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MINING ENGINEERING**

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84-#741-12868

6/85

1984 ASSESSMENT REPORT

on the

KITIMAT RIVER PROPERTY

(MAT 1 and MAT 2 CLAIMS)

Skeena Mining Division - British Columbia

Lat. $54^{\circ} 08' N.$

Long. $128^{\circ} 12' W.$

N.T.S. 103 I/1E

for

ABO OIL CORPORATION

by

Donald G. Allen, P. Eng. (B.C.)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,868

September 10, 1984

Vancouver, B. C.

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SUMMARY

ABO OIL CORPORATION holds two 20 unit claims (MAT 1 and 2) covering a porphyry molybdenum-copper prospect 50 km southeast of Terrace, B. C., in the Kitimat River area. The property is about 30 km from the nearest road, so access at present is by helicopter. Logging roads will probably provide access in the future. The property is one of a number of important molybdenum prospects lying on the east flank of the Coast Plutonic Complex in west central British Columbia. The most important deposit in the district is AMAX's Kitsault Mine (about 100 million tons grading 0.2% MoS₂) 160 km to the northwest.

The property lies within Coast Plutonic rocks eight km from their contact with Hazelton Group volcanic rocks. Main intrusive rocks on the property are soda granite and quartz feldspar porphyry. A roof pendant of massive fine-grained volcanic rocks outcrops in the northwestern part of the claim group. Intrusive breccias and swarms of dikes ranging from diorite to quartz monzonite occur in the area.

Quartz vein stockworks containing molybdenite are exposed in two of the three major creeks draining the area (Mantle and Gossan Creeks). The two zones are 2500 metres apart and each are exposed over a distance of 600 to 1000 metres along the creeks. They are localized in the granite and quartz feldspar porphyries. Pyrite is widespread in quartz veins, as

fracture coatings and as disseminations. Chalcopyrite, in minor amounts, is frequently associated with both pyrite and molybdenite. The main alteration types are silicification (pervasive and as quartz veins), feldspathization and sericitization. Alteration is structurally controlled and commonly associated with molybdenite mineralization. Sampling by former owners (AMAX EXPLORATION) indicates average grades in the range 0.02 to 0.03% MoS₂ and 0.02 to 0.03% Cu on surface; however, large portions of the mineralized area could not be sampled because of rugged topography.

In 1984 a program of bulk sampling and reconnaissance geochemical sampling was carried out to confirm results of sampling by AMAX and to investigate the potential for precious and base metal mineralization. This work confirmed similar grades (up to 0.04% MoS₂ and 0.2% Cu). The precious metal potential appears to be limited.

CONCLUSION

Although grade exposed on the present erosion surface is low, the property has a number of features associated with major molybdenite deposits such as:

- 1) molybdenite occurs over a very large area indicating a large hydrothermal system;
- 2) intrusive and structural history is complex - acid porphyries and intrusive breccias are especially favourable features;

3) hydrothermal alteration and quartz vein stockwork development are widespread and locally intense.

There are indications that the quartz feldspar porphyry exposed in Gossan Creek is the source of the molybdenite and might underlie mineralization in Mantle Creek. Depth potential is therefore considered favourable.

Donald G. Allen

INTRODUCTION

ABO OIL CORPORATION holds two 20 unit claim, MAT 1 and MAT 2 (Record Numbers 3098 and 3099 - expiry date June 22, 1984) in the Kitimat River area. The claims cover a porphyry molybdenite prospect that lies in a belt of important molybdenite deposits on the east flank of the Coast Plutonic Complex of west central British Columbia. The most important deposit in the belt is the Kitsault Mine (about 100 million tons grading 0.2% MoS₂) 160 km to the northwest.

This report summarizes results of prospecting and geochemical sampling carried out in 1984. Work was carried out by D. J. Cuvelier, S. Travis and J. Travis during the period June 16 to June 20, 1984. Purpose of this work was to confirm results of previous work and to investigate the precious and base metal potential. This report also summarizes results of previous work (Gambardella and Richardson, 1967; Allen, 1979) on the property.

CLAIM DATA

The Kitimat River Property comprises two 20 claim units as follows:

<u>Name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Anniversary Date</u>
MAT 1	3098	20	June 22
MAT 2	3099	20	June 22

The claims are registered in the name of ABO OIL CORPORATION.

LOCATION, ACCESS, PHYSIOGRAPHY

The Kitimat River property is situated 50 km southeast of Terrace and 30 km east-northeast of Kitimat (Figure 1). The property lies on the west side of the upper reaches of Kitimat River about 30 km upstream from the intersection of Kitimat River and Highway 25. At the present time, access is by helicopter, based in Terrace. Logging roads will provide access to the area in the future.


The property lies in the Coast Range Mountains. Topography is rugged with steep slopes rising from the Kitimat River floor at 425 metres (1,400 feet) to elevations of 1500 metres (5,000 feet) on nearby ridges. Three westerly-flowing tributaries of Kitimat River (unofficially named Gossan, Lamp and Mantle Creeks) deeply dissect the valley walls covered by the claims. The molybdenite showings lie between elevations of 600 metres (2,000 feet) and 1100 metres (3,500 feet) in Gossan and Mantle Creeks.

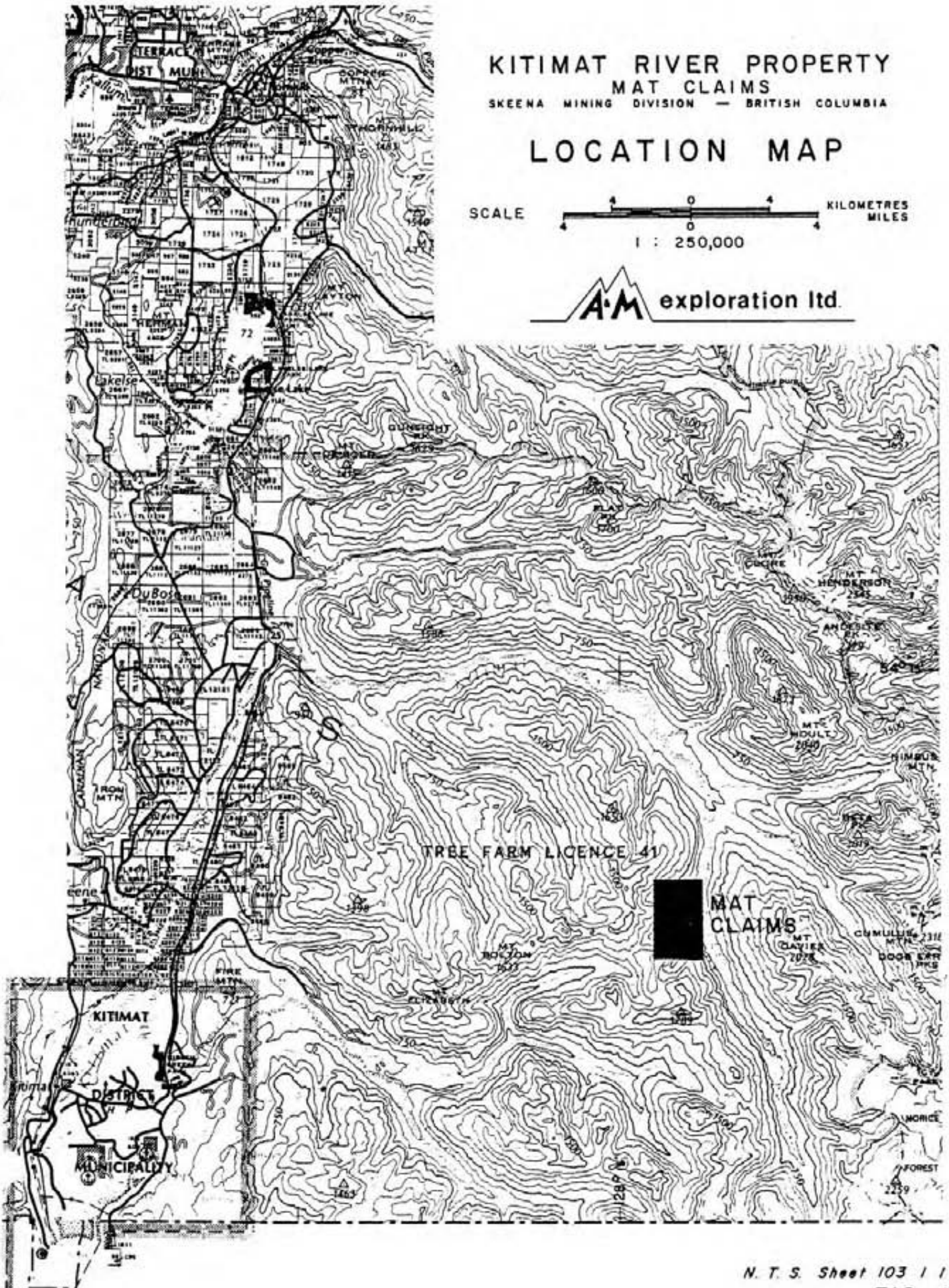
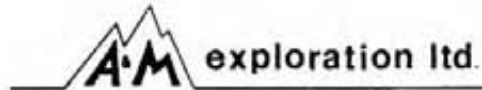
HISTORY

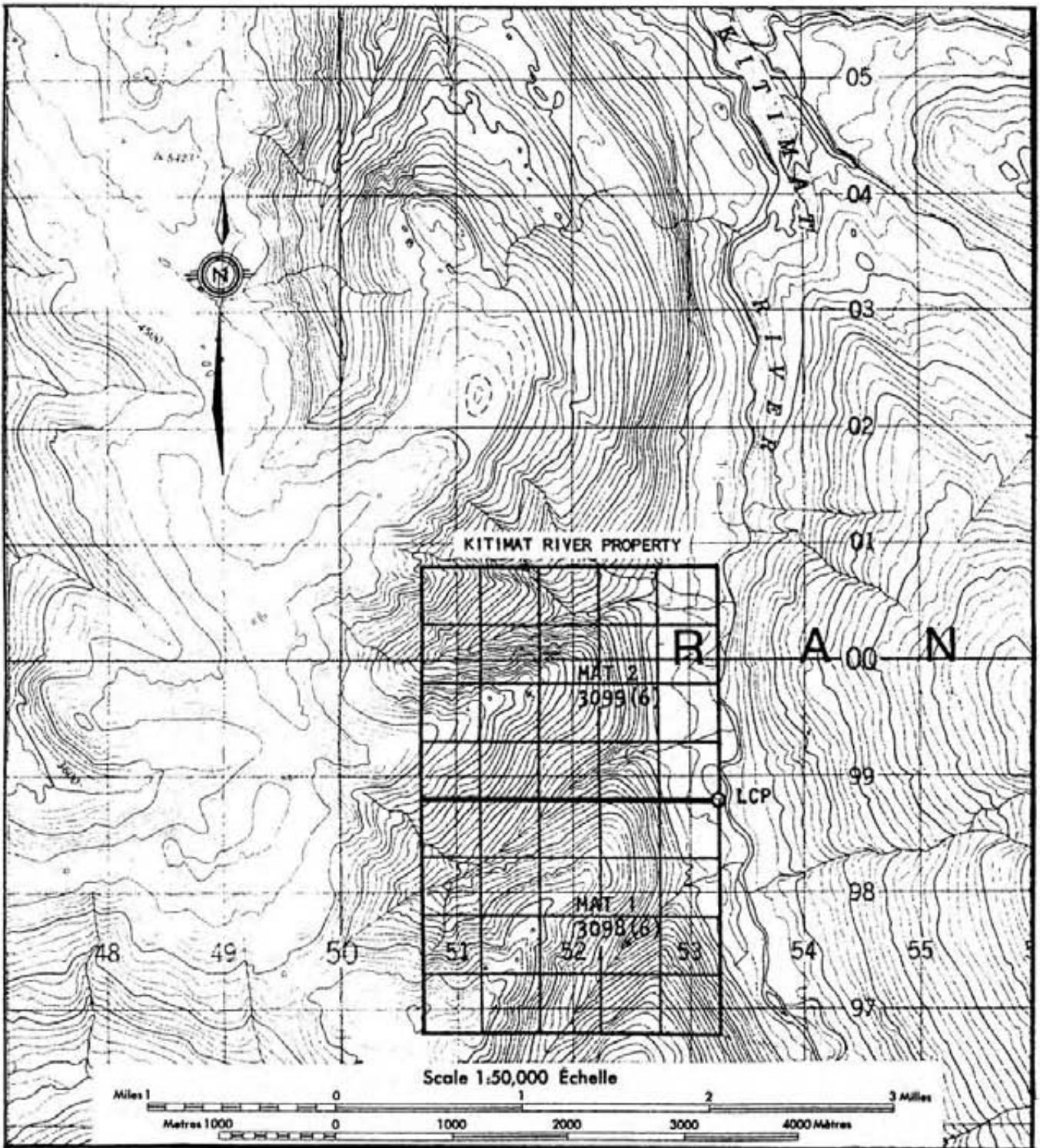
The property was staked originally by AMAX Exploration Inc. in 1965. Work carried out by AMAX included prospecting, line cutting, geological mapping, soil and rock chip sampling and induced polarization surveys. (Gambardella and Richardson, 1967; Bell and Sutherland, 1965; Allen, 1979).

KITIMAT RIVER PROPERTY
MAT CLAIMS
SKEENA MINING DIVISION — BRITISH COLUMBIA

LOCATION MAP

SCALE  KILOMETRES
MILES
1 : 250,000





ABO OIL CORPORATION
KITIMAT RIVER PROPERTY

CLAIM MAP

Figure 2

1031/1E

 Donald & Allan
exploration Ltd.

GEOLOGY

Regional Geology

The property lies on the eastern margin of the Coast Plutonic Complex, eight km inside the contact with Jurassic Hazelton Group volcanic rocks. A roof pendant of Hazelton volcanics underlies part of the claim group and a roof pendant of Triassic limestone and volcanic rocks lies to the west of the property. Several phases of Coast Plutonic rocks have been mapped in the area including gabbro, hornblende biotite diorite, biotite granodiorite, soda granite and muscovite granite. Northwest trending dikes ranging in composition from diorite to quartz monzonite, suggest a tectonic weakness of regional extent.

Property Geology

Generalized geology is illustrated in Figure 3. Outcrops occur mainly on the steep valley walls, some of which are inaccessible. Ridges and more gentle slopes are covered with dense vegetation, so contacts locally may be somewhat conjectural.

Oldest rocks in the claim area are massive, medium to dark green andesite of the Hazelton Group which forms a roof pendant in Coast Plutonic rocks.

A variety of intrusive rocks occurs in the area. The most abundant intrusive rock is light pink to grey soda

granite. A plug of quartz feldspar porphyry about 1050 by 450 metres in dimension outcrops on the steep cliff on the south side of Gossan Creek. Biotite and muscovite bearing phases have been recognized. Intrusive breccias occur in the same areas as the porphyries but because of difficult terrain their outcrop distribution is unknown. One breccia type consists of tightly packed fragments of a variety of volcanic and plutonic rocks in a comminuted rock matrix. Another type consists of quartz feldspar porphyry fragments in a quartz matrix. Dike rocks include foliated feldspar porphyry, aplite, diorite, quartz monzonite and andesite.

Structure

Structure of the area is complex. Three main fault trends are north, northeast and northwest. Faults range in width from one centimetre to five metres. Quartz-molybdenite stockworks occur locally in granite and quartz feldspar porphyry in Gossan and Mantle Creeks. Intrusive breccias, as described above, further complicate the structural picture.

Mineralization

Pyrite, molybdenite and chalcopyrite occur in narrow quartz veinlets and to a lesser extent as fracture coatings, and as fine disseminations. The mineralized zones occur in two separate areas 2500 metres apart. In Mantle Creek, quartz-

molybdenite stockworks occur discontinuously over a horizontal distance of 600 metres and, in Gossan Creek, three weakly mineralized stockworks 15 to 50 metres wide occur over a distance of 1000 metres.

Surface sampling (119 samples - 330 linear metres) was carried out by AMAX in 1966 in the more accessible parts of the mineralized zones. Weighted average of all samples in Mantle Creek area is 0.025% MoS₂ and 0.026% Cu. Weighted average from mineralized zones in Gossan Creek is 0.019% MoS₂ and 0.029% Cu. A few samples graded in the 0.1-0.2% MoS₂ over three metres. Best interval overall is 50 metres of 0.03% MoS₂.

Alteration

A variety of alteration types have been mapped. Silicification, feldspathization and to a lesser extent sericitization are the types most consistently associated with molybdenite. The alteration is mainly structurally controlled and is very intense along shear zones, faults and fractures.

GEOCHEMISTRY

Results of soil sampling by AMAX are summarized on Figure 3. Two anomalous areas extending well beyond the known mineralized areas were outlined: 1) on the ridge between Gossan and Lamp Creeks, Mo values up to 500 ppm and Cu up to 120 ppm

occur over an area of 2300 by 600 metres and 2) in Mantle Creek, Mo values up to 500 ppm and Cu up to 140 ppm occur over an area of 1400 by 1200 metres.

1984 WORK PROGRAM

In 1984 a program of geochemical sampling was undertaken on the Kitimat River property. Purpose of this work was to 1) confirm in a general way results of work carried out by AMAX in the 1960's and 2) investigate the precious metal potential of the porphyry system. To this end prospecting, rock chip sampling, and silt and soil geochemical sampling were carried out in the accessible areas of the claim group. Rock samples consisted of two to five kilograms of rock material from outcrop or float. Silt samples consisted of stream sediment taken from active parts of the stream bed. Soil samples were taken from the B horizon at depths of 20 centimetres or more. All material was processed by standard techniques and analyzed by atomic absorption methods by Rossbacher Laboratories Ltd. Samples were analyzed for molybdenum, copper, silver, zinc, lead and gold. Sample sites are plotted along with selected results on Figures 4a and 4b and results presented in Appendix I.

Molybdenum and copper values range up to 2400 ppm and 2440 ppm respectively. This data confirms results obtained from previous sampling. A number of zinc geochemical anomalies

(150 to 418 ppm Zn) were obtained on the north slopes of Mantle Creek. Lead values are low and are not considered to be in the anomalous range. Precious metal potential is essentially negative. All gold values are 10 ppb. A few anomalous silver values (up to 3.8 ppm Ag) were obtained in Gossan Creek.

Donald J. Allen

REFERENCES

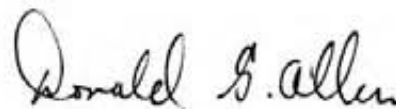
- Allen, D.G. (1979) 1979 Assessment Report, Kitimat River Property. B.C. Dept. Mines Assess. Rept. #7928.
- Bell, R.A. and Sutherland, D.B. (1965) Report on the Induced Polarization Survey on the Kitimat River Group. B.C. Dept. Mines Assess. Rept. #775.
- Gambardella, A.C. and Richardson, P.W. (1967) 1966 Final Report, Kitimat River Property. B.C. Dept. Mines Assess. Rept. #1000.

CERTIFICATE

I, Donald G. Allen, certify that:

1. I am a Consulting Geological Engineer, of A & M Exploration Ltd., with offices at #214 - 850 West Hastings Street, Vancouver, British Columbia.
2. I am a graduate of the University of British Columbia with degrees in Geological Engineering (B.A.Sc., 1964; M.A.Sc., 1966).
3. I have practised my profession of exploration geologist since 1964 to present in British Columbia, the Yukon, Alaska and various parts of the Western United States.
4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
5. This report is based mainly on fieldwork carried out by D. Cuvelier, J. Travis, S. Travis and on information listed under references.

September 10, 1984
Vancouver, B.C.


D. G. Allen,
P. Eng. (B.C.)

APPENDIX I
ANALYTICAL RESULTS

ROSSBACHER LABORATORY LTD.

2225 SOUTH SPRINGER AVENUE
 BURNABY, B.C. V5B 3N1
 TEL: (604) 299-6910

CERTIFICATE OF ANALYSIS

TO: A+M EXPLORATION LTD.
 5059 W. HASTINGS St.
 VANCOUVER B.C.

CERTIFICATE NO. :84020 - 1

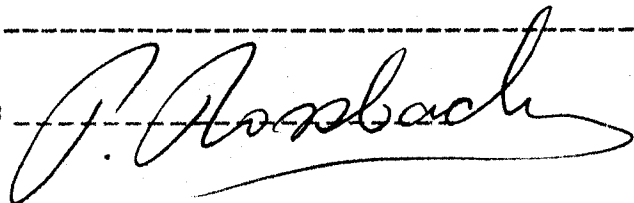
INVOICE NO. :4222

PROJECT: MAT 228

DATE ANALYSED :JULY 12 1984

SAMPLE#	PPM		PPM		PPM		PPM	
	Mo	Cu	Ag	Zn	Pb	Au		
A 84 MTT 22	1	18	0.2	44	2	10		
A 23	1	24	0.2	36	2	10		
A 26	1	4	0.2	46	2	10		
A 28	1	16	0.2	46	2	10		
A 29	1	32	0.2	32	6	10		
A 31	1	8	0.2	24	2	10		
A 32	1	6	0.2	52	2	10		
A 34	2	12	0.2	20	2	10		
A 36	1	36	0.2	58	2	10		
A 84 MTT 38	1	6	0.2	82	2	10		
A 40	158	180	0.2	26	2	10		
A 42	1	26	0.2	32	2	10		
A 44	1	26	0.2	28	2	10		
A 45	1	14	0.2	24	2	10		
A 47	374	438	0.4	32	2	10		
A 50	4	14	0.2	12	2	10		
A 51	1	10	0.2	26	2	10		
A 53	1	6	0.2	50	2	10		
A 54	1	44	0.2	72	2	10		
A 84 MTT 55	1	18	0.2	44	2	10		
A 56	3	106	0.6	46	2	10		
A 57	358	232	0.6	22	4	10		
A 84 MTT 58	21	472	0.6	64	2	10		
A 84 MTT 8	1	32	0.4	60	2	10		
A 9	7	248	0.2	120	2	10		
A 11	1	146	0.2	78	2	10		
A 13	22	58	0.2	22	2	10		
A 15	1	56	0.2	50	2	10		
A 17	2	168	0.2	118	2	10		
A 84 MTT 18	74	2110	2.0	22	2	10		
A 22	101	2440	3.8	24	2	10		
A 24	2	48	0.2	80	2	10		
A 84 MTT 25	23	136	0.2	34	6	10		

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ROSSBACHER LABORATORY LTD.

2225 SOUTH SPRINGER AVENUE
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CERTIFICATE OF ANALYSIS

TO: A+M EXPLORATION LTD.
5059 W. HASTINGS St.
VANCOUVER B.C.

CERTIFICATE NO. : 84220 - 1

INVOICE NO. : 4222

PROJECT: MAY 228

DATE ANALYSED : JULY 12 1984

SAMPLE#	PPM		PPM	PPM	PPM	PPM	PPB
	Mo	Cu	Ag	Zn	Pb	Au	
A 288 CT 20	80	122	0.2	36	4	10	
A 21	460	110	0.2	34	2	10	
A 22	28	48	0.2	22	2	10	
A 23	140	170	0.4	44	4	10	
A 25	137	90	0.2	38	2	10	
A 26	2400	162	0.2	26	6	10	
A 28	80	166	0.2	66	2	10	
A 38	4	8	0.2	30	2	10	
A 39	1	42	0.2	54	6	10	
A 288 CT 40	1	46	0.2	72	2	10	
A 41	24	20	0.2	38	2	10	
A 42	52	160	0.2	36	2	10	
A 43	176	178	0.2	26	2	10	
A 44	6	36	0.2	12	2	10	
A 48	16	30	0.2	10	2	10	
A 49	30	56	0.2	12	2	10	
A 50	45	44	0.2	42	2	10	
A 51	3	158	0.2	18	2	10	
A 52	304	352	0.2	20	2	10	
A 228 CT 53	25	226	0.2	22	8	10	
A 54	30	30	0.2	8	2	10	
A 55	2	270	0.2	20	4	10	
A 58	9	134	0.2	244	18	10	
A 60	12	24	0.2	24	4	10	
A 61	2	10	0.2	42	6	10	
A 288 CT 62	36	134	0.2	44	4	10	
A 84 MIT 1	196	72	0.2	36	2	10	
A 2	4100	1540	0.2	28	2	10	
A 4	38	148	0.2	28	2	10	
A 84 MIT 5	9	16	0.2	46	2	10	
A 6	1400	352	0.4	30	4	10	
A 7	7	18	0.2	76	2	10	
A 9	13	8	0.2	86	2	10	
A 11	2	22	0.4	36	2	10	
A 13	6	162	0.6	48	4	10	
A 14	2	10	0.2	18	2	10	
A 16	4	60	0.4	700	4	10	
A 18	3	18	0.2	28	2	10	
A 84 MIT 20	4	52	0.2	26	2	10	

CERTIFIED BY :

J. Rossbach

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 SOUTH SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
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TO: A+W EXPLORATION LTD.
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VANCOUVER B.C.

CERTIFICATE NO. : 84220 - 1

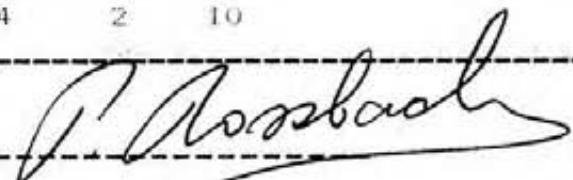
INVOICE NO. : 4222

PROJECT: MAT 228

DATE ANALYSED : JULY 12 1984

			PPM	PPM	PPM	PPM	PPM	PPB
	SAMPLE#		Mo	Cu	Ag	Zn	Pb	Au
S	288 CS 17		96	62	1.0	62	4	10
S	18		64	90	0.4	64	4	10
L	L 24		48	164	0.2	152	2	10
S	S 27		226	680	0.6	418	4	10
L	L 29		34	180	0.2	260	2	10
L	30		28	56	0.2	226	2	10
L	31		18	254	0.2	213	2	10
L	32		15	92	0.2	78	4	10
L	33		3	16	0.2	38	2	10
L	288 CL 34		10	46	0.2	58	4	10
L	35		3	24	0.2	52	2	10
L	36		1	20	0.2	58	2	10
L	37		2	12	0.2	40	2	10
L	45		24	166	0.4	112	6	10
L	46		34	206	0.4	108	6	10
L	47		46	256	0.2	110	8	10
L	56		62	488	0.6	158	2	10
L	57		3	58	0.2	86	2	10
L	288 CL 59		132	1030	0.6	174	8	10
L	84 MTL 3		20	90	0.2	98	4	10
L	8		2	58	0.2	104	2	10
L	10		3	86	0.2	172	2	10
L	12		3	50	0.2	104	2	10
L	15		2	88	0.2	146	2	10
L	17		3	70	0.2	130	2	10
L	19		5	64	0.2	116	2	10
L	21		3	74	0.2	146	2	10
L	24		3	60	0.2	120	2	10
L	25		7	88	0.2	156	2	10
L	84 MTL 27		3	82	0.4	158	4	10
S	S 30		1	72	0.2	90	2	10
S	33		24	112	0.4	234	6	10
S	35		13	30	0.4	68	4	10
S	37		2	54	0.2	86	4	10
S	39		5	94	0.4	136	2	10
L	L 41		4	56	0.4	130	2	10
L	43		5	148	0.2	212	2	10
L	46		14	88	0.2	116	4	10
S	84 MTS 48		18	66	0.2	104	2	10

CERTIFIED BY :



ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 SOUTH SPRINGER AVENUE
 BURNABY, B.C. V5B 3N1
 TEL: (604) 299-6910

TO: A-M EXPLORATION LTD.
 5059 W. HASTINGS St.
 VANCOUVER B.C.

CERTIFICATE NO. : 84220 - 2

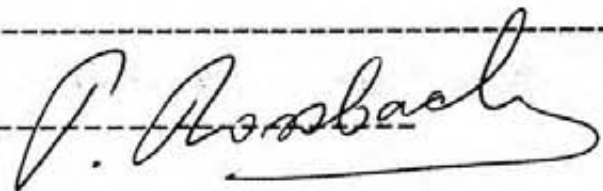
INVOICE NO. : 4222

PROJECT: MAT 228

DATE ANALYSED : JULY 12 1984

	SAMPLE#	PPM			PPM			PPB	
		Mo	Lu	Ag	Zn	Pb	Au		
S	84 MTS 49	126	128	0.2	36	2	10		
L	L 52	6	64	0.2	94	2	10		
L	84 MJL 2	2	484	0.8	128	10	10		
L	6	1	88	0.2	140	8	10		
S	S 7	42	312	0.2	118	2	10		
S	10	42	270	0.2	102	2	10		
L	L 12	48	350	0.2	116	2	10		
S	S 14	48	354	0.2	120	2	10		
S	16	56	388	0.2	124	2	10		
S	84 MTS 17	58	332	0.2	110	2	10		
S	21	48	348	0.2	116	2	10		
	84 MJL 23	23	214	0.4	118	8	10		

CERTIFIED BY :



APPENDIX II
AFFIDAVIT OF EXPENSES

AFFIDAVIT OF EXPENSES

This will certify that prospecting and geochemical sampling were carried out in June 1984 on the MAT 1 and 2 claim, Kitimat River area, Skeena Mining Division, British Columbia to the value of the following:

Mobilization and Fieldwork

Salaries

D. Cuvelier	\$ 960.00
J. Travis	960.00
S. Travis	960.00
Helicopter Support	1,665.18
Room and Board	495.63
Vehicle Rental, Transportation, Gas	553.51
Field Supplies	377.76
Telephone	63.68
Geochemical Analyses	1,360.43

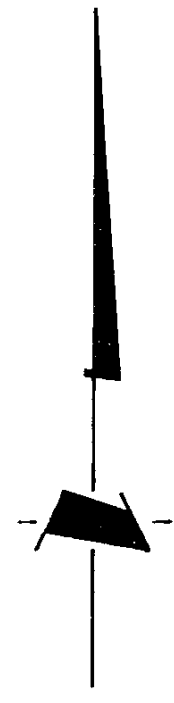
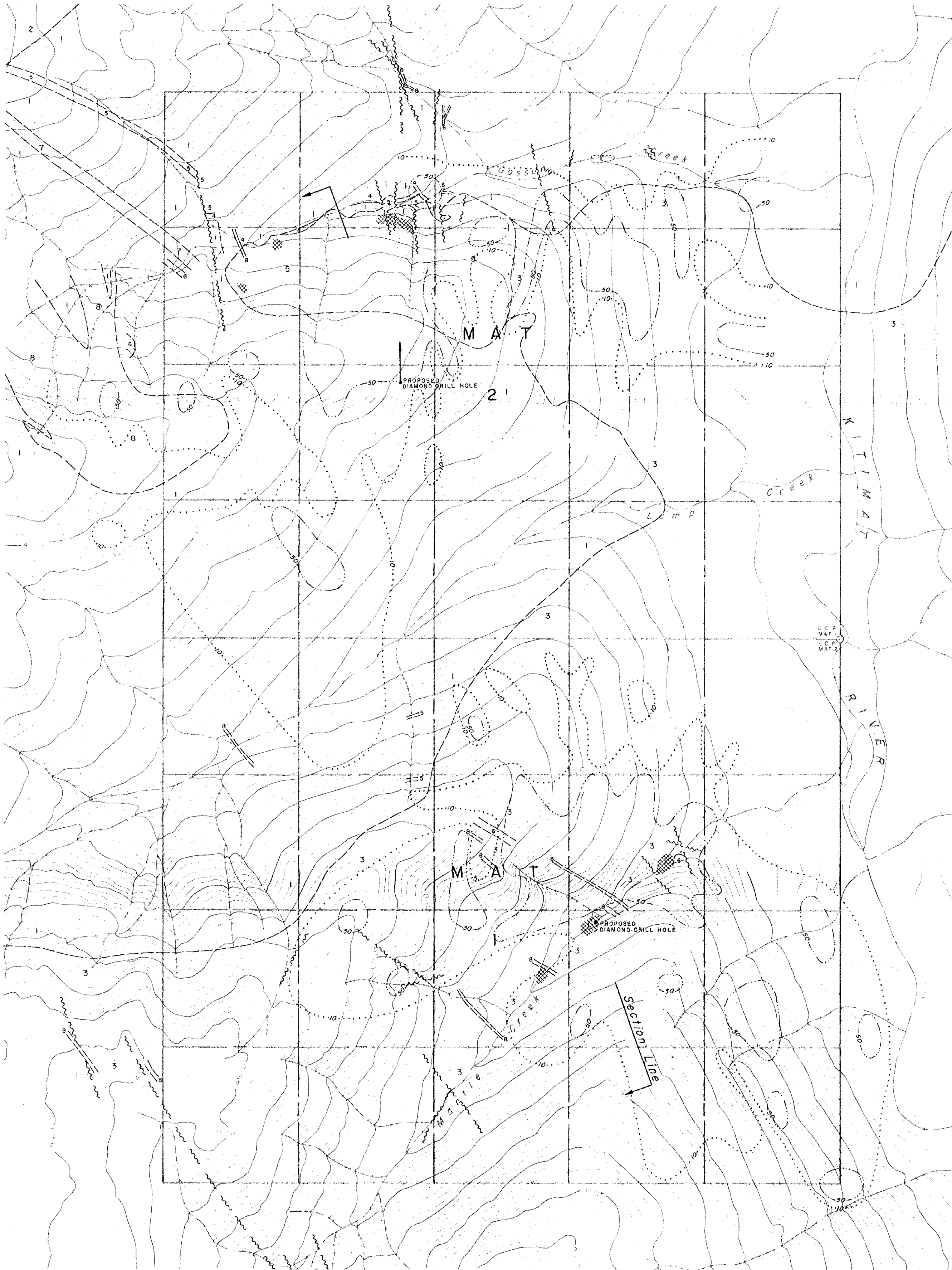
Report Preparation

Salaries

D.G. Allen 1.0 days @ \$350/day	\$ 350.00
Draughting, Typing, Compilation	576.00
Maps, Photocopying	30.38

GRAND TOTAL \$8,352.57

Donald G. Allen

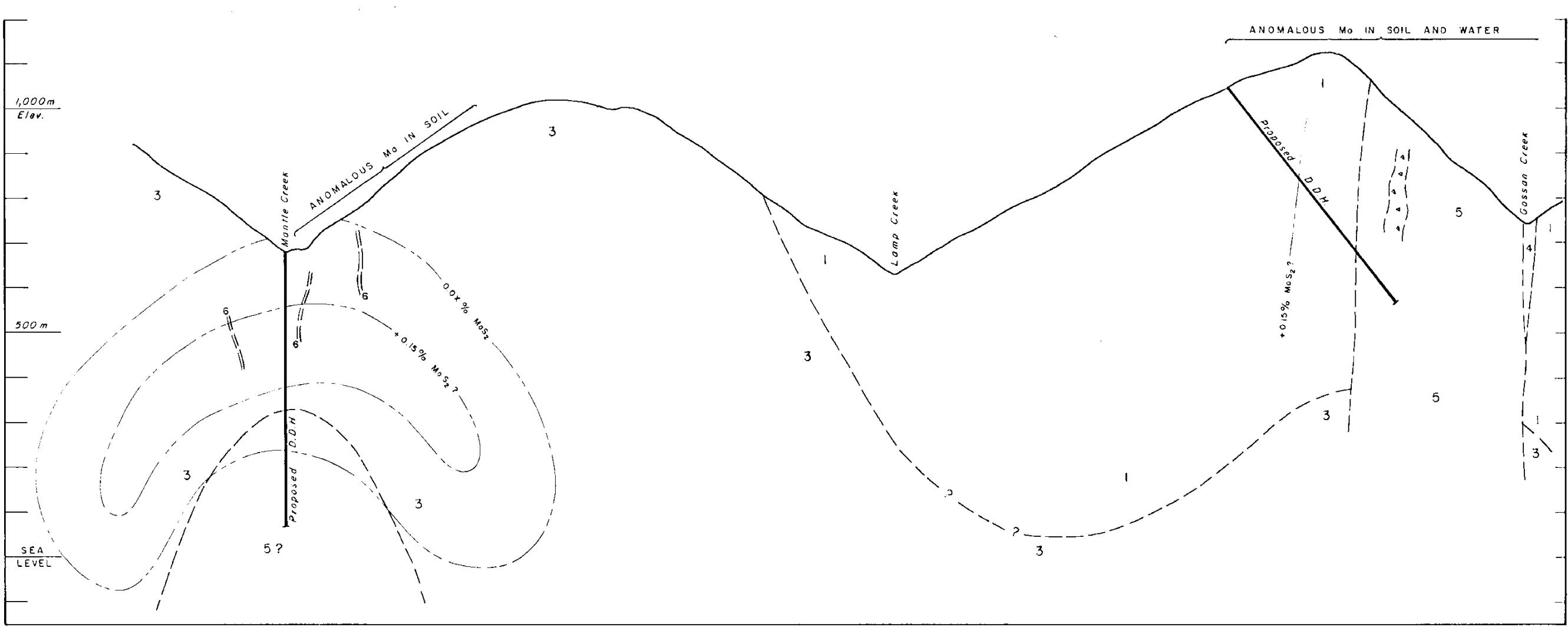


L E G E N D

- TERTIARY**
- 8 Quartz monzonite
 - 7 Diorite.
 - 6 Aplite.
 - 5 Quartz feldspar porphyry.
 - 4 Feldspar porphyry.
- CRETACEOUS
COAST PLUTONIC COMPLEX**
- 3 Soda granite.
 - 2 Biotite granodiorite.
- JURASSIC
HAZELTON GROUP**
- 1 Volcanic rocks.

S Y M B O L S

- Geological contact.
- ~ Fault or shear.
- Breccia.
- ▨ Quartz vein stockwork.
- Boundary of ≥ 10 p.p.m. Mo values in soil.
- Boundary of ≥ 50 p.p.m. Mo values in soil.
- Legal corner post, claim boundary.
- - - Claim unit boundary.
- ~ Stream.
- Topographic contour (contour interval 50 feet).



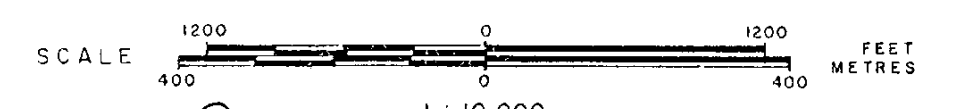
HYPOTHETICAL CROSS SECTION LOOKING SW

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

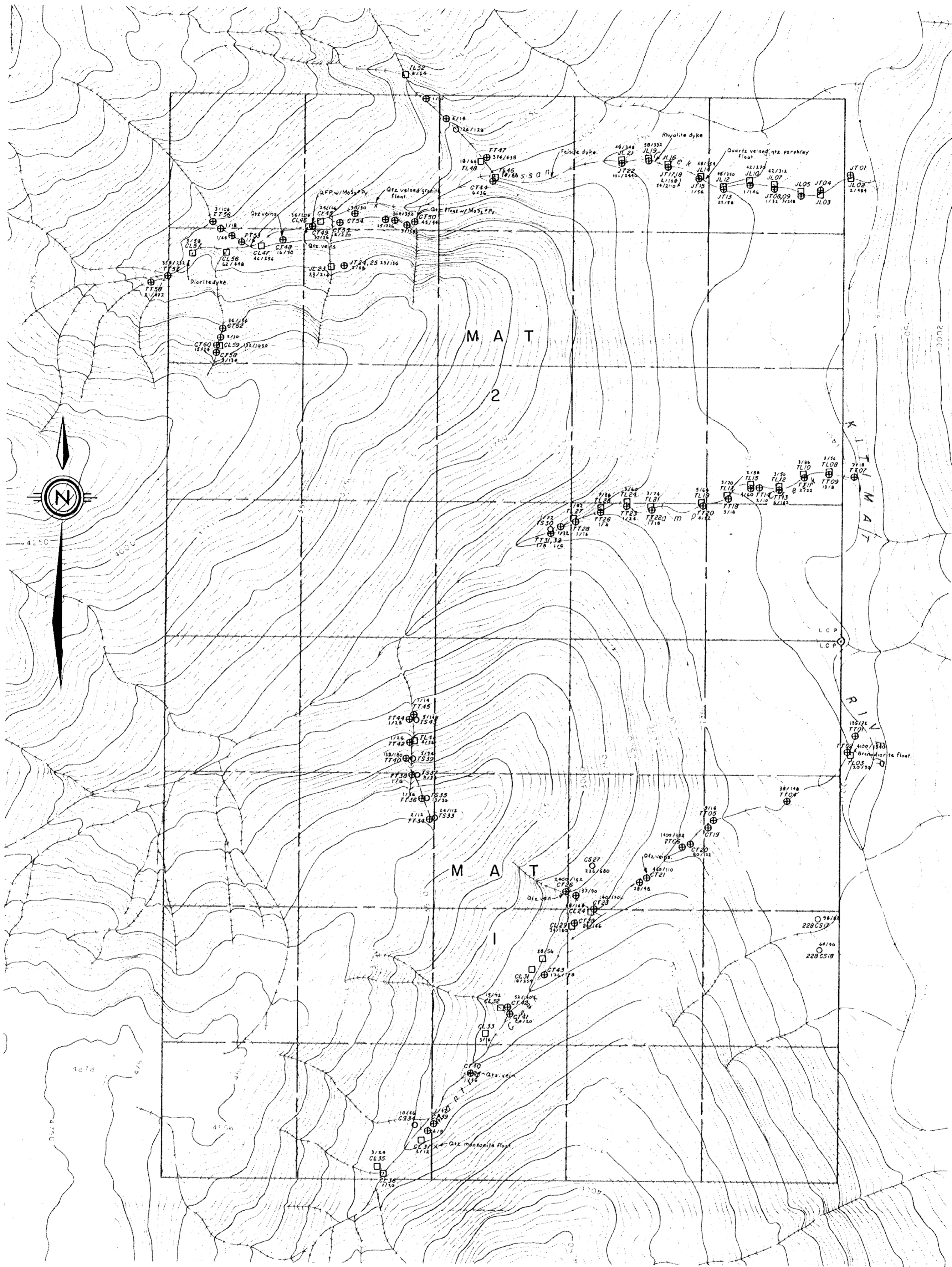
12,868

ABO OIL CORPORATION
KITIMAT RIVER PROPERTY
MAT CLAIMS
SKEENA MINING DIVISION — BRITISH COLUMBIA

SUMMARY MAP



AM Donald G. Allen
exploration Ltd



N.T.S. 103 I / I

LEGEND

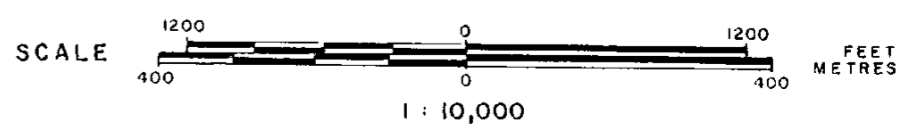
- Rock sample site, sample number; ppm Mo / Cu.
- Silt sample site, sample number; " / " .
- Soil sample site, sample number; " / " .
- Legal corner post, claim boundary; claim unit boundary.
- Topographic contour (contour interval 50 feet.).
- Creek.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,868 ABO SOIL CORPORATION
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GEOCHEMICAL MAP

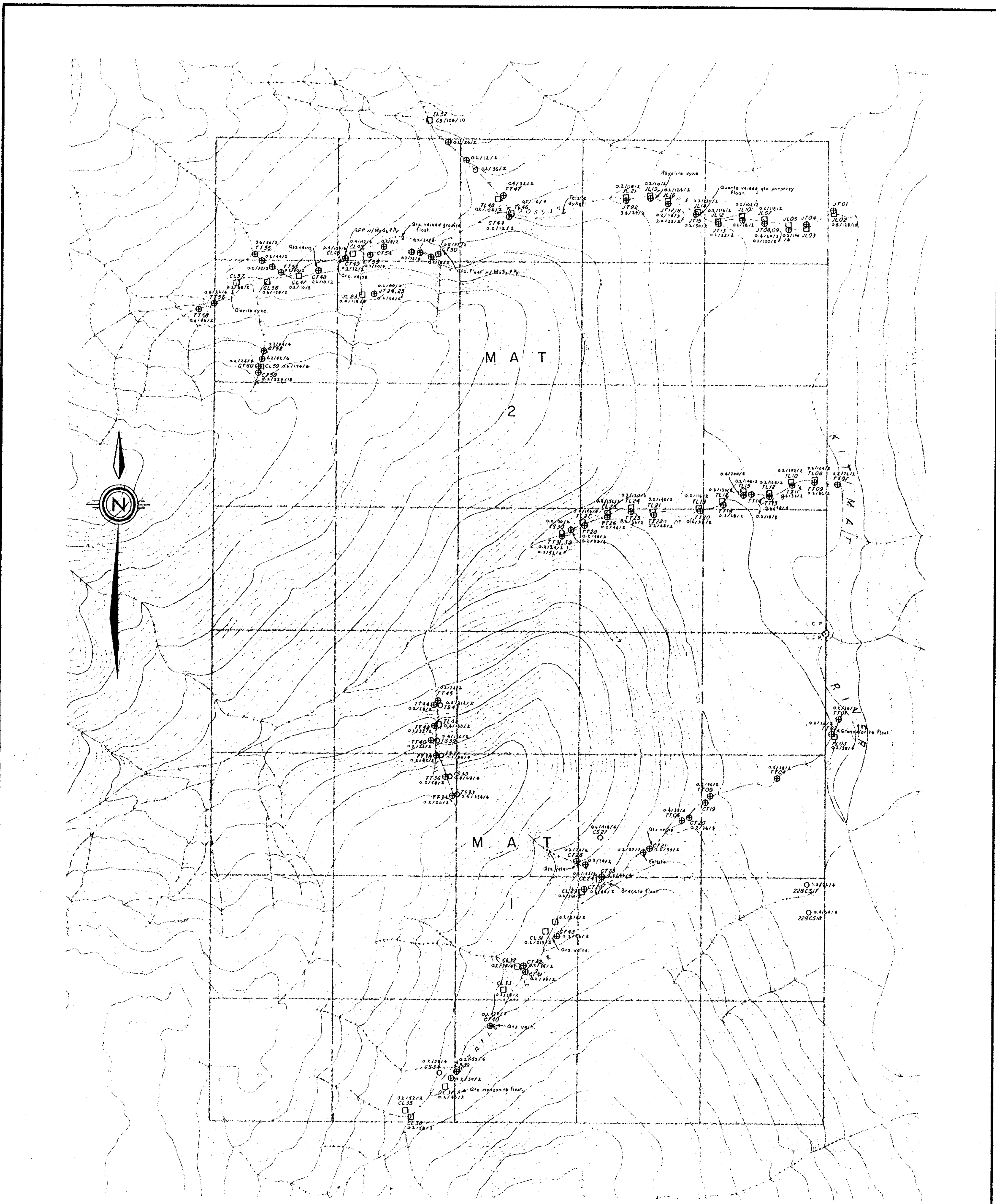
Mo / Cu



Donald Fallis
exploration Ltd.

July 15, 1984

Figure 4a



LEGEND

- Rock sample site, sample number; ppm Ag / Zn / Pb.
- Silt sample site, sample number; " / " / ".
- Soil sample site, sample number; " / " / ".
- Legal corner post, claim boundary; claim unit boundary.
- Topographic contour (contour interval 50 feet.).
- Creek.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

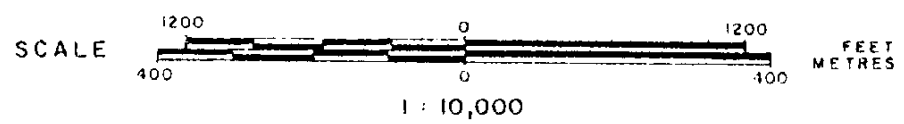
N.T.S. 103 I / I

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MAT CLAIMS

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GEOCHEMICAL MAP
Ag / Zn / Pb



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July 15, 1984

Figure 4b