

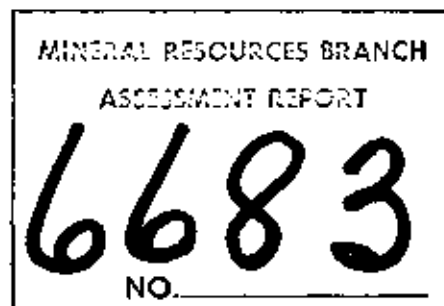
GEOCHEMICAL SURVEY  
I AM CLAIMS  
HARRISON LAKE AREA  
NEW WESTMINSTER MINING DIVISION

49<sup>0</sup> 22' N      121<sup>0</sup> 55' W

92H/5

Owners:      I. & D. Miller  
Operator:    Chevron Standard Limited  
Author:      D. Arscott

20 January 1978



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  - c.   "      "   - Mo
  - d.   "      "   - Backup data

## INTRODUCTION

From 6th to 15th December, 1977 a soil sampling survey was carried out on the I AM claims by Amex Exploration Services Ltd. of Kamloops.

The primary intent of the survey was to detect the presence of any copper and zinc sulphides that may be associated with the volcanic rocks known to underlie the property. At the same time, an earlier discovery of high molybdenum values in nearby creek silts, and the presence of an intrusive stock of intermediate composition 2.5 km to the N, suggested that it would be also wise to test for molybdenum.

A total of 283 soil samples were collected from the central claims (as indicated in Fig. 2d), and analysed for copper, zinc, and molybdenum.

## LOCATION AND ACCESS

The I AM claims straddle the access road to the Hemlock Valley Ski Resort, 14 km NNE of Harrison Mills, and 170 km E of Vancouver. Hence year-round access to the claims is excellent, and in addition a fair portion of the property is laced by a network of both current and disused logging trails.

The location of the property, and principal access road, is shown on Fig. 1.

## CLAIMS

The claims comprising the property are as follows, with expiry dates as they were at 1 January 1978:

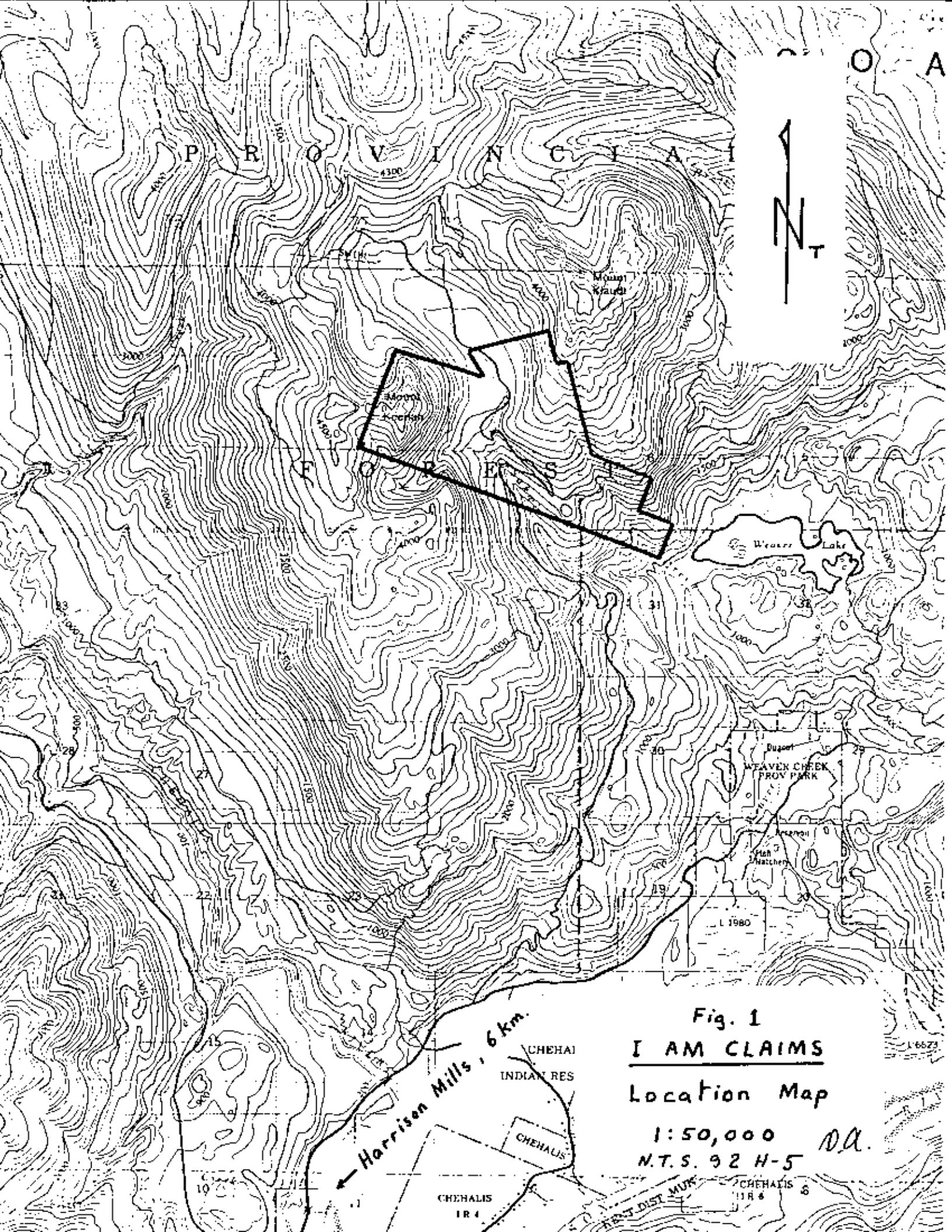


Fig. 1  
I AM CLAIMS  
Location Map

1:50,000 *D.A.*  
N.T.S. 92 H-5

Harrison Mills, 6 km.  
CHEHALIS INDIAN RES  
CHEHALIS  
CHEHALIS  
IR 1

FIRST DIST MUR  
CHEHALIS 8  
118 6

1-6673

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>WORK AND RENTAL DUE DATE</u>
I AM #1 to #3	18161 - 18163	23 Dec. 1978
I AM #4	18164	23 Dec. 1979
I AM #9	21569 ,	13 May, 1978
I AM #10, #11	21570, 21571	27 May, 1978
I AM #12 to #22	25795 - 25805	13 May, 1978
I AM #23, #24	26060, 26061	1 June, 1978
SIR #4, #5 FR, #6 FR	26912 - 26914	7 Sept. 1978
DOT #1 to #3	28488 - 28490	31 May, 1978
MARY J #1 to #4	29118 - 29121	2 May, 1978
	TOTAL	30 claims

The I AM and the SIR claims are registered in the name of Isaac Miller and the DOT and MARY J claims in the name of Dorothy Miller.

#### HISTORY

The previous work in the claims area may be summarized as follows:

- 1916 to present - Prospecting, pitting, and trenching by I. Miller, various years.
- 1966 - Staking of core of current claims to cover mineralization exposed during logging road construction.
- December 1971 - Soil survey by Cominco Ltd. covering parts of I AM 1 and 21, and SIR 5 Fr. 245 samples analysed for Cu, Zn, Pb, Mo and Ag.

- August, 1972 - Minor stream sediment sampling and a short VLF-EM survey by Rio Tinto Canadian Exporation Ltd.
- October, 1976 - Induced Polarization and VLF-EM surveys by Amax Potash Ltd. 1.6 line km covering I AM 1, 2, 3 and 4 claims.
- Geological mapping, lin. = 400 ft., of same general area.

### GEOLOGY

#### REGIONAL GEOLOGY

The property is near the S end of the Chehalis pendant, a roughly oblong-shaped belt composed largely of volcanics and sediments of volcanic affiliation, and believed to be of Jurassic age (approximately 140 million years).

These rocks can be subdivided along the following general lines:

- |                         |   |  |
|-------------------------|---|--|
| Echo Island Formation   | - | Shales and argillites  |
| Harrison Lake Formation | - | Andesitic pyroclastics<br>Minor shales and argillites<br>Rhyolitic pyroclastics<br>Dacitic tuffs<br>Andesitic flows and pyroclastics |
| Camp Cove Formation     | - | Greywackes<br>Shale<br>Conglomerate  |

These formations are cut by stocks, dykes, and sills of intermediate to felsic composition.

In detail the geology is extremely complex and difficult to unravel, and the available geological maps of the area are as varied as the number of geologists that made them.

#### LOCAL GEOLOGY

The rocks underlying the I AM claims are presumed to be near the upper contact of the Harrison Lake Formation.

Central to the claims is a rhyolite volcanic breccia, covering a lens shaped area some 1200 m by 4000 m in extent. This is bordered to the S by cherty tuffs and siltstones, and to the N by a large area of andesite breccia. Some feldspar porphyry and diabase dykes intrude the rhyolite and andesite.

This geology was mapped by Amax Potash Ltd. geologists in 1976, and is confirmed by my own observations. An extremely simplified version of their mapping is reproduced in Fig. 2d as background data to the soil survey.

The rhyolite has been interpreted as a volcanic dome, a view which would be consistent with the presence of andesite beneath it and sediments overlying it, according to the classic volcanogenic geologic concept. In this respect the property has some similarity to the Seneca prospect,

6 km to the SW, although the rhyolite does not seem to be as extensive on the I AM claims.

#### MINERALIZATION

Small stringers and disseminations of sphalerite, chalcopyrite and pyrite are present in several places within the rhyolite. These are insufficient in themselves to constitute "economic" mineralization, but could possibly represent a feeder zone for more massive mineralization at the rhyolite/sediment contact.

#### GEOCHEMISTRY

##### PROCEDURE

Soil samples were collected mainly from "B" horizon material at depths of 10 to 30 cm under difficult snow and storm conditions. They were transferred to paper sample bags, and shipped to Vangeochem Lab Ltd. of North Vancouver. Here they were dried, sieved, and the minus 80 mesh fraction analysed by standard atomic absorption techniques for Cu, Zn, and Mo.

Sampling points were controlled mainly by the previously established (1976) grid, with extension of some of the previous cross lines by tape and compass (a total extension of 1.8 line km).



The copper and zinc analyses were subjected to a statistical study (not shown here), which suggested threshold values of 50 ppm (parts per million) for the former, and 200 ppm for the latter. The molybdenum values were mainly too low to be treated the same way and an arbitrary figure of 15 ppm used as threshold.

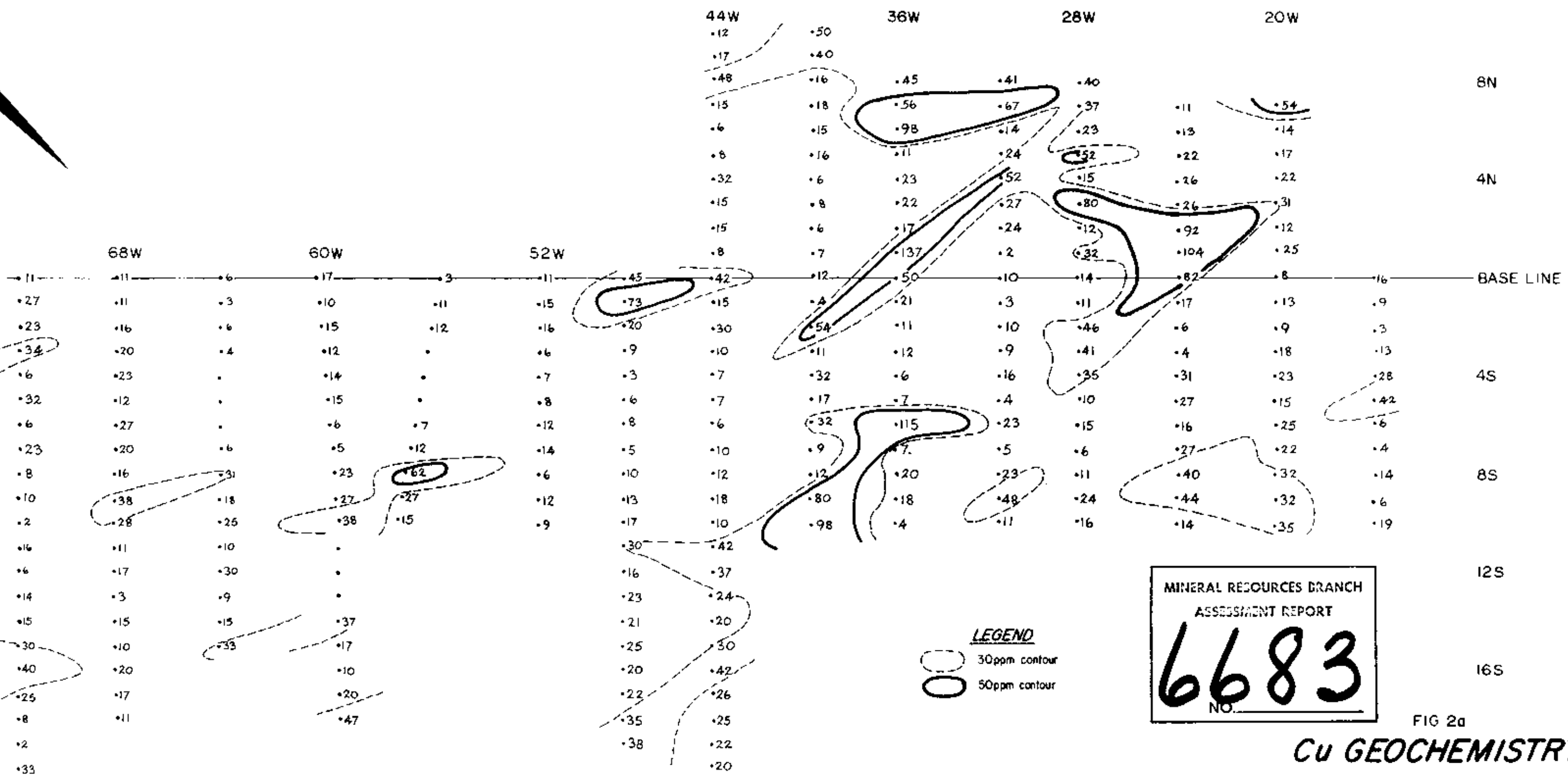
The values were plotted and contoured (Figs. 2a, b, and c), using one contour at the above thresholds, and one lower contour to outline trends. The contouring was carried out with the known geological trends in mind and is therefore biased. However the result was an excellent match of geochemistry and geology, and similar conclusions would have in any case been arrived at by 'blind' contouring.

## RESULTS

The strongest copper and zinc soil anomalies, overlie the rhyolite breccia, and the highest individual values are near the contact of the rhyolite with the sediments. The andesite is in contrast lacking in anomalies, and has a lower background soil metal content.

The close correlation of copper and zinc soil anomalies with each other and their generally sharp edges suggest that there has been little or no downslope movement of metals in the soil.

Two anomalies (at grid locations on 37W and 4S 36W respectively) correlate with known disseminated pyrite-sphalerite-chalcopyrite mineralization. The other anomalies are more distant from outcrop and



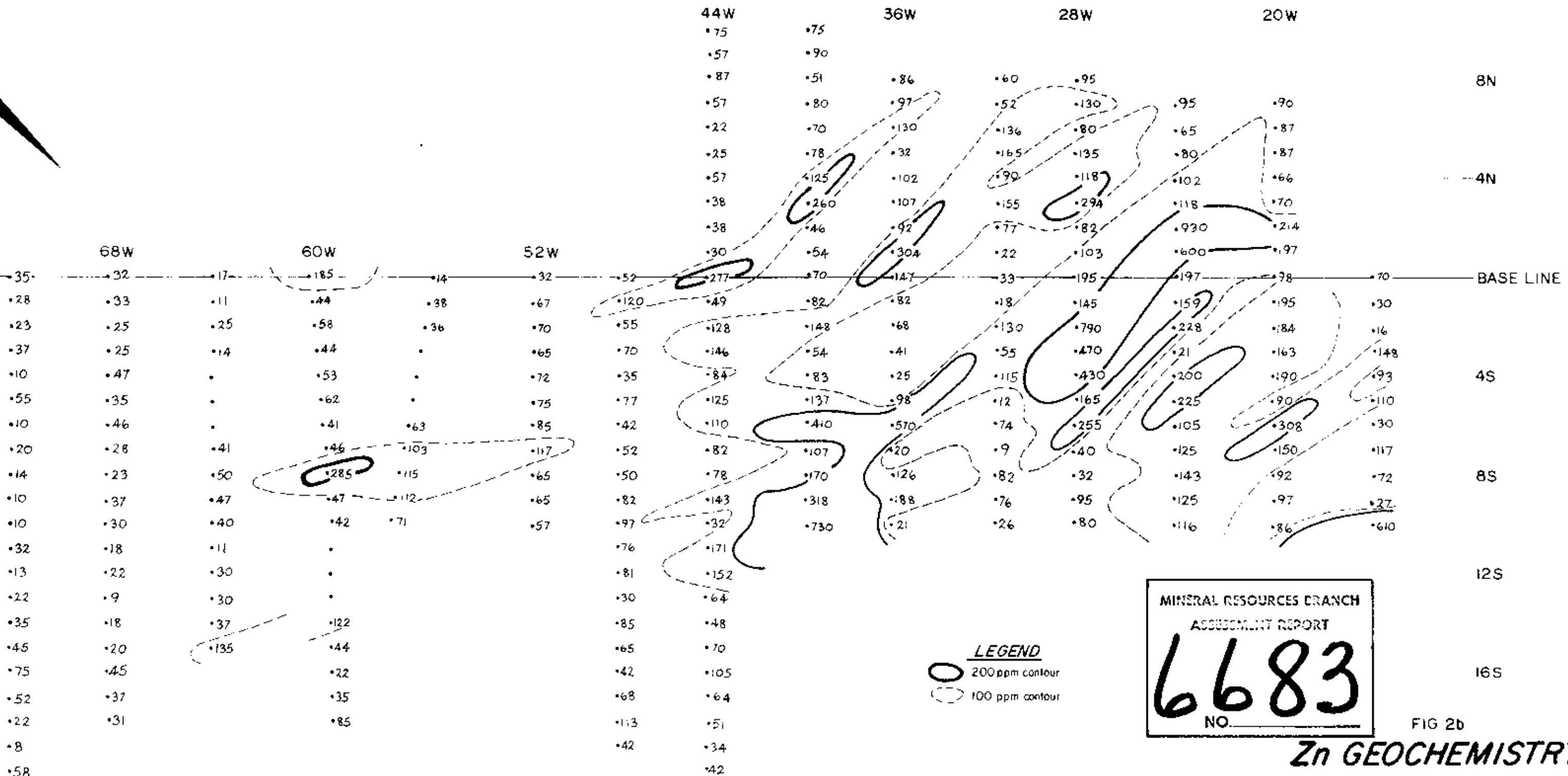
**LEGEND**  
 ○ 30ppm contour  
 ⊖ 50ppm contour

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**6683**  
 NO.

FIG 2a  
**Cu GEOCHEMISTRY**  
 I AM CLAIMS

*D. Anscott*

21 Jan. 78



**LEGEND**  
 ○ 200 ppm contour  
 ○ 100 ppm contour

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 ASSESSMENT REPORT  
**6683**  
 NO.

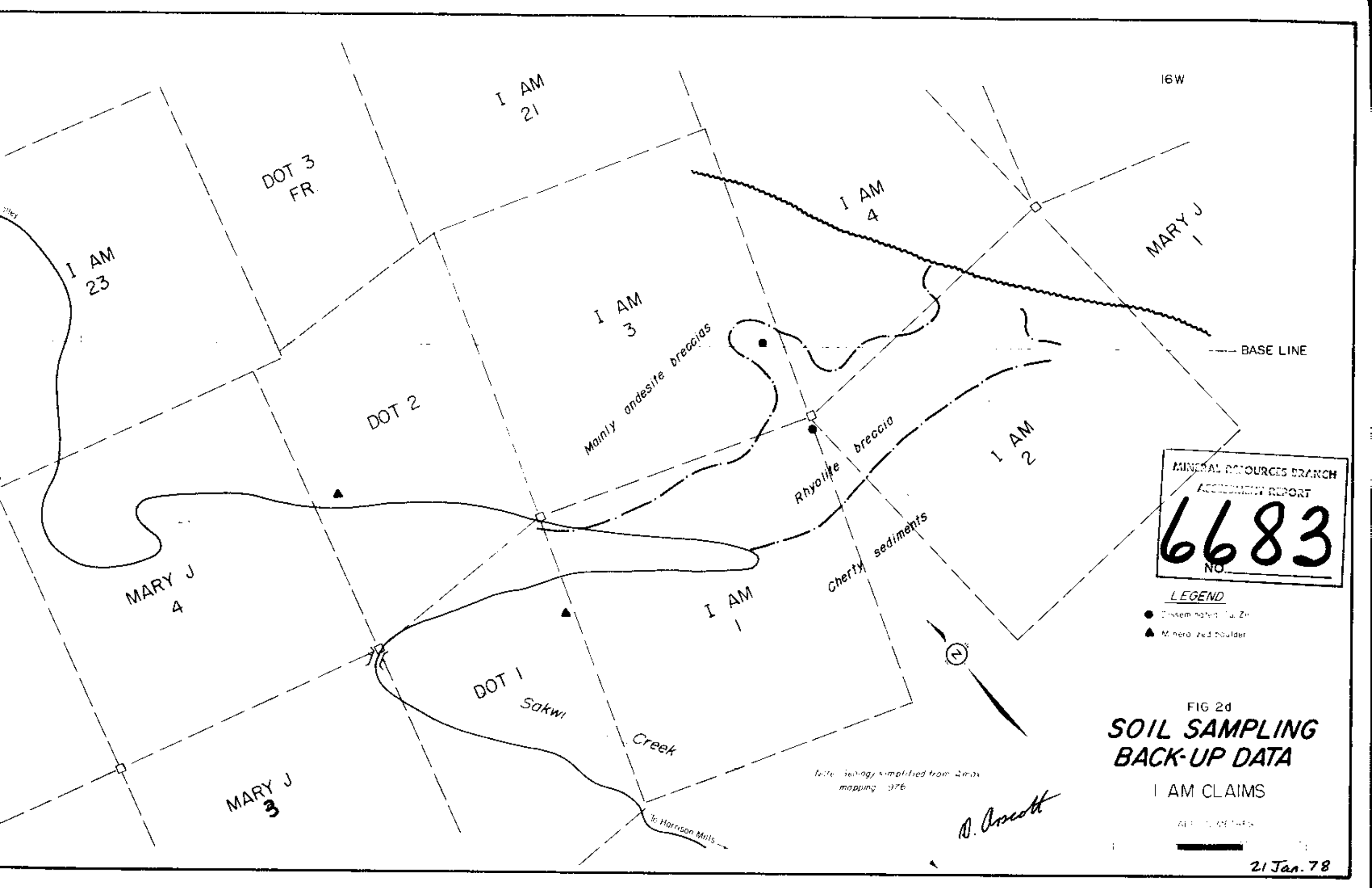
FIG 2b  
**Zn GEOCHEMISTRY**

1 AM CLAIMS

*D. Annett*

21 Jan. 78





16W

I AM 21

DOT 3 FR.

I AM 23

I AM 4

MARY J 1

I AM 3

Mainly andesite breccias

BASE LINE

DOT 2

Rhyolite breccia

I AM 2

MINERAL RESOURCES BRANCH  
ACCREDITED REPORT  
**6683**  
NO.

MARY J 4

Cherty sediments

LEGEND  
● Disseminated Cu, Zn  
▲ Mineralized boulder

I AM 1



DOT 1 Sakwi

Creek

FIG 2d  
**SOIL SAMPLING  
BACK-UP DATA**

MARY J 3

Note: Geology simplified from 200m mapping 1976

I AM CLAIMS

*D. Prescott*

Harrison Mills

SCALE

21 Jan. 78

their source therefore less obvious. In the vicinity of the rhyolite/sediment contact they could have a similar source, but could also represent stratiform, though relatively low grade, copper-zinc mineralization. It is interesting that earlier work indicated an extremely weak Induced Polarization anomaly close to this contact.

The copper-zinc anomaly at the W corner of the grid is unexplained. It might represent an extension of the rhyolite, but it does lie on the other side of Sakwi Creek, which is believed to coincide with a major fault.

Except for one open-ended anomaly at grid location 76W 10S, the molybdenum content of the soils was found to be extremely low. Inasmuch as the molybdenum trend coincides with the geologic trend, the one anomaly appears to have a stratigraphic control and is not likely to represent intrusive-related molybdenum.

#### CONCLUSIONS AND RECOMMENDATIONS

The rhyolite breccia is clearly anomalous in zinc and copper both in the regional sense, and relative to the neighbouring rock types. This fact, along with comparable rock types, textures, and stratigraphy, suggests a strong similarity to the environment at the Seneca prospect. The I AM claims evidently cover the same, or an equivalent, stratigraphic position in the volcanic pile.

It is unlikely that any continuous zone of massive copper-zinc sulphides is present at the bedrock surface in the grid area. The rhyolite-sediment contact does seem however to be a favourable horizon and is worth some effort to follow, either down dip or along strike.

As a next stage I would recommend extension of the soil sampling to the SE and WNW, along with further detailed geological mapping and boulder prospecting.

*David Arscott*

DAVID ARSCOTT



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1521 PEMBERTON AVE.,  
NORTH VANCOUVER, B.C.  
CANADA V7P 2S3

906-5211  
TELEPHONE: ~~906-5211~~  
AREA CODE: 604

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### Certificate of Geochemical Analyses

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Chevron Standard Ltd.  
901 Marine Bldg., 355 Burrard,  
Vancouver, B.C. V6C 2G8

Attention: Mr. Dave Arscott

Report No: 78-30 001 Page 1 of 8  
Samples Arrived: January 11, 1978.  
Report Completed: January 17, 1978.  
For Project: —  
Analyst: E.T.  
Invoice #441 Job #78001

Sample Marking	No PPM	Cu PPM	Zn PPM			
16W 00 B/L	2	16	70			
16W 15	nd	9	30			
2	nd	3	16			
3	1	13	148			
4	3	28	93			
5	2	42	110			
6	1	6	30			
7	1	40	117			
8	nd	14	72			
9	nd	6	27			
16W 10B	1	19	610			
20W 1W	1	25	197			
2	1	18	214			
3	nd	31	70			
4	1	22	66			
5	1	17	87			
6	1	14	87			
20W 7W	1	94	98			
20W 00 B/L	nd	8	98			
20W 1B	1	13	195			
2	nd	9	184			
3	1	18	163			
4	2	23	199			
5	2	15	90			
6	2	25	308			
7	1	22	150			
8	1	32	92			
9	1	38	97			
20W 10B	1	35	86			
24W 1W	1	104	600			
2	nd	96	930			
3	nd	26	118			
4	2	26	188			
5	1	22	80			
6	nd	13	65			
24W 7W	1	11	95			
24W 00 B/L	1	82	197			
24W 1B	1	17	139			
24W 2B	nd	6	228			

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REMARKS:

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.





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Samples Arrived:

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For Project:

Analyst:

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Sample Marking	No FPM	Cu FPM	Zn FPM			
24W 35	1	4	21			
4	2	31	200			
5	2	37	285			
6	1	16	105			
7	1	27	125			
8	1	40	143			
9	2	44	125			
24W 108	1	14	116			
20W 11W	1	32	105			
2	1	12	82			
3	1	80	294			
4	1	15	118			
5	1	38	135			
6	1	23	88			
7	1	37	130			
28W 28	1	40	95			
28W 00 11/L	1	14	195			
18	1	11	145			
2	2	46	790			
3	1	41	470			
4	3	35	430			
5	1	10	165			
6	2	15	265			
7	1	8	50			
8	1	11	32			
9	1	24	95			
28W 108	1	16	88			
30W 11W	1	8	33			
2	6	24	77			
3	1	27	155			
4	1	32	98			
5	1	24	165			
6	1	14	136			
7	1	37	32			
32W 28	1	41	66			
32W 00 11/L	1	10	33			
18	1	3	18			
2	1	10	130			
32W 35	1	9	55			

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Analyst:

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Sample Marking	No ppm	Cu ppm	Zn ppm			
32N 45	1	16	115			
5	nd	4	12			
6	1	23	74			
7	nd	5	9			
8	1	23	82			
9	1	48	76			
32N 105	nd	11	26			
30N 11	4	137	204			
2	1	17	92			
3	1	22	107			
4	1	23	102			
5	nd	11	32			
6	nd	98	138			
7	1	56	97			
36N 81	2	45	86			
30N 00 1/2	1	50	147			
15	nd	21	82			
2	nd	12	41			
3	nd	6	25			
4	nd	7	98			
5	3	115	570			
7	nd	7	29			
8	1	20	126			
9	nd	18	188			
30N 105	nd	4	21			
40N 15	nd	7	54			
2	nd	6	84			
3	nd	8	260			
4	nd	6	125			
5	nd	16	78			
6	nd	15	70			
7	nd	18	88			
8	nd	16	51			
9	1	40	90			
40N 105	1	50	75			
40N 00 1/2	2	12	70			
15	nd	4	82			
40N 25	1	54	148			

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 Analyst:

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Attention:

Sample Marking	No PFR	Cu PPM	Zn PPM			
401	1	11	54			
	1	32	83			
	1	17	137			
	1	32	410			
	1	9	107			
	1	12	170			
402	5	80	318			
403	1	8	730			
	1	15	30			
	1	15	38			
	1	32	57			
	1	8	85			
	1	6	22			
	1	15	57			
	2	48	87			
404	1	17	57			
405	2	12	75			
406	2	42	277			
	1	15	49			
	2	30	128			
	1	10	146			
	1	7	84			
	1	7	125			
	1	6	110			
	1	10	82			
	1	12	78			
	1	28	249			
	1	10	32			
	2	42	171			
	1	37	152			
	1	24	64			
	1	30	48			
	1	30	70			
	1	42	105			
	2	26	64			
	1	25	51			
407	1	20	33			
	1	20	42			

REMARKS:

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Attention:

Sample Marking	No DPM	Cu DPM	Zn DPM			
48V 00 B/L	2	45	52			
15	1	73	120			
2	1	29	59			
3	1	9	70			
4	1	3	35			
5	1	6	77			
6	1	8	42			
7	1	9	52			
8	1	10	50			
9	1	13	82			
10	2	17	97			
11	3	30	76			
12	4	16	81			
13	4	23	30			
14	3	21	85			
15	2	25	65			
16	3	20	42			
17	4	22	88			
18	2	35	113			
48V 108	4	38	42			
52V 00 B/L	1	11	32			
15	2	15	67			
2	1	16	78			
3	1	6	65			
4	1	7	72			
5	1	8	75			
6	1	12	85			
7	1	14	127			
8	1	6	65			
9	1	12	65			
52V 108	1	9	57			
56V 00 B/L	1	3	14			
2	1	11	38			
6	1	12	36			
7	1	7	63			
8	3	12	103			
9	2	62	115			
56V 108	3	27	122			
	1	15	71			

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Attention:

Sample Marking	No vials	Cu ppm	Zn ppm			
60W 00 B/L	3	17	185			
18	1	10	44			
2	2	23	38			
3	1	12	44			
4	2	14	53			
5	1	15	62			
6	1	6	41			
7	1	5	46			
8	3	23	285			
9	4	27	47			
10	6	38	42			
14	3	37	122			
15	2	27	44			
16	2	10	22			
17	2	20	35			
60W 18B	4	47	85			
64W 00 B/L	1	6	17			
18	1	3	21			
2	1	6	25			
3	1	4	14			
7	1	6	21			
8	4	21	38			
9	2	28	47			
10	5	25	46			
11	3	10	11			
12	7	30	38			
13	5	9	36			
14	2	23	37			
64W 15B	2	33	135			
68W 00 B/L	1	11	22			
18	1	11	33			
2	1	16	25			
3	1	20	35			
4	1	23	47			
5	1	12	35			
6	4	27	46			
7	7	20	28			
8	4	16	23			
68W 9B	7	38	37			

REMARKS:

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Samples Arrived:  
Report Completed:  
For Project:  
Analyst:

Attention:

Sample Marking	No	Cu	Zn			
	PPM	PPM	PPM			
60N 10B	10	28	30			
	11	11	18			
	12	27	22			
	13	3	9			
	14	3	18			
60N 72N 00	15	10	20			
	16	20	45			
	17	27	37			
	18B	11	31			
	B/L	11	35			
72N	19	27	28			
	2	23	23			
	3	24	37			
	4	6	10			
	5	3	55			
	6	3	10			
	7	5	20			
	8	3	24			
	9	3	10			
	10	1	2			
76N 06	11	16	32			
	12	6	13			
	13	14	22			
	14	15	35			
	15	1	45			
76N	16	40	75			
	17	1	25			
	18	2	2			
	19	nd	8			
76N	20B	33	68			
	B/L	21	35			
	18	10	30			
	3	21	21			
	4	30	46			
76N	5	35	24			
	6	15	24			
	7	25	2			
8B	2	19	22			

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REMARKS:

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



STATEMENT OF COSTS

I AM CLAIMS

CONTRACT COSTS: (Amex Exploration Services Ltd.)

Labour:	A. Ablett	3 days	
	P. Cox	12 days	
	J. Tynich	<u>9 days</u>	
		24 man days	
	Total, including C.P.P., H.P., U.I.C., insurance, etc.		\$2,176.20
	(equivalent approx. 90.67 per man day		
Other:	Board & Lodging	886.20	
	Transportation	420.00	
	Field supplies	<u>257.60</u>	
		1,563.80	1,563.80

CHEVRON COSTS

Analyses - 283 samples at 2.60	\$735.80	
Supervisory - 1½ days (D.A.) at \$140.	210.00	
- Truck, 1 day	25.00	
- Food and gas	14.00	
- Telephone	5.80	
Report - 2½ days (D.A.) at \$140.	350.00	
- drafting, 1½ days at \$70.	105.00	
- typing, 3 hrs. at \$7.00	<u>21.00</u>	
		<u>1,466.60</u>

TOTAL PROGRAM COST

5,206.60

*David Ascott*



## REFERENCES

### Government Reports

- 1970 Hope Map Area, G.S.C. Paper 69-47  
1972 Geology, Exploration and Mining in B.C., p. 102-114  
1973 Geology, Exploration and Mining in B.C., p. 125-128

### Property Assessment Reports

- 1972 Report #5597 Rio Tinto Canadian Exploration Ltd.  
1971 Report #3440 Cominco Ltd.  
1976 Report # ? Amax Potash Ltd.

CERTIFICATE

I, David Philip Arscott, am a Professional Engineer, registered in British Columbia with office address at 901-355 Burrard Street, Vancouver, B. C. V6C 2G8.

I have 12 years' experience in various phases of mineral exploration, of which approximately 9 years have been spent in B. C. and the Canadian Cordillera.

The 1977 geochemical survey on the I AM claims was carried out under my direction by Amex Exploration Services Ltd.

*David Arscott*

DAVID ARSCOTT, P.ENG.

20 January, 1978