

# 4490

## 1973 Geophysical Report

TITLE Spout Lake Copper Property (WC Claims)

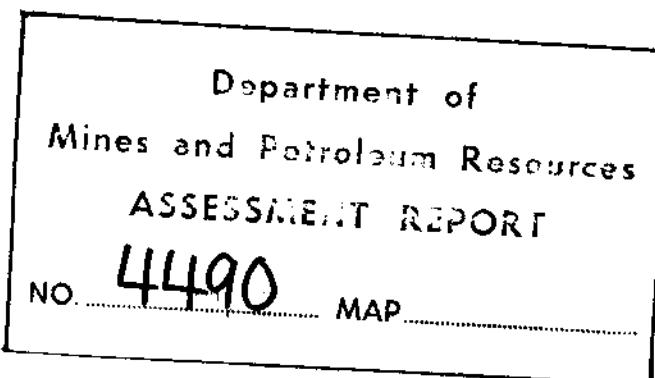
AUTHORS G.M. DePaoli, B.Sc. Geophysicist  
J.F. Allan, P.Eng. (B.C.)

DATE July 1973

COMMODITY Cu

LOCATION-Area Lac La Hache  
-Mining Divisions Clinton and Cariboo  
-Coordinates Latitude 52°00'N Longitude 121°25'W  
-NTS 92 P 14 and 93 A 3

AMAX VANCOUVER OFFICE



# 4490

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## SUMMARY

During the period May 30 - June 6, 1973 and June 11 and 12, 1973, 8.6 line miles of induced polarization surveying were completed over the Spout Lake Copper Property. The survey extended previous I.P. data coverage and reduced interline spacing to 400 feet.

The results indicate the presence of several narrow, polarizable bodies. Testing of the anomalies is warranted because of the occurrence of chalcopyrite mineralization in a magnetite skarn assemblage.

## INTRODUCTION

The Spout Lake Copper Property consists of 135 WC claims owned by Amax Potash Limited. During the period May 8 to June 13, 1973 eight miles of line refurbishing and nine miles of induced polarization surveying were completed on the property. The following report describes the instrumentation, field procedure and results obtained from the survey.

### Location and Access

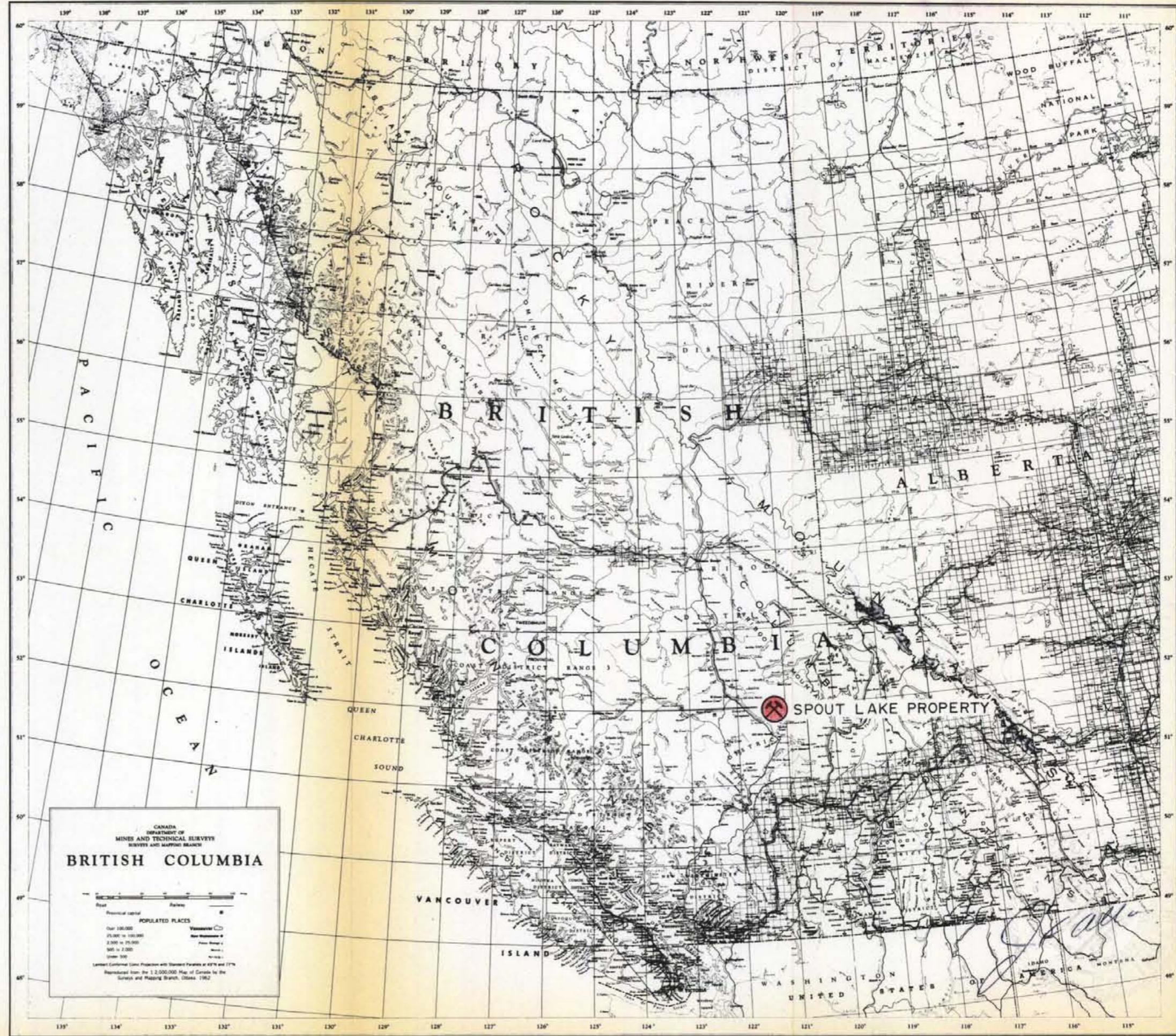
The property lies adjacent to Spout Lake within the Interior Plateau of south-central British Columbia. It is located fourteen miles north of Lac La Hache at coordinates 52°00'N latitude and 121°25'W longitude, and spans the border between the Clinton and Cariboo Mining Divisions. Access by two wheel drive vehicle is via the Spout Lake Road (see Figure 1).

### Grid Control

The grid system used for control was initially established in 1971 as flagged and blazed lines. The baseline strikes south from Spout Lake and east-west cross lines occur every four hundred feet for a distance of 6000 feet from the lake edge.

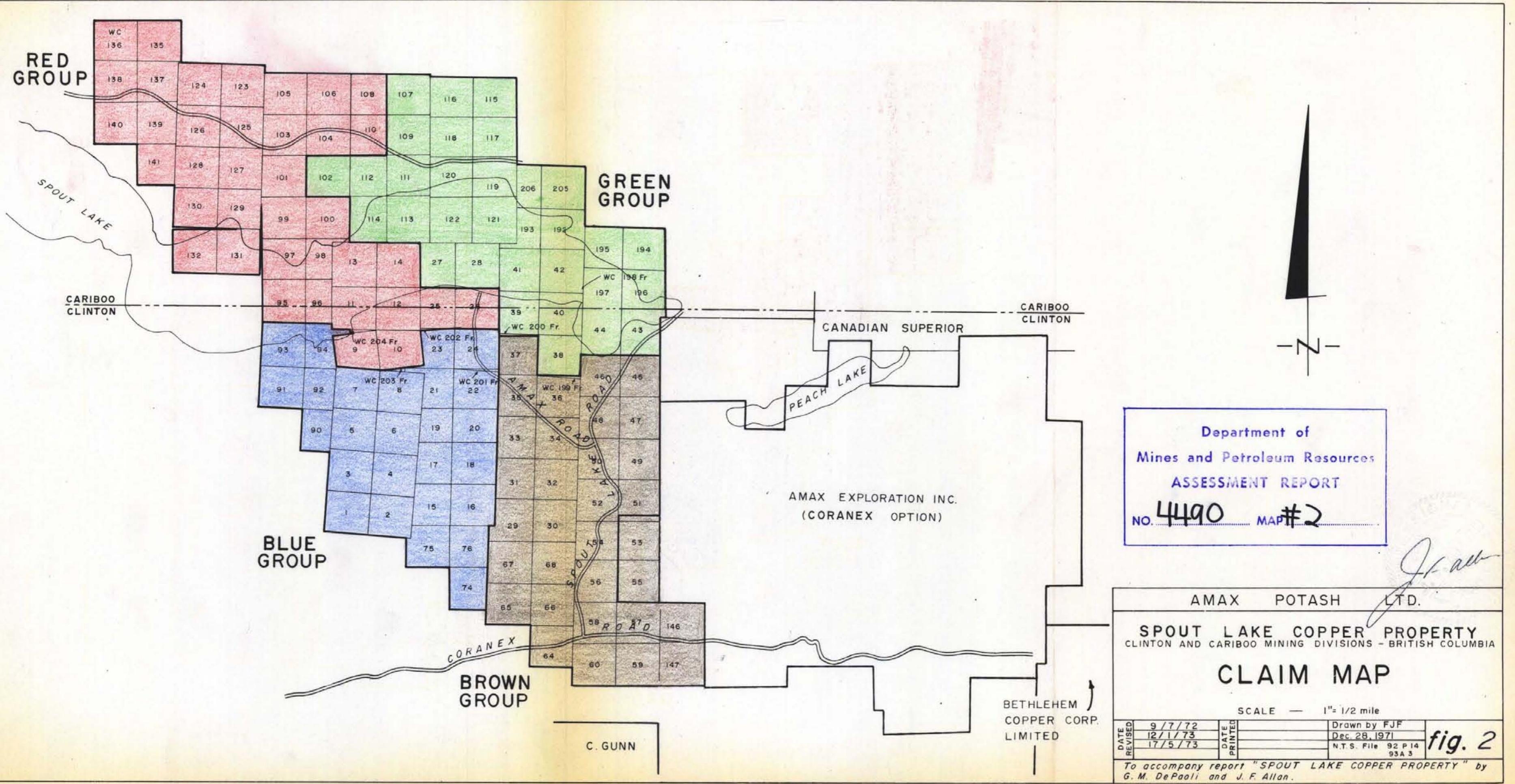
During May 1973 the eastern extent of cross lines 4+00S, 8+00S, 12+00S, 16+00S, 20+00S, 24+00S and 28+00S were

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 4490 MAP #1



LOCATION MAP

Figure 1



cut out with a power saw from the baseline.

In addition line 1+00S was added and also segments of lines 28+00S and 32+00S were also added as shown in Figure 3. All the lines mentioned above were rechained.

#### GENERAL GEOLOGY

The grid area is underlain predominantly by interbedded volcanic flows and related volcanic sediments of Upper Triassic or Jurassic age. Minor amounts of intrusive rock including pink syenite dykes and hornblende monzonite similar to that of the Takomkane batholith have also been noted. Chalcopyrite mineralization associated with a magnetite skarn assemblage is scattered for over 2000 feet on the property.

#### INDUCED POLARIZATION SURVEY

##### Introduction and Theory

During the period May 30 to June 6, 1973 eight line miles of induced polarization/resistivity surveying were completed over the property. The survey extended previous I.P. coverage obtained in 1972. A 200 foot dipole-dipole array was employed and measurements were taken to five separations ( $n=5$ ). In an effort to obtain better resolution on some anomalies several lines were resurveyed on June 11 and 12. For this detailed work a 50 foot dipole-dipole array was used. All the surveying was executed by Dennis F. Morrison, an independent geophysical contractor residing in Gravenhurst, Ontario.

The term induced polarization means electrical polarization (i.e. separation of charges) induced by an applied electric field. The cause of this polarization is changes in the mobilities of ions within a rock. At the interfaces between zones of different mobilities, excesses or deficiencies of ions occur. The concentration gradients developed oppose the current

flow and cause a polarizing effect. When mineral grains block the pore passages of rocks and a current is applied, a concentration of ions builds up at the electrolyte(water)-metal interface while awaiting an electrochemical reaction which must occur before the electric charge can be transferred from an ion in the electrolyte to a free electron in the metal. The forces which oppose the current flow are said to polarize the interface and the added voltage necessary to drive the current across this barrier is known as "overvoltage".

It takes a finite time to build up overvoltages and one finds that the impedances of these zones (Warburg Impedance) decreases with increasing frequency. In the frequency domain system that was employed, the decrease in the Warburg Impedance was measured between current applied at 0.3 hertz (AC 1) to current applied at 5.0 hertz (AC 2).

Resistivity information is useful in inferring overburden depths, defining abrupt lithological changes, and assessing the importance of any I.P. effects obtained.

#### Instrument and Procedure

A multiple frequency McPhar induced polarization system Model P660, was employed in measuring the polarization and resistivity parameters. The transmitter is a manually variable voltage source. The output current can be selected from both polarities and varies from direct current to automatically alternating output frequencies of 0.05, 0.1, 0.3, 1.25, 2.5 and 5.0 hertz.

On this survey the low and high frequencies employed were 0.3 and 5.0 hertz. Power was obtained from a  $2\frac{1}{2}$  KW - 400 hertz motor generator. The maximum output current for the transmitting system is 5 amp. while the maximum output voltage is 690 volts.

The receiver employed was the new 1969 A.C. P660 model.

This is a potentiometer type where the amplified and filtered signal is compared with a reference voltage. It is powered by six 8V alkaline transistor batteries and draws 7.5 ma. Total weight including carrying case and batteries is 5 pounds.

Survey procedure required the preparation of a set-up position near the center of each line. The transmitter and its motor generator power supply remained stationary at the set-up position and wires in increasing two hundred foot intervals were strung out in both directions. Care was taken to ensure that the wires were well separated to prevent inductive coupling effects. The ends of the wires were connected to aluminum foil electrodes which had been prepared earlier. The receiving dipole consisting of the receiver and a 200 foot "read" wire also utilized the aluminum foil electrodes where possible. However, once the receiving dipole moved past the last foil emplaced for the transmitting set-up, ground connections were made via porous pots containing a solution of copper sulphate. Radio contact between the receiver and transmitter operations coordinated power "on" and "off" periods.

#### Results and Discussion

The data is plotted on thirteen pseudosections in Appendix I. All the lines were surveyed using a 200 foot dipole length and lines 8+00S, 12+00S and 24+00S were resurveyed in anomalous areas using a 50 foot dipole length. A plan view displaying the interpreted polarizable zones projected to surface is presented in Figure 3.

Anomalies obtained near the main copper sulphide showings are interpreted as being caused by a very narrow dyke-like body. Apparent frequency effects greater than 2% are considered anomalous and true frequency effects as high as 10% are expected. From an analysis of the anomalies one would deduce a dyke-like body 80-150 feet wide having a near vertical dip.

An interpretation has been made filling the plan projections of the anomalies into two continuous zones (see Figure 3). In testing the composition of the polarizable source one should be alert to such generalizations, because of the erratic nature of skarn mineralization.

G.M. DePaoli, B.Sc.

July 1973

J.F. Allan, P.Eng. (B.C.)

## SPOUT LAKE - Amax Potash Limited

APPENDIX IISTATEMENT OF COSTS

Claim Name	Record Number	Group	Mining Division
WC 1-8 incl.	26573-26580 incl.	Blue	Clinton
9-12 incl.	26581-26584 incl.	Red	
15-24 incl.	26585-26594 incl.	Blue	
25-26	26595-26596	Red	
29-37 incl.	26597-26605 incl.	Brown	
38-40 incl.	26606-26608 incl.	Green	
45-60 incl.	26771-26786 incl.	Brown	
64-68 incl.	26790-26794 incl.	Brown	
74-76 incl.	26800-26802 incl.	Blue	
90-94 incl.	26816-26820 incl.	Blue	
95-96	26821-26822	Red	
146-147	27257-27258	Brown	
WC 198 FR.	29882	Green	
199 FR.	29883	Brown	
200 FR.	29884	Green	
201 FR.	29855	Blue	
202 FR.	29886	Red	
203 FR.	29857	Blue	
204 FR.	29888	Red	
WC 13-14	63318-63319	Red	Cariboo
27-28	63320-63321	Green	
41-42	63322-63323	Green	
43-44	63691-63692	Green	
97-101 incl.	63693-63697 incl.	Red	
102	63698	Green	
103-106 incl.	63699-63702 incl.	Red	
107	63703	Green	
108	63704	Red	
109	63705	Green	
110	63706	Red	
111-122 incl.	63707-63718 incl.	Green	
123-132 incl.	63719-63728 incl.	Red	
135-141 incl.	63731-63737 incl.	Red	
192-197 incl.	67945-67950 incl.	Green	
205-206	67951-67952	Green	

Period Of Work - May 8 to June 13, 1973Summary of Work - Refurbishing and Line Cutting - 7.5 line miles  
Induced Polarization Survey - 8.6 line miles

## Spout Lake Statement of Costs

Page Two

Personnel

G.M. DePaoli - 601-535 Thurlow Street, Vancouver 5, B.C.		
Geophysicist	9 days @ \$54.00/day	486.00
F.J. Ferguson - 601-535 Thurlow Street, Vancouver 5, B.C.		
Geological Technician	11 days @ \$43.00/day	473.00
B.W. Munday - Box 54, Avola, B.C.		
Labourer	17 days @ \$23.94/day	406.98
Nick Sworyk - Box 235, Houston, B.C.		
Labourer	13 days @ \$26.49/day	344.37
T.E. Gilchrist - 7210-112 Street, North Delta, B.C.		
Jr. Assistant	19 days @ \$17.10/day	324.90
D.S. Brooks - 1144 Cloverley Street, North Vancouver, B.C.		
Jr. Assistant	13 days @ \$17.96/day	233.48
D.R. Morrison - Box 418, Gravenhurst, Ontario		
IP Contractor	10 days @ \$220.00/day	2,200.00
Marcel Arsenault - Box 28, R.R.#3, Abrams Village, P.E.I.		
IP Helper	10 days @ \$20.00/day	200.00
<u>Board</u> - 102 man days @ \$10.00/day		1,020.00
<u>Vehicle</u> - 15 days @ \$12.00/day		180.00
<u>Report Preparation and Drafting</u>		200.00
		\$6,068.73
		=====

The work is to be applied for one year on

WC 6-8, 15, 53, 55, 57, 59, 60, 54, 65, 74-76,  
90, 94, 107-110, 115-118, 146, 147, 192-  
197, 198-204 FR., 205 and 206.

Declared before me at the City  
of Vancouver, in the Province of British Columbia, this 31st day of July 1973, A.D.

A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia.

Sub-mining Recorder

DENNIS F. MORRISON

INDUCED POLARIZATION SURVEYS

DATE JUNE 13, 1973.

AMAX EXPLORATIONS INC.  
601-535 THURLOW STREET,  
VANCOUVER, BRITISH COLUMBIA.

516

In account with D.F. MORRISON, BOX 418, GRAVENHURST, ONT.  
TO I. P. SURVEY: W.C. CLAIMS SPOUT LAKE B.C.

6A OPERATING DAYS.

6B STANDBY AND TRAVEL DAYS.

NUMBER OF OPERATING DAYS 10 @ \$220.00 per day = 2200<sup>00</sup>.

NUMBER OF TRAVEL AND  
STANDBY DAYS 2 @ \$100.00 per day = 200<sup>00</sup>

SUB TOTAL OF BASIC FEES

7A EXPENSES RECEIPTS ATTACHED

Plus 10% Overhead

TOTAL EXPENSES

0

7B SALARIES RECEIPTS ATTACHED

D.K.  
SUBTOTAL OF EXPENSES

PLUS 20% Overhead

AMOUNT DUE AND PAYABLE

P.O. BOX 418, GRAVENHURST, ONT.

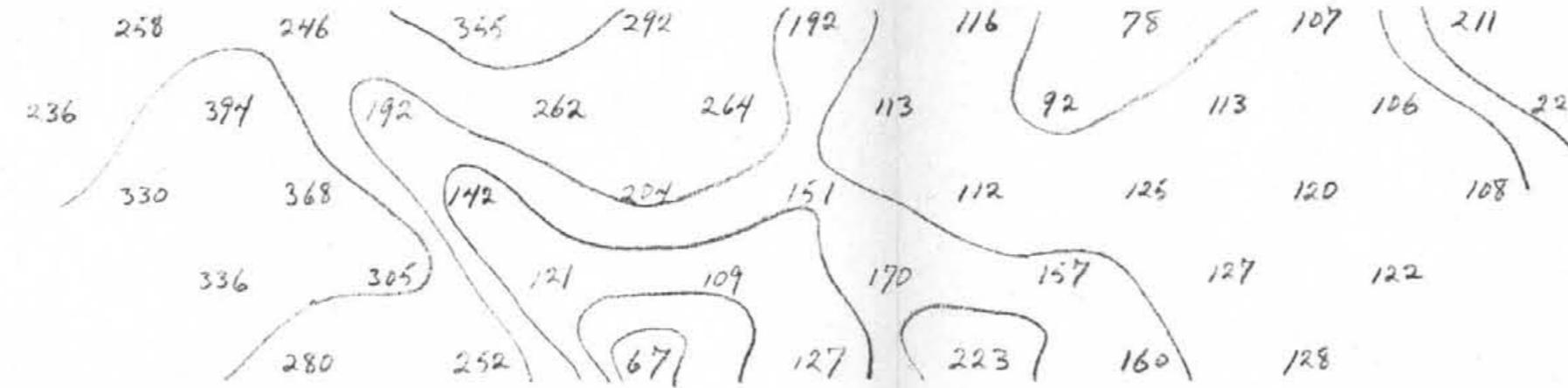
APPROVED	DATE	
Project	Exp. Code	AMOUNT
516	8682	2400.00

\$2400<sup>00</sup>

PHONE 705-687-2009 ✓

OK 13294 JUN 21 1973

12W 100' SW 600' 4W 2W 0E 2E 4E 6E 8E 10E 12E 14E



n=1

n=2

n=3 Po/277

n=4

n=5

INSTRUMENT

High Power I.P. (Dipole - Dipole)

LINE ENDS

ROAD LINE ENDS

FREQUENCY

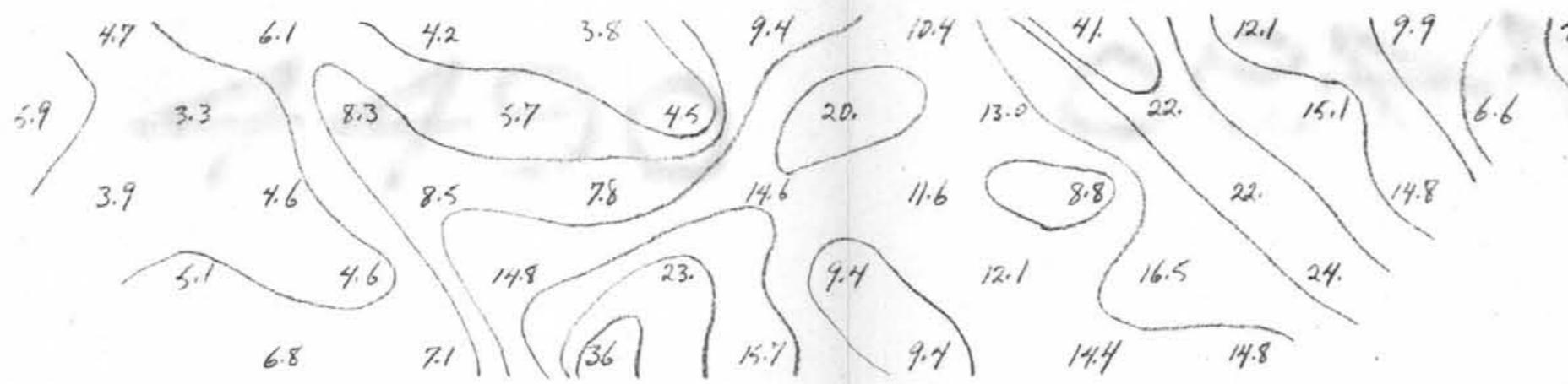
0.3 and 5 Hz

OPERATOR

D. F. Morrison

DATE

May - June 1973



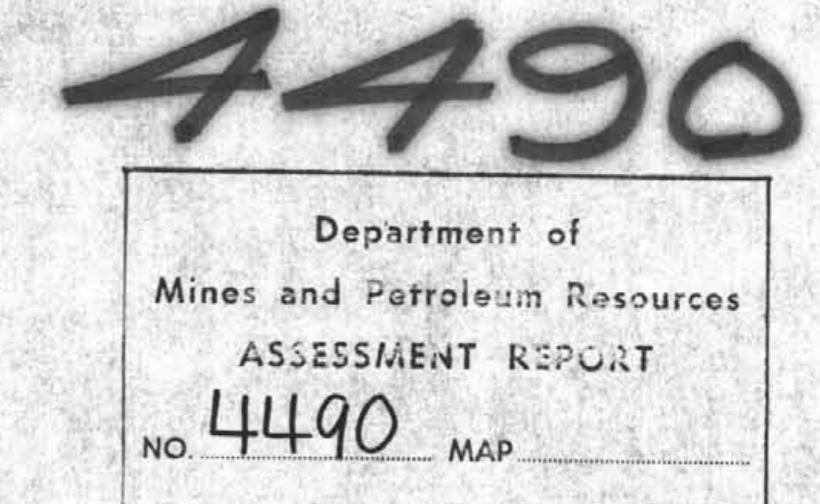
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n=2

n=3 M. F.

n=4

n=5



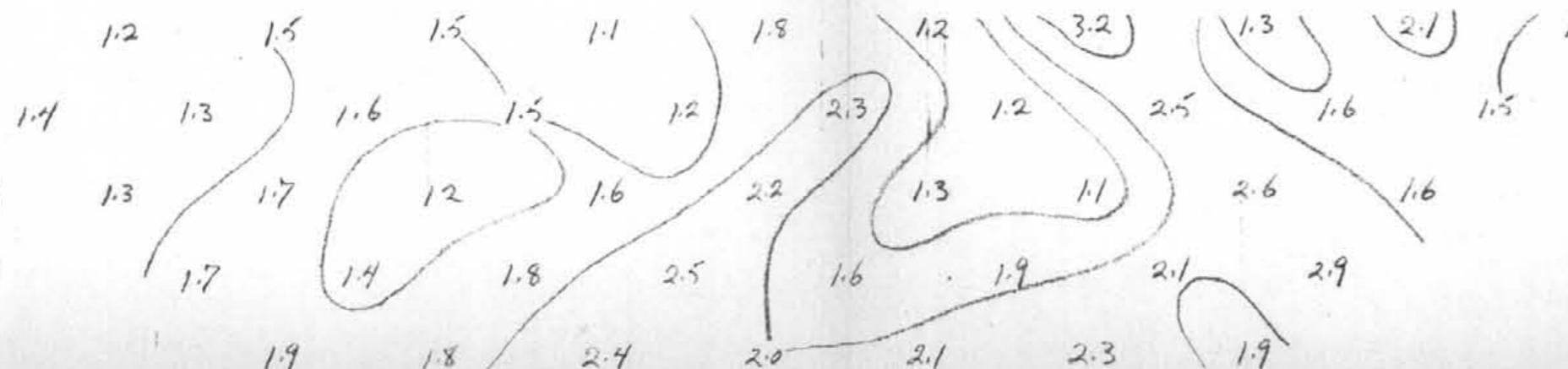
AMAX POTASH LIMITED

SPOUT LAKE COPPER PROPERTY  
CLINTON AND CARIBOO MINING DIVISIONS - BRITISH COLUMBIA

INDUCED POLARIZATION SURVEY  
LINE I + 00 S

SCALE 1" = 200'

To accompany report "SPOUT LAKE COPPER PROPERTY"  
by: G. M. DePaoli and J. F. Allan.



n=1

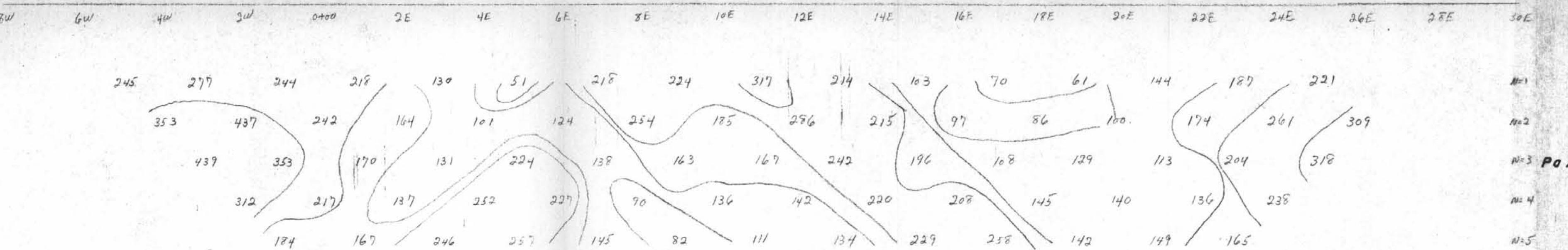
n=2

n=3 P. F. E.

n=4

n=5

APPENDIX I



## INSTRUMENT

#### **High Power I.P. (Ripple - Ripple)**

### FREQUENCY

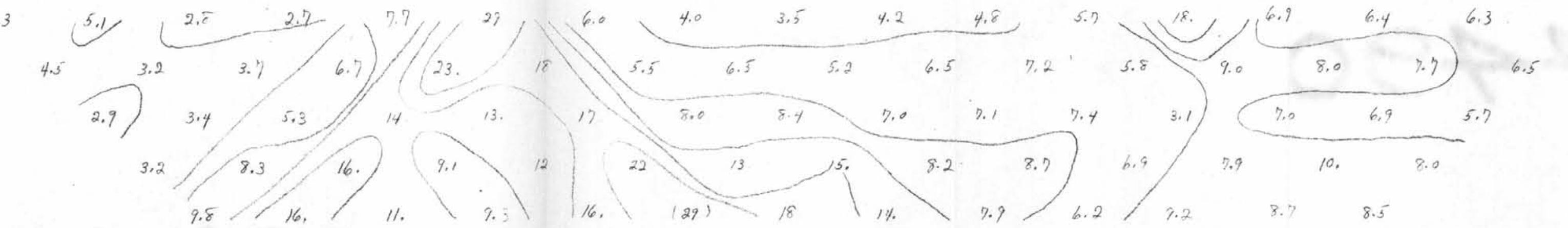
0.3 and 5 Hz

**OPERATOR**

D. E. Morris

DATE

May - June 197



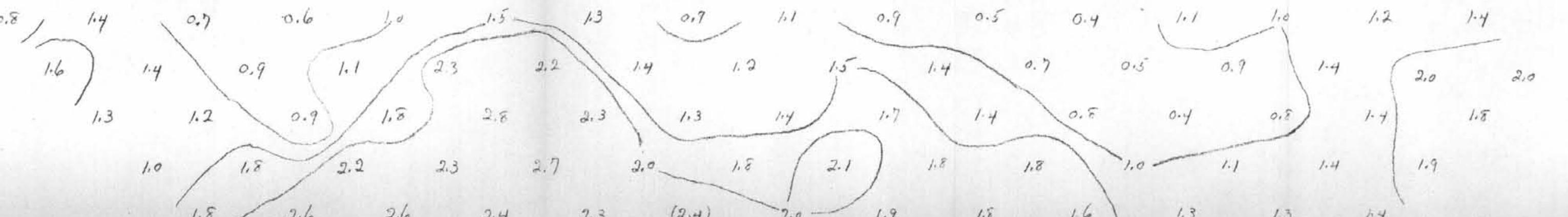
#### (2.4) Noisy reading

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4490 MAP

B1  
ROAD 2  
LINE ENDS  
8W 6W 4W 2W 0-00 2E 4E 6E RE { 10E 12E 14E 16E 18E 20E 22E 24E 26E 28E 30E

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**SPOUT LAKE COPPER PROPERTY**  
TON AND CARIBOO MINING DIVISIONS — BRITISH COLUMBIA



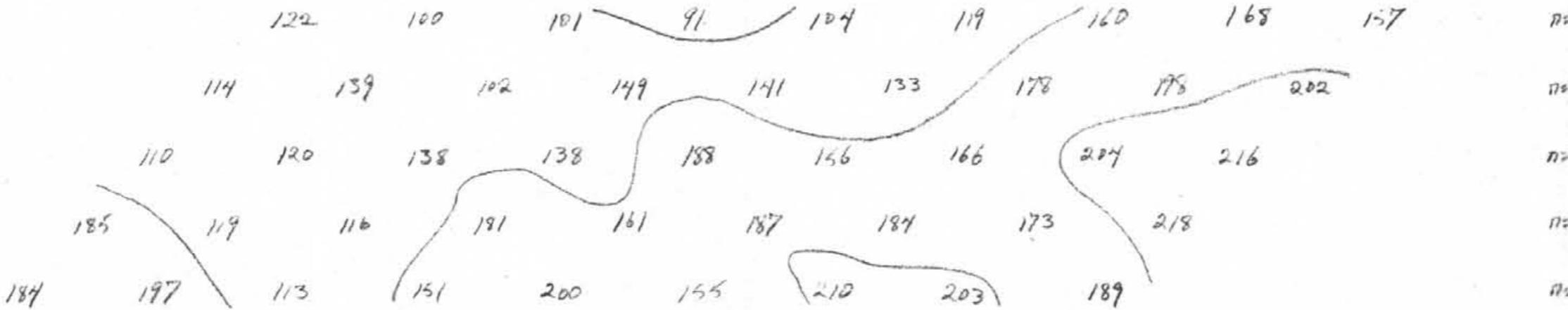
acc

SCALE 1" = 200'

SCALE 1" = 200'  
SPOUT LAKE COPPER PROPERTY  
F. Allan.

## APPENDIX

9E 18E 18E<sup>r</sup> 14E 16E 18E 20E 22E 24E 26E 28E 30E 32E 34E 36E 38E



INSTRUMENT: High Power I.P. (Dipole - Dipole)

FREQUENCY 0.3 and 5 Hz

**OPERATOR** D. F. Morrison

DATE May - June 1973

A hand-drawn map of the British Isles showing contour lines and numerical values representing data points. The values range from 7.1 to 19.8. Contour lines connect points with similar values.

Contour Value	Approximate Locations
7.1	Off the southwest coast of England
8.1	Off the southeast coast of England
8.3	Off the southeast coast of England
9.0	Off the southwest coast of England
9.6	Off the southeast coast of England
10.4	Off the southwest coast of England
10.6	Off the southeast coast of England
10.9	Off the southwest coast of England
11.4	Off the southwest coast of England
12.1	Off the southeast coast of England
12.4	Off the southwest coast of England
13.2	Off the southwest coast of England
14.2	Off the southwest coast of England
14.6	Off the southwest coast of England
15.1	Off the southwest coast of England
15.2	Off the southwest coast of England
16.8	Off the southwest coast of England
17.5	Off the southwest coast of England
19.8	Off the southwest coast of England
7.4	Off the southwest coast of England
8.5	Off the southwest coast of England
9.4	Off the southwest coast of England
9.9	Off the southwest coast of England
10.5	Off the southeast coast of England
10.9	Off the southwest coast of England
11.0	Off the southeast coast of England
11.7	Off the southwest coast of England
12.1	Off the southeast coast of England
12.4	Off the southwest coast of England
13.2	Off the southwest coast of England
14.2	Off the southwest coast of England
14.6	Off the southwest coast of England
15.1	Off the southwest coast of England
16.8	Off the southwest coast of England
17.5	Off the southwest coast of England
19.8	Off the southwest coast of England

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*NOTE*—

*Line rechained from Base Line (e.g. old chaining station 38+00 E is new chaining station 37+00 E)*

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
No. 4490 MAP

*Line rechained from Base Line (e.g. old chaining station 38+00 E is new chaining station 37+00 E)*

4490

**AMAX POTASH LIMITED**

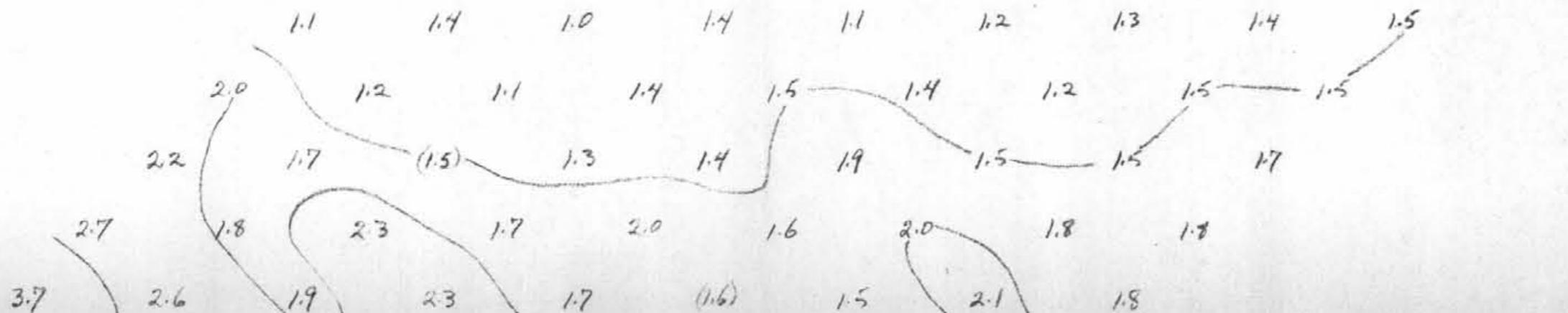
**SPOUT LAKE COPPER PROPERTY**  
CLINTON AND CARIBOO MINING DIVISIONS — BRITISH COLUMBIA

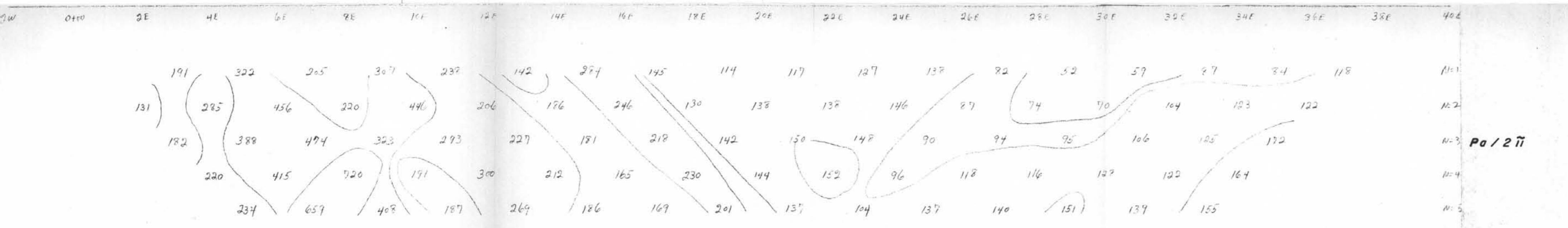
INDUCED POLARIZATION SURVEY  
LINE 8 + 00 S

SCALE 1" = 200'

To accompany report "SPOUT LAKE COPPER PROPERTY"  
by G. M. DePaoli and J. F. Allan.

## *APPENDIX I*





**INSTRUMENT**      High Power I.P. (Dipole - Dipole)

### High Power I.P. (Dipole - Dipole)

FREQUENCY 0.3 and 5

03 004 5

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**ANSWER**

— 1 —

1. *What is the primary purpose of the study?*

ASSESSMENT

ASSESSMENT

NO 4490

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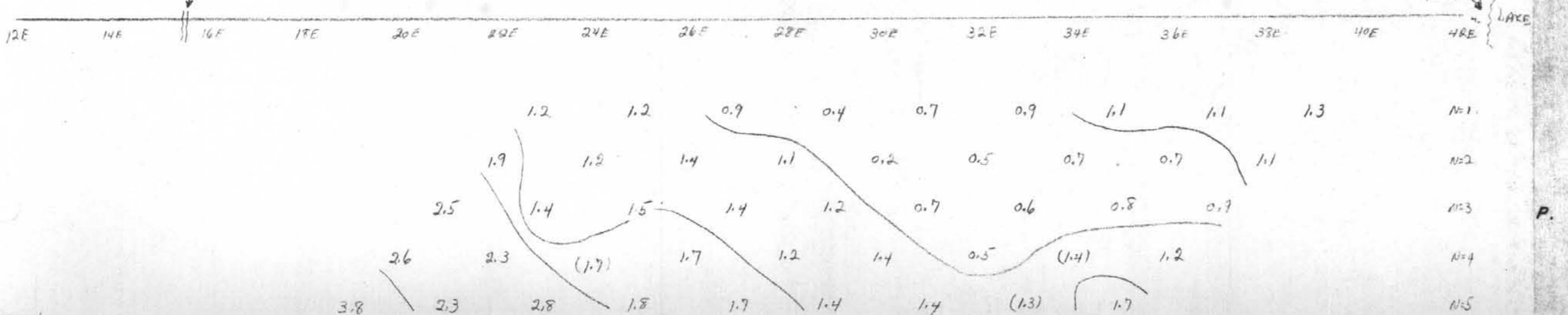
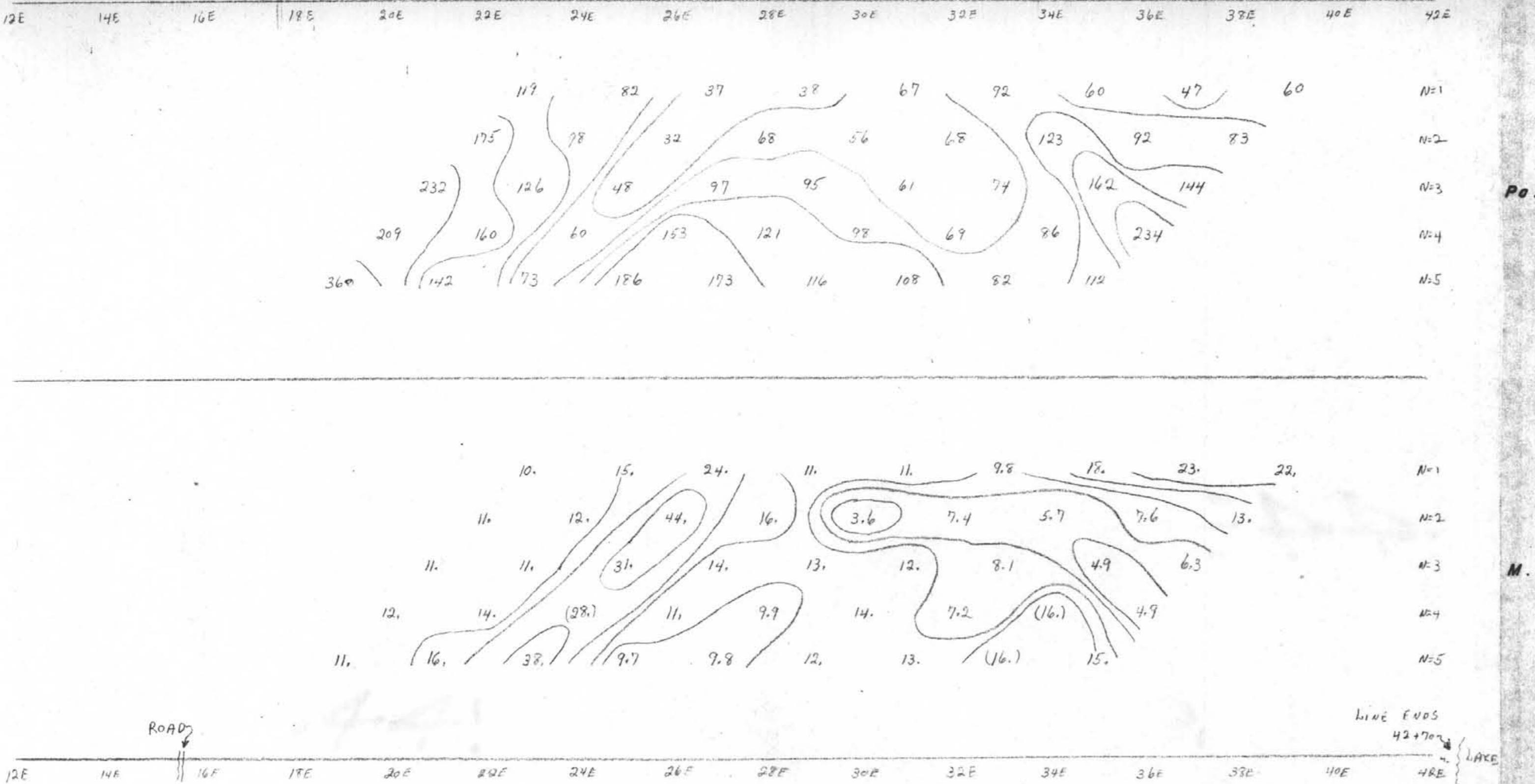
**AMAX POTASH LIMITED**  
**SPOUT LAKE COPPER PROPERTY**  
CLINTON AND SARIBOG MINING DIVISIONS - BRITISH COLUMBIA

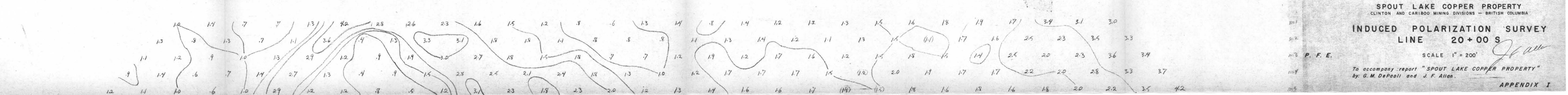
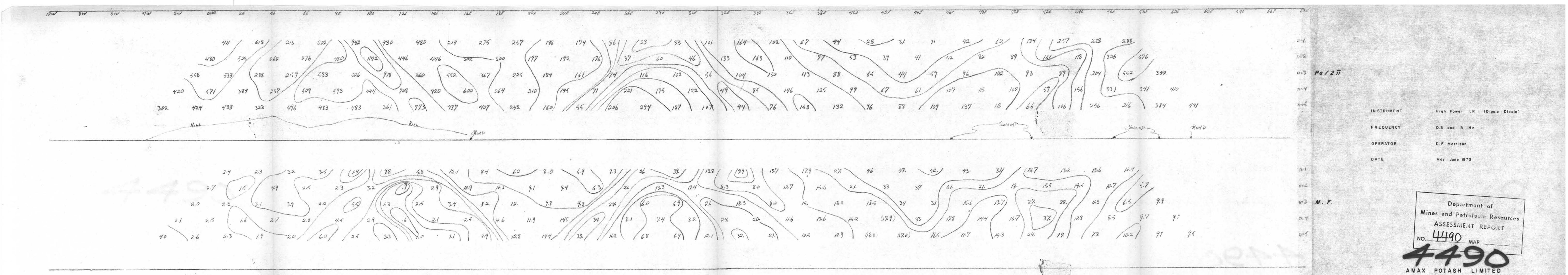
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LINE 12 + 00 S

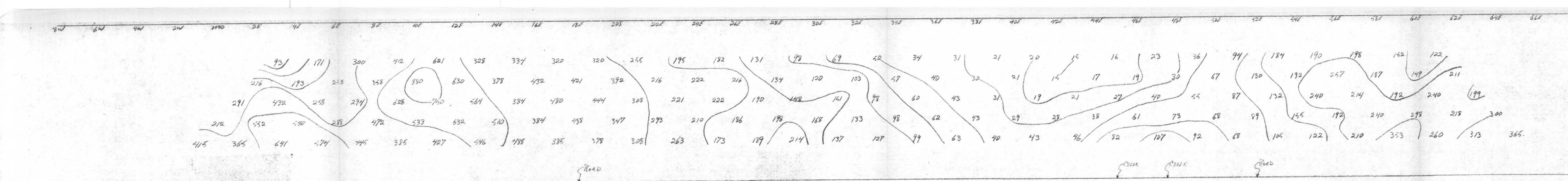
SCALE 1" = 200'

company : report " SPOUT LAKE COPPER PROPERTY  
M. DePaoli and J. F. Allan .

## APPENDIX

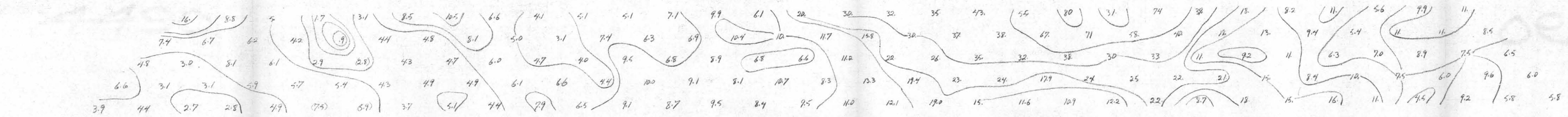
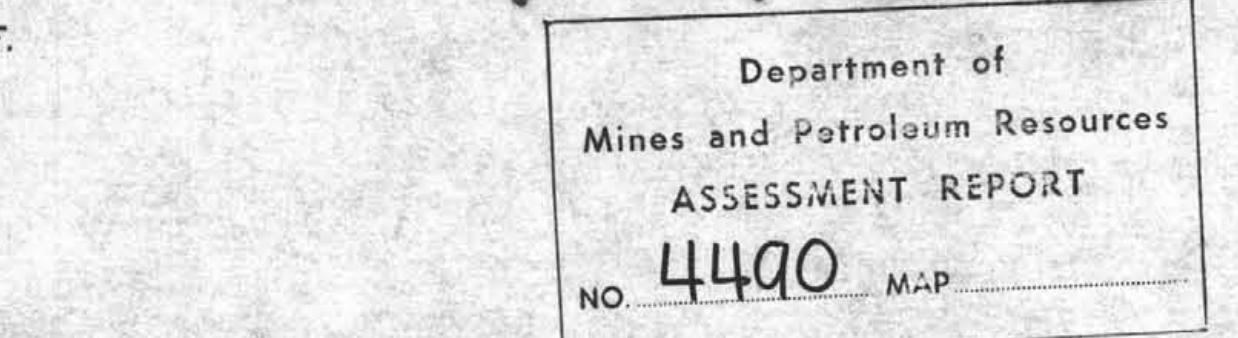




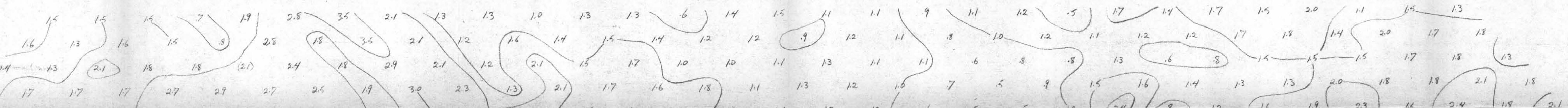


INSTRUMENT: High Power I.P. (Dipole - Dipole)  
 FREQUENCY: 0.3 and 5 Hz  
 OPERATOR: D. F. Morrison  
 DATE: May - June 1973

**4490**



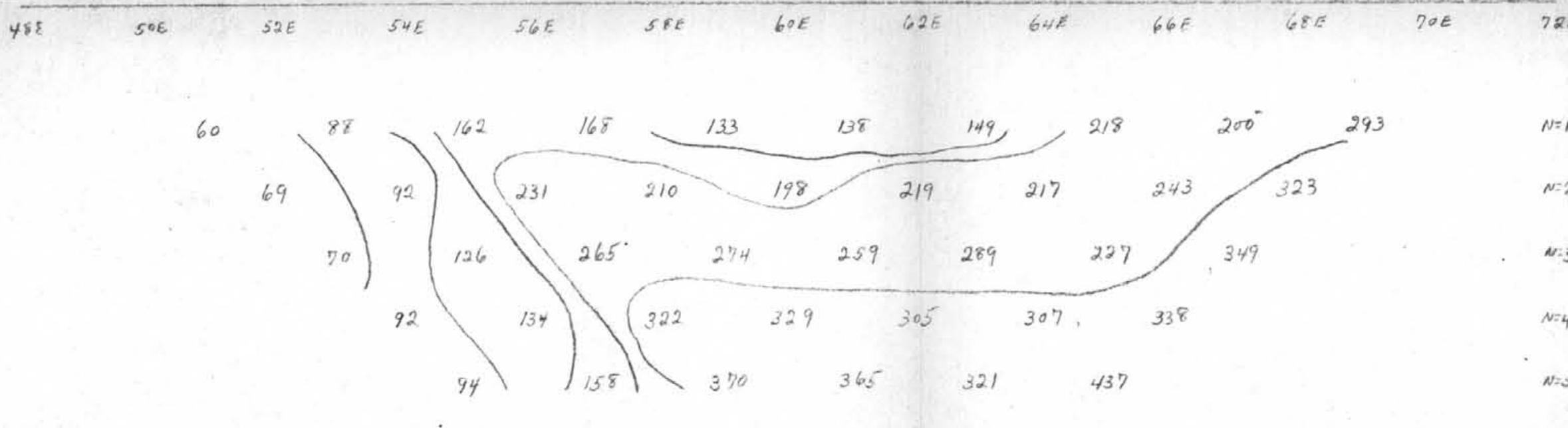
AMAX POTASH LIMITED  
SPOUT LAKE COPPER PROPERTY  
CLINTON AND CARIBOO MINING DIVISIONS - BRITISH COLUMBIA



INDUCED POLARIZATION SURVEY  
 LINE 28 + 00 S  
 SCALE 1" = 200'  
 To accompany report "SPOUT LAKE COPPER PROPERTY"  
 by: G. M. DePaoli and J. F. Allan

APPENDIX I



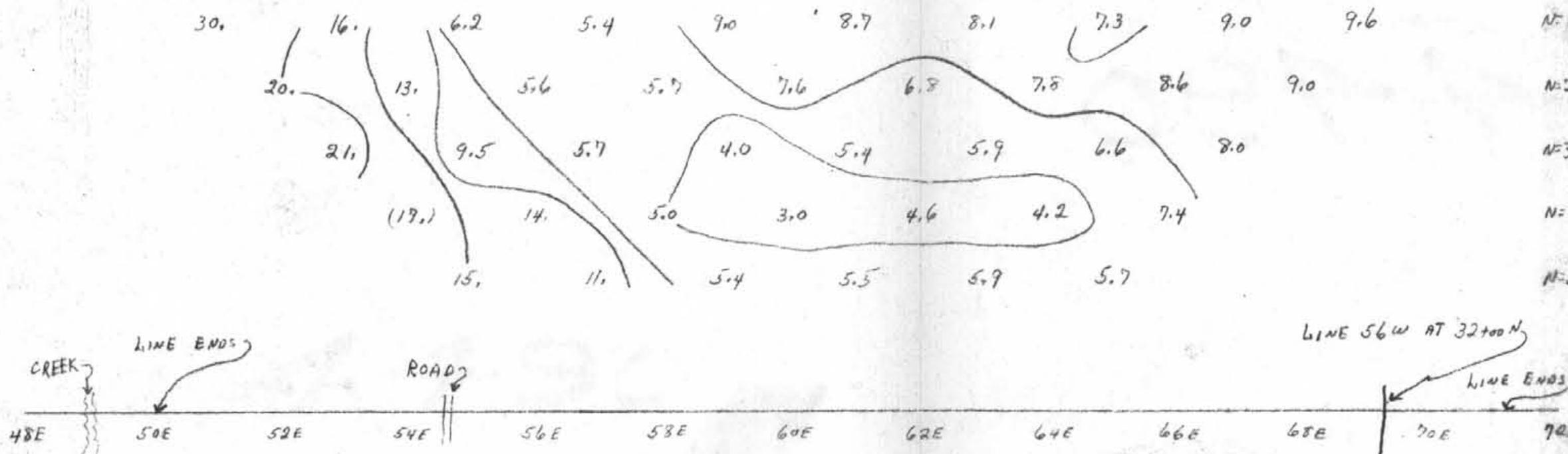


INSTRUMENT High Power I.P. (Dipole - Dipole)

FREQUENCY 0.3 and 5 Hz

OPERATOR D. F. Morrison

DATE May - June 1973



4490

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4490 MAP

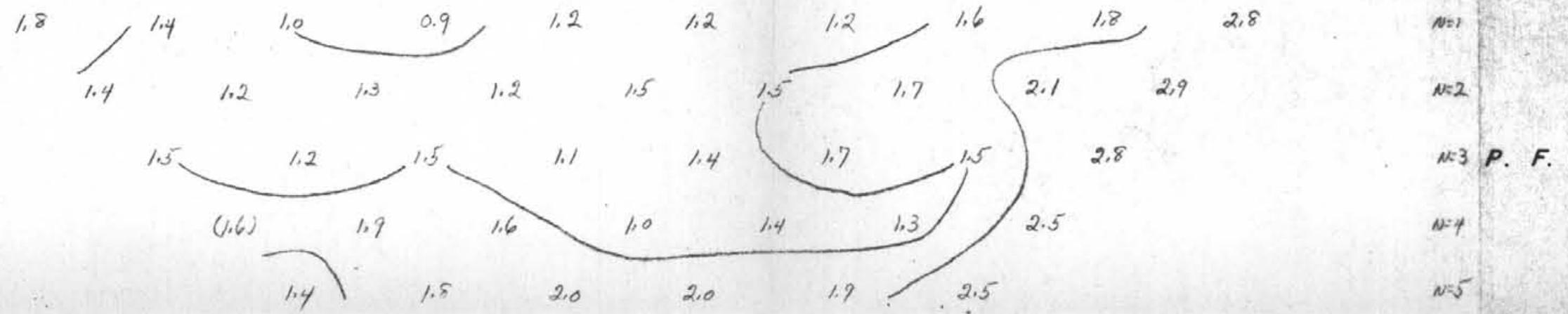
AMAX POTASH LIMITED

SPOUT LAKE COPPER PROPERTY  
CLINTON AND CARIBOO MINING DIVISIONS - BRITISH COLUMBIA

INDUCED POLARIZATION SURVEY  
LINE 26 + 00 S

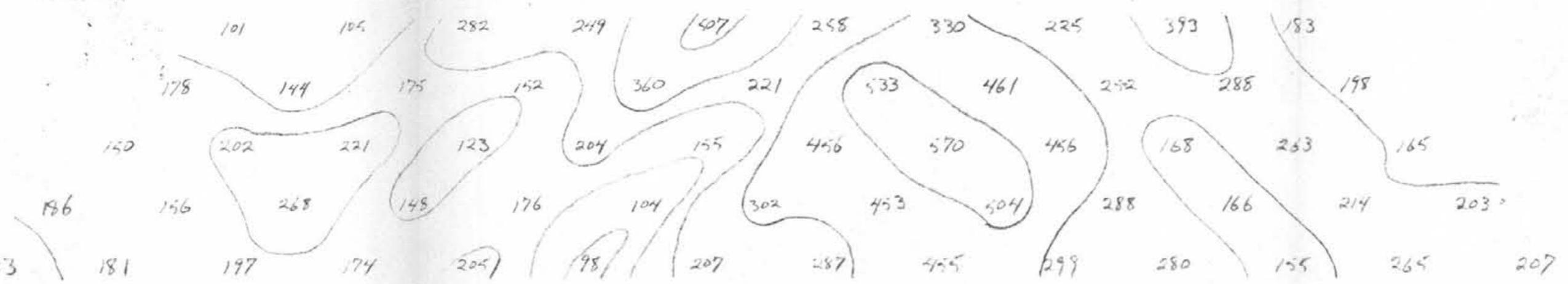
SCALE 1" = 200'

To accompany report "SPOUT LAKE COPPER PROPERTY"  
by: G. M. DePaoli and J. F. Allan.



APPENDIX I

4E. 4750E 5E 5450E 6E 6450E 7E 7750E 8E 8750E 9E 9450E 10E 10450E 11E 11750E 12E 12450E 13E 13750E 14E



INSTRUMENT High Power I.P. (Pipette - Pipet)

OPERATOR D. E. Morrison

DATE May - June 1973

DRILL HOLE

Digitized by srujanika@gmail.com

Mines and Petroleum Resource

11100

NO. 4490 MAP

www.oriental.com

429

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AMAX POTASH LIMITED

10. The following table shows the number of hours worked by 1000 workers in a certain industry.

## SPOUT LAKE COPPER PROPERTY

CLINTON AND CARIBOO MINING DIVISIONS - BRITISH CO.

INDUCED POLARIZATION S

LINE 2460 2

SCALE 1" = 50'

To accompany report "SPOUT LAKE COPPER PRO  
by G. M. DePauw and J. F. Allen

A contour map showing elevation values across a terrain. The map includes contour lines and labeled points with their corresponding elevations.

Labeled points and their elevations:

- Point A: 0.1
- Point B: 4.0
- Point C: 8.8
- Point D: 7.3
- Point E: 4.3
- Point F: 6.6
- Point G: 1.1
- Point H: 4.3
- Point I: 6.6
- Point J: 7.3
- Point K: 7.5
- Point L: 10.6
- Point M: 6.6
- Point N: 5.3
- Point O: 7.1
- Point P: 4.3
- Point Q: 2.7
- Point R: 4.1
- Point S: 2.0
- Point T: 3.8
- Point U: 1.9
- Point V: 4.9
- Point W: 7.9
- Point X: 4.3
- Point Y: 3.5
- Point Z: 3.7

SCALE 1" = 50'

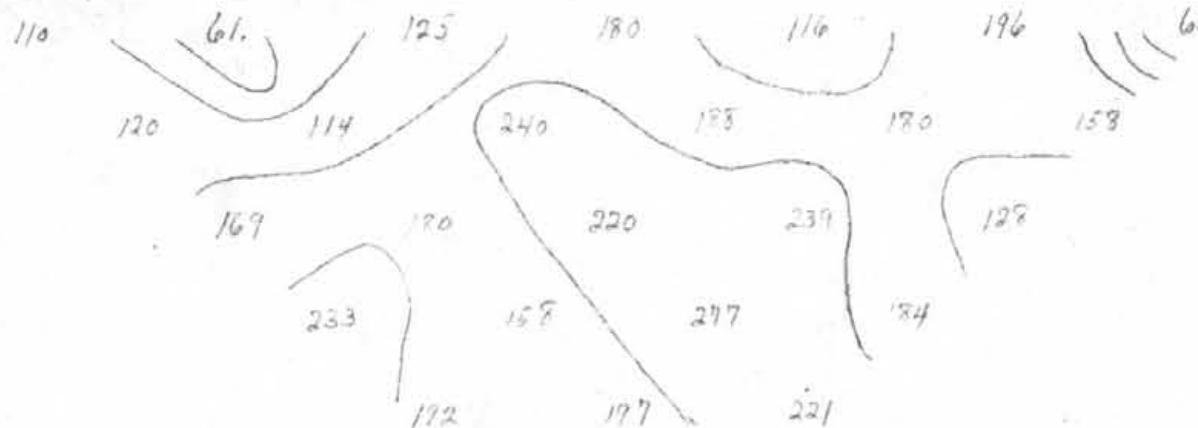
11

To accompany report "SPOUT LAKE COPPER PRO

by: G. M. DePaoli and J. F. Allan.

APPENDIX

11E 1150E 12E 1250E 13E 1350E 14E 1450E 15E 1550E



N-1

N-2

N-3 Pa / 2 II

N-4

N-5

INSTRUMENT

High Power I.P. (Dipole - Dipole)

FREQUENCY

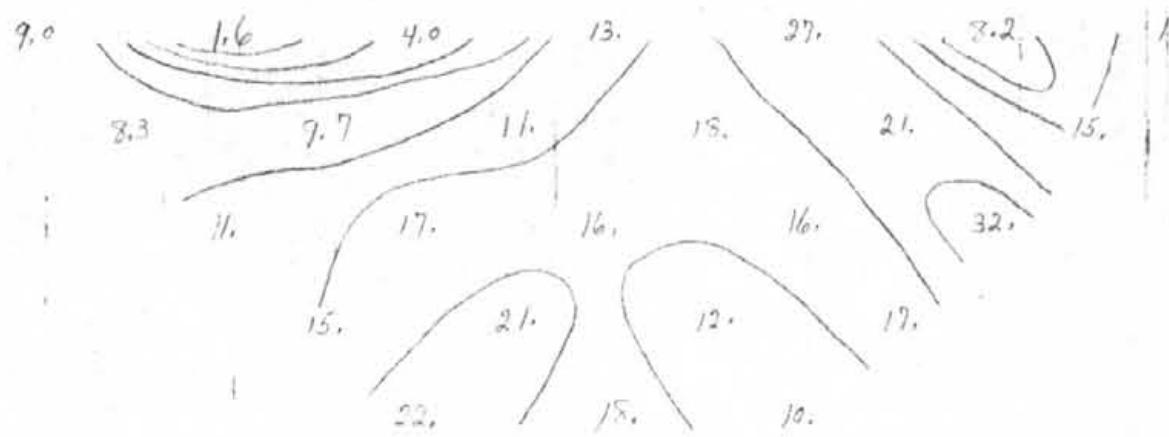
0.3 and 5 Hz

OPERATOR

D. F. Morrison

DATE

May - June 1973



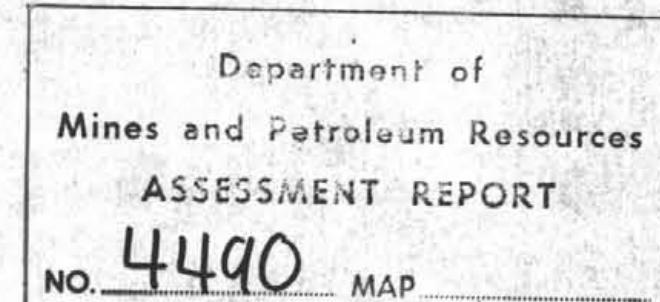
N-1

N-2

N-3 M. F.

N-4

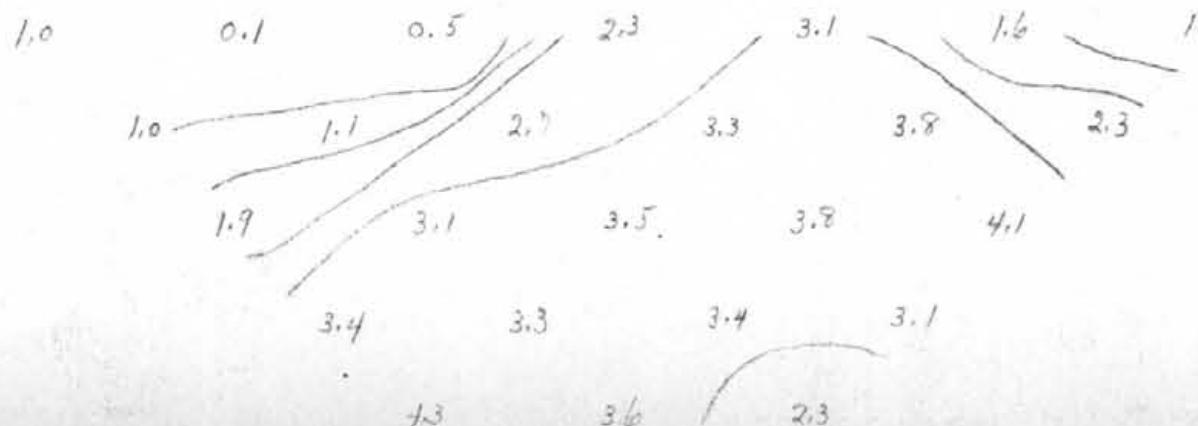
N-5



**4490**

AMAX POTASH LIMITED

11E 1150E 12E 1250E 13E 1350E 14E 1450E 15E 1550E



N-1

N-2

N-3 P. F. E.

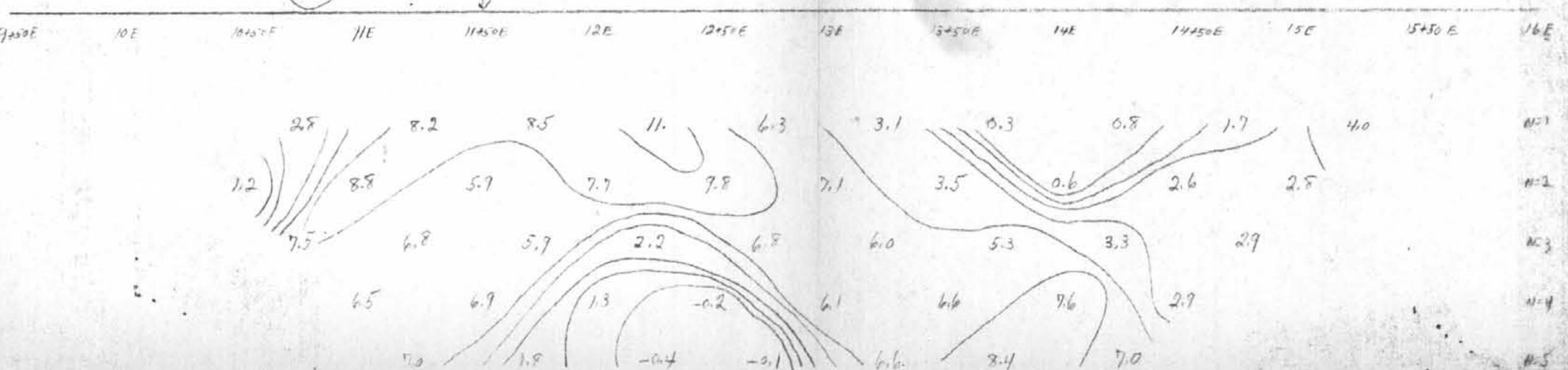
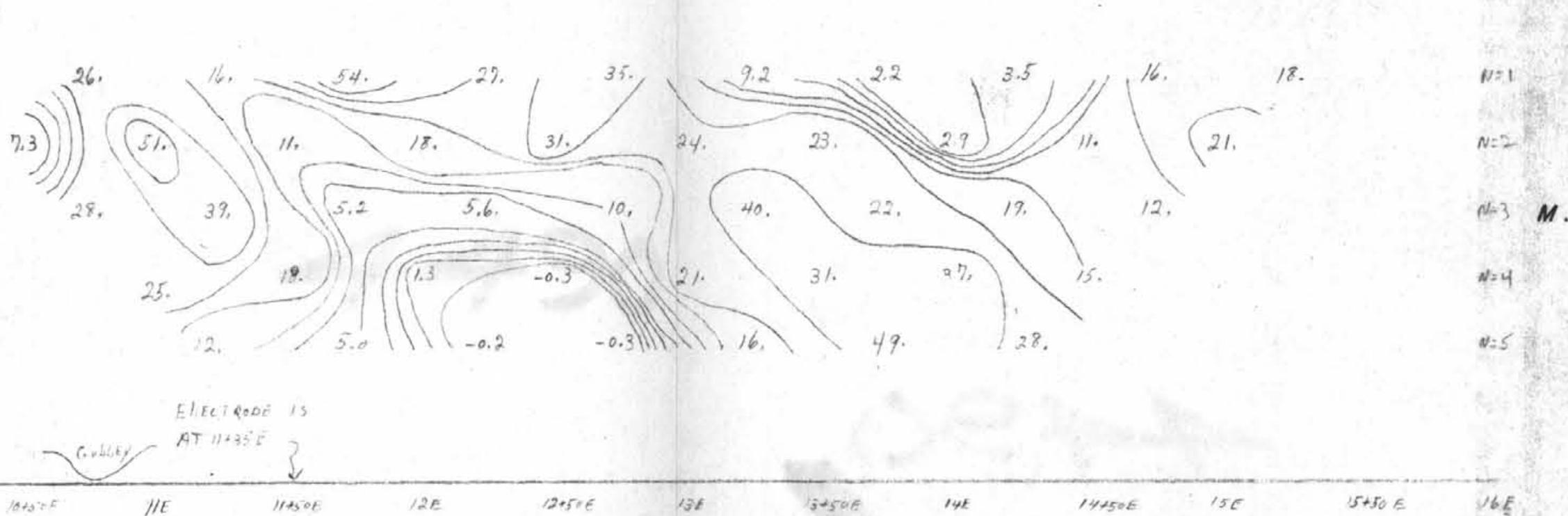
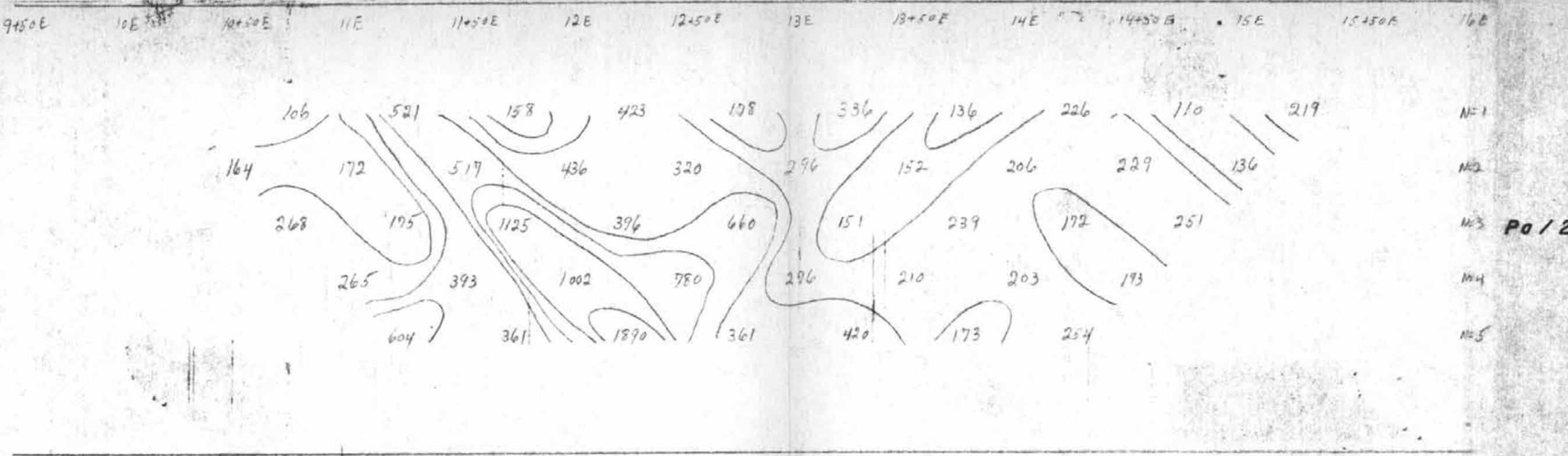
N-4

N-5

SCALE 1" = 50'

To accompany report "SPOUT LAKE COPPER PROPERTY"  
by G. M. DePaoli and J. F. Allan.

*J. F. Allan*  
**APPENDIX I**



**INSTRUMENT**                    **High Power I.P.**    **(Dipole - Dipole)**

FREQUENCY 0.3 and 5 Hz

**OPERATOR** D. E. Morrison

DATE May - June 1973

Department of  
Mines and Petroleum Resources

NO. 4490 MAP

NO. 4490 MAP 490

AMAX POTASH LIMITED

**UT LAKE COPPER PROPERTY  
AND CABIRCO MINING DIVISIONS — BRITISH COLUMBIA**

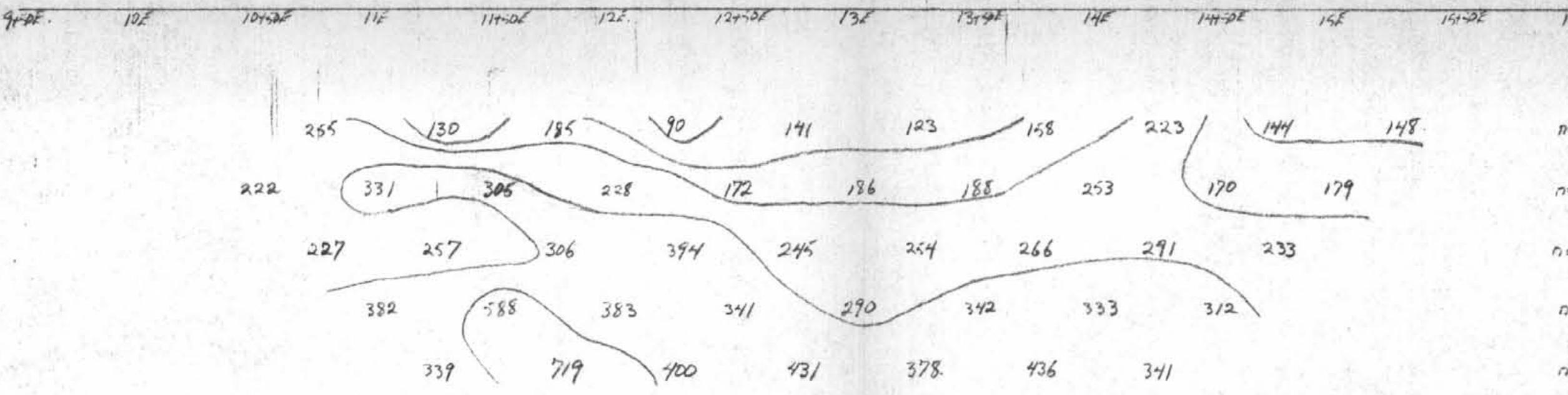
**SPOUT LAKE COPPER PROPERTY**  
CLINTON AND CARIBOO MINING DIVISIONS — BRITISH COLUMBIA

INDUCED POLARIZATION SURVEY  
LINE 20 + 00 S

SCALE 1" = 50'

To accompany report "SPOUT LAKE COPPER PROPERTY"  
by G. M. DePaoli and J. F. Allan.

## *APPENDIX I*



n=1

n=2

n=3 Pa / 2 II

n=4

n=5

INSTRUMENT

High Power I.P. (Dipole - Dipole)

FREQUENCY

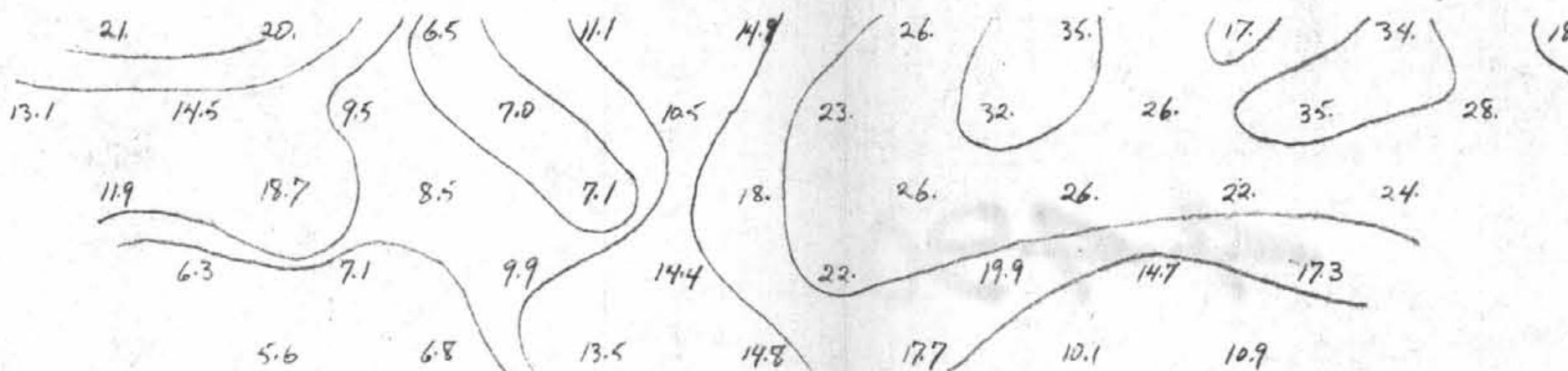
0.3 and 5 Hz

OPERATOR

D. F. Morrison

DATE

May - June 1973



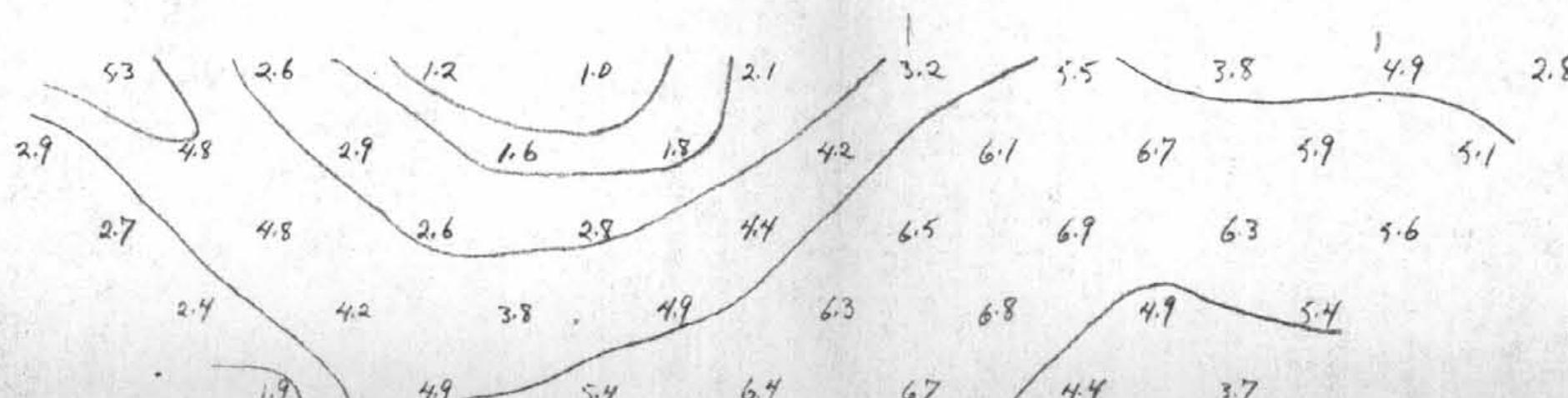
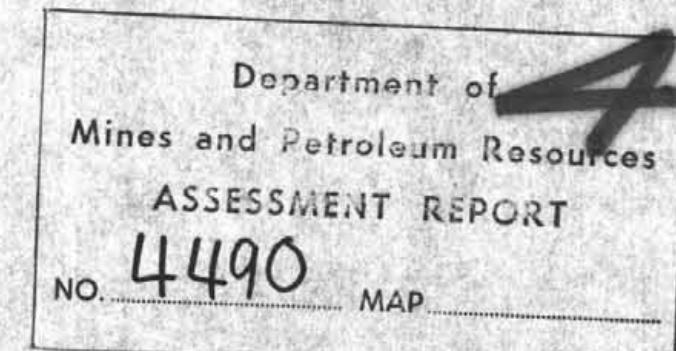
n=1

n=2

n=3 M. F.

n=4

n=5



n=1

n=2

n=3 P. F. E.

n=4

n=5

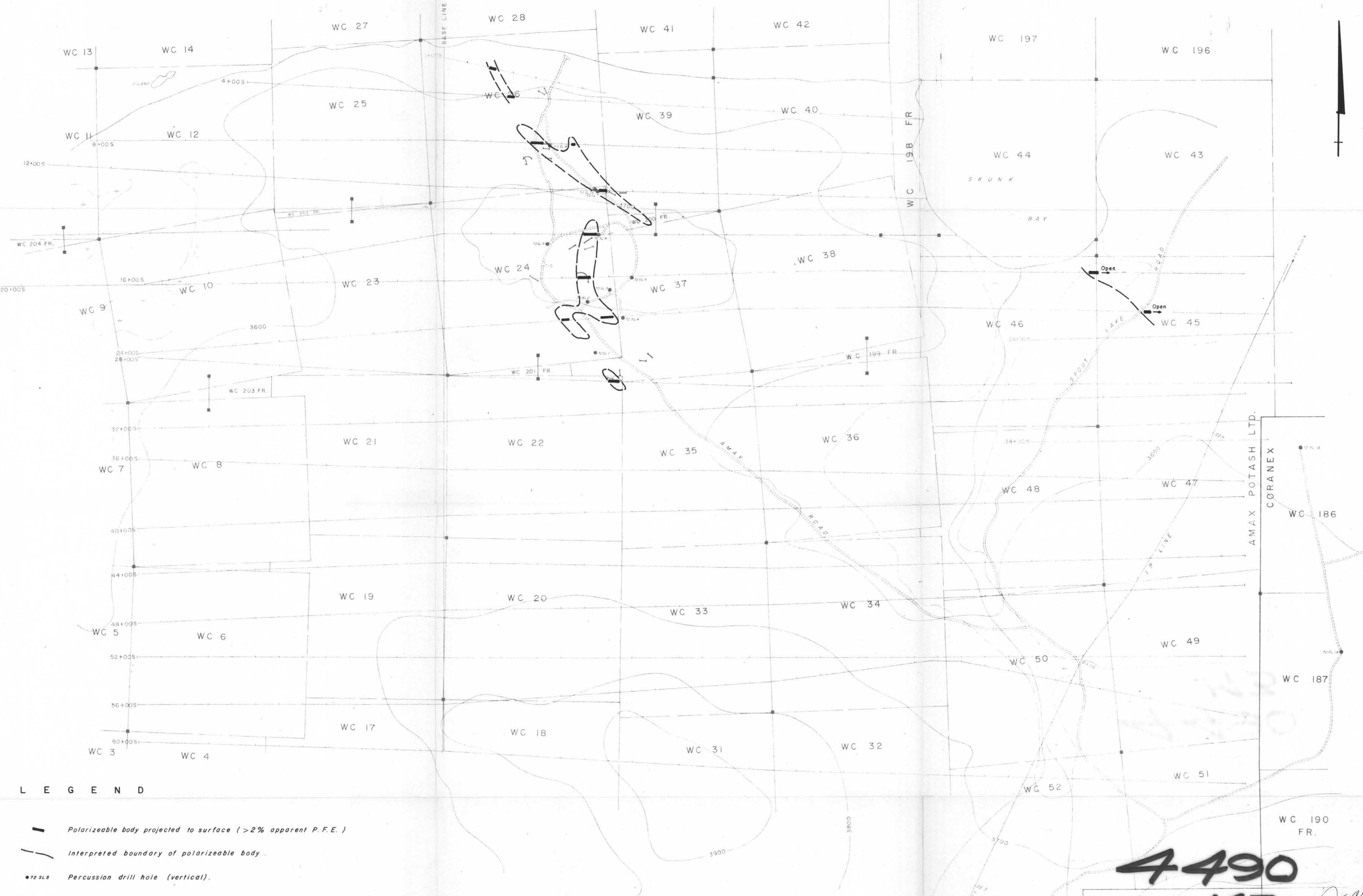
SCALE 1" = 50'

To accompany report "SPOUT LAKE COPPER PROPERTY"  
by: G. M. DePaoli and J. F. Allan.

SPOUT LAKE COPPER PROPERTY  
CLINTON AND CARIBOO MINING DIVISIONS — BRITISH COLUMBIA  
INDUCED POLARIZATION SURVEY  
LINE 24 + 00 S

APPENDIX I

S P O U T   L A K E  
(Elev. 3535')



L E G E N D

- Polarizable body projected to surface (>2% apparent P.F.E.)
- Interpretation boundary of polarizable body.
- Percussion drill hole (vertical).
- Claim post, claim location line.
- - Claim boundary.
- - - Topographic contour (contour interval 100').
- Trench.
- - Road.
- - - Swamp, swamp boundary.
- X Stream.

INSTRUMENT  
CONFIGURATION

McPhar P 660  
Dipole - Dipole    $a = 200'$   
 $a = 50'$  (Detail work)

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4490 MAP #3

AMAX POTASH LIMITED

SPOUT LAKE COPPER PROPERTY  
CARIBOO AND CLINTON MINING DIVISIONS - BRITISH COLUMBIA

INDUCED POLARIZATION PLAN

SCALE 1" = 400'

DATE REVISED	DATE DRAWN	Drawn by
	Date 26/7/73	
	N.T.S. File 92 P 14, 93 A 3	

To accompany report "SPOUT LAKE COPPER PROPERTY"  
by: G. M. De Paoli and J. F. Allan.

4490  
M3 *J. Allan*  
WC 181 WC 183

FIG. 3