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FREEMONT GROUP

DIAMOND DRILLING REPORT
(A92-1)

Omineca Mining Division

British Columbia

GEOLOGICAL BRANCH ASSESSMENT REPORT

22,322

Anthony L'Orsa, F.G.A.C.

Smithers, B.C.

14 May 1992

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SUMMARY

A diamond drill hole, 198.12 m in length, intersected an IP anomaly generated by graphitic sediments of what is thought to be the Nilkitkwa Formation. Anomalous amounts of gold, silver, and copper were recovered from graphitic shear zones in the sedimentary rocks.

INTRODUCTION

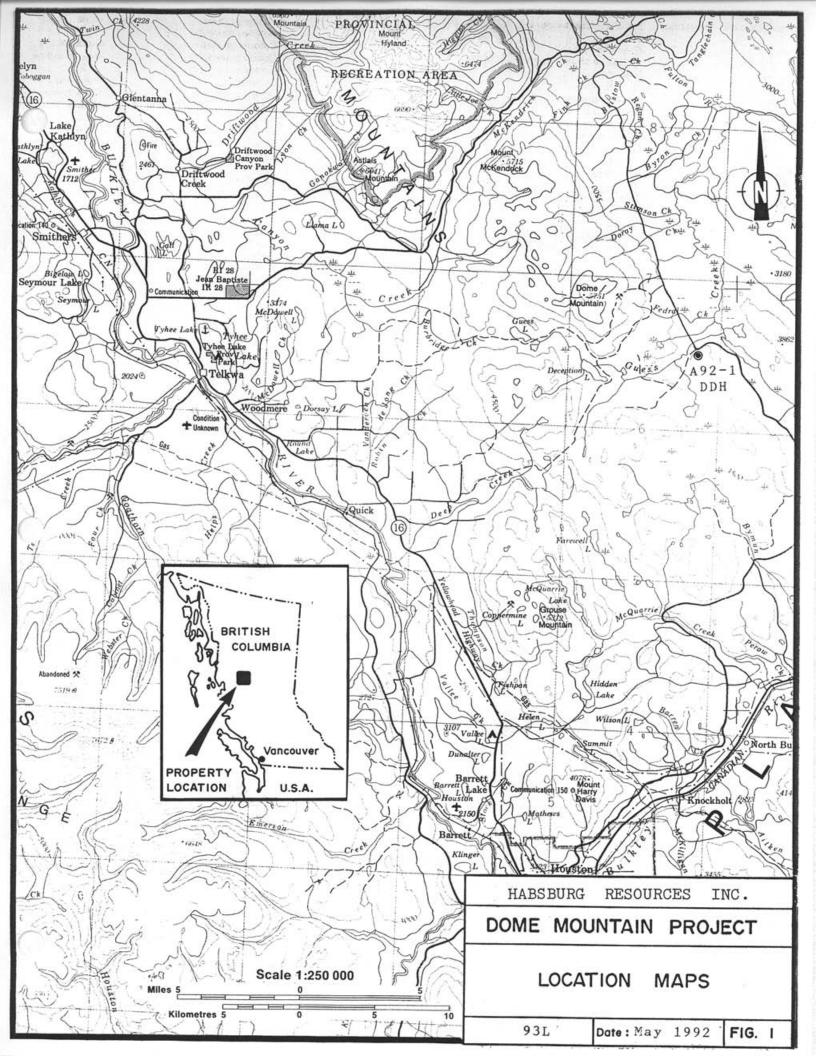
A diamond drill hole (A92-1), 198.12 m (650 ft) in length, was drilled on the April 2 mineral claim to test an IP anomaly (Scott, 1989) in an overburden covered area. The contractor was J.T. Thomas Diamond Drilling Ltd of Smithers, B.C. An Acker drill was used, and the core size is NQ. Water for drilling was obtained from Guess Creek. The core is stored in Smithers by Timmins Nickel Inc. Geochemical analyses were done by Min-En Laboratories of North Vancouver, B.C.

LOCATION AND ACCESS

The drill hole is in a logged area approximately 39 km east-southeast of Smithers, at about 54° 42' 40" north latitude and 126° 32' 45" west longitude, map area 93L/10, at an elevation of about 1037 m. The Chapman Lake Forest Road provides excellent access all year, from either Smithers or Houston, to the Deception Lake Road that passes about 100 m northwest of the drill site. The locality is generally free of snow from mid May until late October.

PHYSIOGRAPHY AND VEGETATION

The area is one of moderate relief, cut by the shallow valley of Guess Creek which is a major northeasterly-flowing stream. Stands of alpine fir and spruce are common here, although clearcut logging has been extensive.



CLAIMS AND OWNERSHIP

The Freemont group comprises the following mineral claims:

Claim		Units	Tenure No.
April	1	12	238781
April	2	16	238782
April	3	2	238783
Chris		20	238776
Fort		8	238784
Mag	1	16	238775
0phir		15	238785
Oro		10	238786

Habsburg Resources Inc. (formerly Teeshin Resources Ltd), 1075 North Service Road West, Unit 16, Oakville, Ontario, L6M 2G2, is the recorded holder of the claims, subject to several agreements.

PREVIOUS WORK

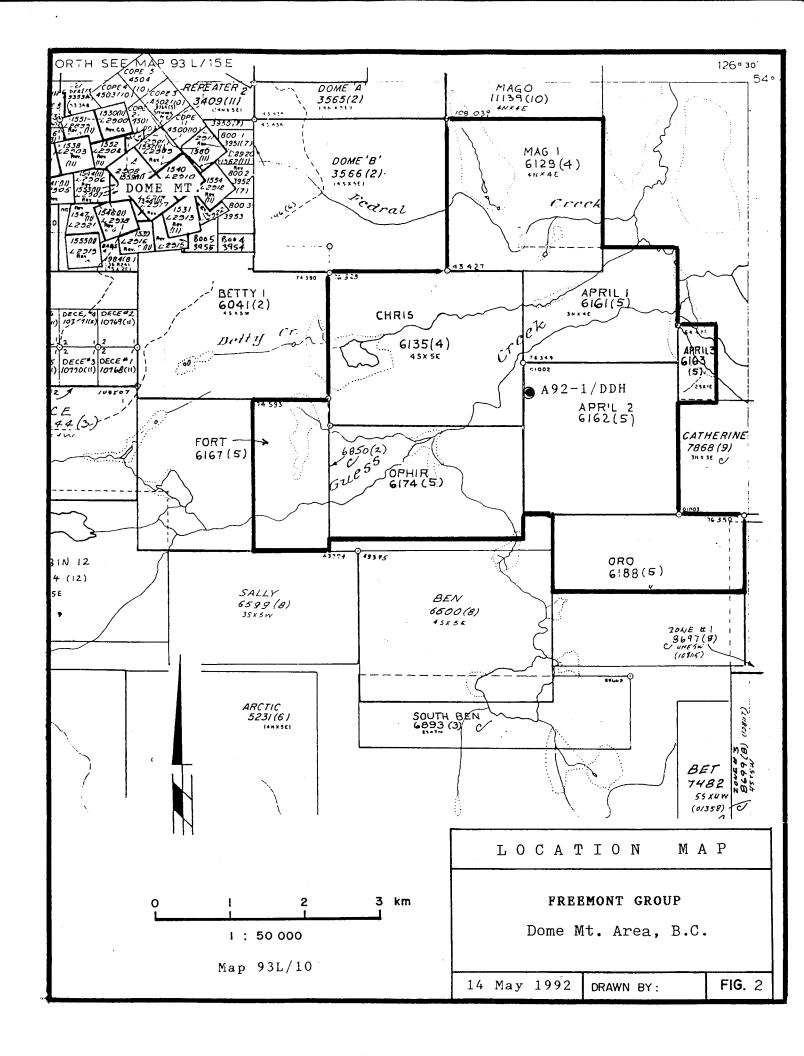
Mineral exploration work completed on the Freemont group includes limited prospecting, soil and silt sampling, line cutting, trenching, diamond drilling (L'Orsa, 1991; Price, 1987), and both aerial and ground geophysical surveys (Scott, 1989; Sheldrake, 1985).

GEOLOGY

The claims lie on the Skeena Arch, near the southern edge of the Bowser Basin. The area has been described by Tipper and Richards (1976), and mapped by Tipper (1976) who shows Quaternary alluvium at the drill site. Rocks in the general area have been assigned to the Lower Jurassic formations of the Hazelton Group. These formations have been intruded locally by granitic to dioritic rocks, and by northwest-striking plagioclase porphyry dykes. Small occurrences of base and precious metals have been found in volcanic and intrusive rocks on the claims (Price, 1987).

DISCUSSION

A unit of sheared, graphitic, sedimentary rocks was encountered in this drill hole under about 23 m of glacial till. A boulder of coarse-grained pinkish granite was intersected near the base of the till. Bedrock drilling revealed mainly dark grey to black siltstones with lesser amounts of volcanic sandstone and a very small amount of conglomerate. Small, fault-controlled quartz and calcite veins are locally common, and very small amounts of pyrite and chalcopyrite were found associated with those veins. Analyses of vein material revealed locally anomalous amounts of gold (up to 112ppb), silver (up to 2.4 ppm) and copper (up to 289 ppm).



The rocks recovered from drill hole A92-1 appear to belong to the same sedimentary unit found below felsic volcanic rocks in drill hole C89-1 some 700 m to the northwest, across Guess Creek (L'Orsa, 1989). However, belemnoid-bearing volcanic sandstones that outcrop about 1200 m southwest of A92-1 contain clasts derived from hematitic volcanic rocks of a type not represented in the rocks found in the diamond drill holes (L'Orsa, 1985).

CONCLUSIONS

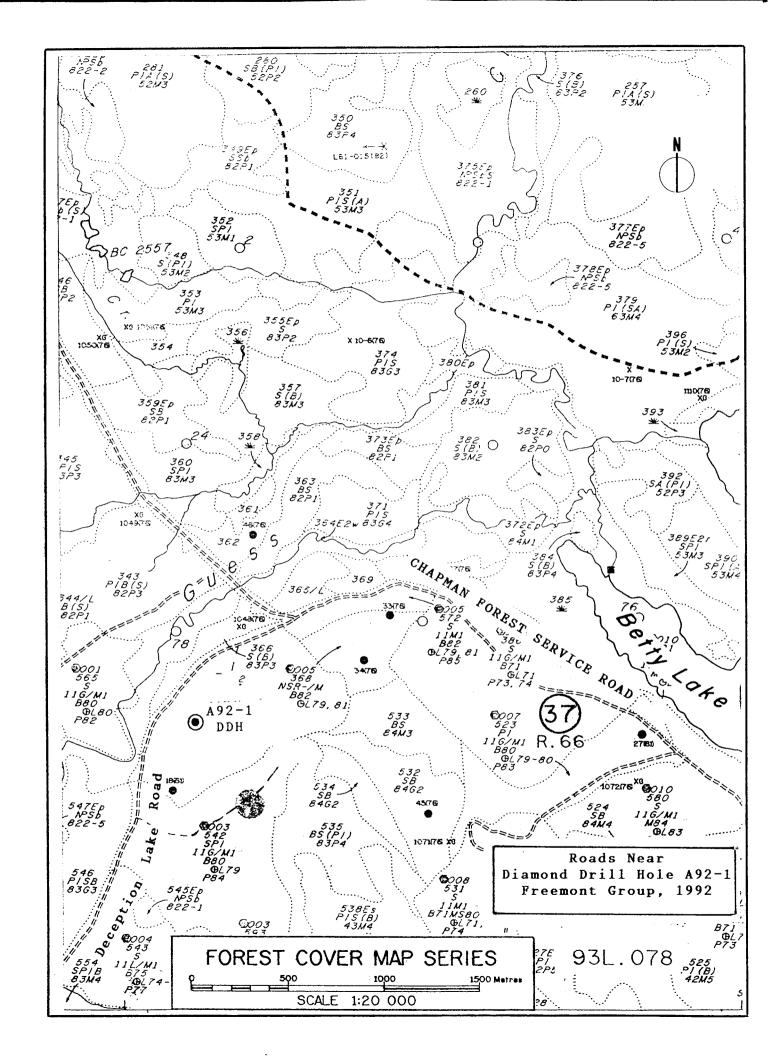
The IP anomaly was generated by graphite in sheared sedimentary rocks of the Nilkitkwa Formation.

A boulder, found near the base of the till, that appears to have been derived from the Topley intrusions suggests an early episode of glacial ice movement from a southerly or easterly direction.

The rocks discovered in this drill hole are of the same rock unit drilled in hole C89-1 north of Guess Creek, but they are probably older than belemnoid-bearing rocks that outcrop to the southwest of A92-1.

SELECTED REFERENCES

- L'Orsa, A., 1991, Freemont Group, Omineca Mining Division, British Columbia, diamond drilling report: Report for Habsburg Resources Inc., 4 p. plus appendices.
- _____1989, Chris group, Omineca Mining Division, British
 Columbia, diamond drilling report: Assessment Report 18910,
 7 p. plus appendices.
- _____ 1985, Ophir mineral claim, prospecting report:
 Assessment Report 13638, 10 p. plus appendix.
- Price, B., 1987, Dome Mountain gold property (April, Chris, Mag, Fort, Ophir, Sally, Ben, West Dome claims): Report for Freemont Gold Corp., 25 p.
- Scott, A., 1989, Geophysical report, induced polarization/ resistivity surveys, Dome Mountain property, Smithers area, Chris, April 1, April 2, April 3, and Mag 1 claims ...: Assessment Report 19923, 16 p.
- Sheldrake, R.F., 1985, Report on a helicopter-borne multifrequency electromagnetic and magnetometer survey in the Dome Mountain area, British Columbia: Assessment Report 13707, 41 p.
- Tipper, H.W., 1976, Smithers map area, British Columbia: Geol. Survey of Canada, O.F. 351 (geological map).



Tipper, H.W., and Richards, T.A., 1976, Jurassic stratigraphy and history of north-central British Columbia: Geol. Survey of Canada, Bull. 270, 73 p.

STATEMENT OF COSTS

DIAMOND DRI	LLING: 198.12 m (all included)	\$12,583.20
GEOLOGIST:	A. L'Orsa, supervision and report.	2,462.50
ANALYSES:	8 x 31 el. ICP and 8 Au, fire, AA.	145.52
VEHICLE:	Truck rental	118.34
		\$15,309.56

STATEMENT OF QUALIFICATIONS

- I, Anthony T. L'Orsa of Smithers, British Columbia, hereby certify that:
- I am a geologist with business address at Adams Road, R.R. 2, Smithers, B.C., VOJ 2NO.
- 2. I am a graduate of Tulane University, New Orleans, Louisiana, U.S.A., with the degrees of Bachelor of Science (1961) and Master of Science (1964) in geology.
- 3. I have practised my profession in mineral exploration since 1962 in western Canada, Australia and Mexico.
- 4. I am a fellow in good standing of the Geological Association of Canada, and a member of the Society for Geology Applied to Mineral Deposits.

Anthony L'Orsa

APPENDIX 1

Diamond Drill Logs

NAME OF	PROPERTY	APRIL	. 2 M	.C., F1	CEHO	NT G	22
HOLE NO.	A92-1	1	ENGTH _	198.12 M	(650	(+)	
LOCATION	± 780 M	SW 4 0	Chapman	Road - D	eception	Road jun	<u>e + ou</u>
LATITUDE			EPARTUR	E			
ELEVATION	± 1037	<u> </u>	ZIMUTH_	East	DIP	- 45°	
CTARTED	17 Feb	1992 -	INTERED	20 Feb.	1992		

METRES	DIP	AZIMUTH	METRES	DIP	AZIMUTH

HOLE NO. <u>492-1</u> SHEET NO. <u>1/6</u> REMARKS _____

LOGGED BY A. L'ORSA

MET	RES	DESCRIPTION			SAMP	LE			^	SSAY	s	
FROM	то	5 L 3 C K 1 1 1 0 W	NO.	SULPH- IDES	FROM	TRES TO	TOTAL	%	%	OZ/TON	OZ/TON	
0	33.53	CASING, pulled. Drilled Herough a boulder of pail granite										
33.53	1	SILTSTONE. Hedium dark gray to + black.										
		Tuchedes graphitic lower. Locally & 0.1% dispy										
	,	Interbedded VOLCANIC SANDETONE, fine to										
		very coars - grained; generally angular, dark										
		gray to medium dark gray (GSA Rock-Color chart)										
		Sandy time generally 2 85 cm thick, & prot.	l									į
		comprise 2 10% of core. Core recovery fair. RQD low.			,							
		Structure.										
		· Bedding at 25°-50° to core axis.										
		Local thythmic + a.s. nn beds.										
ĺ		. Shears are ubiquitous of graphitic, of generally								ļ		
		along building planes. Zones of interese shears										
1168		with local gauge of abundant graphite occur			ŀ							
396-		at 42.2, 51.5, 52.6, 55. 2 \$ 57.6 M. The widths										
NTO NTO		of the zones of interes shearing to = 0.5 m \$										
1080		Tresular of white to clear quarty with or					ļ		<u> </u>			
- S3ES -		without white calcular are scattered through-										
GRID		out of concentrated in whence shear zones.					:					
FA.		Local, white calcute veins also ocear. All gen. 42										

HOLE NO. A92-1

METE	PES		·	OLE	10	72- I		SH	EET NO	<u>a</u> /	6
FROM	то	DESCRIPTION		% SULPH	SAMP					ASSAYS	
33.53	70.71	(continued) very minor smoonts (20.1%) of pyrite of chalcopyrite (?) were noted in vaine.	NO.	IDES	FROM	METRES TO	TOTAL	7.	2	Δυ የየ8	nq PPM
		Analyses # 62951. Intendy sheared rock with graphite on Shear surfaces. Includes miner 1.5. Sandstone. White to clear quart, variets locally demands, with vary mi. calcite. < 6.1% chalcopyrite (?) in thin graphitic shears in quartz. Gouge.		∠6.1	51.44	52.16	0.5			17	0.1
-		the 62952. Graphitic fault zone in sittstone. Guartz white to clear in at least two generations of veinlits: () typically < 0.5 nm dia. Gleet by (2) typically + I nm dia., Hinor calcite, white. (halcopyrite (?) in questz & smeared on graphitic slick-ansides.	62952	۷۰.۱	59.10	59.60	0.5			112	0.7
5.7	71.7	VOLCANIC SANDSTONE É CONGLOMERATE Hedium grey. Bedding et 40°? to C.d. SS comprins felice volcanie class gen. 1.5.2 an dir. Conglomerate class are £ 18 mm of gen. rounded, but range from angular to well rounded; moderately sorted. All clasts of volcanic origin f almost all are felsie. Most are med. grey a few are blackish red.									

METRE	s	DECOMPTION			.√SAMP	LE				ASSAYS	<u>· </u>	
FROM	то	DESCRIPTION	NO.	% SULPH IDES	FROM	METRES TO	TOTAL	7	7	OZ/TON	OZ/TON	
FROM		SILT STONE, and subsidiery interbolded volcenic sandstone of minor tuff. Siltatone is graphilic of generally dark gray to black except for a 10 cm light cline grow section at 122.5 m. S'stone in Sandy in places (e.s. 0.14m grains, some of which appear to exhibit strick lineation). Local phyllicic steem. Vol. Sandstone is generally medium to very fine-grained of locally sarvies a few pebbles. Felsie vol. clasts abundant. Rock is dark gray. The section is locally tuffaceous, especially 114.5-115.2 m, where lapille = 12 mm ware found—very augular to townsed; some have reaction times. Clasts include light cline going—not felsie—that appear tarnly at 71 m in CS, of a few med. gray felsic ones. Bedding. Generally this bedded at 35°-45° to core axis. Locally beds & 1 cm are somman. Shears. Siltstone in exhibits sign of shearing throughout, especially graphitic shirtmendes. local going. The most interms shearing occurred at the Siltstone at contacts with so lide with				METRES	TOTAL	7.4	74	1	OZ/TON	
LANGHIOGES - I ORIONIO -		in sittstane at contacts with sandstane units. Graphetic slickensides also found in sandstane. Shears gen. at 45°-90° to core exis. - Veins. Scattored, generally white, quartz veins with a without calcite throughout. Gen. £2.5 cm wide & at 30-90° to core exis. Locally drusy with \$102 x15. Locally faulted & falled. His white cacog veins.										

HOLE NO. A92-1 SHEET NO. 4/6

METE	ES ·	DECCRIPTION			SAMPL	.E			4	ASSAYS	
FROM	то	DESCRIPTION	NO.	% SULPH	FROM	ETRES TO	TOTAL	2	*	Au PPB	Ag PPH
71.7	137.2	[continued]							,=		
		. Analyses #62953. Highly sheared graphitic sictofune. Quantz vein, white to clear, comman. ? Minor calcite, chlorite. Sulphides (print)	62953	40.1	104.66	105.16	6.5			15	0.1
		tare; succeed on slickensides. # 62954. Highly sheared graphitic siltatone. Hostly gausse. Questy veins common (+ 15% of rock?), gray to clear 5102> White (?).	6.29 54	20.1	112.5	//3.6	0.5			10	0.1
		Calcite veins with little SiO2 present. Himor chalcopyrite (?) on slickansides. # 62955 Highly sheared graphitic sixtedone directly below sandstone bals. Gouge Hultiple slickansides	L2955	Z6.1	131.0	131.5	0.5			9	2.4
		directions. Local graphite bands in SiO2. Quarty veins common; white to clear, locally drucy with clear SiO2 x1s & 1 mm in laught. Few calcite veins with little quanty. Autorite? Minor prints in drucy SiO2 veins of Shared Sish of as CO.14m disseminations in CaCO3 veins.		_							

HOLE NO. A92-1 SHEET NO. 5/6

METR	ES ·	DESCRIPTION			SAMPI	-E				ASSAYS		
FROM	то	DESCRIPTION	NO.	% SULPH IDES	FROM	ETRES_	TOTAL	2	*	AU PPB	Ag PPH	
137.2	то 137. 6	VOLCANIC CONGLOMERATE. Hed light grey to light olive grey Clasts: Light brownish grey to light grey falsic volcanic rocks, Very fine grained; local & clear questz 'eyes'. Thin, dark, rection rime. Generally very angular to sub angular. Ten small subrounded pables. Includes few angular, dark grey siltstone fraguents - e.s. 3 hm. Metris: Sand, looks like vol. 55 elsewhere in Section. Grains are angular to sub rounded. Clasts are in fart metrix supported. Top contact a graphitic fault. Lover ct gradational - clasts in sed. SILTSTONE. Dark grey to black. Graphitic. Locally appears measure. Cet by irregular, locally faculted, Naite guests veius. Siltstone is locally sandy for tuffaceous. Inffaceous sections carry angular falses vol. elects, including a few lapilli. Very fine sand noted in several siltstone samples. Hinor- volcanic sandatone; dark grey, lithic frags of vol. origin are angular to sub rounded of 22 nm. Badding 55° to core axis at 155 M. Sheare are present, but general avidence of shearing meaker them in upper siltstones. #62956. Sheared, graphitic siltstone.		IDES		ETRES TO		7.	**		Ag PPH	
		± 30% white quartz. Hinor calcite. No sulphides seen.										

HOLE NO. A92-1 SHEET NO.

MET	RES ·	DESCRIPTION			SAMP	ĻĒ		<u> </u>		ASSAYS		
FROM	т0	DESCRIPTION	NO.	2 SULPH IDES	FROM	METRES TO	TOTAL	2	*	AU PPB	Ag PPM	
/45.8	198.12 E <u>O</u> H	INTERBEDDED SILTSTONE & VOLCANIC SANDSTONE Although interbedded siltstones & vol. SS occur above, this section is distinctive because of much regular, thin bedding. Colour is used. quey to black. Hostly thin-bedded, some sas thin as 0.1 MM. Beds at 45°-65° to core axis. Very fine to mak grained lithic sandstone; locil sixtstone clasts. Graded bedding suggests tops are up-bole. Generally but lightly sheered, except in zones listed below. Less graphite than higher exit. Quartz veins, gen. 2 (cm dia., abundant in faults listed below - where they are contorted by faulting.			raum		·					
LANGRIDGES - TORONTO - 366-1168		Hajor zones of slickensides & broken rock at 169.7-178.69, 171.3-178, & 197.5-198.12 M (EOH). # 62957 Graphitic shear zone - less graphite than other samples above. Questz; white to clear ±26% of sample. Calcite veins locally abundant. Sulphides were not seen.	62 95	7 ?	197. 62	198.13				18		2.0

APPENDIX 2

Analyses

COMP: HABSBURG RESOURCES PROJ: DOME/FREEMONT

MIN-EN LABS - ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

ATTN: S.KELLEY/A.L'ORSA

(604)980-5814 OR (604)988-4524

FILE NO: 2S-0027-RJ1 DATE: 92/03/04

* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM		MG PPM	MN PPM	MO PPM	NA PPM	N I PPM	P PPM	PB PPM	SB PPM P	SR PPM P	TH PPM P	TI	V PPM 1	ZN PPM I	GA PPM I	SN PPM P	W C	R AU-	FIRE PPB
62951 62952 62953 62954 62955	.7 .1 .1	31040 29150 31550 33840 21580	1 1 1 1 7	7 6 6 7 6	87 171 150 124 109	1.2 1.2 1.1 1.3 1.3	4 6 3 3 2	9310 7880 11170 5870 13900	.1 .1 .1 .1	23 22 23 25 17	289 185 114	50960 49510 52910 56520 38750	890 820 800	23	13350 12440 14290 14680 11960	1271	7	870	109 113	1230 670 840 1020	47 42 42 35	4 5 5 5	44 31 28 24 53	1 1 1 1	15 5 12 5 13 5 12 6	9.3 3.3 8.8 1.9 3.2	140 110 171 134	6 6 5 6	1 1 1 1	6 12 6 11 8 15 6 12 6 11	4 3 5 5	17 112 15 10 9
62956 62957	2.0	21920 30720	1	6 8	236 151	.9 1.1	3	42170 7780	.1	16 23	57 101	39190 53270	860 1050	18 24	12070 9970	2114 1315	2 1	500 1220	73 68	630 970		3 1 5	100 36	1	15 4 8 4	0.7 9.6	90 128	4 5	1	6 12 5 9	6	8 18
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