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GEOCHEMICAL REPORT

on the

W. BOYD - 1 CLAIM

OMINECA M.D.

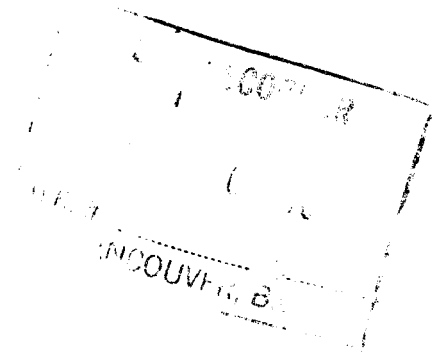
N.T.S. 93-K-11W

Lat.: 54° 38' N

Long.: 125° 22' W

by

U. Mowat



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,590

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1.0 INTRODUCTION

On September 16, 1990, one man collected 21 soil samples and 4 rock samples from a flagged grid. The grid consists of 500 meters of baseline with cross lines every 50 meters. Samples were collected every 50 meters and were analysed for 30 elements by ICP and gold by atomic absorption.

The aim of the program, although brief due to financial constraints is to determine if there is any similarities to the Mount Sidney Williams gold property and to see if the syenite has any economic potential.

2.0 LOCATION AND ACCESS

The W. Boyd-1 Claim is located 75 km west northwest of Fort St. James on map sheet 93-K-11W at co-ordinates 54° 38' N and 125° 22' W.

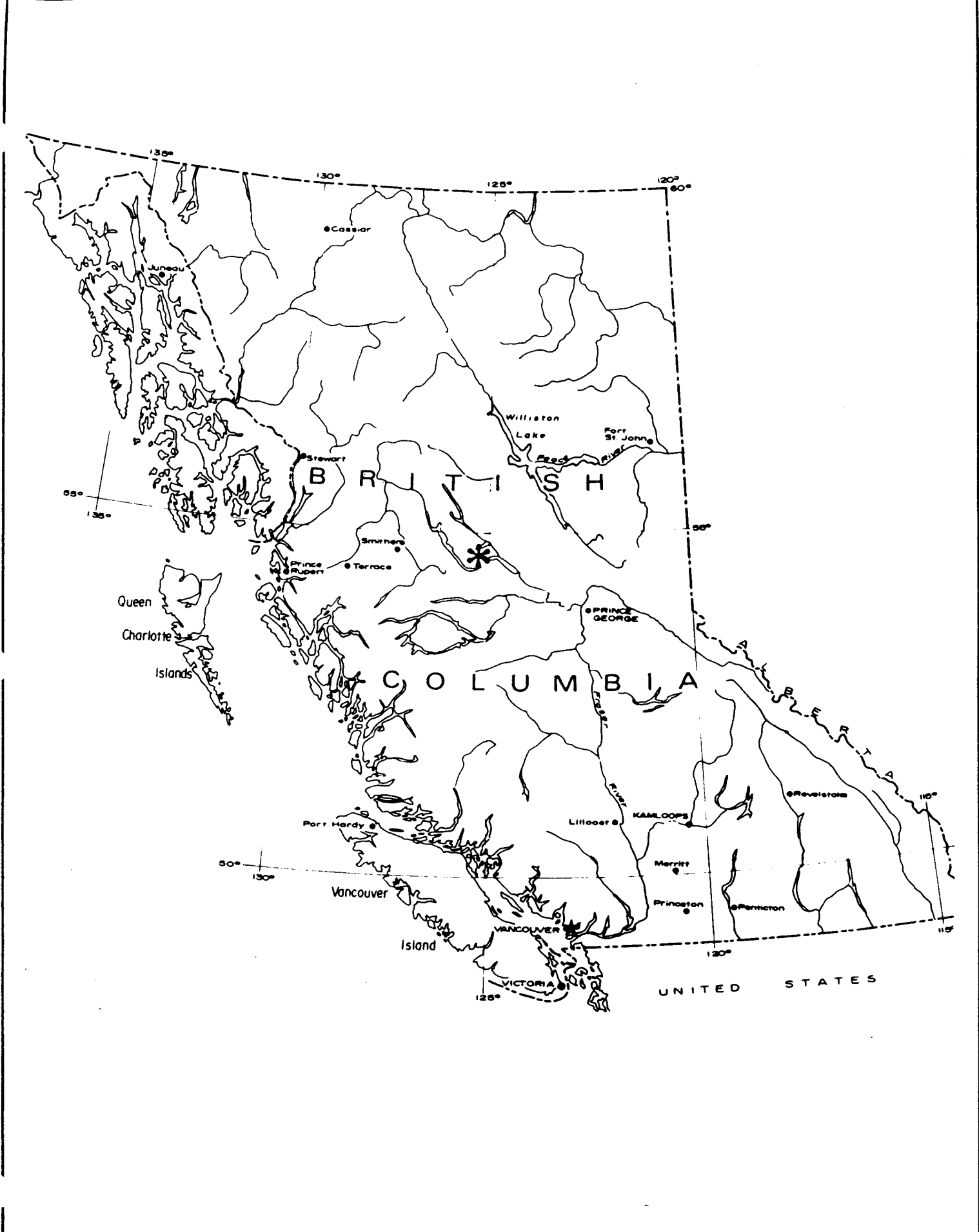
Access to the property is at present by helicopter.

3.0 CLAIM DATA

<u>Claim Name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Record Date</u>
W. Boyd-1	9192	16	Nov. 9/87

4.0 HISTORY

There is no past exploration activity recorded in the vicinity of the W. Boyd-1 Claim. The only mention of the area appears in Memoir 252 and G.S.C. Paper 38-10.



**W. BOYD - 1 CLAIM
LOCATION MAP**

DATE:

SCALE:

DRAWING No. **1**

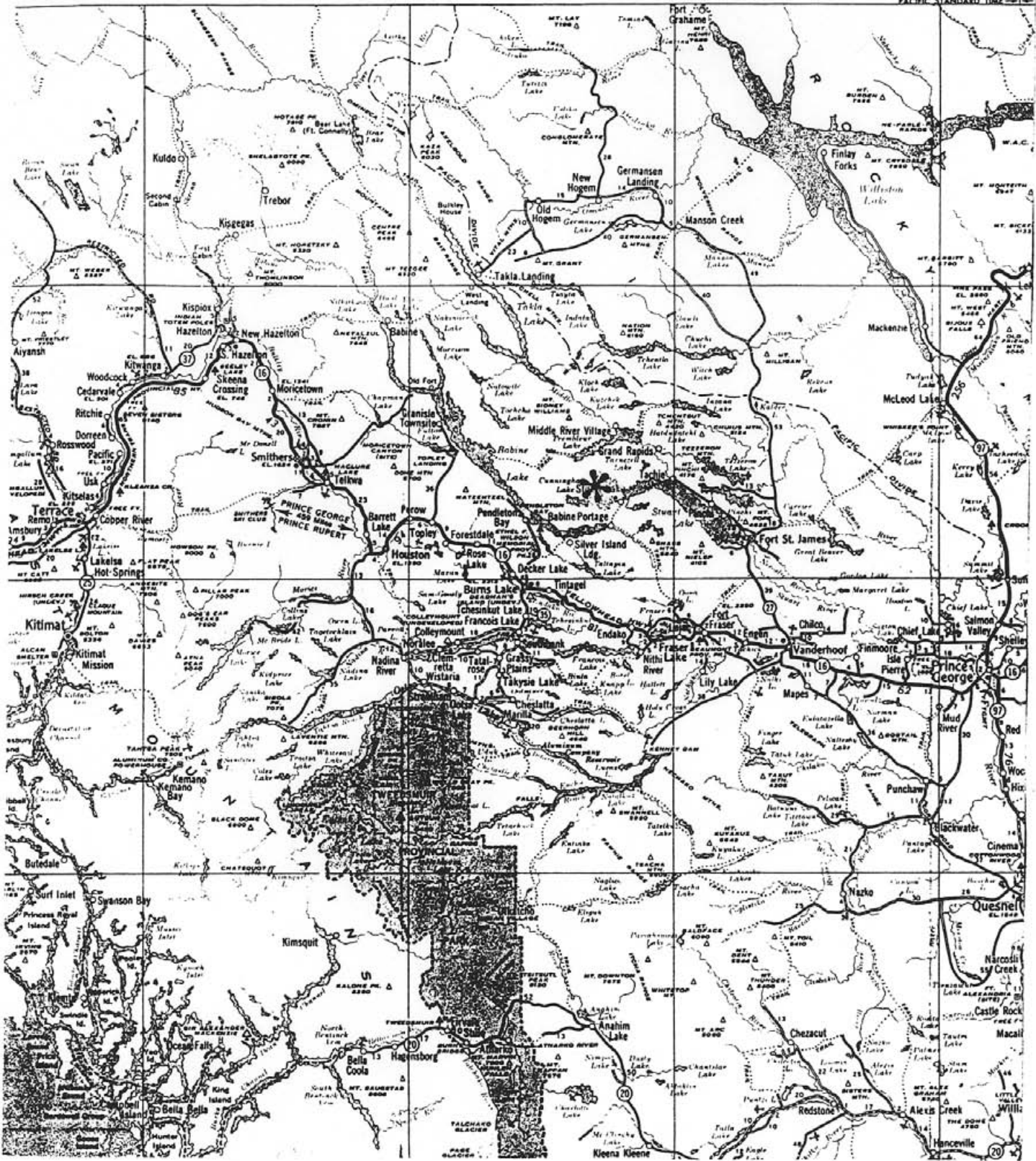


figure 2

ACCESS MAP

The W. Boyd-1 Claim was staked in November, 1987 in order to cover a strong aeromagnetic anomaly plus a syenite intrusive. In 1988, a reconnaissance program of prospecting and sampling was carried out over the property and consisted of 125 hectares of prospecting. Fifteen silt samples, 35 soil samples and 20 rock samples were collected.

5.0 REGIONAL GEOLOGY

The Rubyrock Lake area which lies between Cunningham and Stuart Lakes is underlain predominantly by an ultramafic batholith some 100 sq. km in area. The batholith appears to have a central core of peridotite, dunite and harzburgite. The core is bordered on the east and west by pyroxenite and then by gabbroic rocks. The dunite forms irregular bodies within the peridotite. All phases of the ultramafic batholith are intensely serpentized. A stock of saussuritized, chloritized hornblende diorite/syenite 1.5 km in diameter outcrops south of Rubyrock Lake. The intrusive is located well within the mapped outlines of the ultramafic batholith.

Eocene (?) volcanics consisting of basaltic flows, andesitic and basaltic dykes, vesicular and amygdaloidal andesitic and dacitic lava flows, flow breccia and feldspar porphyry outcrop to the northwest of Rubyrock Lake.

The ultramafic batholith intrudes Cache Creek andesites, limestones and argillites.

6.0 PROPERTY GEOLOGY

The following rock types outcrop on the W. Boyd-1 Claim:

- 1) Light grey, medium to coarse-grained, kaolinized syenite or monzonite with chloritized hornblende. In several areas the granitic was noted to be sheared, brecciated into granitic clasts and had numerous quartz veinlets.
- 2) A light grey, intensely sericitized unit of aphanitic material occurs in close proximity to the medium to coarse-grained syenite. It could not be ascertained whether this lithology was a volcanic or a very fine grained sheared contact zone of the syenite. Rusty crackle zones and silicified areas were seen in this lithology.
- 3) Ultramafics on the property consist of intensely serpentized, pale green olivine harzburgite cut by asbestiform veinlets, nodular olivine harzburgite with peridotite nodules reaching up to 10 cm and a gabbroic phase with 5 - 10% disseminated pyrrhotite.
- 4) A small outcrop of black argillite was also noted on the property.
- 5) A small outcrop of a coarse-grained feldspar porphyry was also seen. It is believed that this may be a dyke.

7.0 MINERALIZATION

The only mineralization noted to date is a minor amount pyrite which occurs as disseminations within the altered syenite and in areas of crackling and disseminated pyrrhotite in a gabbro.

8.0 ALTERATION

The most notable form of alteration occurs within the ultramafic which is intensely serpentinized and cut by asbestiform veining.

Alteration within the intrusive consists of moderate to intense sericitization and chloritization of the mafics. Quartz veinlets were noted in the brecciated and sheared syenite in one location.

In the aphanitic material, zones of intense silicification have been noted. Although abundant, the largest zone only reaches 0.3 meters in width.

9.0 STRUCTURE

An examination of airphotos covering the property show that there are two extremely prevalent directions of lineations and those are due northwest and due east-west. In the case of Toe Jam Lake, the northwest lineation represents a major fault zone and contact between the ultramafic and the dacite.

The east-west lineations, although undoubtedly enhanced by glaciation, are curiously restricted to an area from Joyce Lake to south of Rubyrock Lake. The few outcrops that were located show that at least in part, the lineations are fault scarps. Whether or not they are also contact zones could not be determined due to the paucity of outcrop.

The economic significance of the structures has not yet been determined.

10.0 GEOCHEMISTRY

On September 16, 1990, the author collected 21 soil samples and 4 rock samples from a flagged grid. The grid consists of 500 meters of baseline with cross lines every 50 meters. Samples were collected every 50 meters from the "B" horizon where possible. Because of extremely swampy conditions and the fact that an intense forest fire had destroyed at least 15 to 30 cm of top soil most samples were taken at a depth of 45 to 60 cm. All samples were analysed for 30 elements by ICP and gold by atomic absorption.

The total length of grid established is 1000 meters.

11.0 RESULTS

The results of the soil sampling and general prospecting are inconclusive. It was hoped that the Ni-Cr geochemistry would reveal the contact between the granitic material and the ultramafic. However, it appears that Ni-Cr values are equally as high over both rock types except at station 2+00E/0+50N. The nickel is extremely low (64 ppm) and the area is underlain by serpentinite.

No trends were revealed by the sampling. The highest gold value of 17 ppb occurs near the coarse-grained feldspar porphyry dyke. The only other value of interest is an isolated one of 473 ppm copper.

12.0 CONCLUSIONS

Due to the limited nature of the geochemical program, no conclusions can be drawn at this time.

13.0 REFERENCES

- Paper 38-10, Northwest Quarter of the Fort Fraser Map-Area, B.C., by J. E. Armstrong, 1938.
- Memoir 252, Fort St. James Map-Area, Cassiar and Coast Districts, B.C., by J. E. Armstrong, 1949.
- Assessment Report 18120, Report on W. Boyd-1 Claim, by U. Mowat, December 1988

APPENDIX

STATEMENT OF QUALIFICATIONS

1. I am a graduate of the University of British Columbia having graduated in 1969 with a Bachelor of Science in Geology.
2. I have practiced my profession since 1969 in mineral exploration, oil and gas exploration and coal exploration.
3. I have a direct interest in the W. Boyd-1 Claim.

Ursula G. Mowat

Ursula G. Mowat

DATED THIS 26th DAY OF November, 1990 AT VANCOUVER, B.C.

STATEMENT OF COSTS

Helicopter

0.8 hours at \$595/hour	\$476.00
fuel - 20 gal. at \$3.75/gal.	75.00

Analyses

21 soil samples analysed for 30 elements by ICP and Au by AA at \$7.75/sample	162.75
21 soil preparation charges at \$0.85/sample	17.85
4 rock samples analysed for 30 elements by ICP and Au by AA at \$7.75/sample	31.00
4 rock preparation charges at \$3.00/sample	12.00

Labour

1 man for 3 days at \$300.00/day	900.00
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Airphotos

12 airphotos at \$8.00/photo	96.00
6% tax	5.76
service charge	19.09

Accommodation

1 room for 1 day at \$34.56/day	34.56
1 room for 2 days at \$40.04/day	82.08

Meals

72.15

Gas

33.00

Reproduction

35.00

TOTAL

\$2,052.24

SAMPLE DESCRIPTIONS

- 11650 White silicified intrusive (?), aphanitic with very fine-grained pyrite
- 11664 Dark Green chloritized diorite with hematite replacing sulphide
- 11665 Dark green chloritized diorite with hematite replacing sulphide
- 11666 Grab sample of quartz veinlets and pervasive silica in a light green volcanic

GEOCHEMICAL ANALYSIS CERTIFICATE

Ursula Mowat File # 90-4666 Page 1

1405 - 1933 Robson St., Vancouver BC V6G 1E7

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 %	V ppm	Au* ppb
11667	3	44	8	99	.5	77	17	893	3.81	8	5	ND	1	52	1.2	2	2	63	2.22	.110	10	71	1.35	528	.09	2	1.30	.04	.09	2	5
11668	5	43	2	73	.3	108	19	1137	3.54	8	5	ND	1	29	.6	2	2	65	1.16	.082	9	95	1.42	445	.14	3	1.12	.01	.09	3	6
11669	3	76	11	218	1.4	93	18	465	4.43	45	5	ND	2	102	2.3	7	2	74	2.69	.731	35	48	.36	402	.06	6	3.05	.01	.13	1	9
11670	3	89	14	224	1.5	87	18	1892	4.89	36	5	ND	1	122	5.3	6	2	82	4.65	.507	35	42	.10	528	.06	4	3.09	.01	.13	1	6
11671	2	134	5	283	1.3	80	16	1304	6.92	59	5	ND	1	67	3.9	11	2	117	6.45	.357	25	56	.27	419	.07	3	4.24	.01	.12	1	3
11672	2	104	9	251	1.2	93	19	1178	5.81	29	5	ND	1	69	3.5	7	3	93	3.98	.401	28	54	.33	426	.06	5	3.57	.01	.16	1	5
0+00E 0+50N	2	56	7	99	.6	230	16	1065	3.57	68	5	ND	1	76	.5	2	2	57	.75	.090	30	103	1.30	201	.06	2	2.10	.02	.06	1	1
0+50E 0+50N	1	20	2	76	.2	106	10	282	2.67	6	5	ND	1	32	.2	2	2	51	.22	.057	9	73	.97	140	.07	4	1.54	.01	.03	1	1
1+00E 0+50N	1	20	5	90	.1	123	12	276	4.18	11	5	ND	1	26	.3	2	3	71	.18	.084	8	98	1.26	163	.06	2	2.46	.01	.04	1	1
1+50E 0+50N	1	23	5	62	.2	249	18	473	2.97	5	5	ND	1	42	.2	2	2	51	.39	.039	10	143	1.45	127	.06	2	1.46	.01	.03	1	2
2+00E 0+50N	1	11	5	64	.1	64	7	195	2.34	2	5	ND	1	25	.2	2	2	51	.19	.035	7	78	.99	113	.07	2	1.34	.01	.03	1	1
2+50E 0+50N	2	18	2	76	.2	149	13	294	3.29	6	5	ND	1	36	.2	2	2	58	.24	.063	10	156	1.79	147	.07	3	1.53	.01	.03	1	1
3+00E 0+50N	1	125	4	106	.3	122	13	329	3.82	5	5	ND	1	36	.2	2	2	63	.61	.069	12	101	1.10	158	.05	3	2.04	.01	.05	1	1
3+50E 0+50N	2	37	4	128	.2	126	18	373	5.57	18	5	ND	1	32	.6	5	2	93	.29	.173	7	135	1.39	235	.06	2	2.74	.01	.06	1	1
4+00E 0+50N	1	37	9	111	.2	39	10	353	3.62	9	5	ND	1	32	.3	2	2	63	.38	.059	8	30	.65	178	.05	2	2.37	.01	.03	1	3
4+00E 0+50S	2	27	2	99	.3	26	9	304	3.44	2	5	ND	1	24	.2	2	2	74	.27	.031	6	38	.67	104	.07	2	1.76	.01	.03	1	1
BL 0+00E	2	27	11	105	.1	62	11	416	3.59	28	5	ND	1	48	.4	2	2	69	.28	.083	10	62	.61	278	.04	2	1.77	.01	.05	1	1
BL 0+50E	3	23	6	79	.1	201	20	309	4.19	11	5	ND	1	55	.2	2	2	72	.29	.106	11	159	1.80	248	.06	2	2.44	.01	.04	1	4
BL 1+00E	2	27	3	105	.2	136	14	298	3.99	8	5	ND	1	35	.2	2	2	63	.22	.102	11	115	1.39	204	.04	4	2.48	.01	.05	1	1
BL 1+50E	2	22	6	90	.1	108	14	230	4.29	14	5	ND	1	28	.2	2	2	69	.15	.069	12	114	1.12	207	.07	2	2.81	.01	.03	1	17
BL 2+00E	1	21	6	81	.2	101	10	476	3.10	3	5	ND	1	44	.2	2	2	52	.34	.034	12	60	1.00	166	.08	2	1.42	.02	.04	1	1
BL 2+50E	1	27	8	58	.1	339	22	488	3.59	11	5	ND	1	50	.3	2	2	62	.36	.032	10	202	2.58	153	.06	2	1.95	.02	.03	1	6
BL 3+00E	1	37	3	110	.4	169	23	504	4.77	18	5	ND	1	42	.3	2	2	125	.57	.053	5	463	3.51	117	.18	2	4.04	.05	.05	1	3
BL 3+50E	1	25	4	71	.1	146	14	315	3.19	8	5	ND	1	39	.3	2	2	61	.31	.064	12	132	1.91	158	.07	2	1.86	.01	.04	1	9
BL 4+00E	1	78	2	113	.1	179	17	460	3.97	15	5	ND	1	50	.8	2	2	72	.60	.067	13	148	1.59	214	.03	2	2.93	.01	.04	1	1
BL 4+50E	1	473	4	99	.3	204	32	1000	4.03	11	5	ND	1	35	.9	2	2	67	1.49	.102	22	129	.88	159	.04	2	3.41	.01	.03	1	1
BL 5+00E	2	50	7	65	.1	88	10	195	3.51	7	5	ND	1	21	.2	2	2	71	.15	.062	10	122	.82	152	.04	3	2.14	.01	.02	1	1
STANDARD C/AU-S	19	59	38	131	7.1	71	31	1049	3.98	37	18	6	37	53	18.4	14	22	57	.51	.097	37	57	.93	180	.09	33	1.89	.06	.14	11	53

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 SOIL P2 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

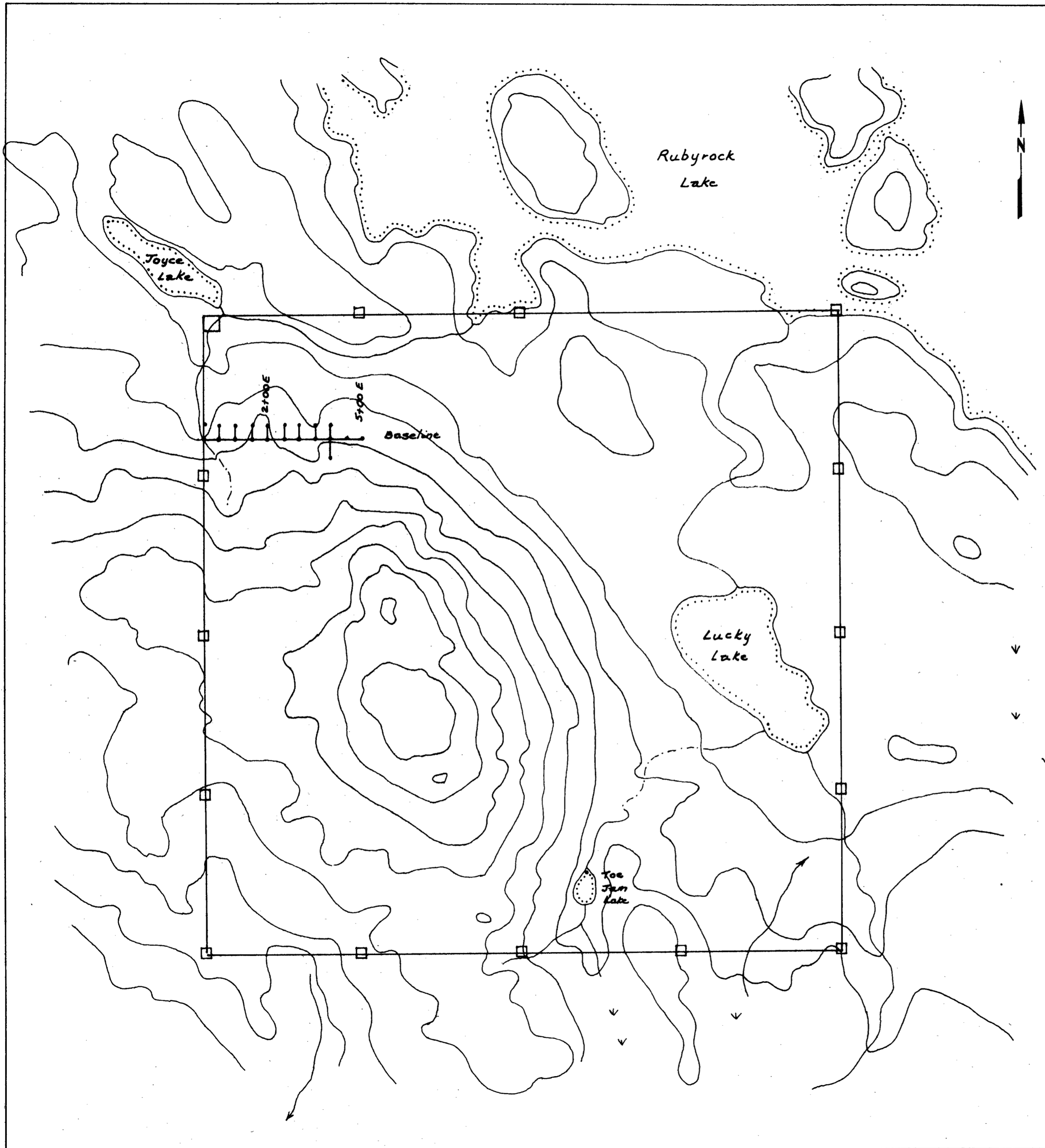
DATE RECEIVED: SEP 21 1990

DATE REPORT MAILED:

Sept 28/90

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 %	M ppm	Au* ppb
C 11650	1	3	18	20	.1	2	2	148	.54	4	5	ND	15	3	.2	2	2	3	.03	.002	13	2	.02	29	.01	2	.24	.04	.10	1	1
C 11664	1	51	10	89	.2	35	24	787	4.31	6	5	ND	1	83	1.0	3	2	87	1.25	.094	6	34	3.00	164	.15	3	3.13	.03	.08	1	1
C 11665	1	158	10	49	.5	4	4	364	3.96	2	5	ND	1	8	.9	3	2	58	.19	.017	2	37	1.73	70	.15	2	1.57	.03	.05	1	2
C 11666	3	2	5	11	.1	17	4	171	.82	2	5	ND	1	11	.2	2	2	24	.53	.008	2	48	.42	8	.06	2	.61	.03	.01	1	1



- ┆ sample site
- ┆ LCP
- ┆ ID post
- ∨ swamp
- ◌ lake

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

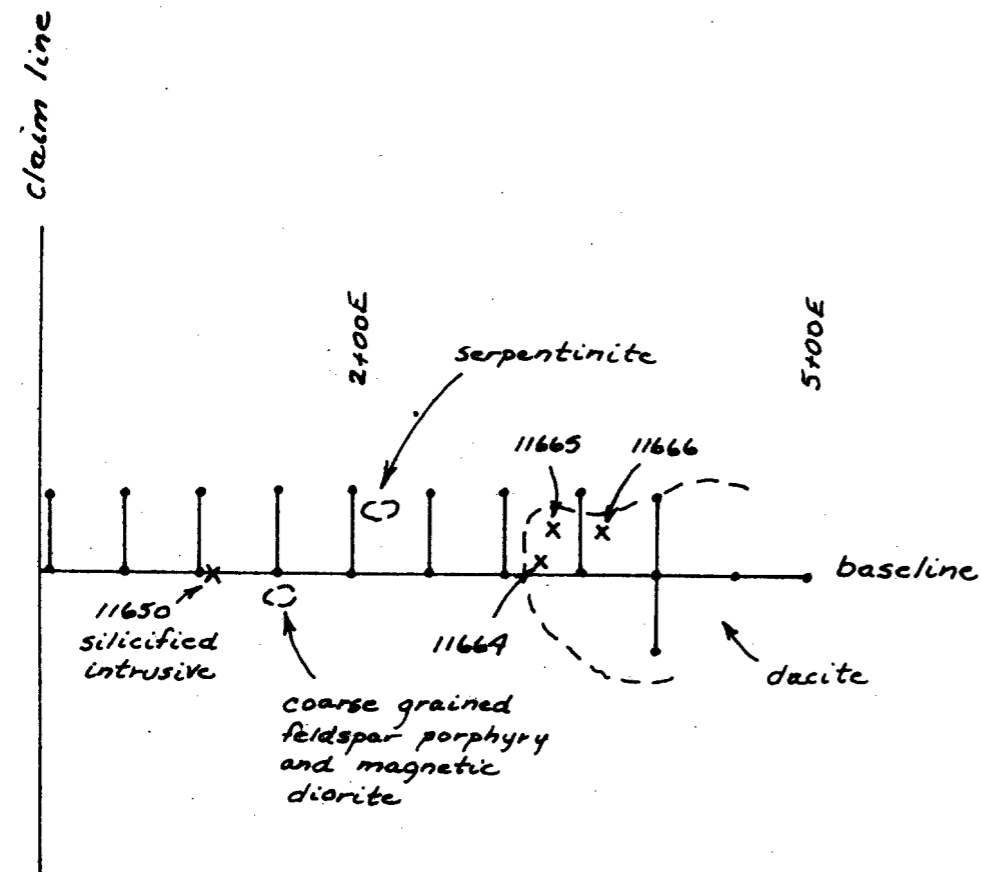
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**GRID LOCATION
MAP**

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

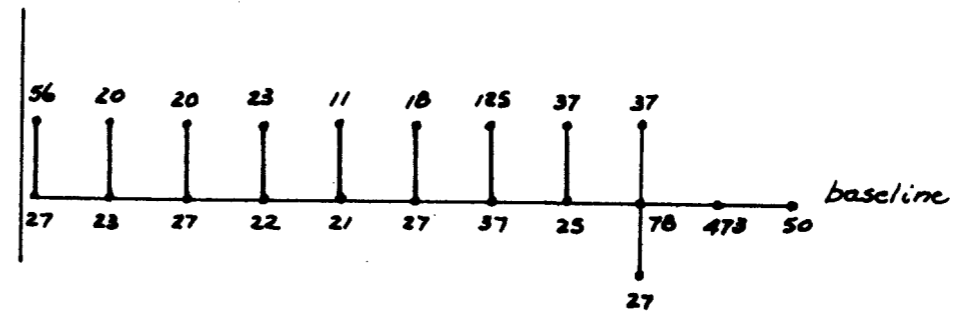
20,590



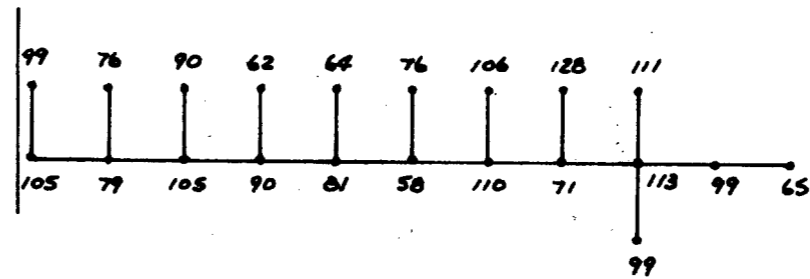
- soil sample site
- x rock sample
- outcrop



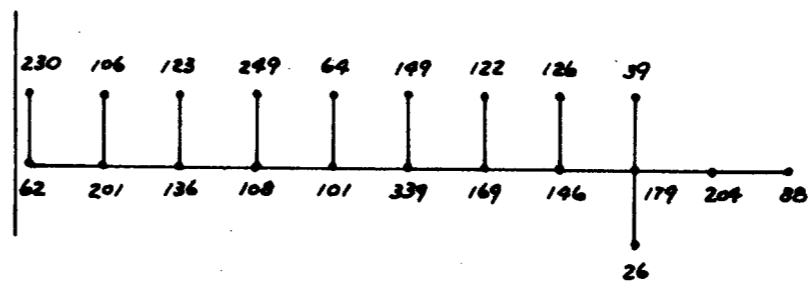
Cu (ppm)



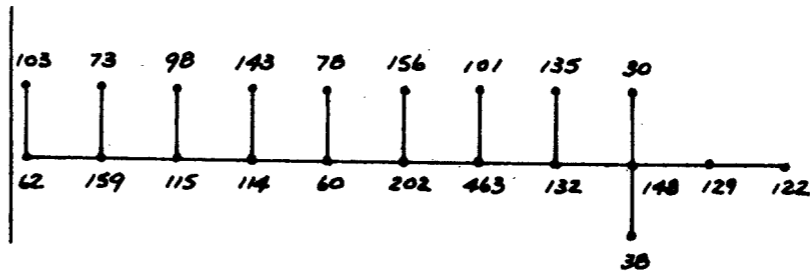
Zn (ppm)



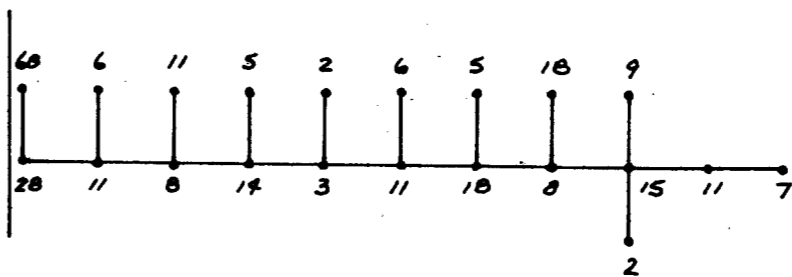
Ni (ppm)



Cr (ppm)



As (ppm)



Geology,
Sample Numbers
and
Geochemical
Data

