



exploration Ltd.

**GEOLOGY · GEOPHYSICS
MINING ENGINEERING**

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TELEPHONE (604) 985-7921 V7K 2R1

83 #140 B-11910

GEOLOGICAL & GEOCHEMICAL REPORT

on the

BOSS CLAIM

Cariboo Mining Division

Lat. $52^{\circ} 02'$

Long. $120^{\circ} 46'$

NTS **GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,910

TIME RESOURCES CORPORATION

by

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

and

D. Fleming

March, 1983

North Vancouver, B.C.

TABLE OF CONTENTS

SUMMARY	1
CONCLUSION	2
RECOMMENDATION	2
BUDGET	3
INTRODUCTION	4
LOCATION, ACCESS, PHYSIOGRAPHY	4
CLAIM DATA	5
GEOLOGY	5
Regional Geology	5
Property Geology	6
GEOCHEMISTRY	7
EXPLORATION POTENTIAL	8
REFERENCES	
CERTIFICATE	

FIGURES

Location Map	1:10,000,000	After page 4
Access Map	1:250,000	After page 5
Claim Map	1:50,000	After page 6
Geological and Geochemical Map	1:10,000	In pocket

APPENDIX

Appendix I	Analytical Data
Appendix II	Affidavit of Expenses

SUMMARY

Time Resources Corporation, holds the Boss claim, comprising 20 claim units, in the Cariboo Mining Division of Central British Columbia. The property is situated 5.5 kilometres northeast of 100 Mile House on Highway 97.

The Boss claim was staked in March, 1982 by D. R. MacQuarrie, to cover 75 ppm arsenic and 1.2 antimony anomalies. These anomalies were obtained from results of a regional stream sediment sampling program carried out by the provincial and federal governments in 1980.

The Boss claim lies in the Quesnel Trough, a subdivision of the Intermontane Tectonic belt. Basic volcanic flows and tuffs and basic intrusive rocks of Lower Jurassic to Cretaceous age are the dominant rock types in the claim area. The Takomkane batholith lies immediately to the west of the claims. Noranda's Boss Mountain molybdenum mine lies 10 kilometres northwest of the property.

Preliminary stream sediment and soil sampling has outlined scattered anomalous gold (up to 1280 ppb), silver (up to 1.6 ppm), copper (up to 310 ppm), and zinc values (up to 278 ppm). An exploration program is proposed to follow-up and evaluate these anomalies.

CONCLUSION

A spectacular gold anomaly (1280 ppb) in silt along with weakly to moderately anomalous gold, arsenic, silver, copper and zinc in soils and silts warrants follow-up exploration. These geochemical results and associated basic volcanic rocks suggest the possible presence of volcanogenic gold mineralization.

The Takomkane batholith, thought to be a plutonic equivalent of Triassic and Jurassic volcanics (Campbell and Tipper, 1970), is proximal to the west, providing a heat source necessary in the formation of these types of gold deposits.

RECOMMENDATION

A three phase exploration program is recommended to evaluate the potential of the Boss claim. Phase I is designed to carry out preliminary prospecting, sampling and geological mapping. Phase II, contingent on results of Phase I consists of follow-up geological, geochemical and geophysical surveys to outline drill targets. Phase III consists of diamond drilling should results of Phase I and Phase II prove up drill targets. The estimate costs of each phase are \$17,100, \$23,250, and \$62,500 respectively.

BUDGET

Phase I Geological Mapping, Prospecting and Sampling

Salaries

Geologist 1 month @ \$6000/mo.	\$ 6,000.
Assistant 1 month @ \$3000/mo.	3,000.
Room and board 60 man days @ \$35	2,100.
Geochemical analysis and assays	3,000.
Materials and supplies	500.
Maps, report and typing	1,000.
	<hr/>
	\$ 15,600.
Contingencies	1,500.
	<hr/>
	\$ 17,100.

Phase II Follow-up Geological, Geochemical and Geophysical Surveys

Salaries

Geologist 1 month @ \$6000/mo.	\$ 6,000.
Sampling & geophysical crew 1 month @ \$6000.	6,000.
Room and board 90 man days @ \$35	3,150.
Geochemical analysis and assays	3,000.
Geophysical equipment rental	2,000.
Maps, report and typing	1,000.
	<hr/>
	\$ 21,150.
Contingencies	2,100.
	<hr/>
	\$ 23,250.

Phase III Provision for Diamond Drilling

Diamond drilling 1500' @ \$35/ft. (all incl.)	\$ 52,500.
Road construction and drill site preparation	10,000.
	<hr/>
	\$ 62,500.
Grand Total	<hr/>
	\$102,850.

INTRODUCTION

The Boss claim was staked in March, 1982 to cover 75 ppm arsenic and 1.2 ppm antimony geochemical anomalies, that were obtained from a regional geochemical reconnaissance program carried out in 1980 and released in 1981 by the provincial and federal governments (Open File 777, BC RGS 5) for the Quesnel Lakes area (NTS 93A). The claim was staked primarily for potential gold mineralization (arsenic and antimony are common associates of gold and are considered important indicator elements).

The claims are located 12 kilometres south-east of Noranda's Boss Mountain molybdenum mine.

Preliminary mapping, soil sampling, and stream sediment sampling were carried out by D. Fleming and T. Fuller in November, 1982 to assess the claim. A flagged grid was prepared and soil sampling was carried out on a wide spaced reconnaissance basis (100 metre intervals on lines spaced 200 metres apart). Geological observations were hampered by a light snow cover.

LOCATION, ACCESS, PHYSIOGRAPHY

The claim is situated 55 kilometres northeast of 100 Mile House, and 0.5 kilometres south of the town of Hendrix Lake (figure 1). Access is by good gravel road from 100 Mile House.

TIME RESOURCES CORPORATION

BOSS CLAIM

LOCATION MAP

SCALE 0 100 200 KILOMETRES
0 100 200 MILES

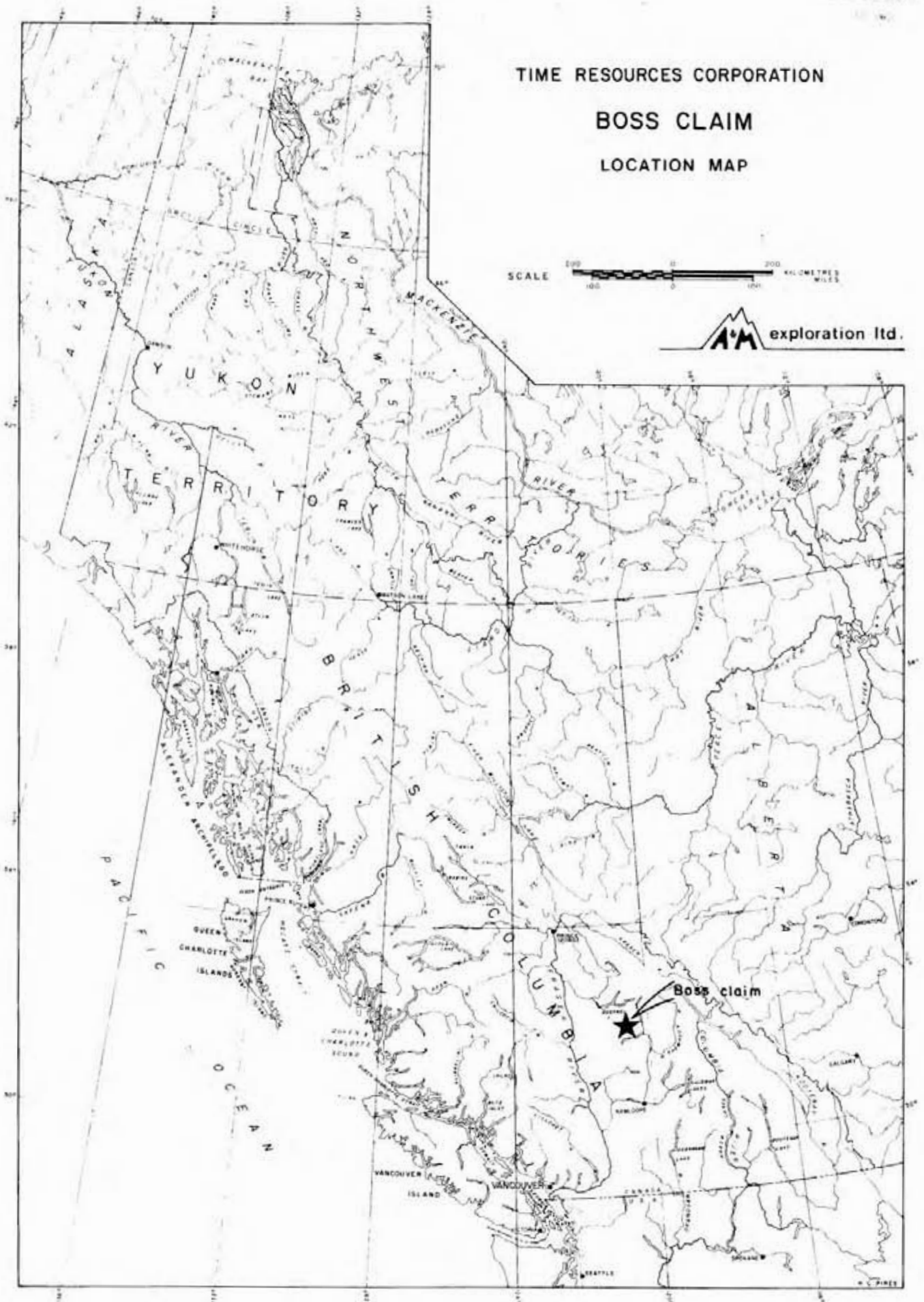


FIGURE - I

The claim covers a south-east flowing tributary of Hendrix Creek, that divides two local topographic highs of greater than 4500 feet (figures 2, 3). The creek banks and ridge crests are flat to moderately steep and vegetated with dense second growth cedar and wide spaced pine. Low lying areas to the west are swampy.

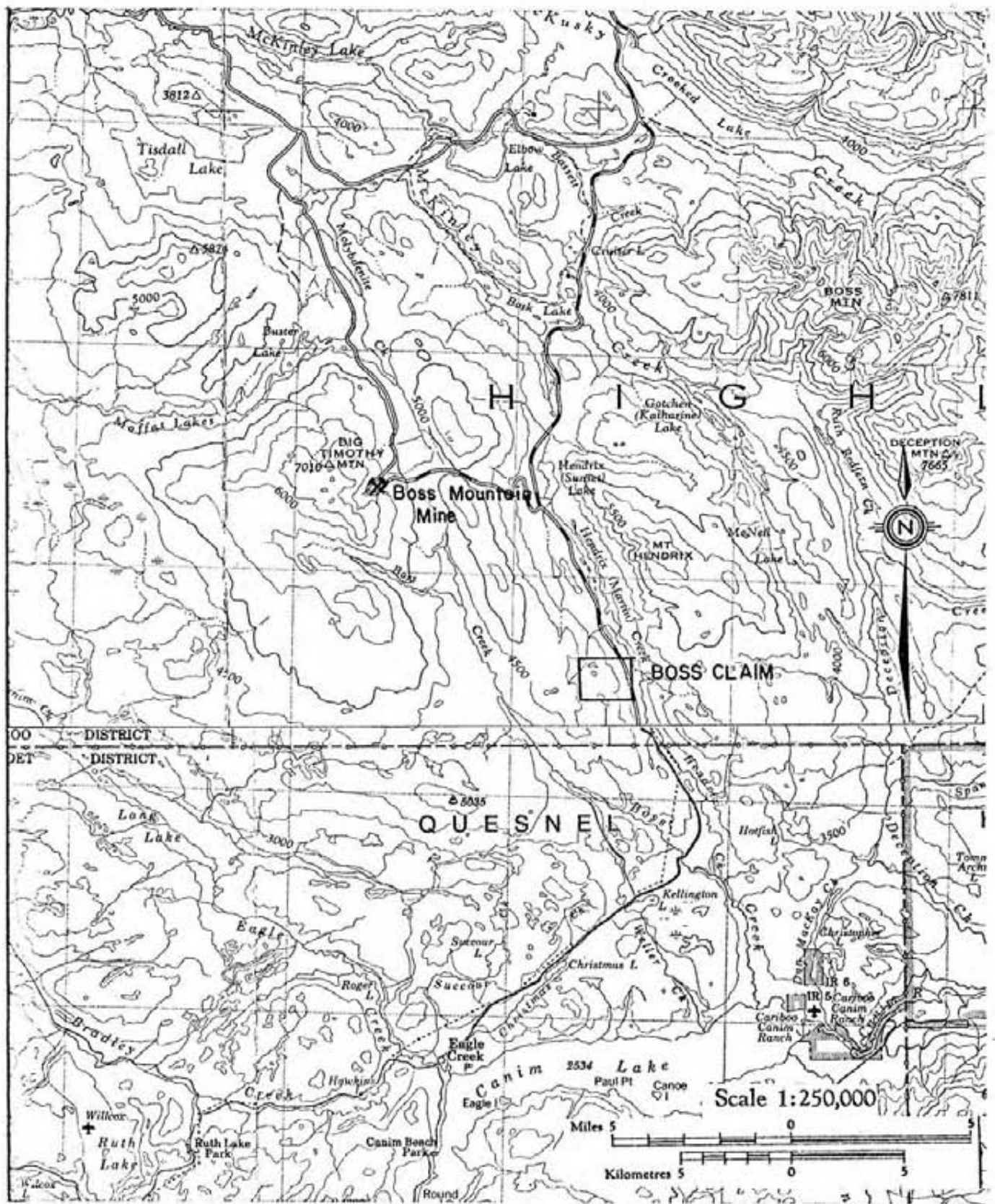
CLAIM DATA

The property consists of one 20 unit claim, the Boss claim (figure 3). Record number is 4268 and expiry date is March 22, 1984. The claim is registered in the name of D.R. MacQuarrie but has been transferred to Time Resources Corporation.

GEOLOGY

Regional Geology

The Boss claim lies in the Quesnel Lake area (Campbell, 1978). This area lies in the Quesnel Trough a subdivision of the Intermontane belt, which in turn is one of the five north-west trending tectonic belts in British Columbia. The Quesnel Trough (Campbell and Tipper, 1970) is a long narrow belt 80 kilometres wide and extends from the United States border to North Central British Columbia. It is composed dominantly of weakly deformed Lower Mesozoic volcanic and plutonic rocks. The Quesnel Trough is economically



TIME RESOURCES CORPORATION
ACCESS MAP
 BOSS CLAIM

Cariboo Mining Division - British Columbia



Figure 2

N.T.S. 93 A/2

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CLAIM MAP

BOSS 1 CLAIM

Cariboo Mining Division

British Columbia

Ronald S. Allen
exploration Ltd.

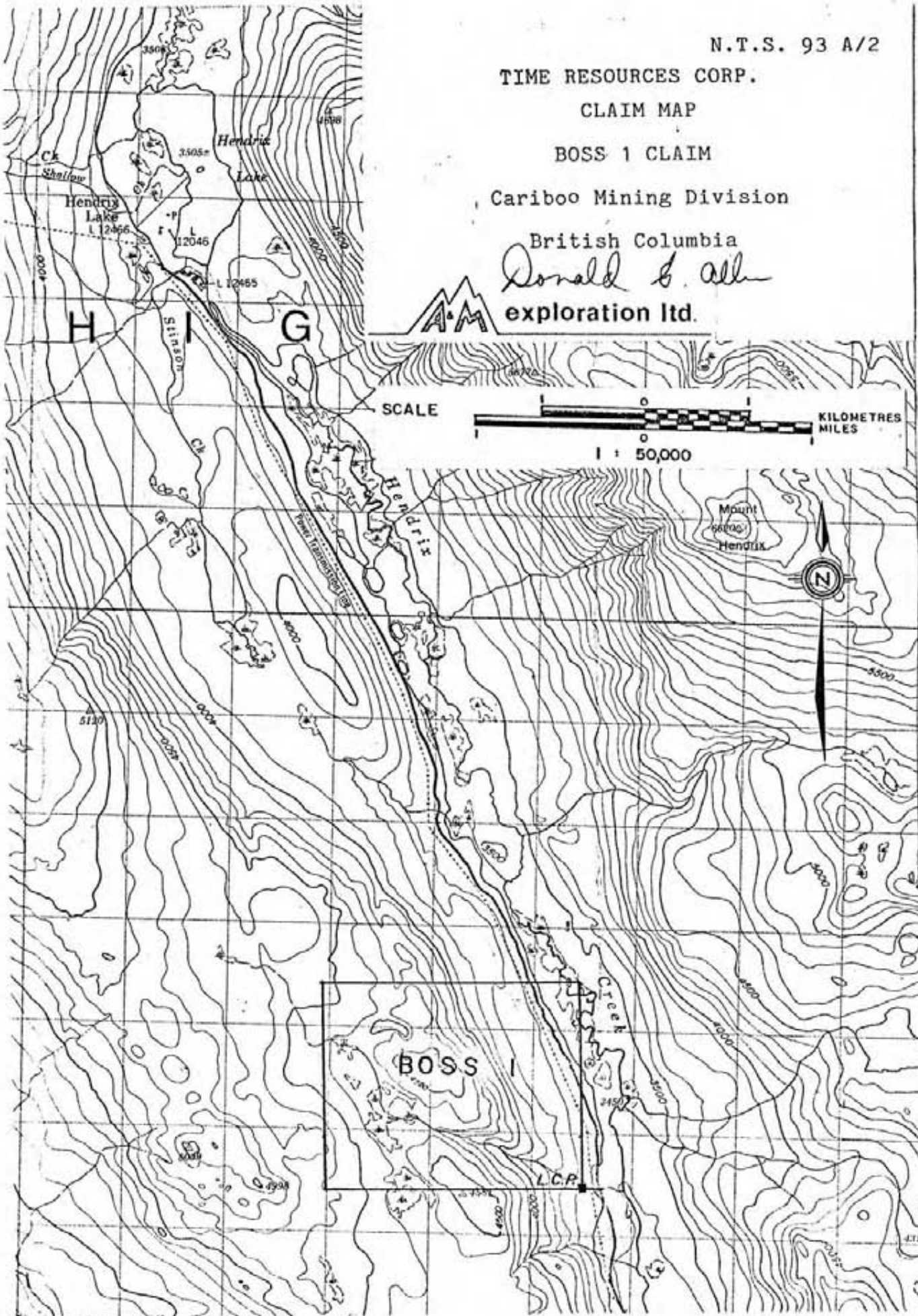


Figure 3

important in that it hosts copper (Gibraltar, Highland Valley deposits), molybdenum (Boss Mountain) and gold (Dome's QR prospect) deposits.

Locally the claim is underlain by Lower Jurassic to Cretaceous volcanic rocks which overlie Upper Triassic Nicola group rocks. Immediately to the west of the claim area, volcanic rocks are intruded by the Upper Triassic-Lower Jurassic Takomkane Batholith.

A Cretaceous quartz-monzonite stock, 12 kilometres north-west of the claim intrudes older batholith rocks and hosts the Boss Mountain molybdenum deposit.

Tertiary volcanics and Pleistocene to Recent surficial deposits obscure older rocks in the area south of Canim Lake and west of Lac La Hache.

Property Geology

Geological observations were hampered by a thin snow cover at the time of assessment, however, the presence of a variety of volcanic rocks and intrusive rocks was noted.

Basic volcanic rocks outcropping on the claim consist of dominantly fine to medium-grained, black pyroxene basalts with minor very fine-grained black, maroon and green basalts. Locally they are vesicular and contain feldspar phenocrysts.

A second, distinct unit occurs as larger massive outcrops exposed in the creek, and as blocky sub-outcrop to the northeast. It is an inequigranular gabbro with equidimensional pyroxene up to 5 mm in diameter in a medium-grained feldspar

and pyroxene matrix. Minor amounts of pyrite occur disseminated in the rock. The gabbro possibly represents small intrusive plugs or coarse-grained volcanic flow.

Banded green and black tuffaceous andesite and basalt and feldspar porphyritic andesite occur as float along the powerline to the east.

GEOCHEMISTRY

A 1.5 kilometre baseline was established sub-parallel to the creek, along its north-east side, for mapping and sampling control. 94 soil samples were taken at 50 metre intervals along the baseline, and every 100 metres, perpendicular to the baseline. Cross lines are 200 metres apart. Soil samples were taken mainly from the B horizon and shipped to Rossbacher Laboratories for analyses of 6 elements. Analytical results are included in Appendix I and anomalous values plotted on figure 4.

Sediment samples were taken at several places along the course of the stream.

Sample 82 QXL 33 assayed 1280 ppb Au, which is exceptionally anomalous, and is supported by weakly anomalous arsenic (32 ppm) and by three weakly anomalous soil samples (20-60 ppb Au) proximal to the sampling site. Gabbro outcrops on the stream at the site. Weakly anomalous gold values in soils (83 QFS 10, 11) to the north west also appear to be associated with gabbro.

Scattered anomalous copper, zinc, silver values are found in the southern and western part of the grid area.

EXPLORATION POTENTIAL

The Boss claim was staked mainly for its gold potential. Arsenic and antimony are anomalously high in the drainage covered by the claim and are important indicator elements of gold mineralization. Preliminary follow-up has produced one spectacular gold anomaly in silt and a number of low order gold anomalies in soil, indicating that potential exists for gold mineralization. The basic volcanic rocks observed in the claim area are similar in composition to those that host important gold deposits such as Bralorne-Pioneer and those in Archean greenstone belts. Further exploration is warranted.

Donald G. Allen

REFERENCES

Campbell, R.B. (1978). Quesnel Lake Map Sheet, Geol. Surv. Canada Open File 574.

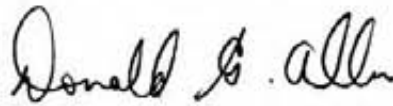
Campbell, R.B. and Tipper, H.W. (1970). Geology and Mineral Potential of the Quesnel Trough, B.C. Can. Inst. Min. and Met. Bull. Vol 63, p. 785-790.

CERTIFICATE

I, Donald G. Allen certify that:

1. I am a Consulting Geological Engineer, resident at 4570 Hoskins Road, North Vancouver, B.C.
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 been practising my profession since 1964.
4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
5. This report is based on field work carried out by geologists D. Fleming and T. Fuller. I have had personal experience with the fieldwork of both and believe that the quality of their work is excellent.
6. I hold no interest, nor do I expect to receive any, in Time Resources Corporation, nor in the Boss claim.
7. I consent to the use of this report in a Prospectus or a Statement of Material Facts by Time Resources Corporation.

March, 1983
North Vancouver, B.C.


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

APPENDIX I
ANALYTICAL RESULTS

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82338-1

INVOICE NO. N.C.

DATE ANALYSED NOV. 30/82

TO: A & M EXPLORATION LTD.

4570 HOSKINS ROAD

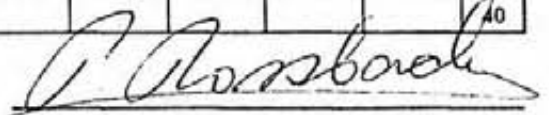
NORTH VANCOUVER, B.C. V7K 2R1

PROJECT

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	PPB Au	W	As	PPB Hg	No.
01	82QFS 1		1	122	1.2	78	6	10				01
02	2		1	32	0.4	56	6	10				02
03	3		1	40	0.2	90	6	10				03
04	4		1	32	0.2	58	8	10				04
05	5		1	62	0.2	102	2	10				05
06	6		1	192	0.2	76	4	10				06
07	7		1	18	0.2	74	8	10				07
08	8		1	38	0.4	80	6	10				08
09	9		1	36	0.2	52	4	10				09
10	82QFS 10		1	98	0.8	56	4	30				10
11	11		1	68	0.2	86	4	20				11
12	12		1	20	0.2	60	6	10				12
13	13		1	58	0.4	80	4	10				13
14	14		1	60	0.4	90	6	10				14
15	15		1	12	0.2	32	10	10				15
16	16		1	64	0.2	78	2	10				16
17	17		1	28	0.4	62	6	10				17
18	18		1	64	0.6	254	12	10				18
19	19		1	114	0.8	278	16	10				19
20	82QFS 20		1	42	0.4	148	12	10				20
21	21		1	96	0.6	156	24	10				21
22	22		1	46	0.2	70	4	10				22
23	23		1	4	0.2	14	4	10				23
24	24		1	88	0.2	74	4	10				24
25	25		1	18	0.2	36	4	10				25
26	26		1	6	0.2	18	4	10				26
27	27		1	44	0.2	52	2	10				27
28	28		1	48	0.2	84	2	10				28
29	29		1	50	0.2	118	4	10				29
30	82QFS 30		1	50	0.2	60	4	10				30
31	31		1	40	0.2	104	10	10				31
32	32		1	52	0.2	80	4	10				32
33	33		1	58	0.2	78	6	10				33
34	34		1	140	1.2	116	10	10				34
35	L 35		1	48	0.4	82	6	10	1	35	30	35
36	S 36		1	24	0.2	92	6	10				36
37	37		1	74	0.2	142	4	10				37
38	38		1	92	0.2	132	6	10				38
39	82QFS 39		1	60	0.2	70	4	10				39
40												40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by



Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82338-2

INVOICE NO. N.C.

DATE ANALYSED NOV. 30/82

PROJECT

TO: **A & M EXPLORATION LTD.**
4570 HOSKINS ROAD
NORTH VANCOUVER, B.C. V7K 2R1

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	PPB Au	W	As	Hg ^{PPB}	No.
01	82QXS	1	1	22	0.8	110	2	10				01
02		2	1	10	0.2	46	6	10				02
03		3	1	16	0.2	62	6	10				03
04		4	1	6	0.2	38	8	10				04
05		5	1	50	0.2	110	6	10				05
06		6	1	12	0.2	46	8	10				06
07		7	1	8	0.2	38	6	10				07
08		8	1	8	0.2	38	4	10				08
09		9	1	16	0.2	84	6	10				09
10	82QXS	10	1	18	0.2	82	6	10				10
11		11	1	22	0.2	60	2	10				11
12		12	1	32	0.2	206	6	60				12
13		13	1	20	0.4	48	6	10				13
14		14	1	22	0.2	26	4	10				14
15		15	1	28	0.2	90	6	10				15
16		16	1	32	0.2	120	10	10				16
17		17	1	54	0.2	94	4	10				17
18		18	1	34	0.2	92	8	10				18
19		19	1	70	0.2	88	4	20				19
20	82QXS	20	1	4	0.2	16	2	10				20
21		21	1	40	0.2	86	8	10				21
22		22	1	96	0.2	88	8	10				22
23		23	1	52	0.2	78	4	10				23
24		24	1	58	0.2	78	6	10				24
25		25	1	42	0.2	82	8	10				25
26		26	1	72	0.2	114	14	10				26
27		27	1	310	1.6	54	20	10				27
28		28	1	12	0.2	50	6	10				28
29		29	1	28	0.2	92	2	10				29
30	82QXS	30	1	26	0.2	44	6	10				30
31	L	31	1	66	0.2	70	4	30	1	30	40	31
32	S	32	1	98	0.2	62	2	20				32
33	L	33	1	72	0.2	70	4	1280	1	32	10	33
34	S	34	1	66	0.2	72	4	10				34
35		35	1	22	0.2	62	8	10				35
36		36	1	48	0.2	68	4	10				36
37		37	1	18	0.2	58	6	10				37
38		38	1	12	0.2	74	4	10				38
39	82QXS	39	1	68	0.6	62	2	10				39
40												40

VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82338-3

INVOICE NO. N.C.

DATE ANALYSED NOV. 30/82

PROJECT

TO: A & M EXPLORATION LTD.

4570 HOSKINS ROAD

NORTH VANCOUVER, B.C. V7K 2R1

No.	Sample	pH	Mo	Cu	Ag	Zn	Pb	PPB Au				No.
01	B2 AXS 40		1	30	0.2	100	4	10				01
02	41		1	24	0.2	58	2	10				02
03	42		1	16	0.2	48	4	10				03
04	43		1	12	0.2	36	6	10				04
05	44		1	18	0.2	54	6	10				05
06	45		1	58	0.4	82	6	10				06
07	46		1	22	0.2	60	4	10				07
08	47		1	20	0.2	86	2	10				08
09	48		1	24	0.2	80	2	10				09
10	B2 AXS 49		1	4	0.2	16	4	10				10
11	50		1	8	0.2	18	2	10				11
12	51		1	22	0.2	54	4	10				12
13	52		1	10	0.2	36	4	10				13
14	53		1	34	0.2	104	2	10				14
15	54		1	52	0.2	58	2	10				15
16	B2 AXS 55		1	34	0.2	54	2	10				16
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VALUES IN PPM, UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

APPENDIX II
AFFIDAVIT OF EXPENSES

AFFIDAVIT OF EXPENSES

This will certify that geochemical sampling and prospecting were carried out in November 1982 on the BOSS claim, Quesnel Mining Division, Hendrix Creek area, British Columbia to the value of the following:

Mobilization and Fieldwork

Salaries

D. Fleming	3 days @ \$150	\$ 450.00
E. Fuller	3 days @ \$150	450.00

Room and board 111.32

Vehicle rental and expenses 172.50

Geochemical analyses 825.85

Report

Salaries

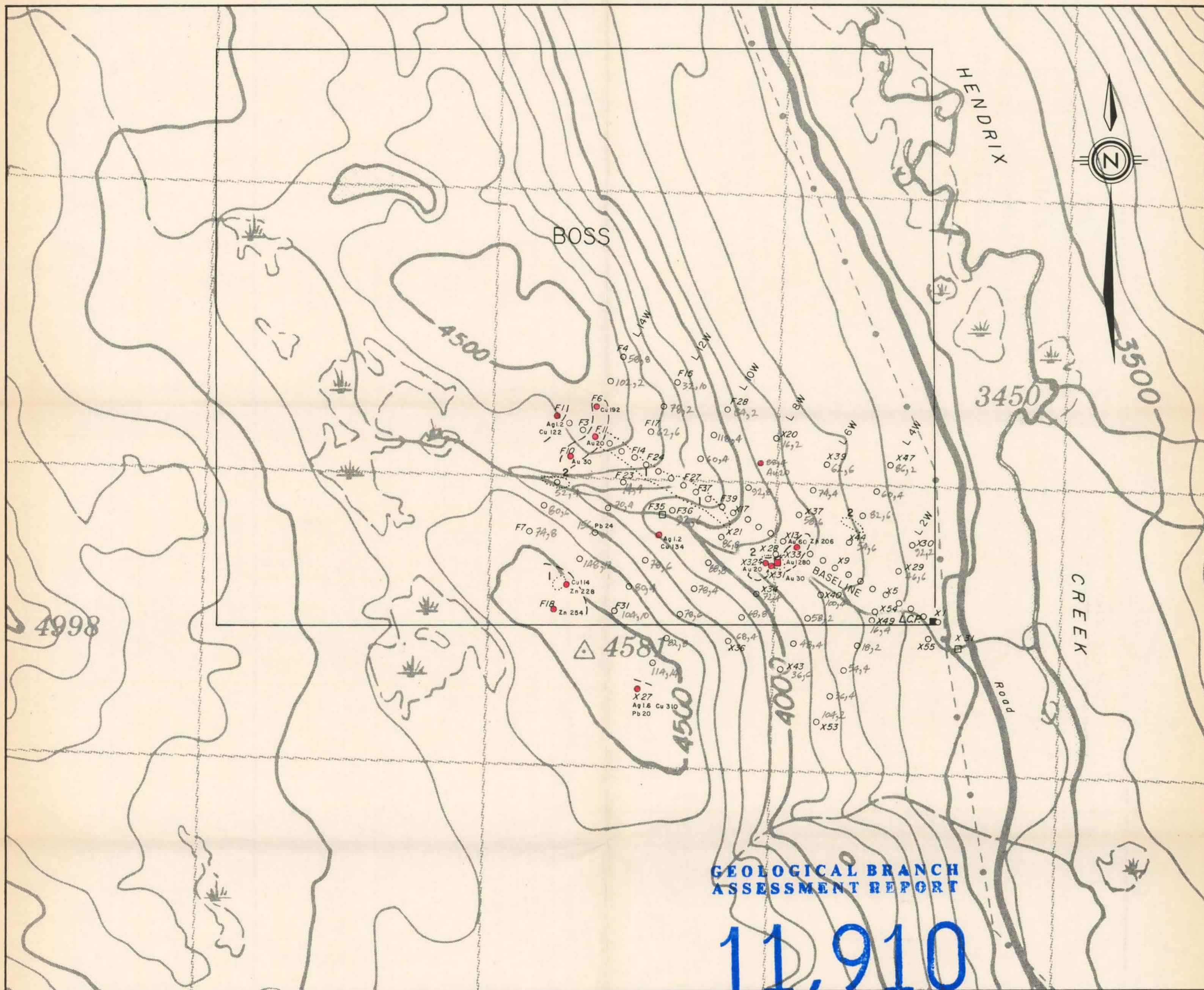
D. Fleming	1 day @ \$150	\$ 150.00
D. Allen	1 day @ \$150	150.00

Maps and photocopying 50.50

Total \$2,360.17

Donald G. Allen

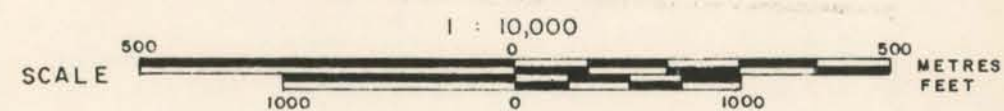
Donald G. Allen,
P. Eng. (B.C.)



LEGEND

- | | |
|----------------|--|
| 2 | Gabbro. |
| 1 | Pyroxene basalt. |
| F6, X9
46,2 | Soil sample site; 82 QFS, QXS series.
(PPM Zn, PPM Pb.) |
| □ 80,6 | Silt sample site.
(PPM Zn, PPM Pb) |
| ● ■ | Anomalous sample: Cu, Zn, Ag values in ppm.
Au values in ppb. |
| --- | Outline of anomalous area. |
| / | Claim boundary. |

Note: Geochemical values plotted only where;
ppm Cu \geq 100, ppm Zn \geq 200,
ppm Ag \geq 1.0, ppb Au \geq 20,
ppm Pb \geq 20.



TIME RESOURCES CORPORATION
BOSS CLAIM
CARIBOO MINING DIVISION - BRITISH COLUMBIA
GEOLOGICAL & GEOCHEMICAL MAP

Donald B Allen
exploration ltd.