ASSESSMENT REPORT

ON A

GEOLOGICAL MAPPING

AND

SOIL SAMPLING PROGRAM

ON THE

GNAT PASS PROPERTY

NAT 1-8 MINERAL CLAIMS

DEASE LAKE AREA

LIARD MINING DIVISION, B.C.

NTS:	104I/4W, 104I/5W
LATITUDE:	58° 15'30"N
LONGITUDE:	129° ~~130°~~ 50'W
OWNER:	W.R. Gilmour
OPERATOR:	Discovery Consultants
AUTHORS:	E.D. Harrington, B.Sc. T.H. Carpenter, P.Geo.
DATE:	October 26, 1994

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SUMMARY

Sulphide copper mineralization occurs on the Nat 1-8 claims in the Dease Lake area of the Liard Mining Division, B.C. Exploration work has been carried out intermittently on the property from 1960 to the present and has delineated unclassified reserves of 22.7 million tonnes grading 0.44 per cent copper.

In 1993 programs of geological mapping and soil sampling were carried out using hip-chain and compass for control.

The results of the survey are presented and discussed in the following report.

LOCATION AND ACCESS

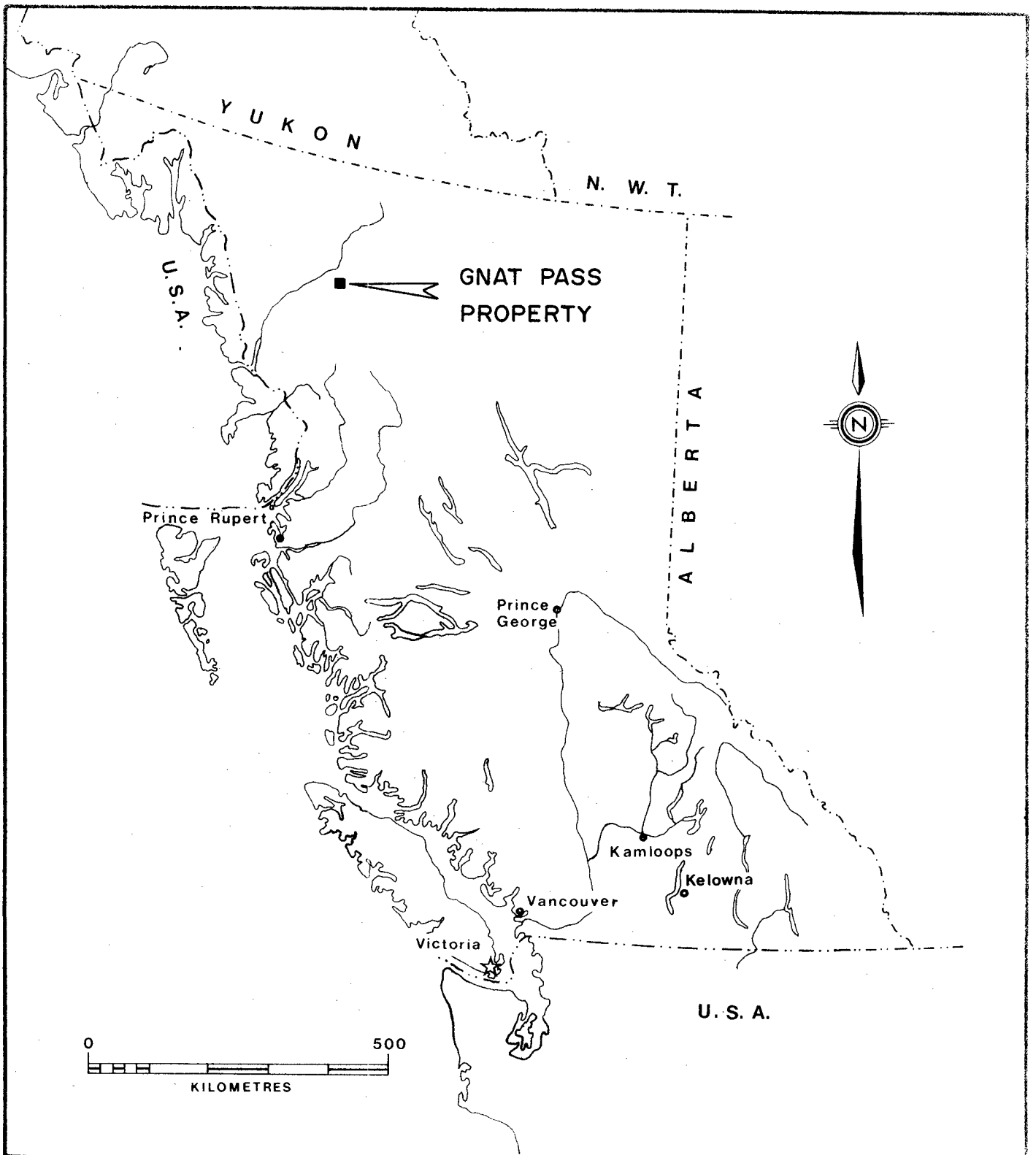
The Gnat Pass property is centered at latitude 58°15'30"N and longitude 130°50'W on the Tanzilla Plateau along the eastern edge of the Stikine Range.

The property is located 23.5 km south of the town of Dease Lake just to the east of Highway #37 (the Cassiar-Stewart highway). Gnat Creek flows north through the western extremity of the claim block at the north end of Lower Gnat Lake.

Access to the property is excellent using the Cassiar-Stewart highway which lies less than 100 meters from the western edge of the claim block. Numerous drill roads criss-cross the property and are useable by foot or 4-wheel-drive vehicle after crossing Gnat Creek.

TOPOGRAPHY

The four westernmost claim blocks overlie a flat river plain covered with grass and scrub alders. The four eastern claims overlie a knoll with elevations ranging from 1200 metres above sea level at the plateau floor to about 1410 metres above sea level at the top. Vegetation here is generally mature fir and spruce trees.



DISCOVERY Consultants	PREDATOR SYNDICATE
GNAT PASS PROPERTY	LOCATION MAP

DATE: JAN. 20/1994	PROJECT: 608	SCALE: As Shown	N.T.S.: 104I/5W	M.D.: LIARD	FIGURE: 1

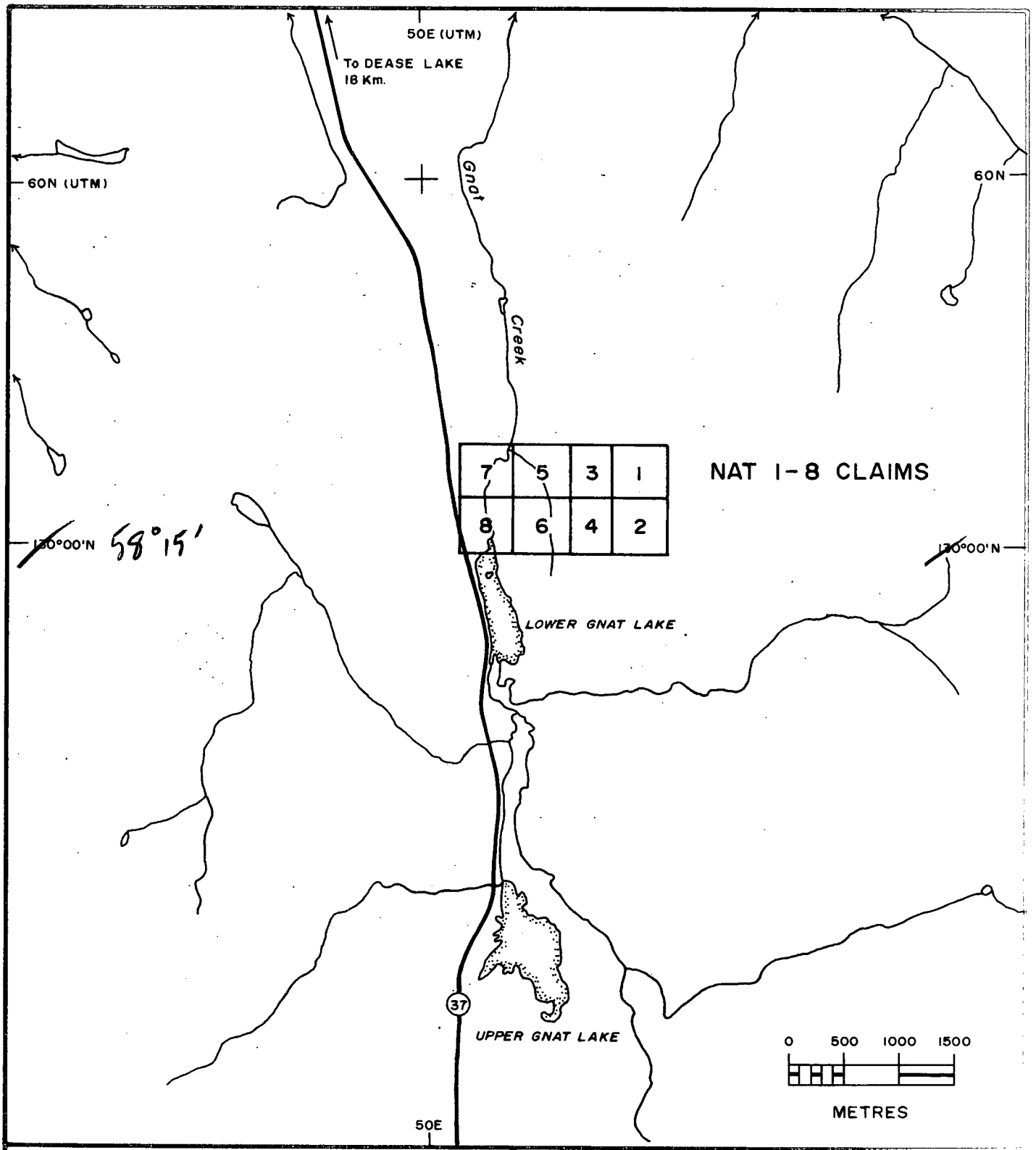
PROPERTY

The Gnat Pass property consists of eight two-post claims designated Nat 1-8 inclusive located by R. Wymer on August 20, 1993 and recorded in Vernon, B.C. on September 1, 1993.

Claim Name	Record No.	Owner of Record	Anniversary Date *
NAT 1	320615	W.R. Gilmour	August 20, 1999
NAT 2	320616	W.R. Gilmour	August 20, 1999
NAT 3	320617	W.R. Gilmour	August 20, 1999
NAT 4	320618	W.R. Gilmour	August 20, 1999
NAT 5	320619	W.R. Gilmour	August 20, 1999
NAT 6	320620	W.R. Gilmour	August 20, 1999
NAT 7	320621	W.R. Gilmour	August 20, 1999
NAT 8	320622	W.R. Gilmour	August 20, 1999

The claims are owned by W.R. Gilmour in trust for the Predator Syndicate.

* Pending acceptance of this report.



DISCOVERY Consultants

PREDATOR SYNDICATE

GNAT PASS PROPERTY

CLAIM LOCATION MAP

DATE JAN. 20/1994 | PROJECT 608 | SCALE 1:50,000 | NTS 104I/5W | M.D. LIARD | 2

HISTORY

Mineralization was first discovered in the property area in 1960 but only intermittent work was done up to 1964 when fairly extensive exploration of the wide-spread, low-grade copper mineralization commenced.

In 1965 geological mapping, geophysical and geochemical surveys were carried out. Four trenches totalling 800 feet (244 metres) were made by bulldozer and 4,600 feet (1402 metres) of diamond drilling was done in ten holes.

In 1966, 8,900 feet (2713 metres) of diamond drilling in fourteen holes was completed, in addition to geological mapping and magnetometer and geochemical surveys.

In 1967, geological mapping, geochemical, IP and magnetometer surveys were carried out, as well as 22,036 feet (6717 metres) of diamond drilling in forty-one holes.

In 1968, 21,726 feet (6622 metres) of diamond drilling in thirty-seven holes was completed.

No record of any geological information obtained from these drill holes is available.

There is no record of further work on the property. However on-site inspection indicates a further seven (at least) diamond drill holes apparently drilled in 1989.

The British Columbia Mineral Inventory File (Minfile) states that the property contains unclassified reserves of 22.7 million tonnes grading 0.44 percent copper.

GENERAL GEOLOGY

The Nat property lies in a north-trending valley near the north end of Lower Gnat Lake. A substantial portion of the property is covered by extensive overburden obscuring the geology.

Regional mapping indicates that the area is underlain by rocks of the Upper Triassic Stuhini Group consisting of andesite and basalt flows, tuffs and breccias, with some sediments intruded by small stocks and sills of porphyritic andesite and basalt. The property is adjacent to hornblende quartz monzonite and granodiorite of the Jurassic-Triassic Hotailuh batholith which occurs to the south.

On the slopes east of the property, beds of greywacke and basic volcanics are reported to dip between 35 and 40 degrees to the north-east. Major north-trending faults cutting the area are inferred.

Carbonate alteration is widespread, both disseminated throughout the rocks and as veinlets. Sericite and silicification are patchy, while iron-oxide staining and hematite are widespread. Chlorite occurs as fracture fillings in the volcanics, as do dense black veinlets of tourmaline. Rocks of all types usually exhibit some degree of cataclastic textures and variable evidence of deformation due to movement.

Mineralization consists of chalcopyrite, pyrite and traces of bornite. The sulphides commonly occur as blebs, stringers and

skins on fracture surfaces in the altered andesitic greenstones and dark-green porphyritic andesites. Magnetite is common in the volcanic rocks and tends to concentrate with chalcopyrite.

WORK COMPLETED

The work carried out on the property consisted of soil sampling, geological mapping, core logging and rock and core sampling. Due to time constraints the mapping and sampling programs were carried out using hip-chain and compass traverses as controls.

1. Soil Sampling

a). Program Parameters

The soil sampling program was carried out using a shovel and 9 cm x 25 cm kraft paper bags. The "B" horizon was sampled. Samples were shipped to Bondar-Clegg Laboratories in Vancouver, B.C., where analysis was carried out for Au and twenty-seven other elements (Appendix I). Samples were taken at 50 meter intervals along the common claim line of the Nat claims and at 100 meter intervals for 500 meters north and south from the Initial Posts for the Nat 5 and 6 and the for Nat 7 and 8 claims (Figure 3).

b). Program Results

Analysis of the soil samples indicates some anomalous areas as well as interesting associations.

The section from BL3+50W to BL6+50W is moderately anomalous in copper (131 ppm to 1041 ppm) and also shows weak gold (6-18 ppb), nickel (28-44 ppm), cobalt (12-16 ppm) and manganese (533-

1674 ppm) association.

The sample taken at BL8+00W returned a 30 ppb gold value associated with the highest copper value obtained (4802 ppm).

The five samples CL-1, 1+00S to CL-1, 5+00S are weakly to moderately anomalous in copper (44-515 ppm). The highest gold value obtained in the soil survey (174 ppb Au) occurs at CL-1,4+00S.

The sample taken at CL-2, 2+00S is not anomalous in gold but has the highest values obtained for lead (56 ppm), zinc (660 ppm), cadmium (216 ppm), cobalt (20 ppm), manganese (4165 ppm) and barium (247 ppm).

2. Geological Mapping

a). Program Parameters

The mapping program was designed to obtain a brief overview of the property geology and to locate diamond drill hole sites in order to relate information from core (located on site) to the surface geology. The rock and core sampling carried out in conjunction with the mapping and core logging was to provide multi-element information about all rock types available.

b). Program Results

To the west, along Gnat Creek the claims are underlain by andesitic tuffs with minor intrusions of pink leucocratic felsite. Samples N014-N016 all exhibit chalcopyrite and pyrite disseminations as well as Cu stain. Cu values in these rocks

ranged from 3901 ppm to 11148 ppm. Samples N013 and N014 also had values of 24 ppb Au, 39ppm Bi and 40 ppb Au, 39 ppm Bi respectively. The rocks are generally well fractured and in places exhibit an irregular, northwesterly trending schistosity. Alteration is ubiquitous and comprises carbonate filled fractures and weak to strong iron-oxide staining.

In the hill zone to the east, the rock types are predominantly fine to medium grained andesitic tuff, dark green porphyritic andesite and very fine-grained, pink, leucocratic felsite. One outcrop of quartz monzonite was observed at the northern extremity of the claim group. All the rock types exhibit some degree of brecciation and are generally fractured and broken although no dominant direction is evident. One outcrop of feldspar porphyry was noted along the common claim line at 6+50W. This porphyritic rock has been described as "an irregular mass generally fine-grained but with a high textural variation, cutting all the volcanic rocks".

The pink, leucocratic felsite is very silicious and exhibits medium to strong iron oxide staining. There is much more of this rock type evident in the examined drill core than observed in outcrop. Dense, black, tourmaline stringers are quite common in the felsite in drill core and generally show strong sulphide mineralization (ie: G89-3-3 and G89-4-1 returned 3229 ppm Cu and 7011 ppm Cu respectively). The origin of this felsite is not clear and could be a product either of highly altered volcanic rocks or feldspar porphyry.

Samples NO23, NO24, and NO25 were taken from altered, dark-green to black andesitic bedrock. Sample NO23 showed comparatively massive sulphide mineralization and returned anomalous values of 535 ppb Au, 8.68 per cent Cu, 2593 ppm Mo and 136 ppm Bi.

Strong gouge development evidenced in the drill core indicates at least a moderate degree of faulting in the area, as does the pervasive brecciation. The major fault-trend appears to be north-south with inferred cross-faulting trending NE to SW and NW to SE. The direction of movement is not known.

On the property is located a quantity of crushed rock and core samples for which the locations are not known. A grab sample was taken from the bags of crushed rock. A selection of mineralized core fragments was also taken. The samples returned 10,756 ppm Cu and 1,461 ppm Cu respectively.

CONCLUSIONS

Sulphide mineralization consisting primarily of chalcopyrite and pyrite appear to occur in all the observed rock types. Trace amounts of pyrite usually occur as disseminations throughout the rocks while larger concentrations of pyrite and chalcopyrite occur as stringers within the rocks or as a component of a fracture breccia filling. This would seem to indicate that the sulphides are to some extent structurally controlled being remobilized from the local rocks or introduced from "outside".

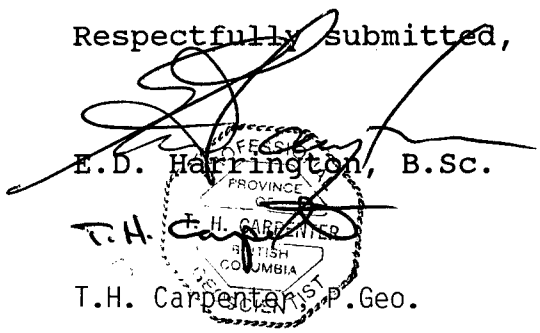
The anomalous soil samples are generally associated with high to anomalous manganese values. This could indicate that the mineralization is associated with fault structures which are a strong feature of the Gnat Pass area.

RECOMMENDATIONS

Further work is warranted and should consist of detailed soil sampling and more extensive mapping and rock sampling in order to further define the extent of the copper mineralization and any possible gold association. An induced potential (IP) survey should be carried out to define areas of potentially mineralized alteration and an electromagnetic (EM) survey conducted to delineate possible mineralized structures such as faults and/or fracture systems.

If results of the above programs warrant, further diamond drilling should be undertaken.

Respectfully submitted,



E.D. Harrington, B.Sc.

T.H. Carpenter, P.Geo.

Vernon, B.C.
October 26, 1994

REFERENCES

British Columbia Ministry of Energy, Mines and Petroleum Resources (MEMPR) Annual Reports.

1965 p.15

1966 p.19-20

1967 p.27

1968 p.36

STATEMENT OF COSTS

1.	Professional Services		
	K.L. Daughtry, P.Eng.		
	Supervision		
	0.5 days @ $450/day	$ 225.00	
	W.R. Gilmour, P.Geo.		
	Report writing		
	0.5 days @ $400/day	200.00	
	E.D. Harrington, B.Sc.		
	Travel - 1 day @ $308/day	308.00	
	Field Work - mapping & sampling (August 20-22)		
	2.5 days @ $308/day	770.00	
	Data compilation, report writing		
	3 days @ $280/day	840.00	$ 2343.00
2.	Field Personnel		
	Bob Wymer		
	Travel - 1 day @ $240/day	240.00	
	Rock & Soil Sampling (August 20-22)		
	2.5 days @ $240/day	600.00	840.00
3.	Transportation (4x4 vehicle)		300.00
4.	Meals & Lodging		350.00
5.	Geochemical Analysis		
	Soil samples		
	Au geochem + 28 element ICP		
	56 @ $13.70/sample	767.20	
	Rock samples		
	Au geochem + 28 element ICP		
	42 @ $15.60/sample	655.20	1422.40
6.	Drafting		400.00
7.	Data compilation, secretarial		400.00
8.	Field supplies		75.00
9.	Printing, data processing, telephone & shipping		225.00
		sub-total	6355.40
10.	G.S.T.		444.88
		Total	$6800.28

STATEMENT OF QUALIFICATIONS

I, EDWARD D. HARRINGTON, OF 3476 DARTMOOR PLACE, VANCOUVER, BRITISH COLUMBIA; do hereby certify that:

1. I am a geologist in mineral exploration.

2. I have been practising my profession for thirteen years in Canada and the Sultanate of Oman.

3. I am a graduate of Acadia University, Wolfville, N.S. with a Bachelor of Science degree in Geology.

4. This report is based upon knowledge of the Gnat Pass property gained from examination, mapping and sampling of the property, from the study of reports on the area, and from the conduct of the work herein described.

5. I hold no beneficial interest in the Gnat Pass property.

E.D. Harrington, B.Sc.

Vernon, B.C.
October 26, 1994

STATEMENT OF QUALIFICATIONS

I, THOMAS H. CARPENTER of 3902 14th Street, Vernon, B.C., V1T 3V2, DO HEREBY CERTIFY that:

1. I am a consulting geologist in mineral exploration associated with Discovery Consultants, Vernon, B.C.

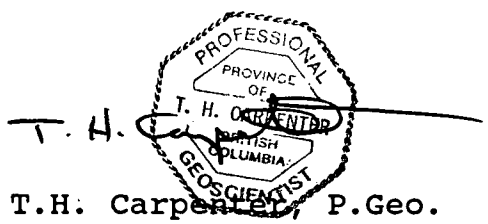
2. I have been practising my profession for 23 years.

3. I am a graduate of the Memorial University of Newfoundland with a Bachelor of Science degree in geology.

4. I am a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.

5. This report is based upon knowledge of the Gnat Pass property gained from supervision.

6. I hold no interest either directly or indirectly in the Gnat Pass property.



T.H. Carpenter, P.Geo.

Vernon, B.C.
October 26, 1994

APPENDIX 1

SOIL SAMPLING - ANALYTICAL PROCEDURES AND RESULTS

ANALYTICAL PROCEDURES

Geochemical Analysis

by Bondar-Clegg :

ELEMENT		LOWER DETECTION LIMIT	EXTRACTION	METHOD
Au	Gold	5.0 ppb	fire-assay	atomic absorption
Ag	Silver	0.2 ppm	HNO3-HCl hot extr	ind. coupled plasma
Al*	Aluminum	0.02 %	HNO3-HCl hot extr	ind. coupled plasma
As	Arsenic	5.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Ba*	Barium	5.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Bi	Bismuth	5.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Ca*	Calcium	0.05 %	HNO3-HCl hot extr	ind. coupled plasma
Cd	Cadmium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Co*	Cobalt	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Cr*	Chromium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Cu	Copper	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Fe*	Iron	0.01 %	HNO3-HCl hot extr	ind. coupled plasma
Hg■	Mercury	0.010 ppm	HNO3-HCl leach	cold vapour atomic absorption
K*	Potassium	0.05 %	HNO3-HCl hot extr	ind. coupled plasma
La*	Lanthanum	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Mg*	Magnesium	0.05 %	HNO3-HCl hot extr	ind. coupled plasma
Mn*	Manganese	0.01 %	HNO3-HCl hot extr	ind. coupled plasma
Mo*	Molybdenum	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Na*	Sodium	0.05 %	HNO3-HCl hot extr	ind. coupled plasma
Ni*	Nickel	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Pb	Lead	2.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Sb*	Antimony	5.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Sn*	Tin	20.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Sr*	Strontium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Te*	Tellurium	10.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
V*	Vanadium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
W*	Tungsten	10.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Y	Yttrium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Zn	Zinc	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma

- Please note: certain mineral forms of those elements above marked with an asterisk will not be soluble in the HNO3/HCl extraction. The ICP data will be low biased.

- Please note: Hg will only be analysed upon request.

Date of Report: 93.09.21 Project 608 Gnat Pass

File: SOIL_93.WK3 Soil Sampling Results
1993

Reference: v93-00905.0

Sample ID	Cu ppm	Au ppb	Mo ppm	Ag ppm	Pb ppm	Zn ppm	Cd ppm	As ppm	Sb ppm	Bi ppm	Ni ppm	Co ppm	Cr ppm	Fe %	Mn ppm
CL-1 1+00S	273	6	6	<0.2	11	76	<1.0	8	<5	<5	25	8	38	2.48	461
CL-1 2+00S	500	5	2	<0.2	7	70	<1.0	<5	<5	<5	55	14	31	3.56	671
CL-1 3+00S	44	6	4	<0.2	12	102	<1.0	<5	<5	<5	19	14	42	3.76	1046
CL-1 4+00S	515	174	5	<0.2	7	52	<1.0	6	<5	<5	21	9	26	2.43	1400
CL-1 5+00S	222	<5	7	<0.2	5	22	<1.0	11	<5	<5	11	6	25	0.97	1648
CL-1 1+00N	14	<5	2	<0.2	7	41	<1.0	<5	<5	<5	15	5	30	2.54	221
CL-1 2+00N	11	<5	2	<0.2	8	58	<1.0	<5	<5	<5	14	5	51	2.92	453
CL-1 3+00N	47	<5	2	<0.2	9	32	<1.0	9	6	<5	11	2	10	0.59	161
CL-1 4+00N	37	<5	3	<0.2	7	147	<1.0	<5	<5	<5	28	9	31	2.74	461
CL-1 5+00N	9	6	1	<0.2	4	90	<1.0	<5	<5	<5	27	7	42	3.74	450
CL-2 1+00S	10	<5	2	<0.2	12	54	<1.0	<5	<5	<5	12	5	57	3.01	361
CL-2 2+00S	24	<5	3	<0.2	56	660	21.6	<5	<5	<5	12	20	29	2.75	4165
CL-2 3+00S	65	<5	6	<0.2	4	78	<1.0	<5	<5	<5	24	6	38	2.78	309
CL-2 4+00S	101	11	11	<0.2	3	10	<1.0	10	<5	<5	7	3	18	0.24	55
CL-2 5+00S	28	7	2	<0.2	9	82	<1.0	<5	<5	<5	21	7	49	4.43	537
CL-2 1+00N	12	<5	3	<0.2	6	58	<1.0	<5	<5	<5	23	8	36	3.65	393
CL-2 2+00N	11	<5	2	<0.2	5	39	<1.0	<5	<5	<5	13	5	40	3.52	570
CL-2 3+00N	18	<5	3	<0.2	6	41	<1.0	<5	<5	<5	19	7	41	3.56	622
CL-2 4+00N	23	<5	1	<0.2	9	99	<1.0	<5	<5	<5	21	9	59	4.11	361
CL-2 5+00N	9	<5	2	<0.2	10	144	<1.0	<5	<5	<5	13	7	33	3.70	545
BL00+00	17	n/a	2	<0.2	9	27	<1.0	<5	<5	<5	11	4	12	1.19	297
BL00+50	16	<5	2	<0.2	15	29	<1.0	9	<5	<5	7	4	23	2.30	221
BL01+00	9	<5	2	<0.2	10	112	<1.0	<5	<5	<5	19	8	38	4.61	517
BL01+50	9	<5	2	<0.2	5	66	<1.0	<5	<5	5	52	15	41	4.55	487
BL02+00	12	<5	3	<0.2	10	53	<1.0	<5	<5	<5	21	7	46	4.98	285
BL02+50	11	<5	3	<0.2	8	71	<1.0	<5	<5	<5	31	12	47	4.96	548
BL03+00	12	<5	4	<0.2	11	33	<1.0	<5	<5	<5	7	3	26	2.30	139
BL03+50	131	6	5	<0.2	13	46	<1.0	9	<5	<5	28	16	42	3.49	809
BL04+00	903	18	7	<0.2	6	21	<1.0	<5	<5	<5	14	12	27	1.69	1674
BL04+50	1041	17	3	<0.2	6	28	<1.0	7	<5	<5	14	8	22	1.97	927
BL05+00	800	12	2	<0.2	6	32	<1.0	<5	<5	<5	16	6	24	2.20	533
BL05+50	128	<5	2	<0.2	<2	54	<1.0	<5	<5	<5	44	14	38	3.56	680
BL06+00	254	<5	3	<0.2	6	62	<1.0	<5	<5	<5	42	15	44	4.33	616
BL06+50	232	12	5	<0.2	4	43	<1.0	<5	<5	<5	28	12	43	2.79	686
BL07+00	47	<5	18	<0.2	11	41	<1.0	<5	<5	<5	17	11	49	4.53	340
BL07+50	65	<5	4	<0.2	10	76	<1.0	<5	<5	<5	32	12	56	4.71	687
BL08+00	4802	30	7	<0.2	4	48	<1.0	<5	<5	9	29	14	53	3.42	777
BL08+50	83	<5	4	<0.2	7	88	<1.0	<5	<5	<5	50	16	40	4.26	512

Project 608 Gnat Pass

Soil Sampling Results
1993 (Part 2)

Sample ID	Ba ppm	V ppm	Sr ppm	Y ppm	La ppm	Te ppm	Sn ppm	W ppm	Al %	Mg %	Ca %	Na %	K %
CL-1 1+00S	161	50	66	19	19	<10	<20	<20	1.72	0.47	1.13	0.02	0.05
CL-1 2+00S	242	45	43	21	27	<10	<20	<20	1.94	0.90	0.89	0.05	0.04
CL-1 3+00S	144	73	27	2	5	<10	<20	<20	1.75	0.35	0.22	0.01	0.05
CL-1 4+00S	203	38	161	13	10	<10	<20	<20	1.12	0.37	2.15	0.01	0.04
CL-1 5+00S	96	19	65	4	6	<10	<20	<20	0.55	0.27	1.61	<0.01	0.02
CL-1 1+00N	61	66	20	3	7	<10	<20	<20	0.86	0.32	0.28	0.01	0.04
CL-1 2+00N	105	78	16	1	4	<10	<20	<20	0.65	0.27	0.14	0.01	0.04
CL-1 3+00N	91	14	161	6	7	<10	<20	<20	0.32	0.20	3.00	0.02	0.04
CL-1 4+00N	132	65	46	11	14	<10	<20	<20	1.50	0.54	0.57	0.02	0.09
CL-1 5+00N	52	52	5	3	9	<10	<20	<20	2.30	0.37	0.07	0.01	0.03
CL-2 1+00S	80	79	13	1	4	<10	<20	<20	0.66	0.31	0.16	0.01	0.04
CL-2 2+00S	247	70	14	2	5	<10	<20	<20	0.52	0.13	0.21	0.01	0.06
CL-2 3+00S	98	43	23	9	12	<10	<20	<20	2.00	0.40	0.55	0.01	0.03
CL-2 4+00S	54	9	88	5	4	<10	<20	<20	0.45	0.20	2.95	0.01	0.01
CL-2 5+00S	69	86	10	2	6	<10	<20	<20	1.33	0.44	0.12	0.01	0.04
CL-2 1+00N	73	55	8	4	9	<10	<20	<20	1.85	0.21	0.08	0.02	0.03
CL-2 2+00N	49	62	8	3	6	<10	<20	<20	1.10	0.15	0.08	0.01	0.02
CL-2 3+00N	72	61	13	4	9	<10	<20	<20	1.67	0.27	0.13	0.01	0.03
CL-2 4+00N	66	102	16	2	5	<10	<20	<20	1.41	0.68	0.20	0.02	0.04
CL-2 5+00N	63	53	6	3	8	<10	<20	<20	1.29	0.16	0.07	0.01	0.02
BL00+00	167	21	42	8	11	<10	<20	<20	0.52	0.09	0.34	<0.01	0.03
BL00+50	49	70	23	1	4	<10	<20	<20	0.61	0.10	0.20	0.01	0.04
BL01+00	77	63	10	3	9	<10	<20	<20	1.96	0.24	0.08	0.02	0.03
BL01+50	61	58	10	5	10	<10	<20	<20	3.89	0.95	0.25	0.03	0.02
BL02+00	76	77	10	2	7	<10	<20	<20	2.34	0.30	0.09	0.02	0.03
BL02+50	68	72	9	2	5	<10	<20	<20	2.58	0.38	0.10	0.02	0.03
BL03+00	69	74	14	1	5	<10	<20	<20	0.83	0.14	0.07	0.01	0.03
BL03+50	85	70	24	13	18	<10	<20	<20	1.59	0.77	0.32	0.02	0.05
BL04+00	127	24	102	18	18	<10	<20	<20	1.09	0.23	1.34	0.01	0.03
BL04+50	112	30	86	15	14	<10	<20	<20	1.09	0.31	1.21	0.01	0.03
BL05+00	88	35	65	11	11	<10	<20	<20	1.09	0.32	0.90	0.01	0.02
BL05+50	126	56	46	9	14	<10	<20	<20	2.03	0.81	0.72	0.03	0.04
BL06+00	79	72	24	5	9	<10	<20	<20	1.95	0.74	0.32	0.03	0.04
BL06+50	105	55	44	4	6	<10	<20	<20	1.32	0.57	0.71	0.02	0.04
BL07+00	45	106	23	<1	4	<10	<20	<20	0.97	0.36	0.41	0.02	0.04
BL07+50	191	95	16	3	11	<10	<20	<20	1.72	0.38	0.16	0.03	0.05
BL08+00	78	68	40	18	17	<10	<20	<20	1.70	0.91	0.84	0.03	0.06
BL08+50	90	59	21	4	8	<10	<20	<20	3.35	0.70	0.39	0.02	0.03

Date of Report: 93.09.21 Project 608 Gnat Pass

File: SOIL_93.WK3 Soil Sampling Results
1993

Reference: v93-00905.0

Sample ID	Cu ppm	Au ppb	Mo ppm	Ag ppm	Pb ppm	Zn ppm	Cd ppm	As ppm	Sb ppm	Bi ppm	Ni ppm	Co ppm	Cr ppm	Fe %	Mn ppm
BL09+00	21	<5	2	<0.2	11	86	<1.0	<5	<5	<5	28	9	51	4.35	471
BL09+50	12	30	3	<0.2	9	56	<1.0	<5	<5	<5	17	6	53	3.99	325
BL10+00	42	<5	2	<0.2	8	100	<1.0	<5	<5	<5	23	9	51	3.18	955
BL10+50	40	<5	8	<0.2	7	52	<1.0	<5	<5	<5	16	7	26	2.01	433
BL11+00	602	<5	2	<0.2	9	87	<1.0	14	<5	<5	27	8	33	2.29	423
BL11+50	450	<5	4	<0.2	9	75	<1.0	14	<5	<5	24	8	31	2.09	388
BL12+00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BL12+50	82	<5	2	<0.2	12	126	<1.0	<5	<5	<5	35	16	46	4.49	988
BL13+00	17	29	13	<0.2	14	56	<1.0	<5	<5	<5	14	6	32	3.64	875
BL13+50	17	12	1	<0.2	6	43	<1.0	5	<5	<5	17	6	48	2.41	226
BL14+00	11	<5	2	<0.2	13	100	<1.0	<5	<5	<5	13	8	39	4.42	723
BL14+50	14	<5	<1	<0.2	6	86	<1.0	<5	<5	<5	25	10	32	4.10	652
BL15+00	12	<5	3	<0.2	14	118	<1.0	<5	<5	<5	15	7	40	3.86	553
BL15+50	16	<5	3	<0.2	10	69	<1.0	14	<5	<5	38	11	35	3.66	421
BL16+00	17	<5	1	<0.2	8	67	<1.0	<5	<5	<5	26	8	33	3.87	431
BL16+50	20	<5	3	<0.2	16	67	<1.0	6	<5	<5	21	10	53	5.49	381
BL17+00	11	<5	4	<0.2	15	83	<1.0	<5	<5	<5	24	8	46	4.38	491
BL17+50	166	<5	4	<0.2	10	50	<1.0	5	<5	<5	23	14	40	4.24	475
BL18+00	31	6	4	<0.2	14	31	<1.0	11	<5	<5	16	11	42	2.10	517
n =		57													
min :	9	<5	<1	<0.2	<2	10	<1.0	<5	<5	<5	7	2	10	0.24	55
max :	4802	174	18	<0.2	56	660	21.6	14	6	9	55	20	59	5.49	4165
25% ile :	12	<5	2	<0.2	6	41	<1.0	<5	<5	<5	14	6	30	2.30	361
50% ile :	24	<5	3	<0.2	9	58	<1.0	<5	<5	<5	21	8	39	3.56	491
75% ile :	128	6	4	<0.2	11	86	<1.0	5	<5	<5	27	12	46	4.24	680
95% ile :	800	29	8	<0.2	15	126	<1.0	11	<5	<5	44	16	53	4.71	1400
Duplicate:															
CL-1 1+00N	15	6	2	<0.2	4	44	<1.0	<5	<5	<5	16	6	31	2.62	223
BL01+00	9	-	2	<0.2	11	117	<1.0	<5	<5	<5	19	8	41	4.78	538
BL11+00	549	-	3	<0.2	12	83	<1.0	14	<5	<5	26	7	32	2.10	393
BL15+50		<5													

Project 608 Gnat Pass

Soil Sampling Results
1993 (Part 2)

Sample ID	Ba ppm	V ppm	Sr ppm	Y ppm	La ppm	Te ppm	Sn ppm	W ppm	Al %	Mg %	Ca %	Na %	K %
BL09+00	66	75	11	3	7	<10	<20	<20	1.98	0.50	0.13	0.01	0.03
BL09+50	69	98	23	1	3	<10	<20	<20	0.85	0.31	0.24	0.01	0.04
BL10+00	87	66	14	3	7	<10	<20	<20	1.47	0.50	0.24	0.01	0.05
BL10+50	161	42	54	8	10	<10	<20	<20	1.02	0.39	0.80	0.02	0.04
BL11+00	149	43	46	31	32	<10	<20	<20	1.19	0.44	0.62	0.01	0.04
BL11+50	124	43	44	23	25	<10	<20	<20	1.11	0.42	0.61	0.01	0.05
BL12+00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BL12+50	93	76	15	8	12	<10	<20	<20	2.34	0.45	0.21	0.02	0.03
BL13+00	117	66	11	2	6	<10	<20	<20	1.12	0.18	0.09	0.01	0.04
BL13+50	43	47	7	2	4	<10	<20	<20	1.38	0.38	0.07	<0.01	0.03
BL14+00	164	92	16	2	6	<10	<20	<20	0.77	0.20	0.21	0.01	0.05
BL14+50	70	59	8	5	9	<10	<20	<20	2.37	0.38	0.14	0.01	0.03
BL15+00	149	74	14	2	6	<10	<20	<20	0.97	0.26	0.20	0.01	0.03
BL15+50	61	53	11	9	14	<10	<20	<20	2.59	0.53	0.19	0.02	0.03
BL16+00	66	55	7	4	9	<10	<20	<20	1.87	0.33	0.11	0.01	0.03
BL16+50	65	151	17	3	8	<10	<20	<20	1.38	0.46	0.22	0.01	0.04
BL17+00	74	73	7	4	10	<10	<20	<20	1.55	0.25	0.06	0.01	0.04
BL17+50	79	104	12	8	5	<10	<20	<20	1.22	0.52	0.30	0.01	0.08
BL18+00	101	55	51	2	4	<10	<20	<20	0.75	0.45	0.86	0.01	0.09
n =	57												
min :	43	9	5	<1	3	<10	<20	<20	0.32	0.09	0.06	<0.01	0.01
max :	247	151	161	31	32	<10	<20	<20	3.89	0.95	3.00	0.05	0.09
25% ile :	66	45	10	2	5	<10	<20	<20	0.86	0.24	0.12	0.01	0.03
50% ile :	80	62	16	4	8	<10	<20	<20	1.33	0.37	0.22	0.01	0.04
75% ile :	124	74	44	8	11	<10	<20	<20	1.87	0.47	0.62	0.02	0.04
95% ile :	191	102	88	19	19	<10	<20	<20	2.58	0.81	1.61	0.03	0.06
Duplicate:													
CL-1 1+00N	65	68	20	3	8	<10	<20	<20	0.94	0.35	0.28	0.01	0.05
BL01+00	84	70	12	3	10	<10	<20	<20	2.10	0.25	0.09	0.02	0.04
BL11+00	135	41	42	29	30	<10	<20	<20	1.11	0.41	0.57	0.01	0.04

APPENDIX 2

ROCK AND CORE SAMPLES - LOCATION AND DESCRIPTIONS

Gnat Creek Rock Samples

N001 - 2+95W, 0+35N	-	Dark gy. porphyritic andesite. Green Cu staining. Hematite on fractures.
N002 - 3+16W, 0+55N	-	Dark gy. porphyritic andesite. ≤4mm siliceous stringers with hematite stain.
N003 - 3+55W, 0+10N	-	Porphyritic andesite. ≤5mm siliceous stringers. Trace chalcopyrite with hematite stain. Appears brecciated.
N004 - 4+40W, 0+00N	-	Fine grained (crystalline). Trace pyrite. Hematite on fractures. Pink. Very siliceous.
N005 - 4+45W, 0+00N	-	Pink siliceous breccia? Hematite stain.
N006 - 5+40W, 0+05N	-	Fine grained grey/green andesite. Chalcopyrite and pyrite. Trace hematite. Disturbed but in place.
N007 - 5+75W, 0+055	-	Fine grained, dark grey. Trace chalcopyrite.
N008 - 5+75, 0+005	-	Fine grained (appears coarser than N007). Scattered chalcopyrite ≤½. Red garnet?
N009 - 6+50W, 0+00	-	Fine grained andesite tuff. ≤2mm. Trace pyrite. Hematite stain. Vugs.
N010 - 6+50W, 0+01N	-	M. gr. feldspar porphyry. ≤3mm trace pyrite. Hematite on fractures.
N011 - 7+20W, 0+05W	-	Coarse siliceous breccia. Strong hematite, chalcopyrite, bornite pyrite. Disturbed but close to source. Trend 035° 2-3m wide 4-5m long.
N012 - 8+50W, 1+30N	-	Dark green andesite tuff. Quartz stringers. Carbonate on some fracture surface. Grab sample from around trench.

N013 - 16+20W, 1+00N	-	Andesite tuff. Well fractured. By creek. Fe stain. Copper stained clay. Possible porphyry.
N014 - 16+20W, 1+20N	-	As above. Stringers. Copper stain. Scattered pyrite. Carbonate on fractures. Possible porphyry.
N015 - 16+25W, 1+40N	-	Fine gr. tuff. Fe stain. Trace chalcopyrite-pyrite.
N016 - 16+20W, 2+25N	-	Fine grained dark grey andesite tuff cutting creek. Trace pyrite & Cu stain.
N017 - 17+20W, 2+20N	-	Hematite staining. Grab sample from pit.
N018 - 2+50W, 0+10S	-	Grab by DDH? Fe stain Cu stain. Andesite tuff?
N019 - 3+25W, 0+10S	-	Leucocratic (quartz) feldspar stringers. Pyritic.
N020 - -4+55W, 1+45N	-	Fine grained pinkish grey lenses. Breccia. Trace pyrite/hematite fracture filling.
N021 - -7+80W, 4+00N	-	Fine grained leucocratic. Weak breccia. Pyrite in fractures. Minor Cu skin.
N022 - 7+75W, 4+20N	-	Weathered monz? Rusty.
N023 -	-	Grab from trench Massive pyrite (chalcopyrite?). Strong Fe staining.
N024 - 7+20W, 4+15N	-	Grab as above. Pyrite and chalcopyrite ≤½%. Soft dark green - black altered andesite? Strong Fe staining. Minor Cu stain.
N025 -	-	Grab as above. Black altered andesite. Fractured with carbonate filling. Minor pyrite. Quartz stringers.

Gnat Creek Core Samples

G89-3-1	-	Box 2. Grab 21.2-24.33 m. Black tuff. Strongly gouged with minor quartz vein. No visible mineralization.
G89-3-2	-	Box 3. 38.71-44.9 m. Grab. Fine grained. Black soft "argillaceous". Carbonate stringers. Scattered pyrite. Strong gouge.
G89-3-3	-	Box 13-14. 78.33-84.43 m. Pink siliceous rocks with black veins @ 45° w ≤.5% pyrite (chalcopyrite?). Vuggy carbonate fractures. Minor scatted pyrite. Weak breccia.
G89-4-1	-	Grab. 178.62 - 181.68 m. Very siliceous altered rock. Breccia. Black stringers with pyrite/chalcopyrite. ≤ 1% pyrite in stringers.
G89-4-2	-	Grab. 194.92 - 196.0 m. Siliceous andesitic tuff. ≤1% pyrite in stringers.
G89-4-3	-	124.38 - 125.0 m. Similar to G89-4-2
G89-6-1	-	Box 1. Grab. 10.28 - 18.31 m. Siliceous breccia. Scattered pyrite in fractures. Leucocratic.
G89-6-2	-	Box 5. Grab. 37.06 - 38.71 m. Black siliceous tuff. 10 mm quartz stringers. Pyrite scattered. Weak breccia.
G89-6-3	-	Box 8. Grab 49.37-55.17 m. Siliceous buff tuff. Minor pyrite in fractures.
G89-6-4	-	Box 13-14. Grab. 84.43-94.60 m. Light-medium grey siliceous andesite porphyry. Pheno ≤3mm. Trace pyrite.

G89-6-5	-	Box 16. Grab 105-106. Tuff with black bands with blebs of pyrite ≤1-2% and quartz stringers.
G89-7-1	-	Box 19. 123.5-127.1 m. Grab. Calcite stringers and gouge in fine grained grey tuff. Siliceous.
G89-7-2	-	Box 20. 127.1-129.78 m. Grab. Very siliceous fine grained pink rock. Disseminated crystalline pyrite.
G89-7-3	-	Box 24. 156.49-153.1 m. Grab. Brecciated contact. Porphyry? & monzonite.
G89-7-4	-	Box 1. 9.50-15.94 m. Grab. Buff. Siliceous. Wk to mod breccia. Trace disseminated chalcopyrite.

APPENDIX 3

ROCK AND CORE SAMPLES
ANALYTICAL PROCEDURES AND RESULTS

ANALYTICAL PROCEDURES

Geochemical Analysis

by Bondar-Clegg :

ELEMENT		LOWER DETECTION LIMIT	EXTRACTION	METHOD
Au	Gold	5.0 ppb	fire-assay	atomic absorption
Ag	Silver	0.2 ppm	HNO3-HCl hot extr	ind. coupled plasma
Al*	Aluminum	0.02 %	HNO3-HCl hot extr	ind. coupled plasma
As	Arsenic	5.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Ba*	Barium	5.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Bi	Bismuth	5.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Ca*	Calcium	0.05 %	HNO3-HCl hot extr	ind. coupled plasma
Cd	Cadmium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Co*	Cobalt	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Cr*	Chromium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Cu	Copper	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Fe*	Iron	0.01 %	HNO3-HCl hot extr	ind. coupled plasma
Hg■	Mercury	0.010 ppm	HNO3-HCl leach	cold vapour atomic absorption
K*	Potassium	0.05 %	HNO3-HCl hot extr	ind. coupled plasma
La*	Lanthanum	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Mg*	Magnesium	0.05 %	HNO3-HCl hot extr	ind. coupled plasma
Mn*	Manganese	0.01 %	HNO3-HCl hot extr	ind. coupled plasma
Mo*	Molybdenum	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Na*	Sodium	0.05 %	HNO3-HCl hot extr	ind. coupled plasma
Ni*	Nickel	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Pb	Lead	2.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Sb*	Antimony	5.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Sn*	Tin	20.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Sr*	Strontium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Te*	Tellurium	10.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
V*	Vanadium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
W*	Tungsten	10.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Y	Yttrium	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma
Zn	Zinc	1.0 ppm	HNO3-HCl hot extr	ind. coupled plasma

- Please note: certain mineral forms of those elements above marked with an asterisk will not be soluble in the HNO3/HCl extraction. The ICP data will be low biased.

- Please note: Hg will only be analysed upon request.

Date of Report: 93.09.22 Project 608 Gnat Pass

File: ROCK_93.WK3

Rock Sampling Results
1993

Reference: v93-00907.0(.1,.6)

Sample ID	Cu ppm	Cu %	Au ppb	Mo ppm	Ag ppm	Pb ppm	Zn ppm	Cd ppm	As ppm	Sb ppm	Bi ppm	Ni ppm	Co ppm	Cr ppm	Fe %
689-3-1	54		12	2	1.1	40	26	<1	73	47	6	8	5	66	1.71
689-3-2	209		10	2	<0.2	27	26	<1	17	<5	7	24	30	65	4.55
689-3-3	3229		18	6	<0.2	9	36	<1	58	6	12	5	23	26	3.26
689-4-1	7011		44	34	0.6	7	31	<1	77	<5	19	8	6	48	4.87
689-4-2	10507		24	124	<0.2	10	44	<1	<5	<5	37	11	10	29	8.65
689-4-3	14916		158	18	0.7	21	82	<1	11	<5	38	7	7	34	6.93
689-6-1	3960		25	13	0.3	5	37	<1	77	<5	8	7	15	23	3.42
689-6-2	369		<5	5	<0.2	6	40	<1	20	8	9	3	17	17	4.28
689-6-3	198		6	<1	<0.2	26	55	<1	19	<5	6	3	11	27	2.53
689-6-4	1086		<5	2	0.5	42	188	<1	25	<5	<5	4	4	41	2.34
689-6-5	2409		59	16	0.7	157	452	<1	13	<5	8	5	12	27	4.34
689-7-1	140		<5	10	0.3	19	30	<1	42	7	<5	7	9	89	1.93
689-7-2	22		<5	2	<0.2	4	24	<1	30	<5	7	2	8	19	2.60
689-7-3	47		<5	1	<0.2	12	23	<1	20	<5	<5	7	7	58	1.37
689-7-4	862		6	7	<0.2	8	27	<1	20	<5	7	3	8	41	2.69
N-001	5193		92	19	0.9	7	73	<1	11	<5	21	10	36	19	4.56
N-002	825		8	2	<0.2	4	27	<1	18	<5	<5	6	10	41	2.20
N-003	3850		20	11	0.5	7	128	<1	10	<5	9	5	6	35	3.73
N-004	581		<5	<1	<0.2	4	23	<1	8	5	<5	3	3	25	2.03
N-005	2008		<5	6	<0.2	2	37	<1	6	<5	<5	4	6	30	3.03
N-006	1029		9	2	<0.2	5	25	<1	12	<5	6	3	11	40	3.31
N-007	1563		12	5	<0.2	5	57	<1	15	<5	12	7	13	17	4.42
N-008	594		<5	1	<0.2	7	45	<1	9	<5	12	27	20	172	5.11
N-009	240		10	<1	<0.2	6	35	<1	11	<5	9	27	18	96	4.08
N-010	62		<5	2	<0.2	5	15	<1	9	<5	<5	6	4	47	1.34
N-011	3062		15	16	0.6	7	20	<1	10	<5	13	6	5	61	2.46
N-012	191		<5	<1	<0.2	116	176	<1	9	<5	12	45	19	167	4.22
N-013	7837		24	17	<0.2	11	22	<1	11	<5	39	15	10	38	>10.00
N-014	11148		40	63	0.2	5	31	<1	<5	<5	39	13	14	21	9.02
N-015	3901		<5	14	<0.2	5	23	<1	16	<5	16	11	12	29	7.24
N-016	5509		13	18	0.2	4	31	<1	7	<5	22	14	16	30	6.69
N-017	1183		<5	9	<0.2	3	19	<1	9	<5	8	6	6	37	3.08
N-018	5189		24	88	0.7	10	21	<1	9	<5	13	4	4	76	1.35
N-019	424		18	62	<0.2	4	10	<1	13	<5	<5	5	4	66	1.68
N-020	2131		21	44	0.3	7	29	<1	62	<5	7	7	21	28	4.17
N-021	5258		14	2	0.7	4	13	<1	11	<5	14	3	6	43	3.67
N-022	271		<5	2	<0.2	4	39	<1	20	<5	<5	5	6	55	2.25
N-023	>20000	8.68	535	2593	10.1	9	<1	<1	32	<5	136	5	4	98	8.11
N-024	4479		26	17	0.6	3	14	<1	42	<5	13	11	6	150	2.28
N-025	3225		16	12	0.4	4	25	<1	127	<5	9	6	4	78	2.26
CRUSHED ROCK	10756		65	23	<0.2	13	69	1	40	<5	<5	23	56	91	7.22
HIGH GRADE	1461		10	21	<0.2	8	67	<1	23	<5	<5	22	20	94	4.48

Project 608 Gnat Pass

Rock Sampling Results
1993 (Part 2)

Sample ID	Mn ppm	Ba ppm	V ppm	Sr ppm	Y ppm	La ppm	Te ppm	Sn ppm	W ppm	Al %	Mg %	Ca %	Na %	K %
689-3-1	980	54	14	274	3	1	<10	<20	<20	0.85	0.43	10.00	0.02	0.36
689-3-2	698	35	46	93	10	1	<10	<20	<20	1.10	0.57	1.72	0.03	0.54
689-3-3	693	25	70	92	7	4	<10	<20	<20	0.99	0.94	4.82	0.02	0.10
689-4-1	759	35	30	58	7	3	<10	<20	<20	0.95	0.86	1.89	0.03	0.12
689-4-2	1167	48	84	73	7	3	<10	<20	<20	0.75	0.90	1.49	0.04	0.11
689-4-3	770	25	44	56	7	6	<10	<20	<20	0.57	0.98	1.37	0.04	0.08
689-6-1	695	47	57	41	9	21	<10	<20	<20	0.98	0.78	1.80	0.05	0.35
689-6-2	1014	33	146	46	8	11	<10	<20	<20	2.19	1.23	2.51	0.08	0.24
689-6-3	815	34	32	55	12	14	<10	<20	<20	0.77	0.74	1.61	0.08	0.22
689-6-4	481	53	22	27	6	17	<10	<20	<20	0.43	0.46	0.70	0.08	0.22
689-6-5	1005	51	119	105	8	5	<10	<20	<20	1.31	1.21	1.69	0.14	0.27
689-7-1	918	62	16	261	12	4	<10	<20	<20	0.68	0.39	7.15	0.03	0.21
689-7-2	1298	409	20	272	9	7	<10	<20	<20	1.21	0.98	4.14	0.01	0.41
689-7-3	1121	86	27	373	7	9	<10	<20	<20	0.53	0.17	7.74	0.05	0.22
689-7-4	582	48	63	96	10	14	<10	<20	<20	1.00	0.83	1.74	0.12	0.18
N-001	1061	110	112	31	9	14	<10	<20	<20	2.30	1.17	0.47	0.08	0.40
N-002	316	64	27	23	10	8	<10	<20	<20	0.86	0.24	0.26	0.07	0.27
N-003	708	46	43	11	12	17	<10	<20	<20	0.67	0.16	0.30	0.15	0.16
N-004	810	56	10	67	12	19	<10	<20	<20	0.53	0.51	2.30	0.13	0.29
N-005	990	52	19	67	10	11	<10	<20	<20	0.55	0.84	3.11	0.09	0.18
N-006	521	50	65	18	10	15	<10	<20	<20	1.00	0.31	0.53	0.14	0.21
N-007	988	49	76	29	14	3	<10	<20	<20	1.63	1.28	0.95	0.15	0.23
N-008	638	46	149	28	6	3	<10	<20	<20	1.48	1.40	1.91	0.14	0.36
N-009	576	48	167	29	6	2	<10	<20	<20	1.36	1.21	1.80	0.16	0.28
N-010	280	56	21	18	2	3	<10	<20	<20	0.77	0.40	0.26	0.16	0.16
N-011	697	67	18	51	2	2	<10	<20	<20	0.37	0.97	3.74	0.11	0.19
N-012	1570	70	152	87	3	<1	<10	<20	<20	2.31	1.57	8.41	0.12	0.25
N-013	392	23	95	20	11	<1	<10	<20	<20	0.96	0.44	0.88	0.05	0.01
N-014	933	32	100	28	7	<1	<10	<20	<20	2.81	1.43	2.68	0.02	0.19
N-015	275	111	63	14	7	14	<10	<20	<20	1.16	0.50	0.61	0.02	0.27
N-016	432	80	105	22	12	8	<10	<20	<20	1.36	1.00	0.70	0.05	0.30
N-017	480	114	45	16	11	17	<10	<20	<20	0.74	0.23	0.62	0.10	0.24
N-018	323	112	35	28	6	9	<10	<20	<20	0.55	0.20	0.40	0.08	0.26
N-019	75	96	18	21	3	9	<10	<20	<20	0.73	0.05	0.16	0.11	0.37
N-020	975	89	35	47	18	16	<10	<20	<20	0.48	0.30	1.30	0.08	0.22
N-021	562	79	37	38	12	17	<10	<20	<20	0.51	0.39	1.53	0.08	0.15
N-022	361	82	24	22	7	10	<10	<20	<20	0.82	0.07	0.20	0.12	0.30
N-023	175	9	14	10	4	<1	16	<20	<20	0.31	0.05	0.23	0.02	0.11
N-024	294	24	37	25	5	1	<10	<20	<20	0.57	0.44	0.85	0.07	0.16
N-025	667	110	24	142	4	<1	<10	<20	<20	0.24	1.10	4.34	0.02	0.06
CRUSHED ROCK	787	51	109	110	8	6	<10	<20	<20	1.51	1.33	3.74	0.05	0.21
HIGH GRADE	1118	91	106	105	9	7	<10	<20	<20	1.85	1.72	4.23	0.07	0.26

Date of Report: 93.09.22 Project 608 Gnat Pass

File: ROCK_93.WK3

Rock Sampling Results
1993

Reference: v93-00907.0(.1,.6)

Sample ID	Cu ppm	Cu %	Au ppb	Mo ppm	Ag ppm	Pb ppm	Zn ppm	Cd ppm	As ppm	Sb ppm	Bi ppm	Ni ppm	Co ppm	Cr ppm	Fe %
Duplicate:															
689-3-1 prep	-		12	4	-	-	-	<1.0	-	-	5	8	4	78	1.54
689-6-2	342		5	5	<0.2	5	39	<1.0	16	5	8	3	17	17	4.50
N-010	64		-	2	<0.2	2	15	<1.0	17	5	5	6	3	48	1.38

Project 608 Gnat Pass

Rock Sampling Results
1993 (Part 2)

Sample ID	Mn ppm	Ba ppm	V ppm	Sr ppm	Y ppm	La ppm	Te ppm	Sn ppm	W ppm	Al %	Mg %	Ca %	Na %	K %
Duplicate:														
689-3-1 prep	911	-	14	279	4	2	<10	<20	<20	0.74	0.37	>10.00	0.02	0.32
689-6-2	1015	33	147	45	8	11	<10	<20	<20	2.23	1.23	2.67	0.08	0.24
N-010	285	60	21	19	2	3	<10	<20	<20	0.81	0.41	0.26	.0.17	0.17
N-016														

APPENDIX 4

DRILL LOG DESCRIPTIONS

Core Logs

G 89-3

Box 1	~14.0 - 19.12 -	Fine-medium grained Tuff. Medium - dark grey. Core moderately well broken with gouge material scattered throughout. Fe stained fractures.
Box 2	19.12 - 25.67 -	As above. Strong gouge 21.2 - 24.33 with occasional quartz vein (largest 4cm).
Sample #1		
Box 3	25.67 - 30.51 -	Tuff ? Core is composed of coarser fragments at 28.65. Irregular fragments ≤ 8 mm.
Box 4	30.81 - 35.94 -	As above with local porphyry.
Box 5	35.94 - 38.71 -	As above.
	38.71 - 41.56 -	Soft block "argillaceous" rock. Mixed contact with above. Scattered blebs of pyrite. Probably altered Tuff. Very minor carbonate stringers.
Sample #2		
Box 6	41.56 - 46.83 -	As above.
Box 7	46.83 - 52.20 -	Mixed contact between above and very siliceous buff to light grey breccia.
Box 8	52.20 - 57.00 -	Siliceous buff to light grey weak breccia "cooked tuff?". Scattered pyrite. Minor chlorite/sericite alteration on some fractures.
Box 9	57.00 - 61.69 -	As above.
Box 10	61.69 - 67.23 -	As above. Medium grey And. tuff 62.58-63.78.
Box 11	67.23 - 72.24 -	As above.
Box 12	72.24 - 77.07 -	As above.

Box 13	77.07 - 78.33 -	As above.
	78.33 - 82.60 -	Pink sil. rocks. Numerous black stringers @ 45° with ≤.5% pyrite. Minor clay alteration on some fractures.
Sample #3		
Box 14	82.60 - 84.43 -	Vuggy carbonate stringers.
	84.43 - E.O.H.	

G89-6

Sample #1		
Box 1	10.28 - 18.31 -	Sil. breccia with pyrite fracture filling (minor). Pink - buff. Possibly cooked Tuff?. Core well broken.
Box 2	18.31 - 23.47 -	Same.
Box 3	23.47 - 18.90 -	Same. Weakly effervescent fractures.
Box 4	28.90 - 33.88 -	Same.
Sample #2		
Box 5	33.88 - 37.06 -	Same. ~1.5 m lost
	37.06 - 38.71 -	Black sil. And. tuff. Weak-moderate. Brecciated as above. Scattered pyrite (Chalco?) in fractures.
Box 6	38.71 - 42.73 -	Grey to buff coloured siliceous tuff. Weak.
Box 7	42.73 - 49.29 -	Breccia. Trace pyrite (chalco). Weakly effervescent fractures.
Sample #3		
Box 8	49.29 - 55.17 -	Minor limonite skins on some fractures.
Box 9	55.17 - 61.45 -	54.57 - ~.5m well broken core.
Box 10	61.45 - 67.12	

Box 11	67.12 - 73.72	
Box 12	73.72 - 79.90 -	73.85 - 78.33 - Core well broken.
Box 13	79.90 - 84.43	
Sample #4		
	84.43 - 91.57 -	Medium to dark grey siliceous And. porphyry (Tuff?). Trace pyrite.
Box 14	91.57 - 94.60 -	As above.
	94.60 - 98.36 -	Buff to light grey siliceous Tuff.
Box 15	98.36 - 104.41	Mixed porph. & tuff. Silicified. Trace scattered pyrite.
Box 16	104.41 - 101.78	
Box 17	101.78 - 117.96	~3-4m lost core. Medium grey silicified tuff. Breccia.
G89-7		
Box 1	~9.5 - 15.74	Very siliceous buff to grey coloured rx. Disseminated trace chalco. Weak to moderate breccia. Rusty fractures.
Sample #4		
Box 2	15.94 - 21.37	As above.
Box 3	21.37 - 22.62	As above.
Box 4	22.62 - 26.97	Medium grained, quartz monzonite.
	28.04 - 30.30	Mixed Monzonite & Tuff. Brecciated sections with rounded monzonite fragments in dark grey matrix.
	30.30 - 32.61	F.gr. - m.gr. Tuff. Medium grey.
Box 5	32.61 - 38.71	As above. Rocks become darker towards lower contact.
Box 6	38.71 - 39.37	As above.
	39.37 - 43.81	Black, soft "argillaceous" rocks. Minor carbonate on fractures.
Box 7	43.81 - 50.02	As above.

Box 8	50.02 - 59.45	As above.
	57.10 - 59.45	Core badly broken.

G89 - 7

Box 9	- 67.06	Medium - dark grey granular looking rocks. Andesite tuff? Minor carbonate stringers.
Box 10	67.06 - 67.40	As above.
	67.40 - 73.04	Black soft "argillaceous" rocks. Weak disseminated local pyrite as above.
Box 11	73.04 - 78.78	As above.
Box 12	78.78 - 80.35	Medium grey porphyry? Andesite coarser towards lower contact.
	80.35 - 85.40	As above.
	85.40 - 86.24	Black "argillaceous" rocks.
Box 13	86.24 - 92.25	Medium grey tuff. From 87.48 - 92.05 rock is leached and "rotten" with occasional gouge.
Box 14	92.25 - 98.05	Tuff becoming finer grained with carbonate stringers weakly scattered. Minor sections of "argillaceous" rx. Occasional gouge.
Box 15	98.05 - 103.75	Tuff. Definite baunding @ 0-10° to core axis. Minor carbonate stringers.
Box 16	103.75 - 109.03	As above.

G 89 - 7

Box 17	- 114.69	Light-medium grey felsic tuff. Occasional quartz stringer. Minor.
Box 18	114.69 - 120.26	Carbonate skins on fractures. Generally medium grained.

Sample #1

Box 19	120.26 - 127.10	≤3mm but becomes progressively finer grained towards contact @ 127.10.
Sample #2		
Box 20	127.10 - 129.78	Very siliceous buff coloured rock. Pyrite crystals scattered throughout (very minor). Fine grained.
	129.78 - 132.97	F. gr. to m. gr. felsic tuff. Light grey.
Box 21	132.97 - 138.65	As above.
Box 22	138.65 - 144.50	As above.
Box 23	144.50 - 146.00	As above.
	146.00 - 149.97	Brecciated contact with quartz monzonite. Chunks of monzonite (≤10cm) generally exhibiting rounded edges in dark grey matrix.
Sample #3		
Box 24	149.97 - 155.46	As above.
Box 25	155.46 - 160.63	As above.
E.O.H.		

6458000N

6457000N

6456000N

To Dease Lake
20 km

Gnat Creek

CL2

CL1

500N

500S

BASE LINE

BL1800

BL1500

BL1000

BL0500

BL00

Nat 7
T.N. 320621

Nat 5
T.N. 320619

Nat 3
T.N. 320617

Nat 1
T.N. 320615

Nat 8
T.N. 320622

Nat 6
T.N. 320620

Nat 4
T.N. 320618

Nat 2
T.N. 320616

1400

1500

1300

1200

1100

1000

Lower Gnat Lake

451000E

452000E

LEGEND

- Soil sample location
- 25 — Values shown in parts per billion Gold
- – — Indicates value less than detection limit for element

AR
23576

True North 0°38'E
Topographic contour interval = 20 metres

METRES
0 50 100 150 200 250 300 350

SCALE 1:5000

DRAWN: February 21/1994
Revised:
Oct. 25/1994

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DISCOVERY Consultants

PREDATOR SYNDICATE

GNAT PASS PROPERTY
SOIL SAMPLING
GOLD VALUES

Date: Oct. 26/1994	Scale: 1:5000
Project: 608	NTS: 104I/5W
M.D.: Liard	Figure: 8

6458000N

6457000N

6456000N

To Dease Lake
20 km

Gnat Creek

Lower Gnat Lake

CL2

CL1

500N

500S

BASE LINE

BL1800

BL1500

BL1000

BL0500

BL00

Nat 7
T.N. 320621

Nat 5
T.N. 320619

Nat 3
T.N. 320617

Nat 1
T.N. 320615

Nat 8
T.N. 320622

Nat 6
T.N. 320620

Nat 4
T.N. 320618

Nat 2
T.N. 320616

1400

1500

1200

1300

4510000E

4520000E

LEGEND

○ Soil sample location

25 Values shown in parts per million Copper

AR
23576

True North 0°38'E
Topographic contour interval = 20 metres

METRES
0 50 100 150 200 250 300 350

SCALE 1:5000

DRAWN: February 21/1994
Revised:
Oct. 25/1994

DWG-c:\acad\disc\608\608.dwg

DISCOVERY Consultants

PREDATOR SYNDICATE

GNAT PASS PROPERTY
SOIL SAMPLING
COPPER VALUES

Date: Oct. 26/1994	Scale: 1:5000
Project: 608	NTS: 104I/5W
M.D.: Liard	Figure: 7

6458000N

To Dease Lake 20 km

Creek

Creek

CL2

CL1

500N

1400

1500

1300

1200

1100

Nat 7
T.N. 320621

Nat 5
T.N. 320619

Nat 3
T.N. 320617

Nat 1
T.N. 320615

CL2.500N
CL2.400N
CL2.300N
CL2.200N
CL2.100N

CL1.500N
CL1.400N
CL1.300N
CL1.200N
CL1.100N

BL1800
BL1500
BL1000
BL0500
BL00

BASE LINE

6457000N

BL1900 BL1750 BL1700 BL1650 BL1600 BL1550 BL1500 BL1450 BL1400 BL1350 BL1300 BL1250 BL1200 BL1150 BL1100 BL1050 BL1000 BL0950 BL0900 BL0850 BL0800 BL0750 BL0700 BL0650 BL0600 BL0550 BL0500 BL0450 BL0400 BL0350 BL0300 BL0250 BL0200 BL0150 BL0100 BL0050 BL0000

Nat 8
T.N. 320622

Nat 6
T.N. 320620

CL2.100S
CL2.200S
CL2.300S
CL2.400S
CL2.500S

CL1.100S
CL1.200S
CL1.300S
CL1.400S
CL1.500S

Nat 4
T.N. 320618

Nat 2
T.N. 320616

500S

CL2

CL1

1200

1300

Lower Gnat Lake

4510000E

4520000E

6456000N

LEGEND

○ ???? Soil sample location

AR 23576

True North 0°38'E
Topographic contour interval = 20 metres

METRES

0 50 100 150 200 250 300 350

SCALE 1:5000

DRAWN: February 21/1994
Revised:
Oct. 25/1994

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DISCOVERY Consultants

PREDATOR SYNDICATE

GNAT PASS PROPERTY

SOIL SAMPLING

SAMPLE LOCATION MAP

Date: Oct. 26/1994	Scale: 1:5000
Project: 608	NTS: 104I/5W
M.D.: Liard	Figure: 6

LEGEND

- ROCK SAMPLE LOCATION
  VALUES SHOWN IN PARTS PER BILLION GOLD
  - INDICATES <5 ppb Au
- DDH G89-2 — DIAMOND DRILL HOLE LOCATION
- 45 — Indicates attitude of jointing
- Geological boundary

AR
23576

6458000N

6457000N

6456000N

To Dease Lake
20 km

Gnat Creek

Lower Gnat Lake

1200

1400

1500

1300

4520000E

4510000E

Nat 7
T.N. 320621

Nat 8
T.N. 320622

Nat 5
T.N. 320619

Nat 6
T.N. 320620

Nat 3
T.N. 320617

Nat 4
T.N. 320618

Nat 1
T.N. 320615

Nat 2
T.N. 320616

Fine grained Andesitic Tuff
Pit
Andesitic Tuff
Trace cp & py
Conglomerate/Tuff?
Pink weathering
Fine-medium grained Andesitic Tuff
Hematitic fractures

Quartz monzonite
Fine grained siliceous
leucocratic breccia
Cu stain, py

DDH G89-6
DDH G89-5
DDH G89-4
DDH G89-3
DDH G89-2
DDH G89-7

Trench
Dark green
Andesitic Tuff

Andesitic porphyry
Andesitic Tuff

Rusty
porphyritic
andesite

Pink-grey
leucocratic breccia
Fe stain, py

Porphyritic andesite

Andesitic tuff
Rusty breccia
cp py hem

Disturbed siliceous
breccia, strong hem
trace cp, bo, py

Dark green fine
grained Andesite

Pink fine grained
siliceous hematite
stained felsite

True North 0°38'E
Topographic contour interval = 20 metres

METRES
0 50 100 150 200 250 300 350

SCALE 1:5000

DISCOVERY Consultants

PREDATOR SYNDICATE

GNAT PASS PROPERTY
GEOLOGY AND ROCK SAMPLING
GOLD VALUES

Date: Oct. 26/1994	Scale: 1:5000
Project: 608	NTS: 104I/5W
M.D.: Liard	Figure: 5

DRAWN: February 21/1994
Revised:
Oct. 25/1994

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LEGEND

] ROCK SAMPLE LOCATION
VALUES SHOWN IN PARTS PER MILLION COPPER

DDH G89-2 — DIAMOND DRILL HOLE LOCATION

45 — Indicates attitude of jointing

— — — Geological boundary

AR23576

6458000N

6457000N

6456000N

To Dease Lake
20 km

Gnat Creek

Lower Gnat Lake

1400

1500

1600

1300

1900

Nat 7
T.N. 320621

Nat 8
T.N. 320622

Nat 5
T.N. 320619

Nat 6
T.N. 320620

Nat 3
T.N. 320617

Nat 1
T.N. 320615

Nat 4
T.N. 320618

Nat 2
T.N. 320616

Quartz monzonite

Fine grained siliceous leucocratic breccia
Cu stain, py

DDH G89-6

DDH G89-5

DDH G89-4

DDH G89-3

DDH G89-2

DDH G89-7

Pink-grey leucocratic breccia
Fe stain, py

Fine grained Andesitic Tuff
] 1163
5509

Pit

Andesitic Tuff
Trace cp & py
3901
11148
7837
Conglomerate/Tuff?
Pink weathering

Fine-medium grained Andesitic Tuff
Hematitic fractures

Trench
191

Dark green Andesitic Tuff

Andesitic porphyry

Andesitic Tuff

Rusty porphyritic andesite
2131

Porphyritic andesite

Andesitic tuff
Rusty breccia
cp py hem

Disturbed siliceous breccia, strong hem trace cp, bo, py

Dark green fine grained Andesite

Pink fine grained siliceous hematite stained felsite

DRAWN: February 21/1994
Revised:
Oct. 25/1994

DWG-c:\acad\disc\608\608.dwg

True North 0.38°E
Topographic contour interval = 20 metres

METRES
0 50 100 150 200 250 300 350

SCALE 1:5000

DISCOVERY Consultants

PREDATOR SYNDICATE

GNAT PASS PROPERTY
GEOLOGY AND ROCK SAMPLING
COPPER VALUES

Date: Oct. 26/1994	Scale: 1:5000
Project: 608	NTS: 104I/5W
M.D.: Liard	Figure: 4

6458000N

6457000N

6456000N

451000E

452000E

To Dease Lake
20 km

Gnat Creek

Lower Gnat Lake

1400

1500

1300

1200

1300

Nat 7
T.N. 320621

Nat 8
T.N. 320622

Nat 5
T.N. 320619

Nat 6
T.N. 320620

Nat 3
T.N. 320617

Nat 1
T.N. 320615

Nat 4
T.N. 320618

Nat 2
T.N. 320616

Quartz monzonite

Fine grained siliceous leucocratic breccia
Cu stain, py

Fine grained Andesitic Tuff

Pit

Andesitic Tuff
Trace cp & py

Conglomerate/Tuff?
Pink weathering

Fine-medium grained Andesitic Tuff
Hematitic fractures

Trench

Dark green Andesitic Tuff

Andesitic porphyry

Andesitic Tuff

Rusty porphyritic andesite

Andesitic tuff
Rusty breccia
cp py hem

Porphyritic andesite

Pink-grey leucocratic breccia
Fe stain, py

Disturbed siliceous breccia strong hem trace cp, bo, py

Dark green fine grained Andesite

Pink fine grained siliceous hematite stained felsite

DDH G89-1
DDH G89-2
DDH G89-3
DDH G89-4
DDH G89-5
DDH G89-6

N001
N002
N003
N004
N005
N006
N007
N008
N009
N010
N011
N012
N013
N014
N015
N016
N017
N018
N019
N020
N021
N022
N023
N024

65°
60°
34°
30°
70°

LEGEND

N-01) ROCK SAMPLE LOCATION

DDH G89-2 DIAMOND DRILL HOLE LOCATION

45 Indicates attitude of jointing

Geological boundary

AR
23576

True North 0°38'E
Topographic contour interval = 20 metres

METRES
0 50 100 150 200 250 300 350

SCALE 1:5000

DRAWN: February 21/1994
Revised:
Oct. 25/1994

DWG-c:\acag\disc\608\608.dwg

DISCOVERY Consultants

PREDATOR SYNDICATE

GNAT PASS PROPERTY
GEOLOGY AND ROCK SAMPLING
SAMPLE LOCATION MAP

Date: Oct. 26/1994	Scale: 1:5000
Project: 608	NTS: 104I/5W
M.D.: Liord	Figure: 3