0	2	2	304	1.28	.142	5	10	1.47	122	.25	2	1.49	.04	.55	1	69
B 91408	1	714	6	44	.2	15	22	368	11.02	9	5	ND	2	106	1.8	2	2	385	1.50	.217	7	12	1.37	114	.22	2	1.29	.05	.55	1	50
B 91409	2	873	5	37	.3	14	20	321	7.67	7	5	ND	1	66	.6	2	2	254	1.61	.113	5	14	1.22	113	.23	2	1.18	.05	.55	1	89
B 91410	1	2628	3	46	.4	16	20	295	9.57	6	5	ND	2	56	1.4	2	2	309	1.18	.168	6	13	1.02	84	.21	2	1.05	.04	.49	1	240
B 91411	2	197	2	37	.1	14	22	380	9.19	4	5	ND	1	73	1.7	2	5	288	1.39	.110	4	11	1.34	101	.24	3	1.43	.05	.58	2	18
P 412	1	574	2	41	.2	15	22	356	10.45	6	5	ND	1	86	2.3	2	2	314	1.58	.135	5	12	1.02	84	.20	2	1.15	.05	.36	1	62
b 413	1	1081	6	44	.2	14	22	322	7.66	5	7	ND	1	73	1.1	2	2	233	1.32	.165	6	13	1.27	96	.22	6	1.33	.06	.49	1	111
B 91414	1	2385	4	45	.6	12	19	286	6.59	5	5	ND	2	92	1.3	2	2	206	1.59	.151	6	10	1.00	80	.18	5	1.13	.05	.27	1	156
B 91415	1	2809	3	52	.6	12	13	367	6.52	11	5	ND	3	132	.6	2	2	211	2.11	.319	11	11	1.22	95	.17	5	1.18	.06	.37	1	148
B 91416	1	1628	9	40	.3	10	19	278	5.42	6	5	ND	1	98	1.3	2	2	169	1.74	.181	7	8	.90	75	.18	2	1.18	.05	.19	1	137
B 91417	1	3330	11	46	1.4	14	25	283	5.78	7	5	ND	1	89	1.3	2	2	163	1.72	.205	7	8	.95	55	.15	3	1.02	.04	.14	1	510
B 91418	2	1493	3	40	.4	12	13	254	5.85	4	5	ND	1	82	1.2	2	2	178	1.41	.206	7	13	.83	66	.15	2	.99	.06	.15	1	200
B 91419	2	1359	4	46	.5	11	14	251	5.86	3	5	ND	1	106	1.2	2	2	191	1.64	.220	8	10	.76	65	.16	4	1.11	.06	.13	1	131
B 91420	1	793	2	41	.2	11	14	336	5.53	5	6	ND	1	164	.7	2	2	175	1.96	.192	7	8	1.04	93	.16	2	1.28	.05	.13	1	74
B 91421	2	548	7	37	.1	10	12	330	5.20	6	5	ND	1	131	1.0	2	2	161	1.61	.103	5	13	1.11	76	.19	6	1.31	.04	.12	1	53
RE B 91417	1	3387	8	49	1.2	17	25	297	6.05	4	5	ND	1	91	1.4	2	2	166	1.78	.209	7	8	1.00	56	.16	2	1.06	.04	.14	1	500
B 91422	1	831	2	42	.2	11	20	444	8.04	10	5	ND	1	180	1.4	2	2	216	3.22	.160	6	11	1.12	75	.12	2	1.20	.04	.07	1	101
B 91423	2	1376	2	37	.4	13	19	378	6.13	5	5	ND	1	86	1.5	2	2	172	1.45	.173	5	11	1.62	86	.20	7	1.77	.05	.27	1	132
B 91424	2	801	6	45	.2	11	15	282	6.71	7	5	ND	1	106	.7	2	2	194	1.48	.140	5	13	.82	59	.17	6	1.20	.05	.10	1	80
B 91425	2	818	2	46	.2	13	18	319	5.67	8	5	ND	1	66	1.1	2	2	170	1.61	.185	8	15	.90	49	.17	4	1.15	.05	.09	1	91
B 91426	2	1563	9	45	.5	14	13	335	4.56	5	5	ND	1	259	.9	2	3	123	1.92	.148	6	23	1.00	52	.16	3	1.43	.04	.08	1	132
B 91427	1	697	7	41	.2	13	14	271	4.94	2	5	ND	1	82	.9	2	2	162	1.60	.186	9	16	.82	61	.18	4	1.23	.06	.14	1	80
B 91428	2	3709	4	76	1.2	15	13	302	4.68	7	5	ND	2	99	1.3	2	6	132	1.90	.284	10	30	1.00	37	.17	2	1.19	.06	.12	1	410
B 91429	2	1880	8	49	.6	11	9	230	3.77	4	5	ND	1	69	.7	2	2	129	1.42	.180	8	10	.74	47	.16	2	1.05	.06	.13	1	250
[illegible]1430	2	444	7	24	.4	7	7	198	3.44	4	5	ND	1	98	.3	5	2	112	1.68	.146	8	10	.61	46	.14	4	1.17	.06	.11	1	73
B 91431	2	1206	3	36	.5	10	10	207	3.39	7	5	ND	1	68	.8	2	2	97	1.55	.141	8	8	.58	24	.13	4	.97	.06	.10	1	142
B 91432	3	531	9	26	.3	9	8	197	3.00	5	6	ND	2	108	.8	2	2	94	1.57	.144	9	9	.56	38	.14	2	1.06	.07	.11	1	63
B 91433	2	2638	6	56	1.1	14	15	303	5.57	8	7	ND	1	139	1.3	2	2	171	1.76	.178	7	13	.78	52	.16	4	1.16	.06	.13	1	240
B 91434	2	574	8	28	.3	9	11	242	2.96	7	5	ND	2	115	.6	3	2	82	1.44	.147	8	8	.96	35	.13	3	1.12	.07	.11	1	44
B 91435	1	4554	5	90	1.8	15	14	235	2.81	8	5	ND	2	99	2.1	2	2	70	2.12	.250	9	8	.81	26	.15	2	.75	.04	.12	1	840
B 91436	2	661	6	35	.1	11	11	280	4.41	6	5	ND	1	63	.7	2	4	174	1.52	.137	6	15	.93	54	.19	2	1.07	.05	.21	1	45
STANDARD C/AU-R	21	57	43	140	7.3	76	32	1101	4.22	42	22	8	40	53	18.8	20	21	59	.54	.095	41	60	.97	188	.08	36	2.02	.07	.13	12	520
STANDARD C	19	59	41	131	7.0	70	32	1053	3.97	40	22	7	37	53	18.9	15	21	55	.52	.098	38	56	.89	182	.07	33	1.89	.06	.14	11	-

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91437	1	3866	4	129	1.4	18	20	428	4.95	17	5	ND	2	103	1.0	3	2	159	1.56	.226	9	16	1.55	166	.29	5	1.76	.19	.51	1	350
RE B 91441	1	3150	5	65	1.3	15	20	403	5.23	21	5	ND	2	164	.8	2	2	168	1.78	.149	7	15	1.06	134	.26	3	1.72	.23	.45	1	310
B 91438	1	4941	4	104	1.8	15	18	385	4.21	10	5	ND	2	101	1.0	3	2	129	1.36	.145	7	14	1.32	187	.29	2	1.65	.21	.68	1	480
B 91439	1	5408	3	141	2.2	16	14	296	4.28	11	5	ND	2	89	1.6	2	2	143	1.23	.125	6	14	1.11	216	.26	2	1.52	.19	.70	1	410
B 91440	1	3730	4	86	1.2	14	16	376	4.61	8	5	ND	2	90	.8	3	2	172	1.37	.138	6	17	1.37	163	.29	7	1.61	.20	.64	1	280
B 91441	1	3147	3	62	1.3	14	19	374	5.01	22	5	ND	2	161	.5	2	2	166	1.71	.146	6	14	1.02	130	.25	2	1.62	.22	.43	1	340
B 91442	1	2796	4	68	1.2	13	31	390	4.75	10	5	ND	2	176	.8	2	2	128	2.64	.167	7	13	.94	88	.24	4	1.72	.12	.32	1	390
B 91443	1	1469	5	58	.6	13	12	410	5.95	14	5	ND	2	314	.7	2	2	180	2.33	.153	7	15	1.11	144	.27	2	1.82	.13	.45	1	210
B 91444	1	2280	3	70	1.2	14	15	394	6.78	16	5	ND	2	148	.9	2	2	188	1.69	.178	7	13	1.07	144	.25	2	1.56	.18	.48	1	270
B 91445	1	1332	5	65	.6	14	13	400	6.47	7	5	ND	3	234	.5	2	2	223	1.57	.154	7	18	1.16	195	.28	2	1.74	.20	.50	1	96
B 91446	1	843	6	46	.4	11	13	398	6.10	10	5	ND	2	184	.4	2	2	201	1.60	.136	6	18	1.19	120	.26	2	1.67	.22	.32	1	60
B [illegible]447	1	1175	6	46	.6	11	12	315	4.58	9	5	ND	2	130	.2	3	2	165	1.44	.148	6	17	1.04	160	.27	6	1.55	.18	.44	1	70
L [illegible]48	1	1905	6	55	.9	13	19	379	6.10	17	5	ND	2	118	.6	2	2	176	1.51	.217	8	21	1.22	178	.29	9	1.59	.17	.55	1	300
B 91449	1	2414	5	67	.9	14	14	444	4.62	15	5	ND	2	145	.7	2	2	152	1.84	.215	8	14	1.24	149	.28	16	1.60	.20	.46	1	330
B 91450	1	2680	7	63	.9	13	17	385	4.91	12	5	ND	1	169	.7	2	2	171	1.52	.131	5	16	1.29	245	.33	2	1.77	.19	.62	1	340
B 91451	1	3659	6	79	1.1	15	18	444	4.07	8	5	ND	2	244	1.0	3	2	125	1.83	.194	6	17	1.53	264	.33	2	1.85	.18	.68	1	310
B 91452	1	2759	7	74	1.0	14	21	638	5.72	34	5	ND	2	345	.8	2	2	186	2.31	.150	6	21	2.57	206	.30	2	2.38	.13	.30	1	260
B 91453	1	2918	9	66	1.1	13	19	564	5.49	33	5	ND	1	112	.9	2	2	178	2.37	.082	5	16	2.11	152	.26	2	1.86	.12	.31	1	330
B 91454	1	1694	7	53	.9	12	14	519	4.61	31	5	ND	2	149	.4	2	2	153	2.47	.151	8	16	2.02	170	.27	2	1.76	.14	.29	1	340
B 91455	1	2729	6	64	1.2	13	13	430	3.62	9	5	ND	3	105	.7	2	2	124	1.93	.163	7	17	1.60	152	.27	2	1.48	.12	.41	1	310
B 91456	1	5244	6	91	1.7	17	17	409	6.23	12	5	ND	2	114	1.2	2	2	207	1.53	.170	7	17	1.19	195	.28	2	1.40	.14	.55	1	500
B 91457	6	3090	7	66	1.5	14	16	324	4.53	7	5	ND	1	144	.7	2	2	124	1.75	.101	5	11	.94	157	.23	4	1.21	.12	.34	1	510
B 91458	1	5344	4	88	2.6	16	17	410	4.55	19	5	ND	2	98	1.1	2	2	135	1.77	.138	6	19	1.47	139	.26	3	1.42	.11	.31	1	670
B 91459	1	3234	12	109	3.4	11	13	478	3.85	52	5	ND	2	120	1.2	25	2	95	4.17	.082	5	17	1.12	96	.14	2	1.20	.09	.24	1	360
B 91460	1	2253	5	52	.9	11	14	341	4.36	8	5	ND	2	107	.5	2	2	144	1.99	.135	6	11	1.17	128	.25	2	1.57	.09	.29	1	240
B 91461	1	3582	5	69	1.4	15	19	329	6.16	12	5	ND	1	127	.9	2	2	215	1.63	.138	6	18	1.02	172	.28	4	1.57	.15	.41	1	330
B 91462	1	6751	6	92	3.5	18	32	375	5.74	20	5	ND	1	100	1.5	2	3	157	1.32	.143	5	32	1.38	159	.29	3	1.58	.14	.42	1	910
B 91463	7	3970	7	92	2.2	22	37	322	7.41	38	5	ND	2	101	1.1	2	2	141	1.27	.137	6	14	.97	124	.21	8	1.20	.11	.30	1	790
B 91464	1	3641	7	62	1.1	11	16	312	6.26	12	5	ND	2	186	.8	2	2	241	1.41	.106	5	16	1.12	257	.29	2	1.50	.13	.48	1	260
B 91465	1	1745	15	47	1.0	14	15	333	7.75	19	5	ND	2	118	.5	2	2	257	1.73	.130	6	15	.88	141	.21	4	1.13	.12	.42	1	153
[illegible]466	1	3291	6	58	.6	14	17	314	7.56	16	5	ND	1	91	.7	2	2	259	1.30	.129	6	16	.91	166	.27	2	1.31	.16	.49	1	250
B 91467	1	3365	6	65	.7	13	16	342	5.30	12	5	ND	2	102	.5	2	2	189	2.03	.127	6	18	1.06	156	.29	12	1.33	.13	.48	1	150
B 91468	1	3088	7	66	.5	16	18	350	7.26	17	5	ND	2	100	.7	2	2	255	1.47	.169	7	16	1.02	143	.28	15	1.37	.12	.38	1	220
B 91469	1	2772	5	69	.9	15	19	407	7.99	10	5	ND	2	101	.8	2	2	275	1.47	.151	6	14	.95	150	.27	45	1.31	.10	.43	1	143
B 91470	1	1199	4	48	.3	12	15	365	8.32	13	5	ND	2	113	.5	2	2	283	1.43	.147	6	17	.89	146	.25	25	1.18	.11	.39	1	97
B 91471	1	1200	5	56	.4	17	25	449	7.88	17	5	ND	1	92	.5	2	2	255	1.71	.114	4	16	.93	119	.25	5	1.39	.11	.38	1	200
B 91472	1	517	5	38	.3	9	14	290	6.91	2	5	ND	2	162	.2	2	2	236	1.18	.090	5	13	.59	211	.24	2	1.18	.13	.33	1	41
STANDARD C/AU-R	20	62	41	137	7.5	72	32	1087	4.13	40	21	7	40	52	17.0	19	20	61	.58	.095	40	61	1.01	182	.10	31	2.01	.08	.15	11	540
STANDARD C	18	57	40	130	6.8	72	31	1047	3.99	40	22	7	39	53	18.5	15	19	58	.52	.096	39	59	.89	182	.09	33	1.89	.06	.14	11	-

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-3282

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91473	1	1025	6	40	.5	12	16	294	8.36	10	5	ND	2	125	.5	2	2	265	1.58	.166	7	21	.62	119	.20	3	1.12	.09	.23	1	81
B 91474	1	900	8	48	.3	13	15	346	5.71	8	5	ND	2	125	.2	2	2	193	1.70	.167	7	25	.83	83	.20	4	1.15	.07	.14	1	82
B 91475	1	1670	7	52	.6	13	15	344	7.22	6	5	ND	2	76	.5	2	2	217	1.45	.117	5	17	.98	56	.21	5	1.18	.06	.20	1	107
B 91476	1	733	5	41	.4	12	14	289	5.70	3	5	ND	2	66	.2	2	2	168	1.19	.086	4	12	.81	40	.19	5	1.08	.06	.11	1	61
B 91477	1	476	6	41	.2	9	10	282	4.70	4	5	ND	2	76	.2	2	2	140	1.51	.099	5	14	.93	61	.19	7	1.30	.08	.18	1	42
B 91478	1	956	5	44	.4	13	18	346	8.32	12	5	ND	3	57	.3	2	2	251	1.42	.202	8	11	.96	46	.20	5	1.17	.05	.21	1	94
B 91479	1	1784	4	41	.6	15	17	319	10.45	15	5	ND	4	124	1.0	2	2	304	1.74	.369	12	15	.88	46	.17	3	1.13	.08	.17	1	119
B 91480	1	1552	6	52	.7	18	22	359	9.38	16	5	ND	3	57	.9	3	2	249	1.68	.185	7	10	1.31	66	.21	4	1.35	.05	.22	1	113
B 91481	1	1214	6	37	.9	13	21	275	7.46	15	5	ND	2	59	.7	2	2	191	1.66	.170	6	12	.97	52	.18	3	1.30	.07	.12	1	156
B 91482	1	466	6	31	.2	13	11	239	8.20	12	5	ND	3	49	.4	2	2	235	1.53	.221	8	12	.86	46	.18	10	1.35	.06	.15	1	47
B 91483	1	509	6	24	.3	12	14	260	8.78	13	5	ND	3	61	.6	2	2	205	.98	.138	5	17	.96	59	.18	6	1.41	.06	.17	1	22
B ~'484	1	734	7	30	.5	11	19	249	7.19	13	5	ND	2	108	.4	2	2	171	1.32	.146	6	12	.97	54	.20	3	1.40	.05	.14	1	84
E .85	1	928	4	32	.6	10	11	211	3.30	9	5	ND	2	63	.2	2	2	82	1.43	.086	4	15	.95	40	.21	3	1.35	.05	.11	1	92
B 91486	1	881	6	42	.5	14	15	243	4.60	10	5	ND	2	55	.2	2	2	104	1.25	.085	4	14	1.22	48	.22	3	1.35	.04	.13	1	77
B 91487	1	1939	4	52	.9	11	14	261	4.41	11	5	ND	4	63	.4	2	2	113	1.72	.236	7	20	1.11	68	.20	2	1.24	.06	.23	1	250
B 91488	1	1876	4	38	.4	13	24	275	5.23	4	5	ND	2	76	.4	2	2	140	1.49	.111	5	16	1.11	97	.23	7	1.34	.05	.25	1	140
B 91489	1	555	3	36	.2	11	12	273	6.66	15	5	ND	3	76	.3	2	2	198	1.45	.157	7	18	.90	86	.20	5	1.22	.06	.29	1	65
B 91490	2	1039	5	31	.5	12	29	228	4.61	8	5	ND	3	80	.3	2	2	122	1.83	.104	6	15	.64	56	.21	5	.87	.05	.19	1	173
B 91491	1	716	5	42	.2	12	14	339	6.45	3	5	ND	2	73	.3	2	2	200	1.37	.129	6	18	1.10	96	.24	6	1.43	.06	.29	1	45
B 91492	1	395	6	41	.3	12	13	311	5.42	8	5	ND	2	67	.2	2	2	175	1.56	.137	6	12	.96	97	.23	5	1.33	.05	.25	1	89
B 91493	1	1113	4	50	.3	13	15	307	6.16	10	5	ND	3	77	.3	2	2	196	1.54	.227	8	21	1.04	73	.21	3	1.30	.06	.20	1	68
B 91494	1	1301	5	50	.4	12	14	310	5.98	6	5	ND	4	78	.2	2	2	190	1.52	.190	8	11	1.05	82	.22	3	1.35	.05	.19	1	65
B 91495	1	835	7	38	.2	11	19	296	6.46	10	5	ND	3	102	.2	2	2	194	1.64	.183	8	14	.86	76	.21	3	1.25	.06	.20	1	95
B 91496	1	1697	5	47	.6	13	19	274	6.80	9	5	ND	2	58	.6	2	2	188	1.40	.154	6	11	.74	53	.19	5	1.00	.04	.15	1	220
B 91497	1	906	5	38	.4	10	16	261	6.12	6	5	ND	3	67	.4	2	2	181	1.39	.173	7	15	.77	61	.21	3	1.13	.07	.21	1	97
B 91498	3	444	5	35	.1	10	16	385	5.51	6	5	ND	2	69	.2	2	2	154	.97	.114	4	11	1.91	100	.29	2	2.05	.06	.89	1	37
B 91499	1	1685	4	40	.6	10	14	228	4.77	9	5	ND	1	52	.3	2	2	136	.85	.048	2	15	.82	55	.19	2	.98	.04	.16	1	112
B 91500	2	960	6	38	.6	11	13	265	4.16	18	5	ND	2	158	.2	2	2	101	1.29	.053	3	9	.94	78	.18	3	1.40	.05	.12	1	65
B 91501	1	296	5	39	.1	10	14	330	6.85	2	5	ND	1	105	.2	2	2	206	1.15	.062	3	16	1.01	68	.27	3	1.31	.05	.19	1	20
RE B 91497	1	915	6	38	.3	10	15	264	6.20	7	5	ND	3	69	.4	2	2	185	1.41	.177	7	15	.78	65	.22	5	1.20	.08	.22	1	109
.502	1	533	4	42	.2	12	17	327	5.77	9	5	ND	1	93	.3	2	2	158	1.30	.056	3	12	1.31	80	.30	4	1.53	.05	.27	1	44
B 91503	4	441	5	40	.1	11	15	305	4.91	9	5	ND	1	100	.2	2	2	138	1.56	.065	4	17	1.05	77	.26	7	1.45	.06	.17	1	49
B 91504	2	351	5	45	.1	12	15	316	5.23	10	5	ND	2	77	.3	2	2	158	1.47	.153	7	13	.99	70	.23	8	1.33	.05	.15	1	28
B 91505	1	518	4	35	.2	10	15	265	4.78	12	5	ND	2	57	.2	2	2	144	1.25	.129	5	16	.93	81	.23	2	1.22	.06	.29	1	41
B 91506	2	530	5	38	.2	11	19	235	4.70	8	5	ND	2	55	.2	2	2	142	1.04	.079	4	14	.72	67	.21	2	1.06	.05	.17	1	52
B 91507	2	265	4	32	.1	10	10	228	3.87	7	5	ND	2	80	.2	2	2	129	1.24	.073	4	22	.72	65	.24	2	1.11	.05	.18	1	18
B 91508	11	770	4	31	.2	9	10	190	3.59	2	5	ND	3	74	.2	2	2	124	1.12	.091	5	10	.47	50	.17	3	.89	.05	.13	1	56
STANDARD C/AU-R	19	59	39	136	6.7	71	32	1083	4.07	37	17	8	41	49	18.4	16	20	58	.51	.094	39	58	.93	182	.09	31	1.95	.06	.13	13	490
STANDARD C	18	58	38	131	6.9	69	31	1045	3.95	39	21	7	37	47	18.8	15	19	56	.51	.092	37	57	.89	180	.09	32	1.92	.06	.14	12	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

BP Resources Canada Ltd. PROJECT 540 LOC 10144 File # 90-3493 Page 1

700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91509	4	843	2	19	.5	9	16	179	2.49	15	5	ND	2	34	.2	2	5	51	1.48	.115	7	9	.81	12	.12	6	1.09	.04	.06	1	86
B 91510	6	916	2	19	.3	8	22	157	3.18	26	5	ND	2	38	.8	3	2	65	1.37	.140	8	5	.75	37	.14	6	1.01	.05	.11	1	67
B 91511	7	909	2	18	.3	11	17	158	2.84	8	5	ND	2	106	.8	2	2	57	1.39	.133	9	7	.91	18	.15	2	1.15	.05	.07	1	38
B 91512	3	1307	2	24	.3	13	18	145	2.90	7	5	ND	1	331	.3	2	2	64	1.13	.113	7	9	1.02	32	.15	4	1.20	.05	.14	1	39
B 91513	17	786	2	16	.2	14	18	132	2.99	7	5	ND	2	80	.4	2	2	83	.92	.107	7	15	1.12	40	.19	5	1.14	.06	.39	1	19
B 91514	16	850	2	14	.1	13	19	104	2.90	6	5	ND	1	128	.4	2	2	63	1.07	.112	9	11	.78	16	.16	2	1.02	.05	.13	1	20
B 91515	7	1518	2	26	.3	15	29	139	3.91	16	5	ND	2	171	.6	3	2	61	1.01	.135	9	9	.90	25	.17	2	1.19	.07	.18	1	33
B 91516	5	926	2	13	.1	14	21	105	2.98	3	5	ND	1	106	.4	2	2	61	1.22	.133	9	12	.72	23	.16	2	.97	.05	.16	1	22
B 91517	10	382	2	15	.1	8	11	120	2.13	6	5	ND	2	223	.5	2	2	79	.89	.107	8	17	.96	35	.20	2	1.05	.06	.31	1	10
B 91518	35	1010	2	18	.2	11	25	156	3.35	10	5	ND	1	187	.9	3	2	76	1.41	.102	7	10	.89	23	.17	2	1.22	.05	.27	1	42
B 91519	6	873	2	18	.2	12	24	176	3.81	9	5	ND	1	118	.7	2	2	90	1.25	.107	7	9	1.29	22	.18	2	1.49	.05	.39	1	37
B 91520	15	1138	2	22	.2	12	20	190	3.72	5	5	ND	2	118	.2	6	2	76	1.63	.113	8	14	1.34	33	.17	3	1.32	.04	.42	1	24
B 91521	8	1218	2	22	.1	11	19	181	3.05	5	5	ND	1	47	.8	2	4	80	1.56	.112	7	14	1.17	41	.21	2	1.23	.05	.48	1	54
B 91522	7	1355	2	24	.4	12	18	172	3.02	8	5	ND	2	130	.8	2	2	89	.96	.111	6	13	1.33	48	.21	3	1.37	.06	.55	1	65
B 91523	4	1159	2	23	.2	12	25	196	3.97	13	5	ND	1	247	.7	2	6	96	1.23	.106	7	12	1.35	32	.18	2	1.70	.05	.37	1	32
B 91524	4	1141	6	23	.3	12	19	182	2.60	14	5	ND	3	228	.6	3	2	97	.87	.097	6	15	1.39	45	.21	3	1.35	.04	.49	1	42
B 91525	3	918	2	25	.3	8	16	212	2.88	18	5	ND	2	303	.9	4	2	129	.84	.113	5	17	1.78	64	.25	5	1.73	.04	.78	1	28
B 91526	4	1429	2	38	.6	12	24	279	4.25	21	5	ND	1	255	1.0	2	4	119	1.34	.103	6	14	1.88	26	.17	2	1.83	.03	.25	1	36
B 91527	3	1847	2	29	.4	14	25	182	4.02	13	5	ND	1	169	.8	2	2	109	.83	.085	5	16	1.31	41	.23	4	1.44	.04	.64	1	72
B 91528	2	786	2	17	.2	10	17	155	3.19	8	5	ND	1	83	.6	2	7	89	1.24	.110	6	11	1.00	24	.19	5	1.42	.05	.34	1	26
B 91529	3	822	2	22	.3	10	17	206	3.42	13	5	ND	1	63	.8	3	2	80	1.54	.112	7	10	1.15	14	.16	2	1.67	.05	.11	1	31
B 91530	9	638	2	17	.2	6	18	176	3.62	9	5	ND	1	55	.4	3	9	66	1.79	.102	7	8	.98	8	.13	5	1.78	.05	.07	1	28
B 91531	17	715	2	20	.3	10	20	184	3.72	11	5	ND	1	61	.3	3	2	76	1.54	.113	8	10	.98	10	.13	4	1.64	.05	.10	1	27
B 91532	7	886	3	21	.3	11	12	134	2.72	6	5	ND	1	53	.7	2	4	74	1.37	.108	8	12	.85	17	.17	4	1.36	.05	.14	1	39
B 91533	25	1545	2	22	.4	14	19	108	2.65	11	5	ND	2	42	.2	3	2	66	1.06	.118	9	12	.72	28	.17	2	.99	.05	.22	1	51
B 91534	8	1148	2	23	.4	12	16	159	3.18	8	5	ND	2	51	.8	3	5	82	1.12	.118	8	12	1.01	23	.18	2	1.18	.05	.22	1	42
B 91535	3	1238	3	39	.5	9	18	231	3.63	10	5	ND	1	43	1.3	3	6	110	1.62	.103	7	12	1.25	20	.17	2	1.28	.04	.24	1	48
B 91536	4	2110	2	51	1.0	11	20	188	3.45	7	5	ND	1	28	1.3	3	6	98	.70	.088	6	14	1.21	30	.21	2	1.20	.05	.43	1	90
B 91537	2	1762	2	35	.5	13	25	253	4.71	6	5	ND	1	36	.7	2	4	132	.85	.117	7	14	1.60	40	.23	4	1.63	.05	.72	1	59
B 91538	18	1301	2	25	.5	12	17	159	2.65	19	5	ND	1	88	.5	2	2	58	2.16	.077	6	9	.77	14	.15	2	1.56	.04	.14	1	87
B 91539	4	1634	3	30	.7	16	37	221	5.24	26	5	ND	1	68	.7	3	6	58	2.18	.082	6	9	.86	28	.14	2	1.26	.05	.11	1	82
RE B 91536	4	2225	2	52	1.2	12	21	197	3.65	7	5	ND	2	30	.9	3	2	103	.75	.091	6	15	1.28	34	.22	2	1.27	.05	.45	1	108
B 91540	6	1461	2	36	.9	11	17	163	3.28	11	5	ND	1	86	.7	3	2	85	1.10	.093	7	11	.95	20	.17	2	1.21	.05	.17	1	260
B 91541	4	360	3	13	.1	8	7	118	1.82	8	6	ND	2	47	.6	2	2	68	1.23	.096	7	12	.78	34	.18	2	1.06	.05	.15	1	24
B 91542	2	875	2	18	.3	10	17	148	2.95	13	5	ND	2	54	1.0	2	2	64	1.26	.089	6	10	.88	14	.17	2	1.23	.06	.16	1	46
B 91543	3	949	2	18	.1	11	14	153	2.66	8	5	ND	2	65	.7	2	2	78	1.04	.100	7	13	.92	41	.18	2	1.05	.05	.16	1	53
B 91544	9	1481	2	24	.5	13	17	127	3.10	9	5	ND	2	42	1.0	2	6	82	.77	.086	6	12	.76	43	.16	3	.90	.05	.16	1	92
STANDARD C/AU-R	20	60	39	136	7.1	72	32	1098	4.12	42	19	6	39	54	18.5	16	23	57	.51	.097	39	59	.94	177	.07	33	1.96	.06	.14	12	510
STANDARD C	19	58	35	131	6.9	72	31	1051	3.93	44	24	6	37	52	18.8	15	22	55	.51	.096	37	56	.89	180	.07	33	1.88	.06	.14	12	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 15 1990 DATE REPORT MAILED: Aug 20/90 SIGNED BY C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-3493

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91545	5	1425	5	22	.4	11	19	186	3.28	10	5	ND	1	71	.4	2	2	85	.88	.074	5	11	1.32	49	.20	5	1.33	.04	.36	1	78
B 91546	6	874	4	15	.3	10	15	128	2.71	6	5	ND	2	33	.3	3	2	99	.83	.082	7	17	.97	47	.18	4	.96	.05	.31	1	37
B 91547	5	1329	2	18	.2	19	14	111	2.73	8	5	ND	2	61	.6	2	2	123	.76	.094	8	26	.93	50	.21	2	.98	.06	.28	1	45
B 91548	6	840	4	15	.2	12	14	129	2.21	9	5	ND	3	82	.5	2	2	88	1.31	.094	7	21	.83	29	.19	7	.85	.05	.19	1	37
B 91549	6	1253	4	24	.4	20	17	134	2.72	14	5	ND	2	79	.6	2	6	93	.92	.087	6	16	.87	31	.19	3	.96	.05	.20	1	72
B 91550	4	1064	8	19	.4	10	19	135	2.53	7	5	ND	2	64	.6	3	3	63	1.09	.083	6	9	.78	20	.17	6	1.14	.06	.13	1	89
B 91551	4	825	10	17	.1	13	11	158	3.02	4	5	ND	1	79	.3	2	5	110	.93	.094	5	19	.91	38	.20	3	.93	.05	.30	1	64
B 91552	3	674	2	17	.2	14	13	175	2.45	6	5	ND	2	121	.3	2	2	91	.99	.097	7	19	1.09	59	.21	4	1.04	.06	.31	1	37
B 91553	4	1943	5	24	.6	13	24	219	3.22	6	5	ND	1	92	.5	2	2	57	2.41	.088	6	11	.93	18	.18	4	.99	.05	.12	1	109
B 91554	6	1093	2	27	.5	11	15	157	2.66	9	5	ND	2	107	.3	2	6	67	.99	.089	8	14	.90	19	.16	3	.90	.05	.11	1	57
B 91555	10	3443	2	38	1.4	28	57	150	5.99	15	5	ND	2	62	.9	2	4	84	.91	.098	7	19	.75	16	.16	3	.90	.06	.12	1	300
B [illegible]1556	5	1235	2	23	.5	16	24	137	3.77	6	5	ND	2	57	.4	2	2	88	.92	.094	9	17	.83	30	.18	4	.95	.06	.21	1	67
[illegible]557	6	1122	5	23	.5	14	17	175	3.48	8	7	ND	2	54	.5	2	2	105	1.15	.131	10	15	.93	22	.18	4	1.03	.06	.15	1	83
B 91558	2	713	4	24	.3	6	14	218	4.87	3	5	ND	1	105	.6	2	3	133	1.35	.156	8	6	1.08	72	.20	6	1.30	.05	.27	1	58
B 91559	3	1080	4	25	.2	11	13	233	5.67	5	5	ND	3	67	.6	2	3	173	1.28	.151	8	7	1.24	51	.20	4	1.23	.04	.23	1	54
B 91560	4	725	5	19	.3	5	17	165	3.31	2	5	ND	1	65	.2	2	3	83	1.42	.125	8	5	.75	22	.15	9	1.06	.06	.10	1	46
B 91561	3	1221	5	20	.4	9	14	125	2.68	8	5	ND	1	65	.4	2	2	50	1.07	.091	7	8	.54	12	.15	6	.91	.06	.10	1	83
B 91562	3	1336	4	22	.5	6	15	132	2.40	6	5	ND	2	94	.2	2	4	42	1.09	.093	7	7	.60	15	.16	5	.90	.07	.11	1	103
B 91563	3	1333	9	20	.5	14	17	138	2.77	7	5	ND	2	84	.4	2	3	52	1.16	.098	7	10	.64	12	.13	4	.69	.05	.06	1	111
B 91564	3	2308	2	41	.9	7	27	200	3.83	2	5	ND	1	92	.5	2	2	41	1.63	.096	5	5	.70	10	.11	4	.92	.05	.05	1	260
RE B 91560	5	750	9	18	.1	7	19	168	3.43	4	5	ND	1	66	.6	2	2	84	1.45	.128	8	6	.77	20	.15	8	1.07	.06	.10	1	54
B 91565	3	958	4	27	.3	7	10	168	2.60	2	5	ND	1	96	.2	2	6	52	1.28	.112	6	8	.85	17	.15	5	1.13	.05	.05	1	63
B 91566	2	659	7	25	.2	9	14	218	4.73	6	5	ND	1	116	.7	2	2	138	1.44	.185	9	7	1.09	79	.21	6	1.31	.05	.22	1	50
B 91567	2	818	2	25	.2	9	16	215	4.46	3	5	ND	1	129	.3	2	3	128	1.49	.182	9	6	1.01	60	.19	4	1.23	.05	.16	1	39
B 91568	2	1588	6	34	.6	11	26	207	6.01	5	5	ND	1	102	.8	2	5	96	1.19	.075	4	4	.95	20	.15	5	1.24	.05	.08	1	105
B 91569	4	715	10	21	.4	5	10	170	1.92	6	5	ND	2	206	.2	2	2	39	1.18	.083	6	6	.77	39	.12	7	.87	.06	.07	1	35
B 91570	2	1728	6	38	.9	7	49	199	3.48	3	5	ND	1	127	.2	2	2	37	1.13	.096	6	4	.94	35	.14	5	1.04	.06	.09	1	123
B 91571	5	1293	3	21	.5	8	15	119	1.99	6	5	ND	2	57	.2	2	4	37	1.14	.100	8	7	.76	18	.13	5	.68	.06	.06	1	90
B 91572	7	633	4	16	.2	9	10	116	1.54	9	5	ND	3	57	.2	2	5	40	1.09	.121	9	8	.65	27	.13	5	.57	.06	.05	1	37
B 91573	4	1726	3	32	.7	8	20	179	3.12	4	5	ND	1	54	.2	2	2	59	.73	.101	7	8	.93	36	.16	2	.90	.06	.13	1	107
[illegible]574	5	1255	7	19	.5	8	16	128	2.18	6	5	ND	2	32	.2	2	2	43	.81	.107	7	5	.60	36	.14	4	.60	.06	.12	1	104
B 91575	14	1514	2	21	.7	13	23	170	3.08	9	5	ND	3	39	.2	2	2	87	1.43	.104	8	12	.79	30	.12	7	.70	.04	.10	1	220
B 91576	6	1297	5	21	.5	20	17	251	2.69	5	5	ND	2	82	.3	2	2	72	2.54	.094	8	11	.99	41	.01	5	.88	.05	.09	1	102
B 91577	22	1386	2	29	.8	18	24	437	4.02	4	5	ND	1	124	.2	2	2	106	3.01	.093	7	15	1.40	17	.03	4	1.16	.03	.15	1	98
B 91578	2	394	8	32	.3	13	19	588	5.12	2	5	ND	1	129	.8	2	2	132	2.67	.190	7	25	2.20	205	.22	6	2.18	.04	.58	37	57
B 91579	7	1618	7	37	.6	15	16	480	3.94	2	5	ND	1	180	.2	2	2	93	3.17	.115	8	16	1.90	87	.01	5	1.52	.02	.13	1	130
B 91580	20	1484	9	26	.8	12	9	392	2.95	4	5	ND	2	97	.3	4	2	100	2.45	.113	9	18	1.75	33	.10	6	1.42	.03	.19	1	119
STANDARD C/AU-R	20	59	41	138	7.5	75	31	1120	4.22	41	24	6	39	52	19.0	17	18	59	.53	.097	39	59	.96	185	.07	33	2.01	.06	.14	11	540
STANDARD C	19	61	41	130	7.1	73	32	1052	3.97	38	22	6	38	53	18.8	15	23	55	.52	.097	38	56	.89	181	.07	38	1.89	.06	.14	11	-

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91581	5	2066	3	23	.6	15	18	299	3.36	11	5	ND	2	51	1.1	3	7	103	1.68	.091	8	27	1.69	32	.20	2	1.27	.05	.13	1	134
B 91582	5	2046	5	25	.4	17	22	220	3.44	9	5	ND	2	44	.6	3	2	92	1.13	.082	7	19	1.50	35	.18	2	1.16	.05	.19	1	128
B 91583	4	1953	2	25	.3	12	8	200	2.26	4	5	ND	3	41	.7	2	2	86	1.25	.075	6	24	1.16	32	.17	2	.89	.04	.16	1	133
B 91584	3	2047	5	26	.9	12	14	255	3.24	11	5	ND	3	55	.7	3	2	98	1.73	.081	9	13	1.14	21	.12	2	.89	.03	.09	1	380
B 91585	3	485	5	16	.2	9	9	246	2.64	13	5	ND	2	63	.4	2	2	77	1.26	.087	7	9	.72	59	.11	2	.61	.04	.07	1	80
B 91586	2	740	6	19	.2	6	9	254	2.86	5	5	ND	1	63	.6	2	2	84	1.16	.090	7	8	.76	41	.11	5	.70	.04	.06	1	106
B 91587	3	279	5	22	.2	8	8	372	3.72	28	5	ND	2	144	.8	2	2	116	1.81	.089	6	16	1.41	62	.10	2	1.23	.04	.05	1	43
B 91588	8	303	4	12	.1	7	9	196	3.02	96	5	ND	3	83	.4	2	2	60	1.32	.090	6	7	.64	38	.09	2	.59	.04	.06	1	41
B 91589	5	612	5	17	.3	11	11	236	4.30	142	5	ND	3	80	.6	3	2	89	1.17	.102	8	8	.88	36	.09	3	.96	.04	.07	1	39
B 91590	10	553	7	22	.2	7	10	273	3.47	33	5	ND	2	68	.2	2	2	111	1.46	.087	7	9	.98	44	.10	3	.98	.04	.07	1	80
B 91591	3	394	3	17	.2	6	8	184	2.33	48	5	ND	3	77	.6	3	2	63	1.14	.089	6	15	.50	66	.10	2	.49	.04	.06	1	30
B [illegible]1592	2	570	2	15	.2	7	7	144	2.51	11	5	ND	2	81	.5	2	2	69	1.23	.097	7	9	.30	45	.10	6	.43	.05	.07	1	45
[illegible]93	2	663	5	16	.3	7	7	145	2.67	6	5	ND	2	65	.2	3	2	74	1.13	.100	7	18	.50	28	.11	5	.59	.05	.07	1	75
B [illegible]1594	3	746	8	21	.3	5	9	254	2.92	8	5	ND	2	91	.6	3	5	96	1.47	.109	8	8	1.01	40	.13	5	.95	.04	.07	1	80
B 91595	3	296	2	16	.1	6	7	181	2.27	6	5	ND	2	68	.2	2	3	62	1.21	.097	6	13	.50	32	.10	6	.58	.05	.07	1	28
B 91596	2	344	9	15	.1	8	16	241	3.67	5	5	ND	2	94	.2	2	2	82	1.43	.097	6	9	.75	42	.10	3	.74	.05	.06	1	39
B 91597	2	309	2	13	.1	6	8	146	2.59	2	5	ND	2	61	.3	2	5	61	1.14	.098	6	8	.41	30	.10	2	.50	.05	.07	1	23
B 91598	2	444	3	30	.2	7	10	364	3.10	14	5	ND	3	86	.6	2	2	99	1.60	.089	8	10	1.43	57	.10	7	1.25	.04	.04	1	40
B 91599	3	252	6	21	.2	8	8	346	3.18	11	6	ND	3	89	.2	3	2	99	1.78	.089	8	17	1.28	45	.10	2	1.17	.04	.05	1	17
B 91600	3	1161	4	24	.9	10	11	303	4.10	19	5	ND	2	96	.7	3	2	87	1.83	.098	11	10	1.05	59	.11	2	1.01	.05	.06	1	124
B 91601	2	609	3	23	.3	9	7	329	2.54	10	5	ND	2	138	.6	2	2	84	2.63	.089	10	9	1.20	45	.08	4	1.06	.04	.04	2	154
B 91602	1	389	3	22	.2	6	7	352	2.45	2	5	ND	2	397	.2	2	2	82	2.15	.081	7	8	1.32	156	.07	5	1.18	.04	.05	2	79
B 91603	2	1509	2	28	.8	9	10	406	3.54	2	5	ND	2	294	.6	2	2	115	2.35	.102	7	9	1.25	97	.09	4	1.19	.04	.06	1	200
B 91604	2	272	6	20	.1	10	11	343	3.62	3	5	ND	1	207	.7	2	2	98	1.89	.122	6	10	.89	46	.11	5	1.05	.05	.07	1	37
B 91605	1	380	5	24	.1	5	9	345	3.71	3	5	ND	2	220	.3	2	2	107	1.73	.124	6	8	.97	43	.12	4	1.08	.05	.06	1	47
B 91606	2	411	2	23	.3	6	10	321	3.55	2	5	ND	1	158	.4	2	2	98	1.68	.126	7	14	.81	27	.13	2	1.07	.05	.07	1	51
B 91607	2	589	7	27	.3	10	12	334	3.14	3	5	ND	2	293	.5	2	2	97	1.75	.139	8	13	1.05	55	.17	9	1.31	.05	.06	1	39
B 91608	2	389	2	24	.2	10	10	320	3.95	2	5	ND	2	208	.4	2	2	112	1.71	.137	7	11	.88	31	.14	4	1.18	.04	.05	1	24
B 91609	3	1001	3	24	.4	9	10	308	3.27	2	5	ND	1	167	.3	2	2	87	1.90	.115	6	9	.92	24	.12	5	1.07	.03	.05	1	76
B 91610	2	672	2	25	.3	8	13	323	3.54	4	5	ND	1	207	.5	2	2	82	2.00	.126	6	7	.93	34	.13	6	1.18	.04	.04	1	113
. 611	2	214	2	21	.1	6	10	266	3.11	2	5	ND	1	165	.5	2	2	94	1.81	.127	7	11	.78	38	.13	7	1.22	.05	.06	1	26
B 91612	2	442	4	28	.2	7	13	362	3.77	32	5	ND	2	263	.6	2	2	82	2.12	.123	7	5	.94	57	.12	3	1.19	.03	.05	1	35
RE B 91608	2	388	2	24	.2	7	10	313	3.90	2	5	ND	2	195	.4	2	2	109	1.66	.135	7	10	.87	26	.12	3	1.15	.04	.05	1	19
B 91613	2	220	3	20	.1	6	9	259	3.13	9	5	ND	2	265	.3	2	2	91	1.81	.129	8	7	.59	68	.13	5	1.12	.05	.08	1	15
B 91614	2	480	8	24	.4	7	11	217	2.91	11	5	ND	2	208	.5	2	3	70	1.50	.126	8	5	.65	36	.15	8	1.05	.06	.08	1	36
B 91615	2	550	3	19	.4	8	9	188	2.87	2	5	ND	2	354	.2	2	2	74	1.47	.127	8	10	.60	69	.13	3	1.09	.06	.07	1	74
B 91616	2	363	2	16	.1	6	9	214	2.86	2	5	ND	1	314	.2	2	2	78	1.90	.122	7	6	.54	46	.11	5	.93	.04	.05	1	63
B 91617	2	438	4	16	.2	8	8	173	2.66	2	5	ND	2	136	.7	2	2	73	1.31	.117	7	7	.48	27	.12	6	.88	.05	.07	1	67
STANDARD C/AU-R	19	58	41	129	6.6	69	31	1027	3.92	38	22	6	37	53	18.9	16	19	55	.49	.092	37	56	.87	184	.07	33	1.88	.06	.14	11	530
STANDARD C	19	59	38	132	6.8	73	32	1051	3.95	37	24	6	38	53	18.6	14	22	55	.51	.094	38	55	.89	182	.07	34	1.91	.06	.14	11	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91618	1	266	2	15	.2	6	7	215	2.66	3	5	ND	1	122	.3	2	6	78	1.43	.119	7	7	.58	27	.11	6	.92	.05	.08	1	32
B 91619	2	300	5	16	.2	7	10	198	3.34	9	5	ND	1	160	.4	2	5	87	1.49	.133	8	11	.67	30	.12	7	1.03	.06	.07	2	45
B 91620	1	336	2	20	.1	8	9	237	3.03	5	5	ND	1	161	.2	2	2	79	2.06	.130	8	7	.86	21	.11	5	1.09	.04	.05	1	49
B 91621	2	437	2	18	.2	8	9	176	3.05	7	5	ND	2	157	.6	2	6	93	1.43	.118	8	8	.51	36	.11	3	.86	.04	.07	1	45
B 91622	10	1466	8	20	.8	10	14	169	2.84	16	5	ND	3	258	.8	2	2	95	1.14	.100	6	9	.75	44	.13	2	.72	.04	.10	1	137
B 91623	9	790	4	20	.2	12	9	164	1.90	9	5	ND	2	119	.4	2	2	76	1.14	.083	7	25	.90	31	.16	3	.80	.04	.14	1	270
B 91624	2	1737	2	22	.6	24	23	169	3.32	15	5	ND	2	168	.6	2	9	114	.93	.099	8	46	1.01	35	.18	2	.92	.04	.18	1	88
B 91625	2	1807	2	25	.7	21	16	167	3.15	6	5	ND	2	188	.2	2	4	94	1.07	.105	8	36	.77	31	.15	6	.92	.05	.08	1	155
B 91626	2	2099	3	19	.7	20	17	134	2.57	13	5	ND	1	129	.3	2	6	84	.80	.096	8	22	.66	40	.15	7	.67	.05	.14	1	143
B 91627	3	601	6	13	.4	16	9	189	2.25	33	5	ND	2	308	.4	2	2	72	1.93	.090	9	22	.68	30	.12	5	.72	.04	.06	1	96
B 91628	5	1620	2	16	.7	15	11	118	1.94	11	5	ND	2	102	.2	2	4	62	1.05	.073	7	18	.71	19	.13	2	.64	.04	.05	1	137
B 529	3	1054	2	19	.3	20	15	157	2.77	4	5	ND	2	108	.2	2	2	103	.96	.083	8	26	1.10	20	.14	3	.92	.05	.05	1	73
B 530	1	1372	4	18	.4	12	12	133	2.24	6	5	ND	2	122	.2	2	2	79	1.00	.098	9	24	.82	25	.12	2	.70	.04	.05	1	107
B 91631	2	2306	2	24	1.0	13	12	138	2.52	7	5	ND	2	74	.4	2	2	82	1.08	.089	8	18	.79	29	.12	2	.72	.04	.07	1	157
B 91632	2	3566	6	34	1.5	17	20	208	4.47	11	5	ND	2	92	.8	2	2	119	1.72	.093	8	9	1.05	42	.11	2	.99	.04	.09	1	340
B 91633	2	2117	2	19	.5	18	14	117	2.12	10	5	ND	2	79	.4	2	2	88	.94	.085	8	25	.74	39	.14	3	.66	.05	.10	1	128
B 91634	3	1703	3	18	.5	18	13	118	2.13	13	5	ND	2	51	.3	2	6	94	1.24	.083	9	23	.75	24	.13	2	.66	.04	.06	1	154
B 91635	3	3730	2	26	.8	21	16	145	2.68	13	5	ND	3	59	.6	2	5	90	1.23	.078	7	21	.91	30	.12	4	.78	.05	.08	1	240
B 91636	2	6771	7	38	1.7	24	14	142	2.97	14	5	ND	2	72	1.2	3	2	88	1.10	.106	7	18	.84	28	.12	2	.73	.04	.08	1	540
B 91637	1	1137	2	30	.4	12	13	248	4.40	3	5	ND	1	62	.2	2	2	143	1.17	.134	6	9	.82	27	.14	4	.91	.03	.09	1	95
B 91638	1	3505	2	44	.8	11	12	232	4.37	6	5	ND	1	74	.5	2	8	154	1.20	.146	6	12	.90	58	.17	4	.92	.03	.14	1	240
B 91639	1	642	2	33	.2	8	15	311	4.88	6	5	ND	1	127	.3	2	8	170	1.62	.141	7	13	.78	41	.16	3	1.06	.03	.08	1	36
B 91640	1	991	5	36	.4	8	14	332	4.63	6	5	ND	1	120	.2	2	2	162	1.48	.150	7	9	.83	39	.16	3	1.09	.03	.08	1	88
B 91641	1	286	2	28	.2	9	13	302	4.31	7	5	ND	1	85	.3	2	2	144	1.28	.142	7	8	.85	25	.14	4	1.03	.03	.07	1	28
B 91642	1	1009	4	33	.4	8	13	332	4.97	7	5	ND	1	86	.2	2	2	179	1.51	.142	7	8	.95	31	.15	4	1.12	.04	.08	1	107
B 91643	1	582	2	29	.3	11	14	311	5.15	6	5	ND	1	75	.3	2	2	181	1.24	.144	7	13	1.10	22	.15	2	1.10	.03	.08	1	63
B 91644	1	399	3	26	.2	9	21	324	4.83	5	5	ND	1	99	.5	2	2	151	1.37	.168	8	8	1.26	16	.14	4	1.26	.03	.06	1	67
RE B 91642	1	984	3	34	.4	11	14	323	4.83	4	5	ND	1	82	.2	2	2	173	1.46	.140	7	8	.92	26	.15	4	1.08	.04	.08	1	95
B 91645	1	401	5	26	.1	10	16	354	4.10	9	5	ND	1	95	.2	2	2	124	1.72	.127	7	9	1.10	19	.13	4	1.15	.04	.06	1	43
B 91646	6	337	2	23	.1	7	17	469	4.00	14	5	ND	1	130	.3	2	6	129	3.42	.139	9	9	1.30	21	.07	4	1.39	.03	.08	1	43
B .647	2	629	2	27	.3	10	17	528	4.56	19	5	ND	[illegible]	141	.2	2	2	110	3.69	.129	10	10	1.39	62	.01	6	1.50	.02	.08	1	88
B 91648	2	545	2	26	.2	9	15	611	4.14	47	5	ND	1	226	.2	3	2	51	6.04	.112	6	5	1.13	48	.01	9	.95	.01	.15	1	86
B 91649	1	542	2	44	.2	12	18	705	5.22	9	5	ND	1	164	.5	2	2	150	4.17	.258	10	15	1.66	119	.09	6	1.68	.02	.06	1	38
B 91650	1	528	2	43	.1	11	15	614	4.90	8	5	ND	1	222	.6	2	2	148	2.58	.114	5	11	2.10	51	.14	3	1.62	.02	.04	2	36
B 91651	1	663	2	39	.2	12	12	550	4.67	7	5	ND	1	219	.3	2	2	126	2.59	.115	5	15	2.00	138	.13	6	1.64	.03	.04	1	58
B 91652	3	394	2	39	.2	10	15	470	5.42	8	5	ND	1	216	.2	3	4	154	1.97	.097	4	13	1.74	28	.15	2	1.52	.03	.05	1	115
B 91653	1	342	5	44	.2	11	14	527	4.42	9	5	ND	1	190	.2	3	3	138	1.68	.067	4	12	2.06	27	.17	3	1.64	.03	.05	2	40
B 91654	2	485	2	37	.2	8	11	458	3.83	5	5	ND	1	166	.2	2	2	126	1.73	.069	3	9	1.64	24	.16	2	1.34	.03	.06	1	56
STANDARD C/AU-R	18	58	37	126	6.7	70	31	1037	3.83	38	23	7	35	49	18.7	16	20	56	.47	.091	35	56	.85	175	.08	33	1.77	.06	.14	12	530
STANDARD C	19	58	36	132	6.9	72	31	1050	3.93	42	23	8	37	52	19.0	14	21	55	.51	.095	38	56	.89	181	.07	36	1.91	.06	.14	11	-

ACME ANALYTICAL LABORATORIES LTD.   852 E. HASTINGS ST. VANCOUVER B.C.   V6A 1R6   PHONE(604)253-3158   FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

BP Resources Canada Ltd. PROJECT 540 LOC 10144   File # 90-3663   Page 1

700 - 890 W. Pender St., Vancouver BC V6B 4W3   Submitted by: R.WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91655	5	600	2	19	.1	9	5	177	1.90	5	5	ND	1	28	.2	2	2	80	.86	.087	5	19	1.19	36	.14	10	1.56	.11	.16	1	57
B 91656	2	632	4	22	.2	15	18	172	2.26	8	5	ND	1	170	.2	3	2	107	.68	.094	6	27	1.04	83	.18	9	1.60	.11	.49	1	20
B 91657	8	1254	2	18	.1	15	16	155	2.10	6	5	ND	1	73	.2	3	2	86	.69	.092	5	25	1.26	49	.15	4	1.34	.08	.30	1	26
B 91658	1	793	2	22	.2	18	10	150	2.00	8	5	ND	1	55	.2	3	2	90	.73	.103	6	27	1.18	51	.16	3	1.42	.08	.29	1	41
B 91659	1	657	6	12	.1	12	15	102	1.88	7	7	ND	1	61	.2	2	2	65	.90	.095	8	16	.67	36	.14	6	1.16	.09	.20	1	18
B 91660	3	826	5	19	.1	21	15	136	1.97	6	5	ND	1	41	.3	2	2	86	.92	.094	5	24	.87	35	.13	3	1.09	.07	.25	1	14
B 91661	5	896	2	19	.1	17	23	116	2.10	8	5	ND	1	44	.2	2	2	76	.96	.095	6	18	.67	27	.12	5	1.11	.08	.16	1	37
RE B 91666	1	588	4	13	.2	9	17	116	1.52	5	6	ND	1	30	.2	2	2	31	1.24	.110	7	10	.49	15	.11	6	1.09	.09	.08	1	49
B 91662	4	450	6	18	.1	12	15	100	1.59	6	7	ND	1	36	.2	2	2	39	1.32	.098	6	14	.48	21	.11	5	1.17	.10	.11	1	23
B 563	1	506	5	11	.1	7	14	89	1.44	5	5	ND	1	36	.2	3	2	31	1.20	.095	6	10	.39	12	.11	5	1.06	.06	.07	2	23
B 91664	6	1895	2	26	.3	17	14	140	1.82	4	5	ND	2	30	.4	3	2	71	.91	.097	6	26	.85	21	.13	4	1.18	.07	.13	1	66
B 91665	5	2438	6	30	.4	9	15	119	1.81	6	5	ND	1	34	.6	2	2	48	1.10	.091	7	13	.62	20	.11	3	1.15	.06	.10	1	133
B 91666	2	623	7	15	.1	9	16	129	1.61	5	5	ND	1	31	.2	2	2	32	1.30	.117	8	12	.51	16	.12	9	1.13	.09	.08	1	38
B 91667	2	630	5	22	.1	7	9	152	1.74	6	5	ND	1	32	.2	2	2	48	1.19	.096	6	12	.77	19	.12	6	1.24	.07	.08	1	31
B 91668	3	1256	2	38	.5	11	20	182	2.69	11	5	ND	1	28	.2	2	3	45	1.18	.100	5	12	.86	12	.11	6	1.20	.07	.06	1	56
B 91669	1	765	3	18	.4	5	20	106	1.48	8	9	ND	1	25	.2	2	2	30	1.11	.131	8	7	.42	16	.11	6	.71	.07	.07	1	29
B 91670	2	2052	7	36	.8	7	26	178	3.04	9	5	ND	1	35	.3	2	2	45	1.44	.109	6	13	.75	12	.13	8	1.28	.08	.08	1	67
B 91671	1	2481	6	43	1.1	6	36	179	3.27	15	5	ND	1	37	.2	3	2	52	1.15	.085	5	11	.86	14	.14	9	1.43	.08	.08	1	47
B 91672	2	791	6	19	.3	7	15	151	1.77	11	5	ND	1	40	.2	3	2	42	1.04	.112	7	12	.63	26	.12	2	1.12	.09	.09	1	56
B 91673	2	1525	4	32	.8	7	23	135	2.25	11	5	ND	1	62	.5	2	2	41	1.21	.086	6	10	.50	25	.13	7	1.21	.09	.09	1	92
B 91674	6	545	4	17	.6	9	11	94	1.54	20	6	ND	1	21	.3	2	2	43	.78	.107	8	14	.51	24	.14	4	.75	.07	.07	1	33
B 91675	4	446	5	16	.2	8	14	129	1.71	10	5	ND	1	45	.2	2	2	40	1.15	.128	8	12	.52	23	.14	4	.95	.09	.10	1	25
B 91676	1	923	3	32	.6	9	15	196	3.97	12	5	ND	1	54	.2	2	2	64	1.50	.090	5	12	.65	23	.13	7	1.41	.11	.09	1	18
B 91677	1	1462	4	30	.6	7	19	139	2.74	6	5	ND	1	36	.2	2	2	49	1.49	.099	6	10	.44	23	.13	6	.95	.08	.10	1	41
B 91678	75	938	2	29	1.0	12	24	121	2.32	83	5	ND	2	40	.2	2	2	46	1.05	.116	7	10	.41	30	.14	8	.54	.07	.09	1	62
B 91679	20	1876	2	43	1.3	9	28	184	3.20	38	5	ND	2	52	.4	2	2	66	2.00	.113	10	12	.72	30	.11	5	.72	.05	.09	1	53
B 91680	18	881	2	39	.4	24	27	410	5.18	15	7	ND	1	178	.5	2	2	85	5.07	.134	9	45	1.88	29	.01	8	1.85	.03	.20	1	16
B 31	3	1422	2	26	.8	7	10	185	1.89	15	5	ND	2	43	.4	2	2	64	1.61	.120	8	13	.92	34	.11	15	.83	.06	.09	1	49
B 32	4	2052	2	37	1.0	12	22	179	3.06	15	5	ND	2	46	.2	2	2	66	1.37	.114	7	12	.57	108	.13	7	.70	.06	.10	1	153
B 91683	1	2004	6	40	.8	14	29	271	4.11	10	5	ND	1	68	.4	3	2	110	1.76	.166	8	16	1.22	43	.17	5	1.39	.08	.18	1	26
B 91684	5	2074	2	47	1.1	17	22	260	3.45	9	5	ND	1	70	.3	2	2	120	1.47	.150	10	21	1.43	53	.17	3	1.42	.09	.25	1	90
B 91685	1	5802	2	81	2.1	18	40	358	5.51	13	6	ND	1	52	1.1	2	2	183	1.54	.137	8	22	1.79	73	.20	4	1.69	.07	.38	1	152
B 91686	11	3650	3	52	.7	21	21	237	3.17	13	5	ND	1	55	.5	2	2	135	.98	.125	7	22	1.38	63	.18	2	1.29	.08	.42	1	130
B 91687	22	811	4	25	.4	15	12	157	1.95	19	5	ND	2	29	.2	2	2	102	1.04	.106	7	19	1.00	37	.14	4	1.01	.05	.23	1	12
B 91688	12	1276	5	26	.4	16	11	160	1.74	10	5	ND	2	62	.2	2	2	94	1.28	.102	6	26	1.03	40	.16	4	1.02	.05	.27	1	42
B 91689	17	1430	2	29	.2	26	17	132	2.18	10	5	ND	1	46	.3	2	2	100	1.00	.099	6	25	.91	42	.17	5	1.02	.10	.20	1	36
B 91690	17	1925	3	35	.4	18	17	122	2.04	10	5	ND	2	40	.3	2	2	104	.99	.102	6	21	.80	37	.16	8	.83	.06	.22	1	71
B 91691	21	1438	4	32	.3	14	15	140	1.92	9	5	ND	1	46	.4	2	2	83	1.17	.120	7	27	.90	52	.17	2	.98	.12	.30	1	28
STANDARD C/AU-R	20	59	36	136	7.3	73	32	1086	3.92	43	18	7	37	51	18.5	15	23	57	.58	.100	36	59	.90	175	.07	32	1.95	.06	.14	11	530
STANDARD C	18	63	40	130	7.4	73	31	1056	3.98	42	18	7	36	52	19.0	15	18	56	.58	.094	38	60	.92	181	.07	36	1.89	.06	.14	12	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core   AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 20 1990   DATE REPORT MAILED: Aug 24/90.   SIGNED BY .... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-3663

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91692	7	1199	4	18	.1	16	13	148	1.88	12	5	ND	2	57	.2	2	2	70	1.21	.102	7	17	.85	30	.19	6	.92	.06	.16	1	68
B 91693	34	2167	2	27	.3	18	22	136	2.26	12	5	ND	2	55	.2	2	2	69	.85	.100	7	16	.74	33	.21	5	.78	.05	.15	1	88
B 91694	12	1925	2	27	.2	17	18	136	2.22	6	5	ND	3	48	.2	2	2	77	.83	.094	6	18	.71	23	.19	3	.68	.04	.10	1	57
B 91695	16	2780	2	32	.4	15	26	210	3.49	5	5	ND	3	74	.2	2	2	106	1.32	.103	6	14	1.03	28	.21	4	.97	.04	.18	1	100
B 91696	12	3908	2	41	.5	19	35	261	4.08	15	5	ND	1	85	.2	2	2	126	1.71	.156	9	16	1.34	43	.27	4	1.45	.06	.31	1	118
B 91697	14	2129	2	25	.2	13	17	160	2.16	9	5	ND	2	44	.2	2	2	71	.99	.096	7	14	.88	29	.20	4	.85	.04	.19	1	87
B 91698	9	2615	2	29	.4	16	12	134	1.66	6	5	ND	3	34	.2	2	2	70	.98	.094	6	17	.73	30	.18	8	.80	.05	.16	1	109
B 91699	10	2070	2	26	.2	15	21	152	2.15	5	5	ND	2	44	.2	2	3	82	.88	.097	5	18	.85	28	.20	5	.88	.06	.16	1	75
B 91700	7	1664	3	21	.2	13	9	139	1.66	10	5	ND	3	73	.2	2	3	80	1.09	.093	6	20	.82	34	.18	3	.92	.04	.19	1	67
B 91701	7	1290	2	25	.1	10	7	151	1.55	4	5	ND	3	54	.2	2	2	80	1.18	.081	6	16	.92	32	.14	3	.82	.04	.15	1	45
B 91702	14	1552	4	28	.2	15	11	166	2.07	7	5	ND	2	36	.2	2	4	118	.77	.093	5	21	1.25	56	.22	2	1.11	.05	.52	1	62
P ~1703	29	1571	2	19	.3	15	11	145	1.60	8	5	ND	3	29	.2	2	2	97	.59	.090	5	22	.93	53	.21	3	.88	.06	.41	1	77
704	11	2943	3	30	.3	17	15	132	1.74	6	5	ND	2	32	.2	2	2	95	.71	.099	5	22	.94	49	.21	3	.92	.06	.35	1	131
B 91705	5	1250	2	17	.1	12	6	143	1.39	5	5	ND	2	39	.2	2	2	85	.72	.102	6	23	.93	41	.21	10	.87	.05	.27	1	51
B 91706	24	804	3	14	.1	11	5	133	1.32	2	5	ND	3	44	.2	2	2	79	.77	.083	5	22	.90	40	.21	6	.86	.05	.20	1	25
B 91707	13	2603	4	19	.3	15	9	143	1.61	6	5	ND	2	37	.2	2	2	84	.88	.092	6	21	.87	43	.20	4	.85	.06	.27	1	77
B 91708	34	1479	2	19	.2	15	9	157	1.77	2	5	ND	3	54	.2	2	2	117	.67	.090	6	28	1.07	84	.24	3	1.06	.07	.47	1	64
B 91709	4	1254	2	15	.1	20	19	156	2.68	10	5	ND	2	119	.2	2	2	127	.71	.098	7	32	1.30	105	.26	3	1.33	.08	.69	1	43
B 91710	6	1236	2	15	.2	18	18	170	3.08	2	5	ND	4	206	.2	2	2	128	.73	.093	7	25	1.27	103	.27	3	1.50	.09	.71	1	36
B 91711	26	944	2	15	.1	18	13	181	2.59	3	5	ND	3	137	.2	2	2	143	.64	.096	7	29	1.34	128	.28	3	1.37	.08	.76	1	97
B 91712	6	970	2	15	.1	15	9	161	1.96	2	5	ND	3	143	.2	2	2	132	.53	.087	5	25	1.23	135	.26	2	1.20	.06	.70	1	45
B 91713	81	1413	2	18	.1	18	13	194	2.30	8	5	ND	2	61	.2	2	2	138	.55	.095	6	30	1.33	79	.27	5	1.14	.06	.67	1	69
RE B 91709	3	1213	2	15	.1	20	19	151	2.58	2	5	ND	2	116	.2	2	2	122	.69	.095	7	31	1.26	97	.25	6	1.27	.08	.66	1	37
B 91714	3	3258	2	26	.3	19	14	175	2.54	2	5	ND	3	92	.3	8	2	119	1.21	.113	9	28	1.15	46	.21	5	.98	.06	.34	1	125
B 91715	34	2469	2	17	.2	17	11	217	2.63	21	5	ND	2	205	.2	67	2	97	1.84	.097	8	27	1.21	40	.06	8	.91	.04	.27	1	85
B 91716	11	1880	2	20	.2	24	13	166	2.33	2	5	ND	3	34	.2	2	2	136	.83	.087	6	30	.95	55	.26	3	.92	.07	.38	1	88
B 91717	12	881	2	15	.1	20	13	146	2.01	2	5	ND	4	28	.2	2	3	139	.78	.096	7	25	.86	57	.26	3	.85	.07	.39	1	32
B 91718	2	658	2	13	.1	13	6	198	1.96	3	5	ND	3	30	.2	2	2	111	.84	.097	7	31	.71	46	.25	6	.69	.06	.33	1	31
B 91719	32	1486	2	18	.2	12	9	154	1.97	2	5	ND	3	35	.2	2	3	125	.74	.087	6	22	.73	46	.22	2	.70	.05	.36	1	60
B 91720	2	3233	2	22	.4	17	13	149	2.30	5	5	ND	3	30	.2	2	2	137	.70	.087	5	28	.93	46	.22	3	.81	.05	.48	1	123
B 21	19	5322	2	31	.7	33	25	246	4.15	2	5	ND	2	64	.2	3	2	241	.68	.119	7	49	2.32	82	.35	2	1.86	.04	1.52	1	320
B 91722	2	2657	2	28	.4	21	16	239	3.16	9	5	ND	2	175	.2	2	2	205	1.18	.113	6	46	1.80	87	.31	2	1.53	.05	1.24	1	290
B 91723	36	5064	2	37	.6	21	19	162	2.82	4	5	ND	2	43	.3	3	2	141	.65	.101	7	34	1.01	42	.24	3	.92	.04	.62	1	310
B 91724	1	2443	2	29	.3	33	37	252	6.17	2	5	ND	1	82	.3	2	2	166	.94	.130	8	54	2.18	97	.32	2	2.14	.08	1.45	1	74
B 91725	1	1925	2	25	.1	20	15	248	3.63	2	5	ND	1	63	.2	3	2	150	.86	.116	7	40	1.72	97	.29	5	1.59	.06	1.15	1	88
B 91726	7	2425	2	18	.2	16	11	135	1.89	2	5	ND	3	28	.2	2	2	106	.71	.090	6	22	.69	34	.24	3	.67	.06	.33	1	112
B 91727	3	1416	2	19	.2	16	11	145	2.02	4	5	ND	2	28	.2	2	2	108	.70	.085	6	24	.75	38	.24	5	.77	.06	.37	1	78
B 91728	31	1622	2	17	.1	15	9	122	1.61	4	5	ND	2	26	.2	2	3	104	.64	.085	7	21	.74	36	.25	2	.73	.06	.36	1	91
STANDARD C/AU-R	20	63	38	137	7.4	74	32	1073	4.05	42	22	8	39	53	18.7	17	21	61	.57	.094	39	59	.92	182	.09	37	1.96	.06	.14	13	540
STANDARD C	19	61	41	133	7.0	73	31	1049	3.97	40	19	7	40	52	19.0	15	22	60	.58	.098	40	60	.90	183	.09	37	1.90	.06	.13	12	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91729	39	1817	2	58	.2	13	16	176	2.07	2	5	ND	2	21	1.0	2	2	126	.58	.089	5	34	.96	41	.19	4	.85	.05	.46	1	60
B 91730	6	3214	5	22	.3	18	18	122	2.03	4	5	ND	2	24	.3	2	2	103	.65	.098	5	30	.80	37	.18	4	.73	.05	.32	1	112
B 91731	20	786	2	21	.1	8	4	146	1.12	2	5	ND	2	49	.2	2	3	75	1.05	.083	6	30	.72	26	.10	2	.63	.04	.16	2	52
B 91732	7	3683	2	50	.2	19	15	192	2.20	2	5	ND	2	41	.4	2	2	113	.62	.092	5	36	1.08	64	.18	3	.96	.06	.40	1	44
B 91733	19	2113	2	22	.1	11	7	117	1.21	2	5	ND	2	28	.6	2	2	61	.60	.081	5	30	.58	55	.16	2	.54	.04	.18	1	77
B 91734	13	4968	2	26	.5	22	18	152	2.32	2	5	ND	2	65	.7	2	2	108	.84	.095	7	28	.88	56	.17	3	.84	.07	.29	1	250
B 91735	33	1896	3	24	.2	20	21	142	2.02	3	5	ND	2	85	.5	2	2	113	.70	.096	8	49	.92	97	.19	3	1.09	.20	.43	1	60
B 91736	7	2803	3	20	.4	16	16	164	2.13	2	5	ND	2	63	.8	2	2	104	.73	.097	7	22	.93	56	.18	4	.88	.08	.33	1	230
B 91737	9	2009	7	18	.2	24	25	136	2.22	2	5	ND	2	92	.5	2	2	95	.60	.085	6	43	.94	56	.16	2	.93	.11	.33	1	58
RE B 91742	143	3654	3	29	.6	24	21	126	3.05	11	5	ND	2	74	.5	2	2	89	.93	.095	8	28	.80	52	.16	3	1.05	.15	.28	1	420
B 91738	6	841	2	18	.1	16	8	162	1.62	2	5	ND	2	50	.2	2	2	98	.69	.090	5	35	1.02	80	.20	4	1.07	.18	.45	1	36
[illegible]1739	24	2000	4	20	.4	29	28	154	3.11	4	5	ND	1	171	.8	2	2	96	.86	.110	7	52	.86	71	.20	2	1.04	.15	.37	1	54
[illegible]740	66	2442	2	20	.3	20	19	150	2.25	5	5	ND	2	89	.7	2	2	82	.82	.084	6	23	.86	63	.17	4	.88	.11	.29	1	96
B 91741	58	1558	2	13	.1	21	20	137	2.45	8	5	ND	1	133	.2	2	2	102	.70	.085	6	40	.96	66	.16	2	1.09	.11	.39	2	93
B 91742	143	3673	2	28	.6	27	23	144	3.05	11	5	ND	2	75	.5	2	2	90	.93	.093	8	31	.81	41	.16	3	1.02	.11	.25	1	420
B 91743	28	1456	4	14	.1	21	12	137	2.26	8	5	ND	2	142	.5	2	2	122	.79	.094	6	43	.97	71	.19	7	1.20	.13	.45	1	70
B 91744	77	1970	2	21	.3	19	11	178	2.67	4	5	ND	2	227	.5	2	2	128	.94	.098	6	34	1.00	77	.22	6	1.27	.15	.50	1	38
B 91745	8	3001	5	31	.4	13	20	180	3.47	6	5	ND	1	570	.9	2	2	105	1.02	.112	7	27	.94	113	.16	5	1.28	.06	.36	1	116
B 91746	65	3045	2	28	.4	8	18	201	3.63	2	5	ND	1	143	.3	2	2	123	.96	.109	7	19	1.00	89	.16	4	1.37	.12	.55	1	99
B 91747	5	1918	2	27	.3	8	19	210	4.01	2	5	ND	1	264	.3	2	2	135	1.05	.114	8	22	1.04	65	.17	3	1.37	.07	.35	1	74
B 91748	92	3274	4	30	.6	12	14	157	2.56	3	5	ND	2	54	.5	2	2	106	.75	.097	7	19	.84	42	.17	3	.88	.06	.34	1	113
B 91749	27	1739	4	16	.1	21	14	128	1.84	4	5	ND	1	54	.2	2	2	77	.82	.094	5	35	.61	27	.16	2	.62	.05	.16	1	142
B 91750	35	2051	3	20	.2	32	17	162	2.86	2	5	ND	1	166	.5	2	2	110	1.55	.105	10	37	.85	27	.21	6	1.34	.06	.24	1	87
B 91751	22	5040	8	51	1.0	25	23	262	4.60	2	5	ND	1	124	.5	2	2	120	1.45	.114	8	58	1.34	27	.20	3	1.46	.08	.22	1	280
B 91752	270	2773	9	33	.5	28	20	274	3.92	2	5	ND	1	105	.6	3	2	162	1.84	.110	12	57	1.53	26	.18	4	1.51	.06	.18	1	250
B 91753	353	3189	2	39	.6	22	15	216	3.14	4	5	ND	1	128	.4	2	2	134	2.10	.105	12	46	1.18	19	.17	2	1.41	.04	.10	1	164
B 91754	501	2674	7	30	.5	22	15	182	2.72	4	5	ND	2	98	.2	2	2	113	1.43	.101	13	40	.86	32	.18	3	1.08	.06	.16	1	123
B 91755	14	2249	6	29	.3	16	11	210	2.99	2	5	ND	2	104	.2	2	2	130	1.64	.095	10	39	.90	35	.18	2	1.05	.07	.16	1	68
B 91756	118	2466	2	23	.4	11	9	187	2.00	3	5	ND	2	97	.3	2	2	104	1.44	.097	9	31	.85	43	.18	4	1.00	.06	.18	1	210
B 91757	27	2350	4	23	.6	14	8	220	2.02	3	5	ND	3	76	.5	2	2	91	1.21	.105	8	48	.92	88	.17	4	1.06	.15	.34	1	133
B [illegible]58	18	764	2	10	.1	7	3	162	1.48	2	5	ND	2	70	.2	2	2	61	1.32	.084	7	23	.62	42	.11	2	.72	.06	.14	1	47
B 91759	2	793	5	15	.2	5	5	206	3.02	2	5	ND	2	60	.2	2	2	95	1.35	.064	5	19	.69	42	.09	2	.81	.06	.13	1	59
B 91760	3	2311	5	38	1.0	9	17	201	3.72	2	5	ND	2	48	.6	2	2	194	1.06	.088	5	10	.55	52	.08	6	.70	.05	.12	1	68
B 91761	15	1763	7	27	.6	7	14	156	1.92	2	5	ND	1	57	.4	2	2	86	1.22	.050	3	16	.38	51	.08	2	.43	.04	.10	1	80
B 91762	46	991	2	12	.3	4	5	137	.95	2	5	ND	2	56	.2	2	2	33	1.39	.064	4	10	.43	32	.08	2	.45	.04	.10	1	20
B 91763	53	1205	5	22	.1	4	5	156	1.23	2	5	ND	1	51	.4	2	2	38	1.21	.063	4	17	.63	43	.07	2	.62	.04	.12	1	81
B 91764	26	1132	2	19	.1	2	4	142	1.13	2	5	ND	2	46	.4	2	2	42	1.04	.087	5	6	.42	47	.08	2	.49	.05	.14	1	24
B 91765	133	2114	7	33	.3	7	6	159	1.40	2	5	ND	2	61	.7	2	2	54	1.06	.097	8	34	.62	58	.12	2	.64	.06	.18	1	74
STANDARD C/AU-R	21	63	42	138	7.5	74	32	1077	4.11	39	18	8	39	53	19.0	18	20	60	.56	.097	40	62	.99	184	.08	35	1.96	.06	.14	11	510
STANDARD C	18	60	39	129	7.3	72	31	1055	3.97	38	16	7	37	52	19.0	15	19	55	.51	.095	36	60	.90	179	.07	33	1.88	.06	.14	13	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

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AUG 28 1990

700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: RUSSELL BARNES

AMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
91766	2	175	2	28	.2	10	31	228	5.49	26	5	ND	2	31	.3	2	6	127	1.02	.132	6	7	1.39	43	.18	4	1.53	.03	.40	1	54
91767	2	880	6	33	1.2	11	26	202	6.18	21	5	ND	2	32	.3	3	5	122	.85	.102	5	9	1.12	39	.17	3	1.38	.04	.32	1	730
91768	1	561	3	28	1.0	9	8	277	5.59	14	5	ND	1	40	.2	2	2	157	1.61	.118	6	7	.98	49	.16	4	1.29	.04	.33	1	300
91769	4	619	4	28	.9	10	15	239	5.85	13	5	ND	1	28	.2	2	2	115	.86	.111	4	8	1.00	40	.17	4	1.23	.04	.32	1	340
91770	2	493	4	26	.4	9	9	249	5.53	14	5	ND	1	29	.2	2	2	117	.75	.145	6	7	1.27	41	.16	2	1.37	.03	.26	1	68
91771	3	371	2	20	.4	11	10	222	5.66	18	5	ND	1	25	.2	2	5	100	.82	.097	5	8	1.01	26	.13	4	1.26	.03	.15	1	34
91772	2	248	4	23	.3	10	11	229	5.03	17	5	ND	1	30	.2	2	3	100	1.09	.138	6	8	1.16	24	.15	5	1.38	.03	.13	1	29
91773	2	196	2	23	.3	11	9	291	4.59	15	5	ND	1	38	.2	2	4	95	1.61	.116	6	8	1.07	44	.17	3	1.36	.05	.24	1	28
91774	3	141	2	24	.3	8	9	265	4.81	12	5	ND	1	47	.2	2	3	106	1.95	.146	7	7	1.15	60	.19	3	1.38	.04	.39	1	25
91775	10	65	2	21	.3	11	11	217	5.27	10	5	ND	1	40	.2	2	2	100	1.39	.141	6	7	1.16	56	.21	3	1.35	.04	.52	1	24
91776	4	206	4	18	.2	10	14	292	6.43	24	5	ND	1	37	.2	2	2	135	1.34	.142	8	7	1.24	54	.18	2	1.45	.04	.27	1	17
91777	2	135	4	27	.3	11	9	283	5.30	11	5	ND	1	71	.2	2	2	107	1.65	.135	7	7	1.22	39	.19	4	1.39	.05	.30	1	47
91778	2	421	2	17	.4	13	15	265	8.33	46	5	ND	1	31	.2	4	10	184	.83	.151	10	20	1.31	32	.16	2	1.63	.06	.21	1	22
91779	5	310	2	18	.2	10	9	258	6.45	44	5	ND	1	25	.2	2	2	169	.91	.151	8	9	1.58	47	.16	2	1.71	.04	.26	1	14
91780	3	218	4	21	.2	10	10	381	6.09	25	5	ND	1	44	.5	2	3	165	1.91	.149	9	8	1.66	69	.18	2	1.76	.04	.33	1	7
91781	4	65	2	23	.1	11	11	325	4.68	8	5	ND	1	48	.2	2	2	116	1.93	.150	7	8	1.24	64	.19	2	1.58	.06	.33	1	5
91782	3	44	3	19	.3	9	8	301	3.30	4	5	ND	2	96	.2	2	2	102	2.42	.140	7	10	1.14	79	.20	3	1.39	.06	.28	1	20
91783	2	13	3	24	.3	10	6	292	2.98	3	5	ND	2	80	.2	2	2	83	2.25	.121	6	8	.99	52	.17	3	1.16	.06	.20	1	7
91784	1	41	2	25	.1	8	6	270	3.05	7	5	ND	1	70	.2	2	2	88	1.75	.116	6	7	.94	64	.17	4	1.17	.07	.24	1	10
91785	2	96	4	22	.3	10	7	256	3.11	5	5	ND	1	71	.2	2	2	80	1.68	.127	6	8	.81	63	.17	4	1.22	.08	.23	1	26
91786	2	77	2	21	.2	9	7	230	3.92	7	5	ND	1	80	.2	2	3	93	1.55	.149	8	6	.83	73	.17	5	1.32	.06	.28	1	18
91787	2	97	3	25	.4	12	9	271	5.75	12	5	ND	1	110	.2	2	2	109	1.49	.136	8	8	.82	31	.14	3	1.14	.07	.18	1	27
91788	2	425	2	27	.5	8	8	291	4.50	10	5	ND	1	74	.2	2	5	86	1.72	.090	5	6	1.05	42	.14	2	1.30	.06	.25	1	66
91789	3	674	2	32	1.0	11	12	231	4.98	9	5	ND	1	58	.2	2	3	93	1.21	.109	6	7	1.05	46	.17	4	1.39	.06	.46	1	240
91790	2	75	2	26	.2	9	8	273	4.61	14	5	ND	1	67	.2	2	2	88	1.61	.135	7	6	1.01	39	.17	3	1.39	.06	.38	1	23
91791	2	342	2	27	.6	11	15	247	6.06	12	5	ND	1	54	.3	2	2	109	.97	.034	3	9	1.11	48	.19	3	1.47	.06	.59	1	73
91792	2	313	2	23	.4	9	7	273	4.85	13	5	ND	1	54	.2	2	2	116	1.58	.099	6	9	1.04	63	.18	5	1.39	.06	.44	1	55
917[illegible]	3	225	3	29	.4	14	8	412	5.19	11	5	ND	1	56	.2	2	2	104	1.47	.154	8	18	1.21	61	.20	4	1.52	.05	.35	1	32
9[illegible]	2	473	3	34	.4	9	9	258	5.08	5	5	ND	1	55	.2	2	2	92	1.26	.159	9	6	1.13	57	.19	2	1.46	.07	.37	1	57
91795	1	427	2	35	.6	10	14	275	4.92	11	5	ND	1	72	.2	2	2	96	1.67	.148	8	9	1.25	56	.19	3	1.52	.08	.55	1	64
91796	1	274	3	33	.4	10	15	246	5.05	8	5	ND	1	107	.3	2	2	87	1.72	.106	6	9	1.21	40	.19	2	1.36	.06	.22	1	70
E 8 91792	2	312	4	22	.5	9	6	263	4.67	11	5	ND	1	53	.3	2	2	113	1.53	.091	5	10	1.01	63	.18	4	1.36	.06	.42	1	67
91797	2	723	3	38	.8	12	8	247	4.52	14	5	ND	1	60	.3	2	2	89	1.10	.080	5	8	1.17	60	.21	4	1.43	.06	.51	3	250
91798	1	279	2	24	.3	10	8	275	4.52	15	5	ND	1	64	.2	2	2	113	1.31	.151	8	7	1.07	82	.21	2	1.34	.07	.58	1	29
91799	11	424	4	28	.5	11	9	266	4.95	11	5	ND	1	71	.2	2	2	112	1.99	.185	10	7	1.17	67	.21	3	1.43	.06	.46	1	59
91800	1	842	2	33	1.0	11	11	272	5.74	11	5	ND	1	66	.4	2	3	112	1.54	.230	12	6	1.29	54	.21	3	1.45	.06	.45	1	200
91801	1	396	2	37	.6	11	7	312	5.15	7	5	ND	1	63	.3	2	2	127	1.29	.161	9	8	1.34	90	.21	4	1.56	.08	.60	1	79
TANDARD C/AU-R	19	58	35	126	7.0	68	31	1018	3.85	40	20	8	40	51	18.6	17	21	54	.48	.096	39	55	.85	168	.08	34	1.81	.06	.13	12	510
TANDARD C	18	58	38	129	7.2	71	32	1047	3.98	43	21	7	39	53	18.6	15	19	57	.52	.098	39	60	.89	182	.09	36	1.89	.06	.13	13	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P2 CORE P3 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 22 1990 DATE REPORT MAILED: Aug 27/90. SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91802	1	499	2	34	.7	11	13	280	5.12	6	5	ND	1	61	.2	3	2	128	1.40	.174	9	7	1.20	69	.21	3	1.50	.05	.66	1	73
B 91803	1	342	2	28	.4	8	17	275	3.92	5	5	ND	1	143	.2	2	2	111	1.75	.152	9	5	1.03	86	.20	3	1.29	.06	.47	1	62
B 91804	4	274	2	22	.4	11	13	231	3.76	9	5	ND	1	259	.2	2	2	107	1.87	.161	9	8	.86	111	.19	4	1.12	.05	.31	1	69
B 91805	1	259	2	23	.4	7	6	253	4.52	2	5	ND	1	156	.2	2	2	144	1.61	.158	9	7	.89	82	.18	5	1.18	.05	.23	1	37
B 91806	1	632	2	25	.7	10	7	206	5.19	11	5	ND	2	79	.2	2	5	128	1.52	.149	11	7	.54	23	.13	3	.92	.06	.13	1	66
B 91807	1	855	2	25	.8	8	10	353	4.87	92	5	ND	2	90	.4	2	2	118	2.72	.116	9	6	1.01	36	.12	2	1.08	.04	.11	1	330
B 91808	1	489	2	23	.5	10	5	354	4.03	19	5	ND	1	115	.2	2	2	127	2.41	.152	9	7	1.14	46	.19	2	1.38	.06	.18	1	56
B 91809	1	504	2	18	.3	7	7	243	4.32	27	5	ND	2	80	.2	2	3	105	1.59	.151	8	4	.79	48	.16	9	1.22	.06	.14	1	12
B 91810	2	260	2	24	.3	10	5	313	4.42	6	5	ND	1	150	.2	2	2	142	2.14	.160	10	9	1.10	58	.19	4	1.52	.06	.19	1	29
B 91811	11	161	2	21	.3	8	8	304	4.00	30	5	ND	2	103	.2	2	2	122	2.82	.130	9	7	1.02	32	.13	4	1.14	.04	.12	1	21
B 91812	2	384	2	13	.4	9	10	147	3.59	13	5	ND	2	38	.2	2	2	67	1.22	.117	8	6	.51	22	.12	3	.70	.04	.11	1	38
B [illegible]13	8	184	2	19	.2	6	9	257	4.07	17	5	ND	1	61	.2	2	2	97	1.66	.152	9	4	.90	41	.16	3	1.05	.05	.16	1	29
B [illegible]14	2	118	3	26	.3	11	11	306	4.74	10	5	ND	1	90	.2	2	2	138	1.77	.168	9	8	1.01	27	.18	6	1.42	.06	.14	1	14
B 91815	1	162	2	25	.2	8	14	291	4.31	6	5	ND	2	56	.2	2	2	115	1.80	.168	9	6	1.08	29	.18	4	1.43	.06	.14	1	17
B 91816	1	110	2	20	.1	11	6	251	4.00	3	5	ND	1	116	.3	2	2	135	1.90	.156	9	9	.86	28	.19	5	1.50	.05	.11	1	13
B 91817	1	413	3	19	.4	6	10	255	3.92	11	5	ND	2	72	.2	2	2	94	1.80	.148	8	5	.91	19	.15	5	1.32	.05	.09	1	17
B 91818	21	603	17	29	.8	11	10	330	5.13	28	5	ND	1	111	.5	2	2	129	2.23	.161	10	7	1.16	49	.17	8	1.41	.04	.18	1	40
B 91819	2	515	2	28	.5	8	8	306	4.91	22	5	ND	1	74	.3	2	2	133	1.97	.162	10	4	1.05	38	.17	5	1.40	.06	.12	1	33
B 91820	1	608	3	29	.6	10	11	290	4.71	15	5	ND	1	64	.2	2	2	113	1.76	.154	9	7	1.07	21	.17	4	1.47	.06	.13	1	53
B 91821	1	412	4	24	.4	8	10	293	4.20	46	5	ND	1	116	.2	2	2	108	2.03	.158	9	5	1.02	22	.17	6	1.58	.07	.14	1	16
B 91822	3	445	2	24	.3	9	16	275	5.00	10	5	ND	1	260	.2	2	2	104	1.85	.166	9	6	1.17	37	.17	5	1.45	.05	.20	1	23
B 91823	1	360	2	25	.3	7	10	275	4.46	14	5	ND	1	130	.2	2	2	115	2.02	.153	9	4	.89	39	.18	6	1.49	.07	.17	1	31
B 91824	1	398	2	28	.3	10	6	306	4.63	6	5	ND	1	104	.3	2	2	125	2.15	.155	9	8	.94	37	.18	6	1.58	.06	.17	1	32
B 91825	22	606	10	31	.6	8	12	399	5.95	63	5	ND	1	137	.3	2	3	138	2.83	.156	9	5	1.30	60	.14	7	1.52	.04	.32	1	52
B 91826	6	88	3	29	.2	9	7	387	5.37	8	5	ND	1	117	.2	2	2	133	2.36	.162	9	9	1.18	76	.18	9	1.48	.06	.33	1	14
B 91827	2	267	2	27	.4	7	6	338	6.76	8	5	ND	2	60	.2	2	2	158	1.70	.167	9	5	.94	22	.17	9	1.35	.07	.18	1	34
B 91828	2	56	2	30	.2	11	9	367	6.25	4	5	ND	1	70	.2	2	2	166	1.77	.155	9	12	1.04	44	.18	9	1.43	.07	.21	1	7
B 91829	1	123	4	28	.4	6	9	346	4.53	11	5	ND	1	75	.2	2	2	135	2.12	.165	9	6	.96	42	.18	5	1.59	.08	.22	1	22
B 91830	1	670	2	32	.8	10	12	295	4.92	6	5	ND	1	74	.2	2	2	129	1.87	.152	8	8	.92	52	.19	5	1.43	.07	.23	1	128
B 91831	1	336	2	26	.4	7	10	276	4.64	14	5	ND	1	73	.2	2	2	119	1.94	.154	8	5	.91	47	.18	4	1.45	.05	.19	1	31
B [illegible]2	2	401	3	17	.4	10	11	254	4.71	43	5	ND	1	84	.2	2	2	112	1.81	.166	9	8	.75	38	.16	4	1.23	.04	.13	1	22
B 91833	1	316	3	19	.3	6	8	263	4.79	35	5	ND	1	58	.2	2	2	121	1.78	.153	8	5	.92	44	.17	5	1.41	.05	.15	1	5
B 91834	1	290	2	19	.3	9	8	289	4.57	11	5	ND	1	71	.2	2	2	125	1.60	.160	9	7	1.10	56	.18	9	1.52	.05	.16	1	27
B 91835	1	144	2	23	.2	6	5	313	4.97	2	5	ND	1	71	.2	2	2	150	2.03	.155	9	6	1.16	72	.20	5	1.62	.07	.22	1	18
RE B 91831	1	350	3	27	.5	7	12	283	4.76	13	5	ND	1	77	.2	2	2	122	1.99	.160	9	5	.94	48	.18	5	1.51	.06	.19	1	39
B 91836	1	312	4	24	.4	8	6	353	5.20	17	5	ND	1	175	.2	2	10	160	3.36	.160	10	8	1.23	116	.16	3	1.59	.06	.23	1	680
B 91837	1	295	3	26	.3	7	7	375	5.62	26	5	ND	2	121	.2	2	2	167	2.40	.160	9	7	1.49	94	.18	3	1.71	.05	.35	1	55
B 91838	5	236	2	22	.3	10	9	293	4.95	13	6	ND	2	84	.2	2	2	144	2.19	.162	9	8	1.06	74	.18	7	1.59	.06	.23	1	26
STANDARD C/AU-R	20	60	39	138	7.3	75	33	1118	4.12	39	22	8	39	53	18.9	16	23	62	.52	.094	40	61	.93	188	.09	33	2.03	.06	.13	12	490
STANDARD C	18	61	40	133	7.0	72	31	1046	3.93	40	21	7	39	52	18.6	15	21	58	.51	.095	40	60	.89	183	.09	36	1.89	.06	.14	11	-

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-3725

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
113054	1	221	2	35	.5	5	22	1204	3.75	5	5	ND	1	151	.2	2	2	48	4.44	.126	7	2	1.57	295	.01	2	.48	.02	.27	1	10
113055	1	130	7	115	.5	11	14	729	4.74	8	5	ND	1	52	.3	2	2	151	1.38	.145	8	11	1.37	62	.28	6	1.95	.05	.08	1	7

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Received Sep. 10/90

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700 - 890 W. Pender St., Vancouver BC V6B 4W3

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91839	1	738	5	24	.5	8	12	268	3.71	2	5	ND	1	132	.2	2	2	111	1.33	.087	4	6	.77	92	.13	2	1.29	.06	.21	1	35
B 91840	1	986	2	24	.8	8	14	236	4.01	5	5	ND	1	131	.4	5	3	118	1.07	.084	4	6	.85	72	.12	8	1.20	.04	.13	1	65
B 91841	1	592	6	29	.8	7	13	282	4.29	2	7	ND	1	105	.5	3	2	150	1.07	.079	3	6	1.04	95	.14	5	1.27	.04	.21	1	54
B 91842	1	401	2	25	.4	6	10	272	3.87	3	5	ND	1	134	.4	2	2	127	1.16	.064	3	6	.94	72	.14	2	1.29	.04	.15	1	82
B 91843	2	91	3	20	.3	7	12	257	4.30	2	5	ND	1	126	.4	2	2	168	1.33	.097	4	6	1.01	83	.16	2	1.36	.04	.21	1	10
RE B 91848	1	65	3	17	.2	6	13	245	3.84	2	5	ND	1	117	.3	2	6	141	1.33	.100	4	6	.84	74	.14	2	1.18	.03	.14	1	3
B 91844	5	496	2	22	.3	4	16	266	4.60	6	5	ND	1	112	.8	2	2	160	1.44	.169	6	5	1.05	106	.16	2	1.29	.04	.29	1	62
B 91845	1	99	2	15	.3	6	10	231	3.21	2	5	ND	1	166	.3	2	2	102	1.40	.051	3	6	.81	68	.12	2	1.21	.04	.13	1	11
B 91846	1	108	3	15	.4	7	12	205	3.41	3	5	ND	1	126	.4	2	2	120	1.28	.059	3	7	.75	66	.12	3	1.12	.03	.13	1	5
P 947	1	128	2	14	.1	6	11	230	3.61	2	5	ND	1	123	.4	2	4	122	1.29	.060	3	5	.74	66	.13	2	1.17	.04	.13	1	7
B 91848	1	67	3	17	.1	7	11	241	3.74	2	5	ND	1	116	.4	2	2	139	1.30	.093	4	6	.81	70	.14	2	1.16	.03	.14	1	5
B 91849	1	63	2	16	.1	10	12	223	4.38	2	5	ND	1	116	.3	2	2	169	1.22	.049	2	9	.71	75	.13	5	1.17	.04	.13	1	2
B 91850	2	249	2	19	.4	9	16	237	4.53	2	5	ND	1	93	.2	2	2	160	1.19	.034	2	7	.75	71	.12	2	1.01	.04	.11	1	28
B 91851	1	75	2	22	.4	7	16	313	4.64	4	5	ND	1	85	.6	5	2	167	1.81	.042	3	6	.99	47	.13	6	1.17	.03	.09	1	11
B 91852	1	86	2	18	.2	11	14	240	5.79	2	5	ND	1	63	.2	2	3	230	1.20	.050	3	8	.70	58	.14	2	.90	.03	.12	1	2
B 91853	1	108	6	20	.2	10	16	313	7.18	4	5	ND	1	68	.5	3	2	289	1.75	.066	3	4	.83	41	.12	4	.78	.03	.07	1	3
B 91854	19	802	2	21	.7	15	48	406	7.70	22	5	ND	1	104	.5	2	2	205	1.99	.044	4	4	.93	56	.11	2	.95	.04	.14	1	66
B 91855	2	1215	21	28	.8	22	56	420	7.54	25	5	ND	1	88	.3	2	2	177	2.52	.049	2	29	1.22	75	.12	4	1.26	.03	.13	1	66
B 91856	1	413	2	38	.1	18	35	475	15.37	8	5	ND	1	48	1.1	2	2	599	1.52	.036	2	31	1.51	38	.23	2	1.58	.06	.19	1	34
B 91857	4	890	2	32	.4	19	45	444	13.34	12	5	ND	2	60	1.2	2	2	526	1.23	.036	2	19	1.18	89	.25	2	1.20	.04	.40	1	125
B 91858	1	145	2	28	.2	18	24	425	11.45	5	5	ND	1	63	1.1	2	2	438	1.14	.024	2	17	1.31	70	.28	2	1.41	.04	.24	1	11
B 91859	1	376	2	27	.4	9	19	350	4.83	2	5	ND	1	125	.6	2	2	155	1.13	.023	2	9	1.64	52	.16	2	1.69	.05	.20	1	19
B 91860	1	188	2	23	.3	11	15	285	5.48	2	6	ND	1	81	.7	2	2	187	1.12	.028	2	86	1.27	66	.16	2	1.42	.04	.27	1	16
B 91861	1	289	2	22	.3	8	11	291	4.15	3	5	ND	1	84	.2	2	2	164	1.70	.027	2	8	.93	70	.11	2	1.09	.04	.14	1	59
B 91862	1	485	9	24	.9	6	12	314	3.53	2	5	ND	1	84	.2	2	3	117	2.32	.021	2	7	1.01	74	.10	2	1.05	.04	.15	1	74
B 91863	1	454	5	18	.7	3	10	252	2.78	4	5	ND	1	95	.3	2	2	91	2.79	.029	2	4	.72	60	.07	2	.84	.03	.11	1	53
B 91864	4	615	2	20	.5	7	10	189	2.81	2	5	ND	1	85	.2	2	2	108	1.11	.019	2	8	.78	77	.08	4	1.01	.04	.13	1	41
865	1	242	3	21	.1	5	9	224	3.48	2	5	ND	1	81	.2	2	2	110	.95	.008	2	4	.92	77	.10	2	1.15	.04	.12	1	36
L .866	1	148	2	19	.2	7	11	214	4.36	2	5	ND	1	77	.5	2	5	163	.98	.017	2	5	.82	77	.13	2	1.05	.05	.15	2	19
B 91867	2	159	4	11	.2	8	9	161	2.31	2	5	ND	1	84	.3	2	2	89	1.32	.012	2	7	.39	78	.07	5	.82	.04	.12	1	14
B 91868	1	85	2	14	.1	4	8	183	2.77	2	5	ND	1	96	.2	2	2	91	1.20	.010	2	6	.64	70	.09	3	1.09	.04	.10	1	2
B 91869	1	285	2	16	.2	2	9	176	3.45	2	5	ND	1	100	.2	2	3	140	1.13	.016	2	7	.60	78	.11	4	.90	.04	.11	1	39
B 91870	2	277	2	16	.2	8	9	172	2.72	5	5	ND	1	94	.2	2	2	99	1.53	.043	3	7	.65	70	.10	5	.95	.04	.10	1	61
B 91871	1	617	2	13	.3	7	28	161	3.21	2	5	ND	1	87	.2	2	2	60	1.70	.028	2	4	.54	83	.06	5	.75	.04	.11	2	53
B 91872	1	552	2	17	.6	6	10	215	3.21	4	5	ND	1	132	.2	2	2	112	1.96	.016	2	5	.66	70	.10	5	1.08	.04	.09	1	102
B 91873	2	6137	2	28	5.4	7	12	147	3.76	4	5	6	1	88	.6	2	2	98	1.01	.012	2	7	.64	52	.10	3	.80	.04	.09	1	3140
B 91874	1	964	2	20	.8	6	14	168	3.53	2	5	ND	1	90	.2	2	2	104	1.13	.013	2	4	.78	62	.11	2	1.03	.04	.10	1	240
STANDARD C/AU-R	20	58	37	134	7.5	73	32	1065	4.01	43	22	7	40	55	19.5	17	20	58	.52	.096	40	59	.92	185	.08	34	1.94	.06	.14	11	540
STANDARD C	20	61	41	134	7.4	73	32	1055	3.98	41	20	7	40	52	18.9	15	23	58	.52	.097	40	59	.90	187	.08	34	1.89	.06	.14	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 4 1990 DATE REPORT MAILED: Sept 7/90 SIGNED BY. ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-4094 Page 2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91875	1	417	4	16	.2	7	13	166	3.73	6	5	ND	1	84	.2	2	5	123	1.05	.030	3	9	.60	68	.11	5	.99	.04	.11	1	51
B 91876	14	302	4	15	.2	9	10	166	3.98	5	5	ND	1	91	.5	2	3	159	1.36	.055	4	11	.62	62	.12	4	1.05	.04	.12	1	37
B 91877	5	468	4	14	.1	6	15	141	3.42	7	5	ND	1	118	.2	2	4	96	.88	.063	3	8	.48	73	.08	5	.75	.04	.11	1	24
B 91878	3	462	5	17	.1	6	13	150	3.67	4	5	ND	1	224	.2	2	4	128	1.11	.061	3	8	.62	91	.11	3	.98	.04	.13	1	35
B 91879	1	408	5	18	.1	8	7	196	3.20	6	5	ND	1	139	.3	2	2	116	2.12	.075	4	10	.59	75	.11	3	.83	.04	.09	1	17
B 91880	1	541	3	18	.2	7	12	197	4.26	3	5	ND	1	104	.3	2	2	181	1.21	.011	2	10	.64	86	.12	3	.96	.04	.11	1	78
B 91881	1	244	2	14	.1	5	12	168	3.67	2	5	ND	1	78	.3	2	2	130	1.08	.032	2	10	.61	63	.12	6	.97	.04	.10	1	19
B 91882	1	369	2	20	.2	7	8	172	4.13	2	5	ND	1	75	.3	2	4	165	.99	.043	3	10	.53	61	.12	3	.87	.03	.10	1	32
B 91883	1	392	2	30	.3	15	15	741	5.77	8	5	ND	1	102	.2	2	2	184	4.10	.041	4	44	1.98	44	.14	2	1.73	.03	.09	1	88
B 91884	8	559	4	26	.4	7	17	575	5.37	23	5	ND	1	100	.2	3	4	157	3.36	.038	3	14	1.61	54	.11	3	1.47	.03	.09	1	108
B 91885	1	576	2	28	.3	7	14	606	5.49	11	5	ND	1	129	.2	3	3	144	2.14	.044	3	13	2.01	70	.10	2	2.02	.03	.08	1	120
P 186	1	1066	2	25	.5	6	13	608	5.42	18	5	ND	1	242	.2	3	3	130	2.51	.039	3	12	1.95	104	.12	3	1.71	.03	.09	1	88
B .387	12	310	2	21	.2	6	14	394	5.43	6	5	ND	1	74	.3	2	3	199	1.56	.045	3	9	1.28	62	.14	3	1.15	.04	.12	1	35
B 91888	2	378	4	18	.2	8	16	318	4.85	11	5	ND	1	60	.3	2	5	188	1.85	.145	6	12	1.12	54	.12	2	.92	.03	.11	1	45
RE B 91885	1	584	5	22	.3	7	15	603	5.51	16	5	ND	1	124	.2	4	2	142	2.14	.044	3	15	2.00	69	.10	4	2.01	.03	.08	1	128
B 91889	2	326	4	31	.3	6	20	630	6.21	19	5	ND	1	135	.2	3	2	188	2.91	.088	4	13	2.02	80	.11	2	1.60	.03	.07	1	52
B 91890	1	344	4	27	.2	4	10	552	5.03	10	5	ND	1	169	.2	4	3	191	3.17	.184	8	11	1.46	140	.11	5	1.28	.04	.09	1	40
B 91891	2	332	5	31	.4	7	15	633	5.58	7	5	ND	1	143	.2	3	3	178	3.20	.084	5	13	1.68	88	.12	3	1.45	.03	.11	1	21
B 91892	1	439	7	32	.5	7	13	551	5.97	11	5	ND	1	148	.2	4	3	178	2.78	.103	5	13	1.43	96	.12	4	1.34	.03	.09	1	33
B 91893	1	114	3	26	.1	6	10	421	4.27	8	5	ND	1	169	.2	4	2	140	3.21	.111	5	10	1.03	115	.11	7	1.22	.04	.11	1	8
B 91894	2	245	4	31	.1	9	11	308	4.82	5	5	ND	1	186	.3	2	6	203	1.66	.086	4	10	.84	73	.14	8	1.18	.03	.09	1	12
B 91895	6	576	2	27	.3	7	14	278	3.73	5	5	ND	1	125	.2	2	5	125	2.19	.130	5	8	.64	86	.10	4	1.11	.03	.12	1	54
B 91896	1	411	2	24	.2	9	11	263	5.08	12	5	ND	1	103	.2	3	4	144	1.49	.157	6	11	.78	82	.11	5	1.21	.04	.12	1	48
B 91897	1	77	2	20	.1	8	9	241	3.81	5	5	ND	1	107	.2	3	4	137	1.38	.124	5	11	.80	84	.12	8	1.24	.04	.10	1	8
B 91898	1	75	2	19	.1	5	7	261	2.75	5	5	ND	1	106	.2	3	2	85	1.30	.089	4	10	.89	61	.10	4	1.19	.04	.08	1	20
B 91899	1	112	3	25	.1	4	9	320	3.91	6	5	ND	1	130	.3	2	2	131	1.68	.104	4	11	.93	79	.13	8	1.37	.05	.11	1	16
STANDARD C/AU-R	20	66	37	132	7.0	72	33	1085	4.19	42	9	7	42	57	19.6	17	25	60	.55	.093	39	65	.89	188	.07	30	1.95	.06	.13	10	520
STANDARD C	19	58	39	131	6.7	69	32	1050	3.95	40	17	7	39	52	18.4	15	19	55	.50	.093	39	59	.87	182	.07	33	1.87	.06	.14	13	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

BP Resources Canada Ltd. PROJECT 10144 File # 90-4701 Page 1
700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77001	1	4511	6	51	1.0	13	24	333	4.40	9	5	ND	3	90	1.1	3	2	123	1.99	.257	11	11	1.60	96	.17	2	1.52	.05	.69	1	470
RE C 77005	1	940	2	27	.3	11	17	362	4.73	3	5	ND	1	94	1.3	2	2	140	2.72	.138	6	9	1.53	177	.20	4	1.85	.06	.64	1	91
C 77002	1	2022	2	41	.2	15	21	335	4.89	7	5	ND	1	58	1.4	2	2	169	1.70	.167	6	11	1.71	134	.21	2	1.71	.06	.91	1	83
C 77003	1	1325	8	32	.5	15	19	463	6.61	7	5	ND	2	68	1.8	2	2	237	2.62	.163	8	12	1.80	176	.22	2	1.89	.06	1.04	1	64
C 77004	1	625	2	29	.2	12	17	377	5.38	5	5	ND	2	70	1.5	2	2	164	2.79	.163	7	11	1.64	184	.20	4	1.86	.06	.76	1	24
C 77005	1	978	7	26	.3	10	17	376	4.89	5	5	ND	1	95	1.3	2	2	141	2.70	.141	6	11	1.53	176	.20	3	1.85	.06	.63	1	88
C 77006	1	1009	2	37	.4	14	15	393	4.79	5	5	ND	1	66	1.5	2	2	141	2.02	.142	7	11	2.00	187	.21	2	1.97	.05	.99	1	38
C 77007	1	1343	2	35	.5	12	17	379	5.88	8	5	ND	1	76	.6	2	2	167	1.28	.154	7	13	1.98	252	.22	2	1.83	.05	1.09	1	55
C 77008	1	1688	2	34	.3	12	15	337	4.57	3	5	ND	1	110	.5	2	2	123	1.85	.143	6	9	1.73	196	.21	3	1.77	.05	.72	1	97
C 77009	1	2430	2	36	.6	12	23	386	6.08	4	5	ND	2	107	1.7	2	2	168	1.78	.158	7	12	1.77	226	.22	2	1.70	.05	.82	1	143
C 77010	1	2028	2	30	.1	12	23	352	5.72	3	5	ND	1	98	1.0	2	2	132	1.25	.152	6	12	1.69	259	.22	2	1.58	.04	.81	1	74
C 77011	1	976	8	31	.4	14	20	403	5.58	4	5	ND	2	128	1.2	2	2	136	1.37	.171	8	10	1.69	236	.21	5	1.64	.05	.84	1	33
C 77012	1	1817	2	29	.7	14	22	397	5.43	9	5	ND	3	144	1.5	4	2	132	2.15	.197	8	11	1.70	182	.20	3	1.69	.05	.52	1	95
C 77013	2	1530	2	33	.3	14	24	461	5.62	7	5	ND	1	108	.6	2	2	131	1.84	.152	6	16	1.99	190	.23	3	1.89	.06	.81	1	95
C 77014	1	1236	4	32	.6	14	23	397	5.32	7	5	ND	2	97	1.1	5	2	148	1.65	.147	6	10	1.97	186	.24	3	1.91	.05	.81	1	78
C 77015	1	921	6	31	.4	10	17	396	5.48	7	5	ND	1	102	1.0	3	2	147	1.80	.139	6	11	1.76	187	.22	2	1.85	.05	.55	1	39
C 77016	2	989	2	34	.4	12	16	361	4.81	5	5	ND	1	127	1.1	3	2	131	1.72	.129	5	14	1.61	155	.21	6	1.83	.06	.39	1	43
C 77017	3	1834	2	39	.4	13	21	362	4.20	5	5	ND	1	107	.9	2	2	110	1.50	.124	5	10	1.87	162	.23	2	1.76	.05	.99	1	109
C 77018	2	451	2	31	.3	14	14	366	4.47	6	5	ND	1	84	.8	2	2	120	1.71	.127	5	14	1.67	163	.22	2	1.78	.07	.73	1	28
C 77019	1	846	9	38	.7	13	21	384	4.95	6	5	ND	1	89	.7	3	2	118	1.72	.147	6	11	1.73	143	.22	3	1.85	.06	.61	1	68
C 77020	1	1628	2	36	.6	12	20	381	4.75	3	5	ND	1	87	.8	2	2	130	2.09	.149	6	15	1.67	159	.21	2	1.86	.06	.77	1	98
C 77021	1	686	2	35	.5	12	18	456	4.85	7	5	ND	2	111	.7	6	2	154	2.19	.136	6	13	2.04	209	.23	2	2.07	.06	1.08	1	35
C 77022	1	1431	3	34	.5	15	20	393	4.12	7	5	ND	2	120	.6	3	2	108	2.03	.186	7	20	1.97	167	.22	4	1.91	.06	.90	1	70
C 77023	1	1129	2	29	.6	13	16	351	5.08	7	5	ND	2	105	.8	5	2	128	1.98	.145	6	10	1.51	163	.20	4	1.72	.05	.64	1	70
C 77024	1	723	5	29	.6	14	16	388	4.76	9	5	ND	1	103	.6	5	2	120	2.30	.150	7	14	1.82	177	.21	5	1.92	.06	.92	2	40
C 77025	1	589	3	33	.3	14	15	378	4.37	6	5	ND	1	79	1.5	2	2	115	1.59	.143	6	9	1.86	179	.21	2	1.92	.06	.93	1	38
C 77026	1	1221	2	35	.5	13	18	380	4.49	7	5	ND	1	77	1.2	4	2	129	1.96	.143	6	15	1.84	166	.21	3	2.02	.07	.85	1	85
C 77027	1	1063	10	36	.2	10	13	367	4.05	5	5	ND	1	73	.4	2	2	107	2.21	.119	5	9	1.54	130	.18	4	1.85	.05	.38	1	49
028	1	692	2	29	.5	12	18	379	4.54	9	5	ND	2	95	1.3	6	2	133	2.24	.132	6	15	1.55	178	.20	3	1.84	.05	.44	1	31
C 77029	1	1726	2	29	.4	10	18	334	3.92	3	5	ND	1	124	.5	3	2	103	2.13	.132	6	8	1.39	150	.18	2	1.76	.05	.37	1	63
C 77030	1	715	4	30	.2	14	14	355	4.00	7	5	ND	1	113	.8	3	2	108	1.64	.137	6	15	1.57	157	.21	2	1.76	.06	.66	1	31
C 77031	1	1572	2	35	.4	12	19	371	3.92	4	5	ND	1	82	.4	2	2	107	1.35	.138	6	9	1.74	128	.19	3	1.68	.05	.83	1	147
STANDARD C/AU-R	20	64	43	136	7.5	75	32	1174	3.98	42	20	8	41	52	21.2	16	21	60	.50	.094	40	62	.93	183	.07	34	2.05	.06	.14	12	520
STANDARD C	17	58	37	131	6.7	68	32	1054	3.98	39	19	7	37	51	18.6	16	19	52	.52	.093	37	55	.90	183	.08	34	1.89	.06	.14	13	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 20 1990 DATE REPORT MAILED: Sept 26/90 SIGNED BY .... .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91900	1	792	4	19	.1	6	8	262	2.36	2	5	ND	2	72	.2	2	2	67	.57	.069	5	11	1.14	91	.13	2	1.08	.04	.51	1	34
B 91901	1	833	2	19	.1	7	8	235	1.86	2	5	ND	2	52	.5	2	2	59	.63	.086	5	8	1.21	63	.12	4	1.04	.04	.49	1	33
B 91902	1	476	2	17	.1	7	6	260	1.85	2	5	ND	2	46	.3	2	2	61	.62	.073	4	10	1.24	72	.14	2	1.02	.04	.56	1	25
B 91903	2	554	4	19	.1	10	9	270	2.05	2	5	ND	2	39	.3	2	2	85	.46	.081	4	24	1.35	80	.14	2	1.05	.04	.63	1	24
B 91904	2	601	3	17	.1	7	9	290	2.51	2	5	ND	2	67	.2	2	2	75	.56	.113	6	11	1.15	80	.11	4	1.00	.04	.47	1	48
B 91905	2	610	2	25	.1	8	9	357	2.29	2	5	ND	2	57	.7	2	2	69	1.23	.116	7	8	1.49	101	.12	5	1.23	.04	.67	1	26
B 91906	1	934	2	25	.1	8	9	344	2.64	2	5	ND	3	69	.3	2	2	65	.77	.151	7	7	1.23	73	.10	2	1.06	.04	.50	1	103
B 91907	2	1673	2	21	.3	10	10	261	2.51	5	5	ND	2	73	.8	2	2	75	.63	.130	7	7	1.03	108	.10	2	.98	.04	.38	1	103
B 91908	1	761	2	18	.1	8	7	307	2.03	3	5	ND	2	103	.2	2	2	51	.52	.092	6	6	.93	183	.09	3	.88	.04	.31	1	149
B 91909	1	1033	3	31	.1	10	8	384	2.22	3	5	ND	2	51	.4	2	2	50	1.08	.114	9	8	1.39	67	.11	2	1.10	.04	.56	1	79
B 91910	1	1232	2	36	.2	12	10	559	2.98	3	5	ND	3	88	.8	2	2	66	.72	.128	10	9	1.86	146	.13	2	1.45	.04	.59	1	100
P 91911	1	1756	2	37	.2	10	10	462	2.91	4	5	ND	3	33	.3	2	2	72	.64	.144	14	7	1.88	69	.11	2	1.43	.03	.55	1	141
1912	1	4097	5	54	.4	9	18	434	3.76	8	5	ND	2	45	.5	2	2	95	1.35	.131	13	6	1.49	67	.10	3	1.22	.04	.42	1	450
B 91913	2	1452	3	33	.1	8	14	388	2.83	4	5	ND	2	68	.2	2	2	84	1.86	.132	9	6	1.26	79	.10	2	1.01	.04	.43	1	138
B 91914	1	2569	2	32	.4	9	25	393	3.88	9	5	ND	3	89	.2	2	2	94	1.24	.150	11	5	1.10	78	.09	2	1.00	.05	.23	1	440
B 91915	3	3268	9	53	.5	10	20	447	3.69	57	5	ND	1	101	.5	6	2	69	2.98	.145	8	6	1.16	39	.06	2	.99	.04	.24	1	380
B 91916	1	1061	2	35	.1	9	15	549	4.51	2	5	ND	3	84	.8	2	2	125	2.79	.155	13	7	1.55	61	.08	2	1.33	.04	.41	1	72
B 91917	1	2580	2	44	.5	10	18	549	5.74	8	5	ND	2	93	1.3	2	2	168	2.54	.196	12	6	1.63	50	.10	2	1.41	.05	.35	1	117
B 91918	23	3432	2	53	.4	13	27	427	5.17	11	5	ND	1	171	.5	2	2	180	2.35	.127	6	18	1.71	68	.14	2	1.58	.04	.64	1	240
B 91919	3	705	3	25	.1	11	16	392	4.70	5	5	ND	1	116	1.0	2	2	142	2.37	.159	8	17	1.40	208	.17	2	1.56	.05	.62	1	36
RE B 91916	1	1053	2	35	.1	10	15	556	4.57	2	5	ND	2	84	.7	2	2	126	2.83	.156	13	8	1.58	59	.08	2	1.35	.04	.39	1	65
B 91920	7	2889	2	47	.4	8	18	391	4.27	5	5	ND	3	103	1.1	2	2	147	2.39	.161	8	10	1.40	148	.15	3	1.39	.04	.54	1	107
B 91921	4	1921	2	36	.3	11	23	361	6.31	6	5	ND	1	77	1.0	2	2	340	1.47	.178	7	19	1.46	105	.17	2	1.36	.04	.70	2	82
B 91922	1	2766	2	45	.4	12	21	409	5.79	4	5	ND	1	74	.4	2	2	233	1.45	.174	7	10	1.72	116	.17	3	1.53	.04	.67	1	114
B 91923	2	5743	2	76	.5	16	17	458	4.88	2	5	ND	1	77	1.2	2	2	250	1.63	.191	8	17	2.06	145	.20	2	1.79	.03	1.15	1	380
B 91924	1	4060	3	58	.5	13	19	500	4.31	4	5	ND	2	94	1.4	2	2	158	3.22	.184	11	7	1.87	161	.18	2	1.67	.03	.82	1	210
B 91925	2	4073	2	65	.6	11	23	382	4.52	7	5	ND	1	99	.9	2	2	140	2.22	.148	5	15	1.77	88	.15	2	1.65	.04	.50	1	147
B 91926	2	1532	2	32	.1	9	16	373	4.64	4	5	ND	1	77	.7	2	2	165	2.08	.168	7	7	1.33	152	.16	3	1.42	.04	.45	1	76
B 91927	2	4494	6	60	.9	13	20	387	4.29	6	5	ND	1	80	1.0	3	2	145	1.26	.150	6	17	1.80	117	.19	2	1.66	.04	.66	1	220
B 91928	2	4612	2	72	.8	11	17	372	4.08	4	5	ND	1	42	1.7	2	2	159	.82	.134	5	12	2.12	126	.21	4	1.76	.03	.94	1	119
1929	7	6006	2	80	1.3	14	21	396	4.22	5	5	ND	1	92	1.4	4	2	167	1.87	.153	7	14	1.84	112	.18	2	1.55	.03	.56	1	230
B 91930	1	5659	2	87	1.0	12	19	428	3.74	4	5	ND	11	90	1.7	2	2	122	2.78	.162	10	17	1.97	96	.16	5	1.53	.04	.62	1	350
B 91931	2	7560	2	66	1.2	13	18	342	3.74	2	5	ND	1	76	1.5	2	2	132	1.55	.162	6	15	1.50	97	.16	2	1.26	.05	.58	1	310
B 91932	1	5611	2	56	.7	13	19	384	4.31	2	5	ND	1	268	.8	2	2	174	2.02	.158	6	9	1.53	162	.18	2	1.55	.04	.72	1	420
B 91933	1	7488	4	54	.9	14	21	381	4.41	2	5	ND	1	114	1.7	2	2	175	2.49	.173	7	15	1.55	121	.17	3	1.45	.05	.69	1	480
B 91934	7	3898	5	51	.4	16	26	481	4.93	4	5	ND	4	74	1.0	2	2	155	2.26	.416	16	11	2.27	141	.19	2	2.03	.04	1.10	1	240
B 91935	12	2085	2	40	.1	11	18	421	4.46	3	5	ND	1	55	1.3	2	2	149	1.42	.166	6	8	1.93	185	.20	6	1.90	.04	.86	1	113
STANDARD C/AU-R	21	62	37	136	7.3	73	32	1088	3.90	42	18	8	39	56	21.4	16	22	59	.48	.095	39	63	.92	190	.07	34	2.07	.06	.14	12	530
STANDARD C	18	60	37	131	6.6	68	31	1053	3.98	38	20	7	36	52	19.3	15	16	53	.52	.093	37	56	.90	179	.08	32	1.89	.06	.14	13	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91936	1	2855	4	42	.4	14	26	407	4.44	6	5	ND	1	67	1.6	2	2	151	1.09	.141	6	7	1.84	141	.20	3	1.83	.05	.88	1	290
B 91937	2	1354	2	32	.3	10	15	300	2.82	2	5	ND	1	62	.5	2	2	103	1.01	.115	6	8	1.53	124	.16	3	1.41	.04	.56	1	50
B 91938	1	7091	7	95	1.6	16	25	321	4.30	7	5	ND	1	42	1.7	2	2	125	.79	.147	6	7	1.67	117	.14	5	1.60	.05	.35	1	350
B 91939	1	3149	6	52	.7	10	13	262	2.82	3	5	ND	1	43	.9	2	2	106	1.09	.165	7	11	1.39	118	.15	2	1.38	.05	.44	1	86
B 91940	2	3049	5	34	.7	10	13	329	3.26	7	5	ND	2	61	.6	2	6	103	1.73	.167	6	8	1.40	109	.16	5	1.52	.04	.48	1	131
B 91941	1	3633	5	49	.9	14	23	350	3.71	6	5	ND	1	67	1.5	2	6	119	1.05	.134	5	10	1.70	138	.20	4	1.73	.05	.82	1	142
B 91942	2	5768	2	76	1.1	15	16	368	4.33	6	5	ND	1	69	1.0	2	3	113	1.42	.151	5	7	1.52	125	.18	3	1.63	.05	.68	1	350
B 91943	1	8665	8	92	1.6	18	24	452	5.21	13	5	ND	2	81	.9	3	7	148	2.48	.359	12	8	1.89	169	.18	2	1.92	.05	.89	1	400
B 91944	3	2707	5	55	.7	12	15	408	4.34	2	5	ND	1	66	1.1	2	2	136	1.57	.137	6	10	2.17	125	.19	3	2.12	.05	.57	1	108
B 91945	1	3074	2	51	.8	16	22	439	5.44	4	5	ND	1	47	1.0	2	2	168	1.45	.143	6	18	2.04	153	.23	2	2.10	.05	1.14	1	155
B 91946	1	2419	5	41	.5	16	25	466	4.50	7	5	ND	1	69	.9	3	2	135	1.18	.155	7	11	2.16	160	.21	2	2.09	.05	1.19	1	135
B 91947	2	1566	2	42	.4	14	18	581	4.60	10	5	ND	1	59	1.5	2	3	130	1.80	.154	7	14	2.34	131	.22	4	2.41	.05	1.26	1	107
91948	4	2115	6	40	.5	15	17	521	4.49	7	5	ND	1	66	1.2	2	2	125	1.85	.152	6	12	2.24	151	.21	5	2.28	.05	1.02	1	111
91949	1	2185	8	39	.5	16	27	537	5.62	3	5	ND	1	76	1.5	2	2	149	2.34	.164	7	19	2.33	128	.20	2	2.24	.05	1.08	1	121
B 91950	50	2326	3	36	.4	13	17	593	5.04	14	5	ND	2	134	.6	9	2	87	3.64	.178	10	6	1.27	39	.01	8	1.75	.02	.23	1	49
B 91951	2	2638	2	48	.7	14	25	469	4.61	13	5	ND	1	105	1.3	3	2	117	2.04	.215	14	11	2.32	169	.18	5	2.16	.03	1.10	1	131
B 91952	1	4322	2	58	.7	17	20	484	4.96	12	5	ND	2	85	.9	2	2	134	1.81	.227	17	9	2.34	168	.18	4	2.25	.04	1.05	1	310
B 91953	1	3476	2	50	.8	13	19	463	5.72	7	5	ND	3	76	1.2	2	6	160	1.63	.180	8	16	1.92	154	.19	3	1.94	.05	.81	2	210
B 91954	1	5583	2	63	1.2	14	35	433	6.02	6	5	ND	2	73	1.3	3	2	190	1.51	.183	9	8	1.71	100	.16	4	1.72	.04	.77	1	420
B 91955	1	3010	2	49	1.0	17	20	467	6.47	9	5	ND	3	61	1.5	4	3	201	1.23	.192	8	16	2.08	159	.19	4	2.07	.05	1.16	1	153
B 91956	34	1208	6	38	.7	11	17	450	4.29	6	5	ND	6	58	1.2	3	2	166	1.40	.278	10	10	2.31	168	.21	2	2.04	.04	1.17	1	50
B 91957	2	1397	7	44	.3	16	16	520	5.54	4	5	ND	1	57	1.5	2	2	168	1.22	.147	6	18	2.36	211	.22	3	2.37	.05	1.03	1	73
B 91958	42	2183	2	41	.6	13	25	435	4.98	11	5	ND	1	80	1.3	2	2	141	1.19	.142	7	10	2.29	96	.17	2	2.10	.04	.64	1	118
B 91959	8	822	2	36	.2	15	15	522	4.66	5	5	ND	1	60	1.2	2	2	160	.97	.135	5	16	2.31	169	.21	2	2.14	.04	.48	1	51
B 91960	2	381	6	33	.1	12	14	469	4.75	4	5	ND	1	60	1.9	2	2	147	1.06	.112	4	9	2.10	179	.22	2	1.95	.04	.70	1	28
B 91961	36	864	5	31	.3	13	16	406	3.61	3	5	ND	1	53	.7	3	2	158	1.27	.111	5	17	1.98	171	.23	4	2.05	.04	.89	1	65
RE B 91957	2	1362	7	43	.7	14	17	510	5.46	11	5	ND	2	57	1.7	5	2	165	1.22	.148	7	19	2.32	202	.22	5	2.36	.05	1.04	2	77
B 91962	13	1074	3	24	.3	9	13	361	2.88	5	5	ND	1	56	.9	2	2	115	.97	.099	5	11	1.77	105	.19	2	1.46	.04	.74	1	76
B 91963	10	726	2	25	.1	8	8	391	2.45	2	5	ND	1	83	.5	2	2	85	1.23	.087	4	19	1.84	131	.19	2	1.57	.04	.74	1	53
B 91964	3	665	7	36	.1	9	15	558	4.29	3	5	ND	1	67	.6	2	2	121	1.35	.151	6	10	2.38	194	.21	2	2.08	.05	.87	1	39
91965	1	676	2	32	.1	13	17	504	4.94	2	5	ND	1	72	.5	2	2	131	1.63	.152	6	16	2.14	177	.21	2	2.16	.06	.82	1	31
B 91966	1	2476	5	35	.6	15	33	401	4.04	8	5	ND	1	70	1.2	3	2	104	1.30	.145	7	10	1.81	98	.17	2	1.66	.05	.69	1	230
B 91967	2	272	3	28	.3	13	13	419	3.80	7	5	ND	1	81	.5	5	2	100	1.64	.125	5	19	1.93	140	.20	6	1.92	.05	.70	1	14
B 91968	12	826	2	33	.1	11	18	383	3.80	3	5	ND	1	62	.8	3	2	102	1.35	.133	6	9	1.85	105	.18	3	1.86	.05	.76	1	45
B 91969	2	572	3	29	.3	11	15	427	4.10	8	5	ND	1	70	1.2	5	2	111	1.91	.133	7	17	1.97	148	.19	2	2.05	.05	.92	1	33
B 91970	1	311	2	33	.3	12	18	494	4.66	7	5	ND	1	54	.3	4	6	128	1.06	.139	6	16	2.47	178	.20	2	2.22	.05	1.38	1	23
B 91971	1	448	7	29	.1	9	15	481	4.17	5	5	ND	1	58	1.0	2	2	114	1.59	.135	6	10	2.23	206	.21	2	2.11	.05	1.26	1	25
STANDARD C/AU-R	20	61	39	139	7.6	72	32	1095	3.97	43	23	8	41	55	21.8	19	22	59	.52	.095	40	63	.94	193	.07	32	1.96	.06	.14	11	510
STANDARD C	18	57	39	130	6.5	68	32	1051	3.97	36	17	7	36	50	19.1	16	18	55	.52	.091	36	55	.89	183	.08	31	1.88	.06	.14	13	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B 91972	2	884	2	26	.1	8	13	387	2.99	9	5	ND	1	55	1.2	3	2	87	1.42	.128	6	8	1.61	171	.16	2	1.60	.05	1.00	1	48
B 91973	5	474	9	22	.3	12	16	358	2.65	5	5	ND	1	79	.3	3	2	62	1.52	.116	5	8	1.74	133	.14	2	1.49	.05	.77	1	22
B 91974	1	329	8	25	.3	10	14	454	4.52	6	5	ND	2	169	.9	3	4	125	3.28	.147	6	11	1.80	192	.18	4	2.27	.04	.77	1	26
B 91975	1	887	3	25	.3	11	15	397	4.13	5	5	ND	1	89	.6	3	4	114	1.94	.139	6	10	1.67	175	.16	2	1.75	.06	.65	1	54
B 91976	1	1989	6	37	.5	12	14	469	4.78	11	5	ND	1	92	1.2	5	2	126	2.11	.141	7	9	1.81	161	.17	5	1.80	.05	.66	1	69
B 91977	3	935	9	36	.4	13	16	373	3.76	2	7	ND	1	60	.8	2	3	98	1.71	.127	5	9	1.80	146	.16	2	1.85	.04	.71	1	22
B 91978	10	1034	4	30	.5	11	23	428	3.96	6	5	ND	2	65	1.2	3	2	115	2.27	.128	5	10	1.90	144	.19	5	1.82	.04	1.08	1	100
B 91979	2	1088	3	30	.2	12	15	351	2.82	2	5	ND	1	50	.4	2	2	101	1.37	.111	5	13	1.84	171	.17	2	1.61	.04	.81	1	22
B 91980	1	847	6	30	.1	10	13	369	3.35	3	5	ND	1	60	.5	2	4	116	1.36	.091	5	12	1.71	186	.17	2	1.69	.05	1.08	1	27
B 91981	38	1291	6	25	.6	9	15	234	2.74	11	5	ND	3	58	.4	3	3	90	1.49	.113	7	7	.85	56	.09	2	.97	.04	.22	1	23
B 91982	38	1585	2	30	.5	9	14	257	3.38	8	5	ND	2	52	.6	3	2	106	1.60	.102	6	6	.91	84	.11	2	1.09	.04	.37	1	81
B 91983	2	1467	7	29	.6	8	12	251	2.85	15	5	ND	2	59	.5	3	2	78	1.17	.106	6	7	.85	30	.08	2	1.01	.04	.09	1	35
B 94	5	1794	2	28	.5	8	18	263	3.57	5	5	ND	2	59	.5	2	2	98	1.89	.105	6	6	.77	72	.11	2	.92	.05	.32	1	110
B ../85	2	598	6	29	.2	11	18	391	5.14	3	5	ND	1	54	.5	2	2	148	2.18	.129	5	10	1.55	135	.16	2	1.70	.05	.66	1	37
B 91986	1	1147	7	42	.4	13	16	441	4.98	5	5	ND	1	62	1.1	2	2	135	1.60	.136	6	10	1.73	158	.16	3	1.78	.06	.96	1	50
B 91987	2	1451	6	33	.4	12	16	375	4.24	2	5	ND	1	60	1.1	2	2	144	1.83	.169	6	15	1.82	121	.17	3	1.79	.05	.96	1	76
B 91988	3	1512	7	33	.4	11	16	348	4.24	5	5	ND	1	72	1.0	2	2	126	2.27	.138	5	9	1.48	108	.15	2	1.64	.04	.53	2	85
B 91989	12	1239	6	25	.4	9	14	269	3.41	8	5	ND	1	69	.5	2	2	89	2.05	.111	5	15	1.15	79	.14	6	1.52	.05	.33	1	35
B 91990	1	1931	2	39	.3	12	17	324	3.80	2	5	ND	1	100	.9	2	2	96	1.97	.121	5	9	1.48	146	.16	2	1.68	.05	.82	1	71
B 91991	3	1650	5	30	.5	15	15	282	3.20	6	5	ND	1	75	.9	2	2	81	1.75	.113	5	15	1.35	82	.14	5	1.51	.05	.41	1	66
B 91992	1	488	7	26	.1	8	17	308	3.86	5	5	ND	1	72	.4	2	2	105	1.65	.121	5	12	1.39	123	.15	4	1.51	.05	.61	1	31
B 91993	2	1508	5	32	.4	13	16	302	3.96	6	5	ND	1	76	.6	2	2	110	2.23	.142	7	16	1.21	127	.15	3	1.39	.05	.49	1	54
RE B 91989	13	1269	3	25	.2	12	14	279	3.56	4	5	ND	1	69	.5	2	4	92	2.13	.117	5	15	1.20	78	.13	4	1.56	.05	.34	1	31
B 91994	1	1265	2	29	.2	9	11	286	3.70	4	5	ND	1	51	.7	2	3	100	1.68	.159	6	8	1.29	117	.14	5	1.35	.05	.64	1	68
B 91995	2	4023	2	58	.8	12	21	257	3.91	5	5	ND	2	50	.9	2	2	109	1.93	.135	6	12	.95	48	.11	2	1.10	.04	.25	1	150
B 91996	1	2671	7	35	.5	11	15	340	5.38	4	5	ND	2	58	1.2	2	2	195	2.23	.221	8	9	1.40	164	.16	2	1.41	.04	.79	1	160
B 91997	2	1098	6	26	.6	9	15	314	4.24	6	5	ND	2	50	.9	3	3	166	2.10	.153	6	17	1.47	193	.18	2	1.52	.05	.79	1	63
B 91998	1	992	4	28	.1	10	14	314	3.97	4	5	ND	1	52	1.0	2	7	120	1.72	.147	6	10	1.53	191	.18	2	1.48	.04	.73	1	41
B 91999	1	1871	3	31	.4	12	13	293	3.51	2	5	ND	1	68	.8	2	2	110	2.05	.156	7	14	1.35	127	.15	2	1.37	.05	.67	1	190
B 92000	1	2372	2	27	.3	10	16	295	3.31	2	5	ND	2	56	1.1	2	2	104	2.30	.130	5	7	1.27	75	.14	2	1.34	.05	.49	1	180
S…ARD C/AU-R	18	56	42	125	6.7	68	32	1039	3.90	37	18	8	37	48	19.0	18	22	55	.51	.091	35	53	.88	165	.08	33	1.78	.05	.14	11	530
STANDARD C	18	59	38	131	6.7	69	31	1057	3.99	40	19	7	36	53	19.9	15	18	55	.51	.097	36	56	.91	181	.07	36	1.90	.06	.13	13	-

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GEOCHEMICAL ANALYSIS CERTIFICATE

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700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77032	2	1293	3	27	.3	13	18	378	4.85	9	5	ND	1	95	1.1	3	3	157	1.32	.185	8	11	1.43	248	.20	6	1.52	.04	.72	1	72
C 77033	3	835	3	43	.5	26	25	401	5.45	18	5	ND	2	87	.6	4	6	143	.70	.170	8	85	2.44	169	.21	2	2.20	.03	1.31	1	98
C 77034	4	1573	2	38	.8	29	32	364	5.29	13	5	ND	2	121	.9	6	2	134	.69	.150	7	53	2.10	66	.21	4	1.86	.04	1.20	1	73
C 77035	3	1972	2	38	.1	25	33	441	5.09	4	5	ND	1	75	.5	2	2	147	1.68	.169	7	63	2.00	83	.21	2	1.87	.04	1.19	1	300
C 77036	1	734	2	28	.3	17	27	374	4.55	7	5	ND	2	95	.7	5	2	156	2.17	.196	8	19	1.60	136	.21	5	1.62	.05	.81	1	29
C 77037	2	1404	4	42	.3	27	35	498	5.76	8	5	ND	1	49	1.0	3	6	157	1.14	.159	7	60	2.73	74	.21	2	2.24	.03	1.55	1	59
C 77038	3	1650	2	39	.3	45	35	454	5.76	6	5	ND	1	48	.7	2	2	145	.92	.134	6	97	2.62	60	.21	4	2.14	.04	1.66	1	48
C 77039	4	1775	2	37	.4	40	36	449	5.89	8	5	ND	1	59	1.0	2	2	156	.80	.154	6	70	2.68	58	.23	5	2.20	.04	1.65	1	70
C 77040	2	1221	2	38	.5	42	32	449	5.67	7	5	ND	1	42	1.3	5	2	151	.85	.156	7	94	2.62	72	.20	2	2.15	.04	1.55	1	60
C 77041	3	2059	2	38	.2	37	32	463	5.62	5	5	ND	1	45	.9	2	2	161	.92	.151	6	104	2.63	54	.20	2	2.17	.03	1.54	1	250
C 77042	2	897	4	36	.3	33	26	449	5.10	5	5	ND	1	47	1.3	3	3	155	.83	.165	7	79	2.67	83	.22	2	2.21	.04	1.58	1	57
C 77043	3	716	4	30	.1	30	34	370	4.77	6	5	ND	1	76	.5	2	2	108	.92	.141	6	90	2.00	56	.16	5	1.66	.03	.85	1	41
C 77044	6	979	2	35	.2	37	42	447	6.51	4	5	ND	1	51	1.4	3	3	168	.98	.163	6	88	2.75	36	.22	3	2.29	.05	1.59	1	230
C 77045	3	1053	2	34	.4	34	34	452	5.36	7	5	ND	1	62	.5	2	3	160	1.26	.149	6	77	2.64	60	.22	3	2.17	.05	1.52	1	50
C 77046	3	1999	2	34	.4	52	36	425	5.29	11	5	ND	1	128	.9	3	5	137	1.06	.139	6	116	2.41	49	.20	2	2.00	.05	1.29	1	260
C 77047	5	865	2	29	.2	29	42	465	5.88	10	5	ND	1	192	1.5	2	2	135	2.46	.124	6	57	2.21	74	.19	2	1.95	.05	1.30	1	40
C 77048	6	1033	2	36	.2	30	35	496	6.20	11	5	ND	1	75	1.0	3	2	161	1.37	.170	8	79	2.75	63	.22	3	2.34	.05	1.58	1	100
C 77049	3	933	7	38	.2	42	39	462	6.04	3	5	ND	1	80	.8	2	2	164	.76	.160	7	81	2.86	52	.22	2	2.27	.04	1.45	1	55
C 77050	4	1092	2	36	.1	34	27	533	5.36	7	5	ND	1	186	.9	4	2	188	1.83	.156	9	61	2.99	81	.25	2	2.40	.04	1.69	1	100
C 77051	5	1612	2	38	.2	36	31	550	5.86	12	5	ND	1	120	.9	2	4	178	1.95	.141	6	80	3.07	106	.25	2	2.46	.04	1.54	1	210
C 77052	3	1743	2	41	.3	43	37	539	6.03	11	5	ND	1	75	1.3	2	2	176	1.61	.144	6	110	3.14	76	.23	3	2.43	.03	1.52	1	180
C 77053	3	1779	2	41	.4	51	33	535	6.18	12	5	ND	1	40	1.4	7	2	191	.95	.153	7	106	3.32	57	.22	6	2.57	.03	1.81	1	200
RE C 77049	3	913	8	37	.1	45	38	458	6.01	4	5	ND	1	78	.8	2	2	162	.74	.160	6	80	2.83	37	.22	2	2.26	.04	1.45	1	69
C 77054	108	1191	2	29	.2	39	46	348	5.66	6	5	ND	1	72	.2	3	2	124	1.06	.146	6	56	2.23	45	.18	2	1.73	.04	1.06	1	39
C 77055	4	1493	3	34	.2	55	31	462	5.43	10	5	ND	1	56	.9	2	2	171	1.07	.163	7	103	2.83	62	.22	2	2.22	.04	1.46	1	210
C 77056	5	1697	5	37	.3	47	41	443	6.33	10	5	ND	1	62	1.2	2	2	160	1.21	.161	7	68	2.58	50	.22	4	2.09	.04	1.26	1	102
C 77057	5	1341	2	44	.4	79	32	618	5.83	11	5	ND	2	70	1.1	5	2	160	2.61	.143	7	230	3.18	85	.22	2	2.52	.03	1.78	1	78
C 77058	4	1058	2	36	.2	31	31	362	4.50	9	5	ND	1	78	.3	2	2	123	1.56	.134	6	49	1.89	64	.18	2	1.55	.04	1.00	1	51
059	2	1093	7	39	.1	39	41	514	6.48	9	5	ND	1	68	1.1	2	10	148	1.70	.142	6	85	2.69	61	.23	2	2.46	.05	1.72	1	53
C 77060	3	1144	2	36	.1	33	29	487	5.31	9	5	ND	1	67	1.3	2	2	165	1.73	.157	7	57	2.56	78	.23	2	2.16	.04	1.57	1	92
C 77061	5	1603	6	44	.3	32	28	434	5.48	10	5	ND	1	57	.8	2	7	150	1.24	.154	7	60	2.69	66	.21	2	2.19	.03	1.47	1	48
C 77062	3	1817	2	39	.5	33	31	426	5.57	12	5	ND	2	65	1.0	5	2	160	1.92	.142	8	55	2.57	91	.20	2	2.21	.03	1.35	1	41
C 77063	5	1715	3	44	.5	40	34	455	6.37	7	5	ND	2	44	1.9	2	3	214	.98	.161	7	78	3.09	124	.25	3	2.62	.03	1.93	1	35
C 77064	5	1464	2	41	.3	38	38	522	5.99	12	5	ND	1	73	.6	5	5	205	1.84	.170	7	72	2.87	74	.25	2	2.41	.04	1.77	1	34
C 77065	5	1582	10	39	.2	35	29	488	5.33	11	5	ND	1	80	.9	4	6	190	1.71	.140	7	63	2.78	90	.22	2	2.24	.04	1.50	1	29
C 77066	2	920	3	36	.4	29	24	473	5.37	10	5	ND	1	63	.7	2	2	202	1.41	.185	8	50	2.61	75	.22	2	2.18	.04	1.39	1	25
C 77067	2	941	2	31	.1	17	22	414	4.56	5	5	ND	1	61	1.0	3	2	170	1.30	.171	8	14	2.11	100	.19	2	1.85	.03	1.12	1	38
STANDARD C/AU-R	20	61	36	136	6.8	75	33	1148	4.06	42	18	8	38	54	20.5	16	23	58	.51	.094	38	59	.96	181	.08	32	1.94	.06	.14	12	540
STANDARD C	18	60	38	131	6.5	70	31	1051	3.97	41	22	7	36	53	19.8	15	19	55	.52	.094	36	56	.90	181	.07	34	1.89	.06	.14	13	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 20 1990 DATE REPORT MAILED: Sept 26/90 SIGNED BY. . . . . .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77068	19	1929	6	44	1.1	14	28	400	5.54	16	5	ND	1	54	1.1	6	2	183	1.26	.173	10	19	2.27	69	.18	5	2.04	.04	1.30	1	62
C 77069	328	1693	15	31	1.2	18	26	438	4.64	24	5	ND	1	253	.4	5	3	145	3.67	.158	10	28	1.48	77	.05	6	1.06	.03	.47	1	109
C 77070	129	2404	12	40	1.6	22	26	541	4.50	42	5	ND	1	210	.5	15	2	105	3.96	.107	9	42	1.55	81	.07	11	1.48	.02	.67	1	100
C 77071	2	1166	14	40	.8	20	34	458	6.77	15	5	ND	1	197	.8	7	2	207	2.35	.154	10	42	2.13	199	.18	4	1.90	.04	1.32	1	43
C 77072	1	270	4	22	.5	12	18	396	7.30	2	5	ND	1	191	1.2	6	2	217	2.58	.167	8	20	1.25	292	.20	3	1.36	.04	.75	1	31
C 77073	20	1017	7	26	.7	11	17	370	6.30	8	5	ND	1	234	.9	4	2	195	2.83	.157	7	19	1.18	253	.18	7	1.25	.04	.54	1	26
C 77074	2	490	5	23	.6	13	16	392	7.15	7	5	ND	1	94	.5	4	2	209	2.33	.148	7	18	1.42	156	.18	4	1.43	.04	.57	1	8
C 77075	23	1282	9	28	.8	16	20	376	7.15	10	5	ND	1	95	1.1	8	2	188	2.76	.154	8	23	1.59	96	.17	3	1.67	.03	.82	1	35
C 77076	1	2587	9	32	1.0	27	26	417	7.10	7	5	ND	1	73	1.0	6	4	233	1.65	.150	7	55	2.14	121	.21	2	1.89	.03	1.09	1	61
C 77077	9	3095	2	47	1.1	64	23	512	4.93	7	5	ND	1	98	1.3	5	5	190	2.76	.090	6	185	3.14	116	.21	2	2.32	.03	1.60	1	64
C 77078	1	3304	10	41	1.0	55	23	456	5.19	5	5	ND	1	83	1.5	4	2	177	2.40	.120	12	96	2.77	92	.19	2	2.06	.03	1.03	1	80
C 77079	2	1484	4	35	.8	64	31	488	6.63	7	5	ND	1	76	1.2	7	2	201	1.68	.133	10	128	3.22	81	.22	4	2.56	.04	1.78	1	30
C 77080	5	1869	4	38	.8	54	29	527	5.99	8	5	ND	1	145	1.3	7	2	176	1.89	.125	6	125	2.95	61	.22	2	2.28	.04	1.73	1	46
C 77081	7	1982	3	35	.8	56	36	504	5.97	8	5	ND	1	138	1.2	6	4	175	1.71	.148	7	93	2.71	62	.23	4	2.16	.04	1.57	1	54
C 77082	1	353	8	30	.6	13	11	368	6.48	7	5	ND	1	134	1.3	7	2	205	1.81	.172	7	25	1.51	217	.20	8	1.55	.04	.75	1	14
C 77083	1	725	7	28	.6	14	16	343	6.77	2	5	ND	1	115	1.1	6	2	212	1.58	.161	6	21	1.45	172	.20	3	1.39	.03	.74	1	16
C 77084	4	1992	2	24	.9	17	18	328	3.99	7	5	ND	1	77	1.2	5	2	145	1.15	.135	7	39	2.12	155	.20	3	1.87	.04	1.24	1	21
C 77085	3	770	3	27	.7	17	16	381	4.29	2	5	ND	1	101	1.0	5	2	154	1.55	.147	8	48	2.26	190	.23	2	2.00	.04	1.41	1	16
RE C 77081	7	1935	9	38	.9	50	34	478	5.69	5	5	ND	1	133	1.1	6	2	167	1.63	.146	7	89	2.60	59	.23	4	2.10	.04	1.53	1	62
C 77086	1	1805	2	35	.8	21	16	474	5.60	4	5	ND	1	122	1.4	5	2	182	1.79	.149	6	74	2.69	130	.25	2	2.30	.04	1.47	1	61
C 77087	1	1791	9	31	.7	19	17	418	6.83	2	5	ND	1	91	1.1	6	2	242	1.53	.119	5	62	2.30	133	.23	2	2.00	.04	1.49	1	38
C 77088	2	980	3	31	.7	20	16	435	5.10	3	5	ND	1	102	1.2	4	2	193	1.72	.125	4	74	2.30	218	.28	6	1.99	.05	1.51	1	29
C 77089	4	593	2	19	.6	15	14	374	5.49	4	5	ND	1	85	.9	5	2	187	1.96	.153	5	27	1.52	191	.21	4	1.51	.04	.81	1	20
C 77090	3	715	4	23	.7	16	24	442	8.15	53	5	ND	1	132	.6	6	2	257	1.91	.148	6	22	1.78	38	.17	6	1.91	.03	.58	1	240
C 77091	1	519	2	19	.7	14	17	364	6.68	7	5	ND	1	104	1.0	4	2	206	1.60	.149	6	21	1.55	148	.20	5	1.78	.03	.79	1	290
C 77092	1	298	13	13	.4	12	16	339	7.17	2	5	ND	1	127	1.1	6	2	217	1.62	.161	6	22	1.54	227	.21	2	1.75	.04	.99	1	12
C 77093	3	503	6	20	.5	14	15	327	6.77	2	5	ND	1	126	.8	5	2	214	1.08	.153	6	21	1.64	202	.19	2	1.70	.04	1.00	1	7
C 77094	1	295	2	21	.5	12	17	339	7.97	2	5	ND	1	73	1.0	5	2	234	1.24	.162	5	23	1.49	208	.21	2	1.59	.04	1.05	1	17
C 77095	1	202	2	17	.5	14	15	304	7.71	6	5	ND	1	66	1.2	4	2	248	1.03	.154	6	20	1.49	201	.21	4	1.57	.03	.97	1	5
C 77096	1	539	2	20	.4	14	15	338	8.71	2	5	ND	1	91	1.3	6	2	305	1.16	.175	6	22	1.59	218	.20	2	1.71	.04	1.18	1	3
C 77097	1	2047	4	35	.9	15	24	346	7.48	6	5	ND	1	67	1.2	5	2	263	1.14	.177	7	20	1.72	280	.22	2	1.78	.04	1.29	1	19
C 77098	1	4390	5	53	1.8	17	32	386	6.71	12	5	ND	1	125	2.0	8	2	201	1.71	.173	8	24	1.76	132	.21	3	1.78	.04	1.09	1	230
C 77099	2	4565	9	54	1.8	20	25	388	6.91	12	5	ND	1	211	1.6	5	2	220	1.95	.183	8	30	2.05	206	.20	5	1.89	.03	.93	1	81
STANDARD C/AU-R	20	64	41	139	7.3	74	34	1127	4.03	42	17	8	39	52	19.0	16	22	60	.53	.094	38	59	.96	186	.07	36	2.03	.06	.14	11	550
STANDARD C	18	60	37	131	7.1	69	31	1059	4.02	41	17	8	36	53	18.6	16	18	56	.52	.097	37	60	.90	181	.07	36	1.90	.07	.13	13	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Church.

BP Resources Canada Ltd. PROJECT 10144 File # 90-4951 Page 1
700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77100	1	718	2	22	.4	9	12	325	3.10	18	5	ND	3	124	.2	2	2	107	1.97	.184	8	9	1.09	100	.14	10	1.27	.05	.22	1	55
C 77101	3	1163	2	20	.7	5	6	213	1.86	9	5	ND	5	113	.2	4	2	58	1.26	.242	10	8	1.07	67	.13	6	1.07	.03	.22	2	130
C 77102	3	2333	3	25	.9	7	15	213	2.38	13	5	ND	4	105	.3	3	2	54	1.25	.247	9	6	1.04	86	.12	10	1.05	.05	.32	1	220
C 77103	2	1562	2	26	.8	9	11	311	2.39	5	5	ND	8	101	.2	3	2	54	2.07	.550	18	18	1.51	91	.13	8	1.45	.07	.32	2	110
C 77104	3	1601	2	25	.7	8	8	242	2.34	15	5	ND	4	98	.2	2	2	83	1.71	.313	12	10	1.20	71	.12	10	1.31	.04	.21	1	110
C 77105	1	1244	2	25	.5	9	15	302	4.13	13	5	ND	2	121	.2	2	2	122	1.81	.186	7	9	1.10	69	.14	10	1.41	.06	.25	2	89
C 77106	1	995	2	24	.5	8	12	316	4.49	8	5	ND	2	150	.2	2	2	156	1.83	.164	7	12	.99	111	.17	10	1.42	.07	.42	1	48
C 77107	1	1205	2	24	.6	9	10	342	4.04	14	5	ND	3	153	.2	2	2	129	2.25	.208	8	15	.94	101	.16	12	1.50	.11	.26	1	73
C 77108	1	848	4	24	.5	9	24	320	3.83	17	5	ND	2	156	.2	2	2	97	2.15	.148	6	8	1.17	60	.13	9	1.40	.07	.14	1	80
C 77109	1	1797	2	31	.7	9	13	336	4.08	13	5	ND	2	119	.2	2	2	136	1.51	.122	6	9	1.06	100	.15	11	1.45	.09	.27	1	130
C 77110	1	1193	4	25	.6	10	10	334	4.99	19	5	ND	2	250	.2	2	2	191	2.27	.126	6	11	.88	62	.16	10	1.26	.06	.19	1	91
C 77111	1	1686	4	26	.7	10	14	281	4.38	18	5	ND	2	104	.2	2	2	178	1.48	.151	7	14	1.09	81	.16	10	1.28	.06	.32	1	120
C 77112	1	715	2	21	.5	11	7	308	6.56	10	5	ND	4	131	.2	2	2	236	2.06	.232	9	11	.94	98	.17	8	1.34	.08	.45	1	40
C 77113	1	566	2	26	.4	10	8	351	5.90	7	5	ND	3	95	.2	2	2	215	2.07	.178	7	20	.91	82	.17	9	1.34	.06	.36	1	28
C 77114	5	5004	2	46	1.6	10	20	388	5.65	81	5	ND	3	113	1.0	120	2	173	2.97	.237	9	7	.95	55	.10	12	1.26	.04	.22	1	310
C 77115	4	2309	2	30	.8	13	17	402	7.00	18	5	ND	3	184	.4	2	2	235	2.32	.220	8	14	1.14	60	.16	9	1.46	.07	.12	1	150
C 77116	1	621	4	26	.4	12	15	416	8.23	13	5	ND	5	294	.3	2	2	277	2.29	.350	13	8	.83	76	.14	8	1.46	.08	.18	1	32
C 77117	1	2357	4	25	1.2	9	16	399	5.11	11	5	ND	7	169	.4	2	2	203	3.12	.586	21	6	.82	74	.12	11	1.25	.09	.21	1	220
C 77118	1	2612	4	29	1.5	10	15	441	6.76	23	5	ND	9	248	.5	2	2	244	3.61	.677	23	8	1.10	47	.11	6	1.44	.08	.12	1	320
C 77119	1	687	4	29	.7	10	14	402	6.84	12	5	ND	5	204	.2	2	2	238	2.70	.345	14	12	.88	66	.13	7	1.37	.08	.17	1	39
C 77120	1	1688	5	42	1.5	10	14	424	6.80	13	5	ND	3	101	.6	2	2	206	2.58	.221	9	10	1.16	140	.17	6	1.59	.06	.31	1	81
C 77121	1	390	6	27	.6	11	18	420	5.87	16	5	ND	2	84	.2	2	2	167	1.82	.160	8	13	1.43	223	.21	9	1.81	.05	.52	1	22
C 77122	1	669	4	28	1.1	9	12	399	6.43	40	5	ND	3	87	.2	2	2	236	2.16	.190	8	9	1.00	124	.17	8	1.58	.06	.35	1	50
C 77123	1	887	3	26	1.1	12	14	379	6.96	18	5	ND	3	196	.3	2	2	243	2.14	.193	8	14	.96	63	.15	8	1.75	.07	.20	1	77
C 77124	1	1895	2	36	2.5	10	15	383	6.27	11	5	ND	3	122	.5	2	2	208	2.96	.191	8	6	.98	41	.13	8	1.74	.07	.12	1	110
C 77125	1	1188	4	26	1.2	8	14	357	6.06	18	5	ND	3	85	.3	2	2	184	2.20	.185	7	6	.76	48	.12	9	1.60	.06	.13	1	80
C 77126	1	803	2	20	.8	9	15	309	7.36	10	5	ND	3	123	.2	2	2	197	1.69	.180	7	6	.72	47	.14	6	1.57	.06	.15	1	41
RE C 77122	1	641	6	29	1.0	9	11	390	6.27	40	5	ND	3	85	.2	2	2	230	2.09	.186	8	9	.97	119	.16	8	1.52	.06	.33	1	56
C 77127	1	907	4	19	.5	12	15	352	6.61	6	5	ND	3	162	.2	2	2	166	1.94	.209	7	14	.66	55	.13	7	1.53	.08	.12	1	28
C 77128	1	2330	4	34	1.3	10	14	362	8.11	8	5	ND	4	139	.9	2	2	242	2.27	.242	9	7	.64	76	.14	5	1.59	.09	.15	1	110
C 77129	1	1827	2	28	.7	9	12	406	6.66	20	5	ND	2	263	.2	2	2	205	2.43	.191	8	9	.62	59	.13	8	1.32	.06	.14	1	130
C 77130	1	1719	2	26	.7	7	12	347	5.44	17	5	ND	2	203	.2	2	2	156	1.93	.193	8	8	.65	85	.13	11	1.43	.08	.15	1	100
C 77131	1	1889	5	26	.8	11	13	381	6.16	15	5	ND	3	131	.2	2	2	184	2.40	.215	8	15	.59	79	.12	9	1.34	.07	.13	1	100
C 77132	1	1825	3	29	.6	11	15	463	7.99	21	5	ND	3	168	.2	2	2	249	2.34	.219	8	9	.76	69	.12	8	1.36	.06	.08	1	97
C 77133	1	454	2	14	.5	7	10	282	3.25	25	5	ND	5	125	.2	2	2	112	2.07	.101	8	8	.52	94	.10	11	.89	.05	.12	1	33
C 77134	2	989	3	34	1.6	6	15	318	3.58	37	5	ND	4	91	.2	42	2	98	2.26	.158	9	6	.77	65	.07	15	1.05	.04	.14	1	120
C 77135	1	1627	3	30	.9	10	13	396	7.58	19	5	ND	5	95	.2	2	2	258	2.50	.367	13	11	.76	54	.11	9	1.09	.05	.11	1	100
STANDARD C/AU-R	20	55	39	137	7.6	74	34	1107	4.00	44	24	8	39	52	20.2	19	18	59	.46	.096	40	62	.92	182	.07	40	1.96	.06	.14	12	540
STANDARD C	18	59	39	131	7.0	72	32	1052	3.95	39	21	7	40	56	19.1	15	18	57	.46	.094	39	59	.89	182	.07	40	1.89	.06	.14	12	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 1 1990 DATE REPORT MAILED: Oct 5/90. SIGNED BY C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 10144 FILE # 90-4951

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77136	1	3282	5	52	2.2	12	19	681	9.15	5	5	ND	4	167	1.1	2	2	322	3.28	.269	12	11	1.48	70	.14	4	1.61	.03	.07	1	220
C 77137	1	6011	5	64	3.8	11	26	901	7.57	189	7	ND	2	654	1.3	360	2	113	6.64	.145	8	4	1.43	43	.02	14	1.00	.01	.18	1	530
C 77138	1	2789	11	29	1.1	10	18	701	5.69	236	5	ND	3	576	.2	244	2	93	6.02	.262	10	5	1.31	64	.03	19	.89	.01	.24	1	200
C 77139	7	2533	4	27	.8	12	30	484	6.41	11	5	ND	2	149	.2	3	2	204	3.16	.172	10	9	1.17	76	.13	7	1.22	.03	.09	1	150
C 77140	1	670	2	23	.4	8	14	423	6.33	3	5	ND	1	121	.2	2	2	218	2.49	.156	8	9	1.01	66	.14	8	1.16	.03	.10	1	63
C 77141	1	969	4	21	.5	9	15	392	5.57	2	5	ND	2	150	.2	4	2	194	2.34	.212	10	8	1.07	77	.13	8	1.14	.03	.09	1	65
C 77142	1	1586	3	24	.6	9	16	329	5.09	3	5	ND	1	106	.2	3	2	177	1.54	.126	7	10	1.00	59	.16	6	1.16	.03	.09	1	67
C 77143	1	1211	4	24	.5	10	18	328	7.26	2	5	ND	2	118	.2	2	2	294	1.62	.125	7	11	.90	147	.18	7	1.11	.03	.20	1	50
C 77144	1	776	3	16	.3	9	12	272	5.20	2	5	ND	2	184	.2	2	2	221	1.83	.150	9	10	.64	208	.15	7	.94	.04	.17	1	36
C 77145	1	608	4	14	.2	7	6	227	3.08	2	5	ND	2	113	.2	2	2	143	1.54	.108	7	9	.57	57	.13	10	.80	.03	.11	1	43
C 77146	1	1971	5	21	.5	8	18	280	3.65	8	5	ND	1	203	.2	3	2	129	2.29	.286	12	8	.74	172	.12	11	1.00	.03	.13	1	110
C 77147	1	982	3	21	.4	9	11	395	5.75	6	5	ND	1	225	.2	2	2	214	3.30	.154	8	10	.84	134	.14	9	1.06	.03	.11	1	60
C 77148	1	1024	5	17	.4	10	17	318	6.40	6	5	ND	1	158	.2	2	2	233	2.34	.183	9	10	.67	90	.15	8	1.08	.04	.13	1	80
C 77149	1	739	4	24	.5	11	14	360	7.07	4	5	ND	3	242	.2	3	2	263	2.14	.217	9	12	.84	139	.14	5	1.23	.03	.10	1	88
C 77150	1	1168	2	28	.5	10	12	335	7.43	4	5	ND	5	106	.2	2	2	293	2.50	.495	18	11	.80	100	.13	8	1.15	.05	.24	1	67
C 77151	6	1762	6	22	.6	12	43	293	7.04	13	5	ND	1	150	.2	3	2	236	1.56	.099	5	9	.72	79	.17	8	.98	.03	.13	1	120
C 77152	1	1382	2	17	.5	7	10	235	4.06	2	5	ND	3	110	.2	2	2	171	1.64	.120	6	8	.48	72	.13	7	.74	.03	.16	1	110
C 77153	2	957	6	20	.5	10	12	309	6.38	5	5	ND	3	188	.2	2	2	236	2.09	.210	10	11	.68	101	.14	6	1.02	.04	.24	1	65
C 77154	1	819	3	23	.4	9	15	324	6.23	2	5	ND	2	328	.2	2	2	230	1.68	.142	7	12	.74	143	.16	7	1.12	.04	.18	1	70
C 77155	2	1687	2	23	.7	10	17	350	5.57	2	5	ND	2	134	.2	2	2	218	2.08	.147	8	10	.80	72	.15	6	1.08	.03	.28	1	140
C 77156	1	1355	5	21	.5	8	12	309	5.90	2	5	ND	1	149	.2	3	3	220	1.92	.116	6	9	.59	78	.15	9	1.09	.04	.13	1	56
C 77157	1	2564	6	26	.7	10	14	314	6.36	9	5	ND	2	176	.2	2	2	234	1.95	.188	8	11	.63	100	.15	5	1.13	.04	.20	1	130
C 77158	1	2508	5	28	.9	7	8	275	5.85	5	5	ND	3	96	.2	2	2	211	2.08	.263	11	9	.50	59	.13	8	.97	.04	.12	1	96
C 77159	3	3154	4	26	1.0	9	15	300	5.32	7	5	ND	1	139	.2	3	2	172	2.05	.184	8	10	.62	68	.14	8	1.08	.04	.09	1	140
C 77160	1	1050	5	23	.6	8	9	274	4.97	7	5	ND	2	145	.2	2	2	182	1.98	.168	8	10	.53	82	.14	10	1.10	.05	.12	1	69
C 77161	1	1689	4	31	.6	9	14	329	5.33	5	5	ND	1	181	.2	3	2	209	1.49	.179	8	6	.94	337	.21	8	1.43	.04	.32	1	120
C 77162	1	961	5	27	.5	9	15	313	6.22	4	5	ND	3	165	.2	3	2	216	1.81	.176	9	12	.62	67	.13	8	1.23	.05	.10	1	76
C 77163	1	684	4	21	.5	7	8	260	4.09	5	5	ND	2	88	.2	2	2	149	1.77	.078	5	11	.53	46	.13	7	1.03	.04	.08	1	49
C 77164	5	808	3	20	.4	8	19	331	6.16	6	5	ND	1	152	.2	2	2	208	2.20	.087	5	9	.53	76	.15	8	.97	.04	.18	1	280
C 77165	2	1651	3	23	.9	9	17	455	6.56	10	5	ND	1	1191	.3	2	2	286	3.78	.055	4	9	.69	197	.16	7	1.27	.04	.18	1	220
C 77166	19	1309	3	24	.5	10	16	375	6.37	22	5	ND	1	474	.2	3	2	249	2.11	.095	5	10	.87	129	.18	6	1.31	.04	.30	2	480
C 77167	3	3196	3	25	1.2	11	23	371	6.25	6	5	ND	1	420	.3	2	2	205	2.54	.086	6	11	.84	101	.18	6	1.34	.04	.28	1	330
RE C 77163	1	701	4	20	.4	8	8	272	4.25	2	5	ND	1	89	.2	2	2	154	1.84	.080	5	11	.55	48	.14	7	1.08	.04	.08	1	47
C 77168	40	4149	5	28	1.5	12	64	388	4.93	7	5	ND	1	366	.2	4	2	136	2.52	.083	5	11	1.05	110	.19	6	1.40	.03	.34	1	1010
C 77169	1	1837	2	27	.7	8	12	339	4.53	2	5	ND	2	162	.2	2	2	177	1.68	.064	5	10	.96	158	.20	8	1.37	.04	.38	1	130
C 77170	4	2817	4	24	1.0	7	15	305	3.84	2	10	ND	2	95	.2	2	2	144	2.07	.056	5	10	.72	82	.16	7	1.25	.04	.17	1	100
C 77171	1	1107	3	26	.4	10	14	299	5.27	2	5	ND	1	146	.2	4	2	181	1.67	.066	5	13	.70	60	.16	7	1.45	.05	.10	1	140
STANDARD C/AU-R	19	58	38	130	7.4	73	32	1090	4.04	43	20	7	40	53	20.1	17	23	61	.46	.094	42	61	.91	187	.08	38	1.96	.06	.13	11	550
STANDARD C	18	59	39	130	7.4	72	31	1053	3.95	37	21	7	40	52	19.6	15	18	59	.46	.092	40	61	.90	188	.07	37	1.90	.06	.14	11	-

BP Resources Canada Ltd. PROJECT 10144 FILE # 90-4951

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77172	1	1517	6	20	.5	8	13	247	3.53	2	5	ND	1	171	.2	2	2	117	1.50	.028	3	9	.58	42	.13	6	1.20	.04	.08	1	143
C 77173	2	1716	5	21	.4	6	9	230	1.88	2	5	ND	1	144	.2	2	2	61	1.83	.028	4	7	.62	42	.13	6	1.35	.05	.07	1	112
C 77174	1	898	6	20	.3	7	11	285	3.58	2	5	ND	2	189	.2	2	2	123	2.27	.060	4	9	.59	39	.12	6	1.17	.04	.08	1	44
C 77175	3	1105	5	26	.2	7	9	375	3.31	2	5	ND	1	104	.2	2	2	128	2.39	.074	5	10	.99	59	.16	9	1.31	.04	.12	1	108
C 77176	1	2852	6	25	.9	9	18	315	3.28	4	5	ND	2	94	.2	2	2	113	2.19	.088	6	9	.75	52	.15	7	1.09	.03	.12	1	320
C 77177	1	798	5	20	.3	6	8	305	3.41	2	5	ND	2	105	.2	2	2	142	2.08	.104	7	7	.65	74	.13	6	.91	.03	.17	1	44
C 77178	1	1296	5	13	.5	8	9	207	2.60	2	5	ND	2	114	.2	2	2	127	1.48	.097	7	8	.39	50	.11	7	.69	.04	.12	1	86
C 77179	1	1342	3	14	.3	6	7	214	2.03	2	5	ND	2	96	.2	2	2	89	1.58	.107	7	6	.43	74	.12	8	.67	.04	.15	1	72
C 77180	1	2114	4	22	.3	8	9	271	4.12	3	5	ND	1	101	.2	2	2	164	1.82	.055	4	10	.44	111	.15	7	.78	.04	.09	1	96
C 77181	1	1222	5	28	.3	7	10	302	4.53	3	5	ND	1	99	.2	2	2	165	1.73	.069	4	11	.61	46	.15	9	1.07	.04	.07	1	57
C 77182	1	1177	4	28	.4	10	15	322	5.96	2	5	ND	2	138	.2	2	2	204	1.61	.078	4	19	.74	62	.16	6	1.25	.04	.10	1	49
C 77183	1	2548	4	25	.6	9	11	261	4.85	2	5	ND	1	131	.2	2	2	160	1.74	.118	6	11	.64	43	.14	8	1.31	.04	.07	1	79
C 77184	17	2064	3	31	.3	8	12	474	5.74	2	5	ND	2	219	.2	2	2	214	3.60	.166	9	10	.92	87	.14	8	1.22	.03	.16	1	60
C 77185	1	1173	4	33	.2	9	14	372	4.74	6	5	ND	1	193	.2	2	2	167	1.98	.159	7	6	1.02	66	.15	8	1.39	.03	.09	1	133
C 77186	1	1671	4	31	.5	8	12	425	5.85	2	5	ND	1	196	.2	2	2	203	2.84	.207	9	9	1.02	43	.12	10	1.29	.03	.10	1	38
C 77187	1	1248	4	35	.3	8	11	326	4.61	4	5	ND	1	160	.2	2	2	141	1.50	.157	7	8	.85	49	.14	7	1.20	.03	.09	1	47
C 77188	1	1975	6	28	.4	9	13	346	4.18	2	5	ND	1	294	.2	2	2	149	2.29	.120	6	8	.79	51	.14	7	1.16	.03	.07	1	72
C 77189	1	1027	5	30	.3	9	13	409	6.38	2	5	ND	1	206	.2	2	2	231	2.33	.185	9	10	.83	70	.16	6	1.39	.04	.18	1	39
C 77190	7	3873	3	37	.9	10	21	424	4.79	2	5	ND	2	177	.2	2	2	194	2.44	.302	12	6	1.22	138	.18	6	1.44	.04	.53	1	380
C 77191	1	1327	4	28	.4	9	12	328	5.10	2	5	ND	1	108	.2	2	2	182	1.90	.132	6	6	.81	119	.17	5	1.40	.04	.25	1	71
C 77192	1	2110	4	35	.5	10	17	369	4.63	4	5	ND	1	185	.2	2	2	161	2.13	.144	6	8	.97	80	.16	7	1.36	.03	.19	1	126
C 77193	1	1644	4	27	.4	8	14	335	4.47	2	5	ND	1	132	.2	2	2	165	1.76	.108	5	7	.89	62	.17	6	1.31	.03	.20	1	75
C 77194	1	1451	4	39	.4	11	15	401	4.96	2	5	ND	2	123	.2	2	2	168	1.71	.182	8	13	1.18	91	.18	8	1.52	.04	.24	1	71
C 77195	1	585	4	30	.2	10	16	366	6.82	2	5	ND	2	225	.2	2	2	243	1.68	.165	8	10	.86	87	.16	5	1.31	.03	.20	1	26
STANDARD C/AU-R	18	57	40	131	7.1	72	31	1051	3.95	42	16	7	40	52	19.6	15	20	60	.45	.093	40	56	.89	189	.07	37	1.89	.06	.13	11	500

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

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700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77196	1	2652	4	33	.6	10	16	202	2.68	7	5	ND	2	58	.2	3	2	75	.49	.117	6	7	1.11	102	.15	4	1.15	.03	.52	1	110
C 77197	3	1763	3	21	.4	9	22	131	2.08	6	5	ND	3	76	.2	2	2	54	.62	.115	9	15	.55	69	.12	3	.63	.03	.23	1	120
C 77198	1	2534	4	31	.6	7	9	152	1.73	5	5	ND	2	84	.3	2	2	54	.94	.136	10	6	.53	69	.12	4	.60	.03	.19	1	95
C 77199	1	2430	2	33	.5	10	11	213	2.68	9	5	ND	2	61	.2	3	2	102	.85	.117	7	10	.89	103	.15	3	1.02	.03	.51	1	98
C 77200	1	4734	2	49	1.0	13	21	210	3.08	6	5	ND	1	143	.7	3	2	122	.69	.123	6	12	.92	112	.15	5	1.03	.04	.43	1	270
C 77201	2	2752	3	34	.7	12	19	171	2.36	8	5	ND	2	143	.4	3	2	96	.92	.160	9	19	.73	103	.14	4	.82	.04	.40	1	110
C 77202	1	5542	2	57	1.1	12	21	230	3.45	8	5	ND	2	82	.7	4	2	107	1.09	.115	7	16	.97	83	.15	6	1.01	.03	.52	1	220
C 77203	1	5608	2	54	1.2	13	22	213	3.07	13	5	ND	2	72	.8	2	2	106	.83	.167	10	15	.94	89	.16	3	1.00	.03	.52	1	250
C 77204	1	3248	3	34	.6	12	9	256	2.74	4	5	ND	1	93	.3	3	2	92	.69	.114	6	15	1.28	135	.17	4	1.29	.03	.74	1	140
C 77205	2	3245	3	33	.6	13	9	228	2.50	12	5	ND	1	97	.3	3	2	86	.77	.130	8	19	1.12	110	.14	6	1.18	.05	.61	1	130
C 77206	1	1265	3	22	.3	9	8	206	1.97	2	5	ND	2	82	.2	2	2	61	.71	.104	7	14	.90	89	.14	4	.94	.04	.46	1	67
C 77207	1	902	2	16	.2	8	8	253	2.62	6	5	ND	2	123	.2	2	2	92	1.58	.118	8	12	.80	141	.14	4	.96	.04	.40	1	40
C 77208	1	3447	2	39	.8	14	13	269	3.83	3	5	ND	2	86	.6	3	2	178	1.25	.083	6	18	1.11	97	.18	3	1.16	.03	.43	1	120
C 77209	1	3012	2	39	.6	13	10	258	3.54	4	5	ND	2	116	.4	3	2	153	.80	.129	7	25	1.12	175	.19	3	1.20	.04	.61	1	120
C 77210	1	2833	3	32	.6	12	12	221	6.44	7	5	ND	2	103	.4	3	2	224	1.03	.119	6	12	.73	96	.17	6	.79	.03	.31	1	150
C 77211	2	1379	2	24	.2	10	18	375	5.43	10	5	ND	1	190	.2	3	2	164	2.03	.148	8	10	.91	156	.17	6	1.28	.05	.57	1	61
C 77212	1	1428	2	25	.2	10	12	282	4.62	7	5	ND	1	251	.2	2	2	147	1.23	.110	6	12	.83	164	.16	5	1.21	.04	.44	1	81
C 77213	1	2153	2	31	.4	13	11	296	4.80	190	5	ND	2	71	.2	3	2	152	.92	.108	8	25	1.09	147	.16	4	1.34	.03	.46	1	120
C 77214	1	1219	2	21	.2	14	17	258	5.11	38	5	ND	2	71	.2	4	2	135	.60	.093	6	16	.91	68	.15	4	1.17	.03	.31	1	66
C 77215	1	1300	2	26	.3	12	22	275	4.82	25	5	ND	2	50	.2	3	2	144	.70	.106	7	16	1.11	105	.15	5	1.28	.03	.42	1	83
C 77216	1	1740	2	27	.3	14	31	247	3.51	11	5	ND	2	69	.2	4	2	120	1.18	.133	8	14	.95	84	.14	5	1.02	.03	.26	1	130
RE C 77212	1	1473	2	26	.4	11	12	371	4.93	5	5	ND	2	261	.2	3	2	153	1.29	.112	7	14	.87	168	.17	6	1.26	.04	.47	1	90
C 77217	2	849	2	21	.2	11	6	225	2.24	9	5	ND	2	71	.2	3	2	90	1.01	.132	7	25	.91	76	.14	3	.92	.03	.30	2	51
C 77218	1	718	2	17	.2	9	15	410	3.51	13	5	ND	2	102	.2	3	2	122	3.36	.127	10	11	1.01	131	.14	4	1.10	.04	.35	1	46
C 77219	1	1347	2	24	.4	10	10	294	3.31	2	5	ND	4	119	.2	2	2	117	1.24	.122	7	15	.97	121	.17	4	1.03	.04	.47	1	82
C 77220	3	1111	2	21	.4	8	9	301	2.48	6	5	ND	3	153	.2	2	2	88	3.33	.123	7	15	.86	83	.13	4	.93	.04	.23	1	68
C 77221	1	761	2	18	.2	14	12	294	4.41	7	5	ND	3	111	.2	2	2	149	1.53	.168	8	24	.82	72	.15	4	.92	.04	.31	1	58
C 77222	1	1710	2	25	.3	10	9	288	3.34	4	5	ND	2	88	.2	3	2	118	1.33	.110	7	17	.91	82	.17	3	.94	.04	.42	1	110
C 77223	1	1610	2	25	.4	11	9	242	2.26	2	5	ND	4	67	.2	2	2	74	.78	.107	6	16	.97	70	.17	4	.92	.04	.37	1	120
C 77224	1	2107	2	30	.4	13	8	272	3.05	6	5	ND	3	77	.2	3	2	108	1.09	.116	7	19	1.06	79	.17	5	1.04	.04	.45	1	110
C 77225	2	2662	2	35	.5	14	11	261	2.33	8	5	ND	2	82	.3	3	2	92	.78	.098	6	24	1.19	126	.21	5	1.15	.05	.60	2	150
C 77226	1	2387	2	29	.5	9	7	235	1.97	5	5	ND	3	48	.2	3	2	68	.92	.089	6	18	1.03	82	.17	3	.91	.04	.52	2	120
C 77227	1	3191	2	39	.7	13	14	285	2.97	10	5	ND	3	59	.4	2	2	109	1.13	.113	7	21	1.30	96	.19	6	1.16	.04	.54	2	220
C 77228	1	4156	2	42	.8	13	11	236	2.66	5	5	ND	[illegible]	92	.3	3	2	94	1.22	.094	6	19	.85	102	.17	4	.88	.04	.38	1	240
C 77229	2	5321	2	49	1.0	16	21	229	3.22	8	5	ND	3	62	.4	3	2	103	1.12	.084	6	31	.92	70	.17	4	.91	.04	.43	1	340
C 77230	1	6169	2	56	1.2	16	16	229	3.15	8	5	ND	3	74	.7	2	2	94	1.13	.097	8	21	.82	72	.16	5	.84	.04	.41	1	360
C 77231	1	6714	2	63	1.2	19	32	330	7.53	13	5	ND	2	67	.8	4	2	198	1.42	.110	6	18	.98	60	.17	7	1.05	.04	.37	1	470
STANDARD C/AU-R	19	64	38	133	7.1	73	32	1067	3.97	42	23	8	39	53	19.4	18	20	60	.46	.094	41	62	.89	184	.08	36	1.94	.06	.13	11	520
STANDARD C	17	57	36	131	6.8	72	32	1049	3.94	43	20	7	39	53	18.7	14	17	56	.45	.091	38	59	.91	182	.07	34	1.89	.06	.13	12	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 3 1990 **DATE REPORT MAILED:** Oct 5/90. **SIGNED BY** .... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77232	2	4754	2	34	1.0	13	15	276	2.84	2	5	ND	2	55	.7	2	2	100	1.42	.090	8	19	.79	84	.20	2	.80	.05	.45	2	150
C 77233	1	2364	2	39	.6	16	17	319	4.62	7	5	ND	1	108	.4	2	2	162	1.38	.141	7	23	1.28	113	.21	2	1.30	.06	.58	1	130
C 77234	1	2232	2	30	.7	13	19	320	6.83	4	5	ND	1	132	1.3	2	2	219	1.62	.166	8	13	1.05	110	.20	2	1.16	.05	.39	1	120
C 77235	1	2712	4	36	.9	14	21	321	4.93	2	5	ND	2	172	1.3	2	6	159	1.12	.165	8	15	1.39	157	.22	3	1.43	.05	.68	2	150
C 77236	1	1520	2	30	.5	11	14	334	4.08	2	5	ND	1	138	.9	2	6	154	1.54	.132	7	14	1.53	171	.21	2	1.49	.04	.62	1	76
C 77237	3	4052	3	47	1.0	14	20	335	3.80	5	5	ND	2	87	1.0	2	2	178	1.26	.140	8	17	1.72	138	.22	3	1.50	.04	.83	1	210
C 77238	4	5231	2	42	1.0	15	12	182	1.92	4	5	ND	2	38	.6	2	2	77	.95	.090	6	17	.90	59	.17	2	.80	.05	.35	1	250
C 77239	8	2090	6	28	.4	10	8	233	1.49	6	5	ND	3	77	.2	2	2	61	1.83	.076	8	26	.66	62	.10	2	.72	.04	.27	1	75
C 77240	2	2655	3	34	.5	10	11	245	1.87	5	5	ND	2	59	.2	2	2	82	1.50	.080	7	16	.98	60	.13	2	.84	.04	.37	1	110
RE C 77245	13	3141	2	35	.6	10	14	467	2.30	12	5	ND	3	246	.5	3	2	54	3.85	.102	11	8	1.55	185	.02	3	.69	.02	.24	1	120
C 77241	2	4033	4	33	.9	10	12	202	1.85	8	5	ND	5	44	.6	3	3	74	1.02	.078	8	16	.82	75	.12	2	.71	.03	.20	2	120
C 77242	2	1587	3	32	.4	12	10	354	2.20	3	5	ND	4	90	.5	2	2	89	2.82	.125	14	18	1.64	150	.14	2	1.22	.03	.38	1	78
C 77243	3	4622	5	51	1.0	15	15	342	2.74	8	5	ND	3	114	.9	7	2	105	2.85	.127	18	24	1.60	55	.11	2	1.29	.04	.37	1	210
C 77244	2	2797	2	37	.7	9	11	446	2.29	15	5	ND	3	130	.2	6	2	57	3.93	.096	12	10	1.19	46	.03	2	1.04	.03	.20	1	130
C 77245	12	3185	4	35	1.0	10	15	476	2.36	11	5	ND	4	250	.8	5	2	55	4.00	.105	11	9	1.60	181	.02	3	.72	.02	.25	1	100
C 77246	11	1960	2	32	.8	10	13	504	2.23	12	5	ND	3	255	.5	10	2	48	4.59	.120	20	10	1.59	186	.01	3	.74	.02	.22	1	82
C 77247	13	1566	2	22	1.0	12	18	412	2.91	97	5	ND	3	323	.8	39	2	15	3.83	.113	6	2	1.06	79	.01	10	.58	.01	.17	1	61
C 77248	2	1744	2	22	.6	12	13	357	2.38	10	5	ND	3	326	.5	3	2	27	2.54	.096	8	8	1.02	223	.01	7	.66	.03	.20	1	75
C 77249	1	1073	2	17	.7	8	9	334	1.64	5	5	ND	4	208	.4	4	2	43	2.00	.070	8	11	.84	74	.03	5	.55	.03	.19	1	44
C 77250	1	939	2	17	.4	11	11	338	2.51	2	5	ND	3	135	.2	2	2	107	2.14	.122	9	16	.81	126	.07	2	.64	.04	.18	1	50
C 77251	2	1047	2	19	.7	10	16	410	3.13	17	5	ND	2	292	.5	9	2	58	2.53	.106	9	5	1.09	116	.01	6	.56	.02	.16	1	51
C 77252	1	413	5	17	.6	11	16	350	3.35	6	5	ND	4	165	.2	4	2	91	1.59	.103	8	12	.97	84	.05	6	.82	.04	.14	1	32
C 77253	1	726	2	17	.5	8	10	338	2.42	4	5	ND	3	114	.3	2	2	77	1.95	.101	10	9	.82	73	.07	2	.82	.04	.13	1	58
C 77254	1	2957	6	31	1.4	10	12	249	2.65	7	5	ND	3	79	1.1	2	2	77	1.34	.099	8	7	.63	61	.09	2	.82	.04	.10	1	220
C 77255	1	353	3	11	.4	12	9	237	2.19	7	5	ND	3	109	.2	2	2	66	1.62	.092	7	6	.57	34	.09	3	.83	.04	.09	1	30
C 77256	1	1036	5	16	.7	9	11	272	3.16	4	5	ND	3	105	.4	3	2	98	2.05	.113	8	6	.58	31	.10	2	.85	.04	.09	1	120
C 77257	3	238	2	13	.4	8	10	233	2.18	6	5	ND	2	86	.2	2	2	69	1.51	.101	8	6	.61	43	.10	2	.86	.04	.10	1	19
C 77258	1	1921	5	26	.8	17	16	254	2.69	5	5	ND	3	74	.6	2	2	92	1.11	.118	8	23	.84	57	.13	4	.92	.04	.23	1	99
C 77259	2	740	2	15	.7	11	6	206	1.52	3	5	ND	4	81	.3	3	2	53	.98	.126	8	23	.71	63	.13	2	.72	.04	.19	1	39
C 77260	2	701	4	16	.7	9	8	209	1.92	6	5	ND	4	80	.3	3	2	73	1.09	.090	8	20	.65	66	.15	2	.72	.04	.23	1	40
C 77261	1	628	6	13	.5	11	8	199	1.81	4	5	ND	6	59	.5	2	2	85	1.20	.093	8	21	.55	70	.17	2	.58	.04	.25	2	48
C 77262	10	1998	2	24	.7	12	9	181	1.55	10	5	ND	5	67	.6	2	3	76	.71	.071	7	25	.64	57	.16	2	.62	.03	.25	1	100
C 77263	1	855	5	20	.6	14	10	232	3.75	4	5	ND	3	90	.6	3	3	149	.90	.100	6	30	.82	76	.19	2	.83	.05	.48	1	52
C 77264	2	984	10	20	.5	16	9	286	2.15	5	5	ND	3	74	.2	4	2	106	1.75	.108	8	32	.95	47	.16	2	.97	.05	.40	1	49
C 77265	1	2292	2	31	.8	17	19	316	4.30	10	6	ND	2	198	.9	2	6	149	1.00	.138	8	25	1.18	114	.19	2	1.24	.05	.70	2	100
C 77266	1	3247	2	44	1.2	22	24	458	8.42	9	5	ND	2	130	1.9	2	2	270	1.64	.161	8	22	1.67	134	.21	2	1.73	.05	1.15	1	220
C 77267	1	818	2	19	.3	11	16	221	3.16	3	5	ND	1	71	.5	2	4	112	.85	.096	7	8	.75	30	.11	2	.94	.04	.16	1	67
STANDARD C/AU-R	19	62	39	128	7.3	73	32	1009	3.87	43	24	7	39	56	18.2	16	23	57	.46	.095	39	61	.86	184	.08	34	1.85	.06	.13	11	520
STANDARD C	19	62	41	134	7.3	73	32	1054	3.96	43	16	7	39	52	19.2	14	20	58	.46	.097	40	61	.90	182	.07	34	1.89	.06	.14	11	-

BP Resources Canada Ltd. PROJECT 10144 FILE # 90-5018

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77268	1	2229	2	42	.8	26	23	445	5.88	16	5	ND	2	221	.3	2	2	236	.79	.144	8	24	2.08	157	.21	2	2.02	.04	1.09	1	110
C 77269	6	472	4	10	.1	9	6	148	1.10	7	5	ND	2	86	.2	2	2	42	.96	.045	6	11	.42	37	.09	2	.53	.03	.12	1	23
C 77270	1	1042	2	27	.4	21	23	344	4.13	9	5	ND	2	114	.2	2	2	172	.76	.110	6	23	1.51	105	.21	3	1.48	.05	.94	1	72
C 77271	1	587	2	21	.3	16	9	292	3.98	10	5	ND	3	82	.2	2	2	159	.73	.095	7	16	1.19	66	.16	3	1.24	.04	.56	1	39
C 77272	1	1034	3	20	.5	13	9	209	3.20	2	5	ND	3	67	.2	2	2	154	.64	.092	6	22	.80	54	.17	2	.86	.04	.34	1	65
C 77273	20	1581	3	24	.6	14	33	207	3.47	15	5	ND	3	93	.2	6	2	125	1.14	.089	13	23	.78	75	.16	2	.86	.04	.34	1	99
C 77274	1	827	2	15	.1	10	5	194	1.59	3	5	ND	4	50	.2	2	2	96	1.25	.096	8	23	.80	46	.16	2	.75	.04	.21	1	100
C 77275	2	1465	2	18	.3	13	7	178	1.43	2	5	ND	3	52	.2	2	2	86	.83	.103	8	26	.74	65	.16	4	.70	.05	.37	1	81
C 77276	1	1088	2	17	.3	12	6	227	1.66	2	5	ND	3	81	.2	2	2	103	.86	.095	7	23	.86	72	.19	2	.77	.05	.46	1	92
C 77277	7	1927	3	23	.3	17	8	198	1.77	7	5	ND	2	47	.2	2	2	95	.75	.095	7	23	.79	55	.19	2	.73	.05	.35	1	93
C 77278	3	1780	2	20	.4	15	10	201	1.63	2	5	ND	3	51	.2	2	2	85	1.10	.091	8	20	.75	47	.17	3	.69	.04	.36	1	97
C 77279	5	1915	4	20	.4	15	7	221	1.62	2	5	ND	3	45	.2	2	2	106	1.09	.095	7	22	.81	56	.17	2	.70	.04	.47	1	99
C 77280	1	1069	3	14	.2	11	5	211	1.51	7	5	ND	4	52	.2	2	2	96	1.01	.094	8	22	.58	48	.16	5	.59	.05	.25	1	45
C 77281	2	1075	4	13	.3	9	4	139	.96	3	5	ND	3	43	.2	2	2	58	1.13	.097	8	21	.49	37	.14	2	.44	.04	.23	1	31
C 77282	2	1733	2	21	.6	12	8	192	1.67	7	5	ND	4	53	.2	3	2	103	1.24	.090	8	20	.81	44	.18	4	.71	.04	.28	1	100
RE C 77286	8	1921	2	24	.3	15	11	255	2.28	2	5	ND	3	56	.2	2	2	125	1.10	.094	6	23	1.19	83	.20	2	1.06	.05	.81	1	80
C 77283	1	3928	2	34	.8	17	13	339	3.54	2	5	ND	2	68	.3	3	2	152	1.17	.120	8	18	1.38	101	.21	4	1.29	.06	.84	1	170
C 77284	6	1508	2	18	.4	14	8	349	1.83	2	5	ND	3	49	.2	2	2	97	1.30	.089	7	23	.81	62	.19	4	.73	.05	.54	1	79
C 77285	2	5718	2	42	1.0	24	22	337	4.89	2	5	ND	2	81	.4	2	2	186	1.39	.118	7	21	1.36	89	.20	2	1.35	.05	.80	1	260
C 77286	7	1890	2	24	.3	15	11	252	2.24	3	5	ND	4	56	.2	3	2	124	1.10	.093	6	22	1.18	83	.20	2	1.04	.05	.81	1	93
C 77287	8	1630	2	21	.3	15	10	230	1.71	2	5	ND	3	55	.2	2	2	89	1.28	.098	7	20	.90	55	.17	4	.81	.04	.50	1	80
C 77288	2	1220	2	17	.1	14	6	156	1.46	5	5	ND	3	39	.2	2	2	72	.78	.110	8	23	.72	40	.15	2	.69	.05	.23	1	96
C 77289	6	5175	2	42	1.0	22	17	274	3.54	7	5	ND	4	53	.5	3	2	179	1.17	.116	8	52	1.29	51	.18	2	1.15	.04	.49	1	240
C 77290	4	2367	2	22	.3	17	9	187	1.72	5	5	ND	3	36	.2	2	2	97	.66	.103	7	24	1.01	57	.18	5	.87	.04	.47	1	120
C 77291	3	694	2	13	.1	13	7	171	1.35	4	5	ND	3	37	.2	2	2	77	.67	.099	7	22	.86	50	.17	2	.75	.04	.39	1	39
C 77292	3	1028	2	16	.1	14	8	207	1.52	3	5	ND	3	47	.2	2	2	92	1.02	.092	7	23	1.09	67	.19	2	.90	.05	.67	1	50
C 77293	2	2743	2	23	.4	19	12	206	2.16	6	5	ND	2	47	.2	2	2	120	.72	.098	7	21	1.15	56	.18	3	1.01	.05	.58	1	130
C 77294	1	2316	2	25	.4	12	11	238	3.03	2	5	ND	2	64	.2	2	2	158	.58	.090	6	7	1.30	82	.19	2	1.30	.05	.60	1	130
C 77295	2	2696	2	29	.5	14	14	260	3.76	2	5	ND	2	68	.2	3	2	183	.56	.103	6	7	1.50	129	.22	2	1.58	.05	.97	1	160
C 77296	3	1244	2	20	.2	15	10	250	2.94	2	5	ND	3	50	.2	2	2	185	.55	.105	5	9	1.41	95	.21	3	1.34	.04	.79	1	72
C 77297	1	2814	2	28	.4	18	15	248	4.42	2	5	ND	2	78	.2	2	2	229	.59	.125	7	16	1.35	96	.20	2	1.32	.04	.87	1	210
C 77298	1	3943	2	35	.8	23	20	309	4.71	9	5	ND	2	164	.3	2	2	225	.74	.115	6	21	1.69	152	.24	2	1.68	.06	1.19	1	260
C 77299	1	2426	2	29	.5	19	17	368	4.86	2	5	ND	2	199	.2	2	2	196	1.69	.140	8	22	1.67	118	.22	2	1.85	.05	.92	1	150
STANDARD C/AU-R	19	62	37	136	7.1	75	32	1065	4.05	42	22	8	42	53	19.1	15	18	62	.48	.097	41	61	.92	193	.08	34	1.94	.06	.15	13	490
STANDARD C	19	60	38	132	7.3	73	31	1054	3.98	44	21	7	40	53	19.0	15	19	60	.46	.098	41	61	.90	191	.08	34	1.90	.07	.14	11	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

CHUCHI

BP Resources Canada Ltd. PROJECT 10144 File # 90-5202

700 - 890 W. Pender St., Vancouver BC V6B 4W3 Submitted by: R. WONG

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77300	11	237	2	14	.2	16	9	62	2.38	8	5	ND	3	30	.5	2	8	96	.46	.079	6	20	.91	34	.19	3	1.24	.06	.22	1	8
C 77301	3	667	5	12	.1	15	23	102	3.29	4	5	ND	[illegible]	68	.2	2	2	81	1.10	.188	7	9	.77	19	.16	2	1.24	.07	.13	1	7
C 77302	23	367	3	12	.1	16	11	124	2.07	4	5	ND	2	32	.5	2	2	104	.56	.108	7	17	.78	37	.18	3	.92	.08	.27	1	7
C 77303	6	251	10	51	.1	15	28	728	5.44	11	5	ND	1	181	2.0	2	2	149	1.52	.201	7	9	1.71	91	.22	2	2.36	.08	1.04	1	3
C 77304	48	576	4	18	.1	8	18	278	3.50	5	5	ND	1	84	.5	2	2	102	1.88	.140	7	7	.79	29	.16	2	1.21	.06	.19	1	16
C 77305	1	517	6	18	.3	11	11	204	3.65	4	5	ND	2	99	.7	3	2	109	1.71	.142	9	13	.84	33	.17	4	1.31	.06	.14	1	11
C 77306	1	609	5	17	.1	12	15	177	3.84	2	5	ND	1	99	.8	2	2	81	1.59	.142	9	9	.84	21	.15	5	1.30	.06	.08	1	21
C 77307	18	530	3	12	.1	14	16	133	3.32	2	5	ND	1	77	.7	2	2	91	1.02	.122	11	14	.93	37	.17	2	1.20	.07	.19	1	19
C 77308	9	246	7	10	.1	13	11	100	2.15	5	5	ND	1	125	.7	2	3	85	1.06	.093	8	13	.86	50	.15	2	1.16	.08	.24	1	7
C 77309	18	477	2	12	.2	19	16	130	2.64	11	5	ND	2	141	.4	3	2	87	2.48	.087	7	14	.91	48	.11	2	1.28	.08	.24	1	16
C 77310	17	431	3	13	.1	13	14	122	2.66	9	5	ND	2	84	.9	2	2	106	1.12	.087	6	15	1.01	41	.15	2	1.13	.08	.22	1	8
C 77311	15	412	2	12	.3	16	17	139	3.06	20	5	ND	2	237	.8	2	2	95	1.19	.091	7	17	1.00	76	.14	3	1.44	.07	.19	1	6
C 77312	64	516	5	15	.1	11	13	150	2.55	28	5	ND	2	148	.3	2	2	83	2.27	.087	10	15	.96	47	.07	2	1.21	.06	.22	1	27
C 77313	16	250	9	12	.4	16	15	154	2.87	12	5	ND	3	116	.9	2	2	106	1.08	.099	7	24	1.17	59	.17	3	1.78	.12	.28	1	4
C 77314	7	304	4	13	.3	20	18	139	3.25	7	5	ND	1	171	.5	2	2	104	1.05	.091	6	18	1.20	61	.17	2	1.68	.09	.35	1	7
C 77315	8	271	6	10	.1	17	15	114	2.66	2	5	ND	1	107	.7	2	2	111	.91	.090	6	20	1.16	55	.18	2	1.45	.09	.38	1	6
C 77316	17	316	8	12	.1	11	16	129	2.24	5	5	ND	2	82	.5	2	4	106	1.13	.093	6	15	1.17	34	.16	2	1.68	.08	.29	1	14
C 77317	59	782	5	14	.7	19	29	137	3.13	19	5	ND	2	175	.9	2	2	100	1.46	.096	6	18	1.18	37	.13	2	1.73	.09	.20	1	23
C 77318	17	366	6	12	.1	11	12	131	2.02	3	5	ND	1	167	.4	2	2	91	3.59	.086	6	15	1.03	38	.12	2	2.47	.13	.18	2	20
C 77319	14	536	8	14	.3	18	25	143	3.26	23	5	ND	1	222	1.3	2	4	86	2.26	.093	7	19	1.11	48	.15	2	3.11	.18	.26	1	8
C 77320	68	271	8	12	.1	10	16	151	2.30	40	5	ND	1	93	.8	2	2	93	2.00	.081	6	17	1.08	27	.15	2	2.76	.17	.20	1	9
C 77321	17	236	8	13	.4	13	13	157	2.15	15	5	ND	1	146	.8	3	4	105	1.13	.087	6	19	1.22	43	.16	2	1.92	.11	.26	1	6
C 77322	25	213	5	13	.3	10	11	154	2.09	5	5	ND	2	164	.9	2	2	125	.91	.098	7	23	1.34	63	.21	3	1.65	.09	.50	1	5
C 77323	14	1278	7	33	1.4	16	37	220	5.03	19	5	ND	1	94	1.3	2	2	101	1.80	.163	8	12	1.36	9	.15	2	1.54	.06	.07	1	31
C 77324	18	1436	4	26	1.1	16	39	171	4.58	5	5	ND	1	95	1.1	2	2	84	1.60	.153	9	8	.92	24	.15	2	1.36	.07	.12	1	40
C 77325	19	373	7	16	.3	17	17	159	2.64	7	5	ND	3	200	.7	2	2	131	.90	.089	6	22	1.48	99	.20	2	1.79	.11	.61	1	11
C 77326	35	712	6	15	.6	16	14	163	2.39	10	7	ND	2	323	.6	2	2	116	1.16	.092	6	23	1.42	133	.19	2	1.85	.09	.39	1	39
C 77327	56	1053	8	13	.1	16	39	126	3.50	5	5	ND	1	169	.7	2	2	68	1.41	.108	7	20	.89	48	.14	2	1.28	.09	.11	1	43
C 77328	9	665	4	7	.3	7	17	79	1.63	9	5	ND	1	69	.3	2	3	28	1.02	.070	8	4	.25	35	.08	7	.44	.06	.09	1	11
C 77329	27	590	4	7	.2	5	11	75	1.31	5	5	ND	1	75	.2	2	2	34	.84	.069	8	4	.24	40	.08	4	.52	.05	.09	1	25
C 77330	32	613	2	10	.2	5	9	93	1.39	11	5	ND	1	99	.5	2	2	37	.91	.070	8	3	.30	59	.08	2	.55	.06	.10	1	28
C 77331	7	379	8	8	.3	5	8	83	1.35	6	5	ND	2	73	.4	2	2	35	.82	.071	7	5	.33	50	.08	6	.58	.06	.10	1	22
RE C 77327	56	1066	6	13	.5	20	40	133	3.58	9	5	ND	1	173	.6	2	2	70	1.46	.117	7	20	.94	51	.14	2	1.30	.09	.11	1	37
C 77332	9	450	2	12	.3	3	6	133	1.85	7	5	ND	2	60	.4	2	2	46	1.01	.070	7	3	.49	39	.06	4	.73	.05	.11	1	20
C 77333	8	698	4	13	.3	4	10	132	1.84	5	5	ND	1	60	.4	2	2	53	1.03	.067	8	4	.62	48	.06	3	.70	.05	.11	1	25
C 77334	4	678	6	17	.7	1	12	131	2.07	25	5	ND	1	56	.4	2	2	48	1.21	.067	8	3	.66	44	.04	2	.78	.06	.12	1	23
C 77335	6	516	5	13	.2	5	14	128	1.97	19	5	ND	1	57	.3	2	2	55	1.12	.070	8	6	.56	44	.04	3	.70	.04	.08	2	23
STANDARD C/AU-R	20	56	42	134	7.5	73	32	1020	3.89	43	18	8	42	55	19.9	18	21	58	.44	.098	40	58	.86	170	.08	31	1.85	.06	.14	12	530
STANDARD C	19	60	41	133	7.1	72	32	1051	3.95	43	20	7	39	52	19.0	15	20	58	.45	.098	39	57	.89	175	.08	35	1.88	.06	.13	11	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 TO P2 CORE P3 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 11 1990 DATE REPORT MAILED: Oct 17/90. SIGNED BY. D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

BP Resources Canada Ltd. PROJECT 10144 FILE # 90-5202

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
C 77336	13	680	2	16	.8	7	9	100	1.86	21	5	ND	2	63	.3	2	3	51	1.34	.060	8	6	.72	36	.02	2	.99	.04	.09	1	31
C 77337	16	529	4	16	.9	11	7	221	2.09	15	5	ND	2	101	.4	3	2	59	2.62	.070	11	5	.89	274	.01	2	1.57	.03	.09	1	25
C 77338	1	209	2	8	.1	10	10	196	3.06	2	5	ND	1	318	.5	2	2	107	2.44	.147	7	6	.90	35	.14	2	1.47	.04	.06	1	21
C 77339	1	499	2	11	.3	13	11	194	3.01	2	5	ND	1	202	.5	2	5	105	1.95	.144	8	10	.91	57	.17	5	1.53	.04	.07	1	42
C 77340	2	585	2	10	.1	13	16	150	2.96	3	5	ND	1	122	.5	2	2	119	1.32	.129	7	16	.94	52	.19	4	1.31	.05	.09	1	31
C 77341	11	970	2	10	.2	18	19	170	3.33	2	5	ND	1	149	.7	2	4	150	1.33	.130	7	22	1.21	100	.25	2	1.69	.09	.26	1	58
C 77342	30	1409	2	10	.3	23	27	127	2.68	5	5	ND	1	125	.8	2	2	123	1.21	.099	6	28	1.06	55	.23	2	1.45	.06	.18	1	110
C 77343	16	410	2	9	.1	26	21	121	3.06	2	5	ND	1	81	.6	2	4	148	.87	.090	6	31	1.17	64	.24	2	1.45	.11	.26	1	22
C 77344	20	1145	2	10	.2	24	17	113	2.35	5	5	ND	1	86	.6	2	7	138	.96	.092	7	26	1.01	38	.22	2	1.29	.10	.16	1	61
C 77345	12	739	2	8	.1	17	14	131	2.29	4	5	ND	1	105	.9	2	2	120	1.48	.094	6	25	.98	36	.22	2	1.52	.05	.13	1	72
C 77346	7	648	2	10	.1	13	12	109	1.80	3	5	ND	1	134	.4	2	6	103	1.17	.089	6	19	.89	37	.18	2	1.62	.06	.19	1	47
C 77347	13	1642	2	16	.7	18	16	134	2.36	5	5	ND	3	86	.6	4	4	112	.92	.090	5	24	1.20	49	.21	2	1.45	.05	.24	1	110
C 77348	7	720	2	9	.4	14	16	111	2.38	3	5	ND	1	85	.4	2	3	97	1.16	.112	7	12	.81	54	.17	2	1.27	.08	.21	1	65
C 77349	4	1135	2	14	.3	19	19	136	2.42	4	5	ND	1	73	.6	2	6	98	.99	.118	8	15	.96	41	.20	2	1.21	.10	.17	1	88
C 77350	9	1328	2	13	.1	23	12	92	1.53	2	5	ND	1	60	.4	2	5	72	.68	.086	7	17	.68	32	.17	2	.81	.12	.11	1	81
C 77351	1	1284	2	12	.2	7	9	91	1.65	4	5	ND	1	67	.4	2	6	54	1.10	.078	6	5	.44	36	.09	2	.73	.05	.09	1	110
C 77352	3	2434	2	24	.8	16	20	142	2.92	5	5	ND	2	61	.5	3	8	86	1.15	.132	7	10	.90	30	.14	2	1.25	.07	.10	1	260
C 77353	3	824	4	9	.4	6	11	76	1.64	8	5	ND	3	65	.2	2	2	39	.79	.070	6	4	.33	34	.07	2	.56	.06	.09	1	130
C 77354	2	848	6	8	.3	8	8	78	1.35	2	5	ND	1	88	.3	2	10	47	.88	.071	6	5	.37	42	.08	2	.69	.07	.11	1	100
C 77355	2	458	3	6	.3	5	8	78	1.48	3	5	ND	2	79	.4	2	2	40	.78	.072	7	3	.33	34	.08	4	.58	.06	.09	1	75
C 77356	27	411	2	6	.1	7	6	114	1.49	3	5	ND	1	119	.2	2	7	39	1.32	.066	7	6	.40	32	.07	2	.62	.05	.09	1	110
RE C 77352	3	2596	2	25	.5	13	21	148	3.00	7	5	ND	1	62	.8	2	2	88	1.15	.136	7	11	.92	30	.14	2	1.28	.07	.10	1	240
C 77357	6	322	2	6	.1	6	7	80	1.85	2	5	ND	2	121	.4	2	3	52	.87	.072	7	7	.32	40	.08	2	.84	.07	.10	1	43
C 77358	10	267	6	7	.2	8	6	79	1.35	3	5	ND	3	89	.2	2	2	46	.77	.070	8	8	.36	32	.08	3	.76	.06	.08	1	29
C 77359	4	303	2	6	.3	6	8	95	1.83	2	5	ND	2	100	.2	2	2	48	.87	.069	7	4	.29	38	.08	2	.70	.07	.09	1	74
C 77360	21	578	6	7	.2	7	8	75	1.36	2	5	ND	1	70	.3	2	3	36	.80	.066	6	7	.29	32	.07	2	.61	.05	.09	1	110
STANDARD C/AU-R	19	55	39	123	7.1	73	32	1021	3.92	38	17	8	40	55	18.8	19	17	57	.46	.097	38	56	.85	162	.08	31	1.82	.06	.14	11	520
STANDARD C	20	58	42	133	7.1	72	32	1053	3.96	45	18	8	40	52	19.2	15	24	59	.46	.098	39	60	.90	179	.08	34	1.89	.06	.13	13	-

BP Resources Canada Ltd. PROJECT 10144 FILE # 90-5202

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
113085	1	6	2	12	.1	6	9	827	2.96	4	5	ND	1	226	.5	2	5	118	3.47	.079	4	9	.10	11	.14	2	1.10	.03	.01	1	5
113086	2	92	6	58	1.4	15	11	378	2.43	3	5	ND	1	36	.5	2	3	45	1.12	.071	6	17	.71	110	.13	2	1.71	.06	.15	1	38
113087	24	195	3	12	.1	4	5	78	2.85	35	5	ND	3	20	.2	2	2	52	.34	.118	7	2	.14	80	.17	2	.53	.07	.11	2	5

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 6 1990
DATE REPORT MAILED: Nov. 16/90.

ASSAY CERTIFICATE

BP Resources Canada Ltd. PROJECT 10154 FILE # 90-4952R

SAMPLE#	Au** oz/t
C 81323	.005
C 81324	.110
C 81325	.033
C 81326	.260

AU** BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: CORE PULP

SIGNED BY. C.L. D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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DATE RECEIVED: NOV 6 1990
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BP Resources Canada Ltd. PROJECT 10154 FILE # 90-4952R

SAMPLE#	Au** oz/t
C 81323	.005
C 81324	.110
C 81325	.033
C 81326	.260

AU** BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: CORE PULP

SIGNED BY C.L. D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VAN IVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(o04)253-1716

DATE RECEIVED: JUL 17 1990
DATE REPORT MAILED: July.24/90

ASSAY CERTIFICATE

BP Resources Canada Ltd. PROJECT 540 LOC 10144 FILE # 90-2282R
700 - 890 W. Pender St., Vancouver BC

SAMPLE#	Au** oz/t
A 51307	.008
A 51308	.018
A 51309	.013
A 51310	.006
A 51311	.004
A 51312	.006
A 51313	.014
A 51314	.024

AU** BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: Core Pulp

SIGNED BY.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS