

Telephone: Office 685-2914  
Res. 224-7309

R. H. SERAPHIM ENGINEERING LTD.  
GEOLOGICAL ENGINEER

4036

316 - 47TH AVENUE STREET  
VANCOUVER 2, B.C.

MAGNETIC  
and  
INDUCED POLARIZATION SURVEYS  
on  
ROLLING HILLS and MINEX CLAIMS  
near  
JACKO LAKE, KAMLOOPS M.D.

by  
R.H. SERAPHIM, Ph.D. P.Eng.  
JANUARY 2, 1973.

CLAIMS

PAM 12 to 24 incl.  
PAM 28, 29, 32, 33  
FOX 4, FOX 13  
MAP 2 Fr., WADE 3  
DAVE 1B Fr., DON 2 Fr.  
DON 5 Fr., DON 6 Fr.  
DON 7, DON 8  
DON 9 Fr., DON 10 Fr.  
MAP 3 Fr., MAP 4 Fr., MAP 5 Fr.

RECORD NUMBERS

41330 to 41342 incl.  
41346, 41347, 75885, 41351  
56184, 41943  
92948, 41625  
109972, 110691  
110694, 110695  
123078, 123079  
123080, 123400  
123127, 123229, 123401

DATES: July 24 to August 2, 1972 (initial I.P.)  
Nov. 17 to Nov. 26, 1972 (second I.P.)  
Nov. 16 to Dec. 20, 1972 (magnetics)

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <u>4036</u> MAP _____
--

## TABLE OF CONTENTS

	<u>Page</u>
SUMMARY AND CONCLUSIONS.....	1
INTRODUCTION.....	2
CLAIMS.....	3
LOCATION, ACCESS, TOPOGRAPHY.....	3
SURVEY METHOD.....	3
RESULTS.....	4

## MAPS

#1 LOCATION MAP.....	2A
#2 MAGNETIC MAP.....	Front Pocket
#3 I.P. MAPS N=1.....	Back Pocket
#4 N=2.....	Back Pocket
#5 Plan of certain mineral claims .....	
INDUCED POLARIZATION SURVEY by R.E. CHAPLIN, P.Eng.....	Appendix 1
STATEMENT OF PERSONNEL AND COSTS.....	Appendix 2

R. H. SERAPHIM ENGINEERING LIMITED  
GEOLOGICAL ENGINEERING

316 - 470 GRANVILLE STREET  
VANCOUVER 2, B.C.

### SUMMARY AND CONCLUSIONS

The control of claims near the south and east border of the old Ajax-Monte Carlo prospect near Jacko Lake was acquired in two stages. Property boundaries were determined in part by a claim survey. Induced polarization and magnetic surveys were conducted after each acquisition, and parts of these surveys are now combined into maps presented herewith.

The area providing I.P. anomaly extends over parts of claims PAM 21, 23, 28, 13, 18, MAP 2 and 4 Fractions, and WADE 3. A few outcrops and some old drill holes within the anomalous area showed that picrite underlies parts of the anomaly. A magnetic survey has been used to give more information on the extent of the picrite, which commonly contains abundant magnetite. It is assumed that areas which give high I.P. readings and low magnetic response may be underlain by the altered (bleached) rocks containing sulfides. These areas are recommended for a test with the percussion drill.

## INTRODUCTION

Recent reports on the subject claims and neighboring claims which have been filed for assessment work include:

"Geological Report and Magnetic Survey on Rolling Hills claims, Jacko Lake" April 24, 1972 - R.H. Seraphim

"Geological Report on Map 2 Fr." Nov. 3, 1972 - R.H. Seraphim

"Geological Report on Rolling Hills and Dave claims, Jacko Lake Area" Dec. 28, 1972 - R.H. Seraphim

These reports provide geological maps and descriptions which should be reviewed and correlated with the information presented herein.

The copper mineralization near the 'Buda Shaft' has been the subject of sporadic exploration for many years, but very little work other than surficial surveys has been applied to the overburden covered areas further to the north and west. The subject surveys now provide a more reliable basis for drill testing the overburdened areas suspected to contain sulfides.

The report covering the I.P. surveys by R.E. Chaplin, P.Eng., is appended.

The magnetic survey was completed at intervals, partly by R.H. Seraphim, P.Eng., and partly by D. Burns, P.Eng. The area near the Buda Shaft was surveyed in more detail and has been replotted from a 100 ft = 1 inch map onto the 500 ft = 1 inch map presented herewith. The survey to the south and west of the Buda Shaft was reported previously (April 24, 1972).



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 4036 MAP #1

I-M 4036 DC04

CLAIMS

The Rolling Hills claims were located at intervals over the past ten years, and had not been surveyed even by Brunton and tape. Most of the claims covered by the present work have now been surveyed in preliminary fashion by a B.C.L.S., and the indicated fractional claims are now staked for Minex.

LOCATION, ACCESS, TOPOGRAPHY

The claims are on rolling upland approximately eight miles southwest of Kamloops. Most of the area is open grazing land, with several small ponds and a few clumps of trees.

SURVEY METHOD

The magnetometer survey was completed with a Scintrex MF 1 magnetometer, Serial #901407. The baseline was laid out by tape and compass on an aerial photograph enlarged to 500 feet = 1 inch. The stations on cross-lines were located by pace and compass, with the positions corrected to fit the topographic features apparent on the photograph. Several base stations were used, and were rechecked at least several times daily to provide diurnal variation, for which the readings were corrected when necessary.

RESULTS

Some of the highest readings, from approximately 200 up (2000 gammas), conform to localities known to be underlain by picrite. No high readings were obtained over other rock types, therefore the likelihood is that all high magnetic readings indicate areas underlain by picrite. The danger in this assumption is that one of the most important known copper deposits in the camp, namely Afton, does give high magnetic response, at least locally, because of the associated magnetite mineralization. A second problem in interpretation is that the magnetic response from sub-outcrop is decreased in areas of deep overburden and in topographic lows (melt water channels and creek bottoms). Therefore, although low readings are obtained over the areas of alteration and mineralization on the neighboring crown-granted claims, similar low readings on the Minex-Rolling Hills claims do not necessarily indicate similar alteration and mineralization.

January 2, 1973.

  
R.H. Seraphim, Ph.D. P.Eng.

Appendix 1

MINEX DEVELOPMENT LTD. (N.P.L.),  
569 Howe Street,  
Vancouver, B.C.

INDUCED POLARIZATION SURVEY

ON THE

PAM 20, 21, 22, 23, 31, 32, and DAVE AND R.H. MINERAL CLAIMS,  
KAMLOOPS MINING DIVISION, BRITISH COLUMBIA.

Location: Near Jacko Lake and Peterson Creek, 8 miles  
southwest of Kamloops, B.C., at 50° - 120° NE.

Survey Dates: July 24th to August 2nd, 1972, inclusive,  
November 17th to November 26th, inclusive.

by

ROBERT E. CHAPLIN, P. ENG.,  
1761 Drummond Drive,  
Vancouver 8, B.C.  
Phone: 224-6634

DECEMBER, 1972.

## TABLE OF CONTENTS

	<u>Page No.</u>
INTRODUCTION.....	1
SUMMARY.....	1
LOCATION, ACCESS AND TOPOGRAPHY.....	1
SURVEY PROCEDURE.....	2
SURVEY RESULTS.....	2
CONCLUSIONS.....	5
RECOMMENDATIONS.....	5
PERSONNEL AND COST OF SURVEY.....	6
QUALIFICATIONS OF WRITER.....	7

### LIST OF ILLUSTRATIONS

Index Map, 1" : 8 miles.

N=1 PFE and Apparent Resistivity Map, 1" : 500'

N=2 PFE and Apparent Resistivity Map, 1" : 500'

-----

### INTRODUCTION

An Induced Polarization survey was performed on the "Minex" property for the purpose of locating a copper deposit of economic size in a geologically favourable contact zone between the Nicola volcanic rocks and intrusives of the Iron Mask batholith. A brief summary of previous work in this area is described by R.H. Seraphim, P. Eng., in his report to "Minex" dated April 24th, 1972.

A pole-dipole array was selected on a 300-foot spread to the first and second separations on lines trending NE, 400 feet apart. Eighteen (18) line miles of survey were completed, in two periods.

### SUMMARY

Four induced polarization anomalies were detected using a 300-foot pole-dipole array to the first and second separations. The anomalies are probably caused by bedrock effects.

### LOCATION, ACCESS AND TOPOGRAPHY

The claims are in rolling upland ranching country, eight miles southwest of Kamloops. The area is open grazing land drained by Peterson Creek. Very little outcrop occurs on the area surveyed.

SURVEY PROCEDURE

A Geoscience Induced Polarization unit, powered by a 2.75 kw generator, operated on a frequency range of 3.0 - 0.1 cycles per second. All percent frequency effects (PFE's) were obtained by deducting transmitter deviations and daily transmitter-receiver calibrations from the receiver percent deviations. Apparent resistivities are calculated in ohm-meters.

A three hundred foot pole-dipole array was used to the first and second separations on NE-trending lines, approximately 400 feet apart.

SURVEY RESULTS

Eighteen line miles of survey were completed. Percent frequency effects (PFE's) varied between 0.6 and 8.7, with background values up to 3.0. Apparent resistivities varied between 1400 to 7.0 ohm-meters.

Four areas of PFE's above background were located; the results of which are tabulated:

<u>Anomaly Location</u>	<u>Intensity (3.0 is background)</u>	<u>Trend</u>	<u>Average Apparent Resistivity (and depth below surface)</u>
<u>I</u>			
<u>N=1</u>			
Line H 10N-32N	6.7	NE for about 2,000' by possibly 600' - open to SW	Average of approx. 300 ohm-meters $(\approx 50')$
Line G 24N-39N			
<u>N=2</u>			
Line H 14N-33N	6.3	NE 1800' x 1100' - open to west	250 ohm-meters $(\approx 50')$
Line G 22N-35N			
Line B 29N-34N			

<u>Anomaly Location</u>	<u>Intensity (3.0 is background)</u>	<u>Trend</u>	<u>Average Apparent Resistivity (and depth below surface)</u>
<u>II</u>			
<u>N=1</u>			
Line D 34N-38N	6.8	Wedge-shaped 3000' x 1200' open and widening to east.	160 ohm-meters (> 100')
Line E 33N-38N			
Line F 24N-35N			
Line I 27N-35N			
Line K 30N-36N			
Line L 26N-40N			
Line M 20N-42N			
<u>N=2</u>			
Line D 36N-40N			
Line E 31N-40N		Wedge-shaped north- easterly 2500' x 1300' widening and open to southeast towards	
Line F 25N-37N	6.8	Morrison's house.	150 ohm-meters ( 50'-75' )
Line I 27N-37N			
Line K 27N-46N			
Line L 21N-45N			
Line M 20?-47N			

<u>Anomaly Location</u>	<u>Intensity (3.0 is background)</u>	<u>Trend</u>	<u>Average Apparent Resistivity (and Depth below surface)</u>
<u>III</u>			
<u>N=1</u>			
Line A 41N-44N		(a) Three 1000'x500' zones in a series of N-N-W trends linking anomalies <u>II</u> and <u>III</u>	100 ohm-meters ( 50' )
Line C at 43N	8.7		
Line Z			
Line B to 58N			
Line C to 57N			
Line D 50N-65N		(b) W-N-W - low intensity PFE lobe	100 ohm-meters ( 50' )
Line E 56N-67N	4.3	2500' x 800' flanking (a) portion of anomaly <u>III</u> .	
Line F 62N-67N			
Line I 66N-70N			
<u>N=2</u>			
Line B 44N-61N	(a) 7.3	(a) NW 2000' x 1500'	175 Ohm-meters ( 50' )
Line C 46N-63N			
Line D 31N-67N	(b) 4.5	(b) Westerly 2500'x800'	
Line E 43-69N			
Line F 56N-63N			
Line I 62N-71N			
<u>IV</u>			
<u>N=1</u>			
Not anomalous	Background	N/A	85 ohm-meters
<u>N=2</u>			
Line B 18N-21N	4.5	Westerly subcircular 1300' x 900'	175 ohm-meters, but variations between 18 and 664 ( $\approx$ 100')
Line A 15N-22N			
Line C 16N-22N			

### CONCLUSIONS

The apparent resistivity trend is west-north-west, probably due to the regional main geologic trend - this trend is interrupted on the N=1 separation by an apparent resistivity low that coincides with the location of Peterson Creek. The N=2 separation shows a similar apparent resistivity low pattern, but as a series of subcircular lows approximating the trend of Peterson Creek.

The resistivity lows imply that overburden cover is relatively deep (50' - 100'), in a channel confined to Peterson Creek. Elsewhere in the survey grid, the apparent resistivity probably reflects shallow overburden, except at the NE corner from Lines D to I, and from 16N to 23N on Lines E, F and J.

The anomalous PFE's are associated with apparent resistivity averages between 175 and 85 ohm-meters, indicating PFE's due to bedrock response.

Bedrock PFE zones are probably caused by a combination of disseminated magnetite and disseminated sulphides. The westerly part of II, III (b) and IV are more likely to contain sulphides.

### RECOMMENDATIONS

1. Ground magnetics would be useful to evaluate the sulphide and/or disseminated magnetite possibilities of each I.P. anomaly.
2. Percussion drilling is recommended to determine the cause of the four PFE anomalies. The overburden is probably too deep for surface trenching by bulldozer.

PERSONNEL AND COST OF SURVEY

July 24th to August 2nd, 1972:

L. Altman - Party Chief	9 days @ \$75/day	\$ 675.00
R. Jelfs - Assistant	9 days @ \$30/day	270.00
A. Sandford - "	9 days @ \$30/day	270.00
M. Smith - "	9 days @ \$30/day	270.00
A. Smith - "	9 days @ \$30/day	270.00
R. Chaplin - P. Eng.	4 days @ \$100/day	400.00
<b>Equipment Rental</b>	<b>9 days @ \$60/day</b>	<b>540.00</b>
<b>Transportation &amp; Living Costs</b>		<b>400.00</b>
<b>Map Printing, Report Typing &amp; Photocopying</b>		<b>20.00</b>
	<b>SUB-TOTAL.....</b>	<b><u>\$3,115.00</u></b>

November 17th to November 26th, 1972:

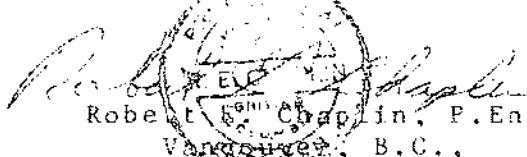
R. Chaplin - P. Eng. & Party Chief	10 days @ \$100/day	\$1,000.00
R. Pearson - Assistant	10 days @ \$30/day	300.00
M. Pearson - "	10 days @ \$30/day	300.00
L. Jones - "	10 days @ \$30/day	300.00
B. Jackson - "	10 days @ \$30/day	300.00
<b>Equipment Rental</b>	<b>10 days @ \$60/day</b>	<b>600.00</b>
<b>Transportation &amp; Living Costs</b>		<b>400.00</b>
<b>Map Printing, Report Typing, Preparation, etc.</b>		<b>120.00</b>
	<b>SUB-TOTAL.....</b>	<b><u>\$3,320.00</u></b>
	<b>GRAND TOTAL.....</b>	<b><u>\$6,435.00</u></b>

QUALIFICATIONS OF WRITER

I, Robert E. Chaplin, Professional Engineer, with office and residence at 1761 Drummond Drive, Vancouver 8, British Columbia, hereby certify that:

1. I am a registered Professional Engineer of the Province of British Columbia.
2. I am a graduate Geological Engineer of the University of British Columbia, 1959.
3. I have owned and operated induced polarization equipment for seven years.
4. I have over 20 years' experience in mineral exploration.

Respectfully submitted,

  
Robert E. Chaplin, P.Eng.,  
Vancouver, B.C.,  
December, 1972.

STATEMENT OF PERSONNEL AND COSTSMagnetometer

D. Burns, P.Eng. - Dec. 7 to 20 inclusive 14 days @ \$65.00	\$ 910.00
R.H. Seraphim, P.Eng. - Nov. 17, 21 to 24 incl., & Dec. 1, 8, 18, 19, & 27 10 days @\$100.00	1,000.00
D. Tully - Dec. 8, Dec. 9 2 days @ \$100.00	<hr/> 200.00
	\$2,110.00
Equipment Rental, Living Expenses, Transportation	<hr/> 495.00
Total re magnetic survey	\$2,605.00
Induced Polarization per Page 6, Appendix I	<hr/> 6,435.00
Total	<hr/> \$9,040.00

Declared before me at the City of Vancouver, in the Province of British Columbia, on the 3rd day of Jan 1973, A.D.

R.H. Seraphim, Ph.D. P.Eng.

Jill Tully  
Sub-mining Recorder

as Affidavits within British Columbia or  
the Province of British Columbia.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4036 MAP #5

MINEX DEVELOPMENT LTD. (NPL)

PLAN OF CERTAIN MINERAL CLAIMS IN  
JACKO LAKE - PETERSON CREEK AREA

KAMLOOPS MINING DISTRICT

MAP 92 I/9

Scale 1"=1000'

Bearings are astronomic and are derived from L 4717

\* Denotes standard station post

\*\* Denotes Slope rod post

• Denotes Traverse hub

○ Denotes Claim post

□ Denotes Old Post

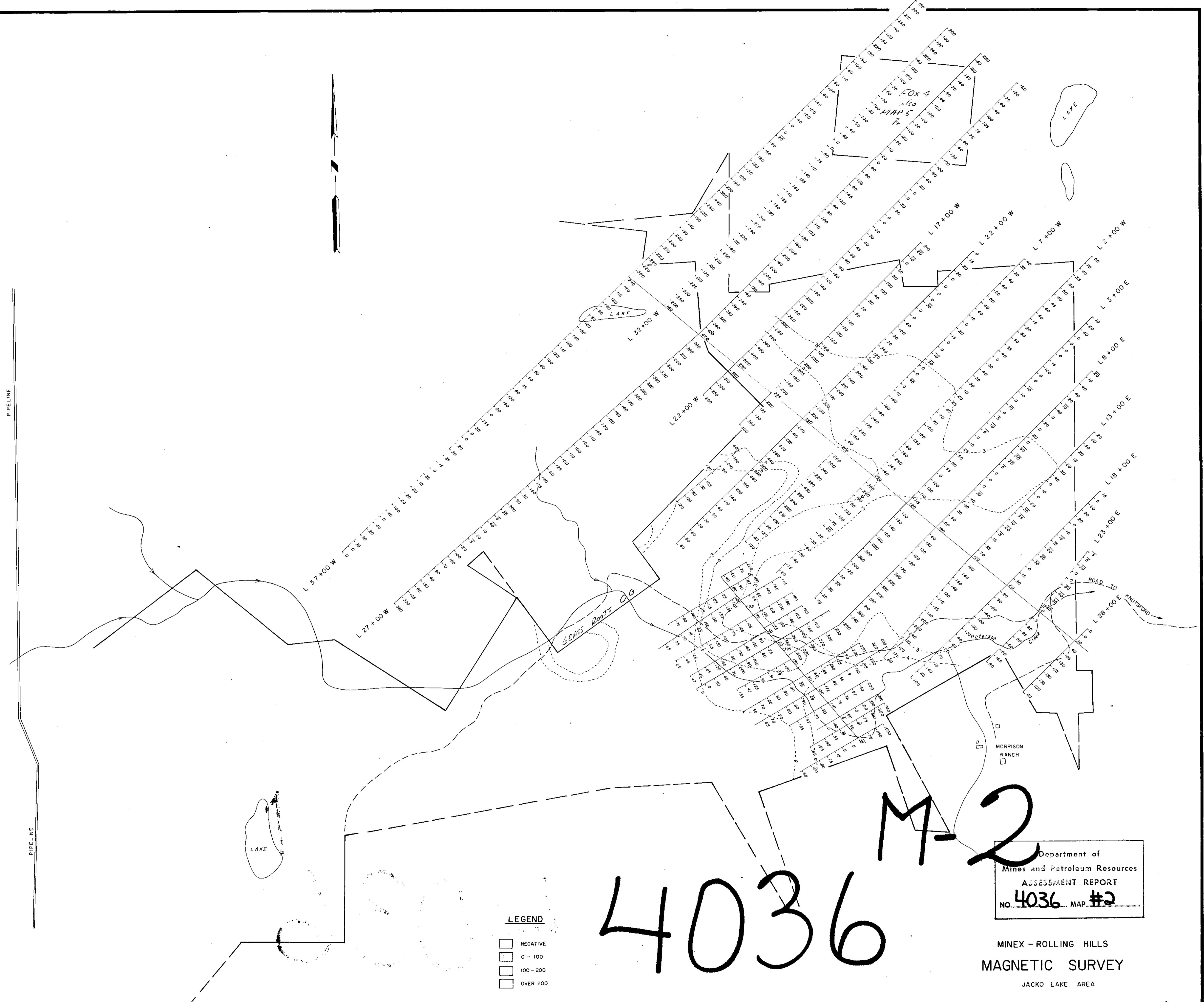
LL Denotes Location Line

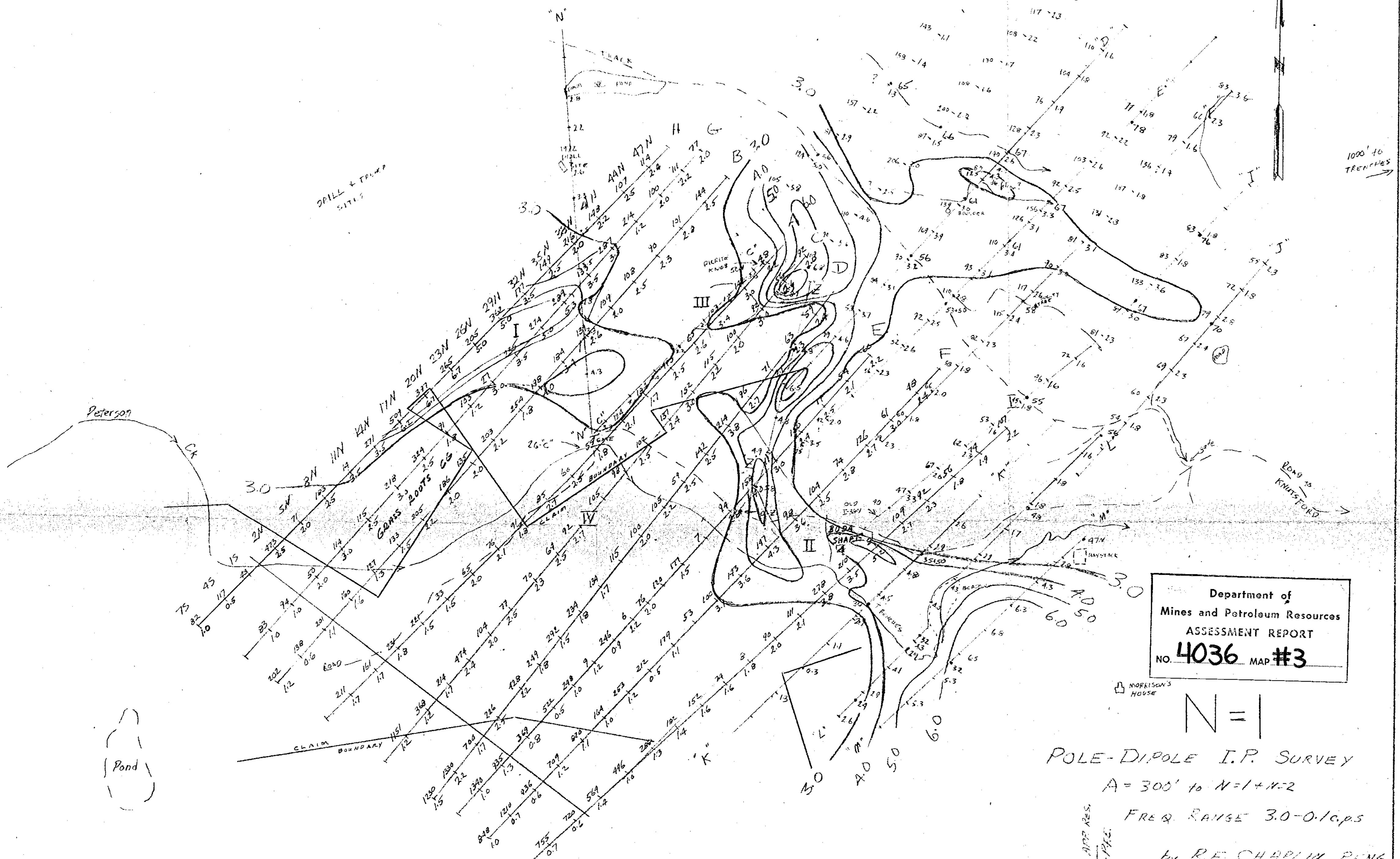
XXXX Denotes fence

3. Note that driven in the ground, in a tree or stump has opposite leg attached to same by a nail. All colors the head of the nail indicates the position of the station.

PAM 8 = 0  
PAM 9 = 0  
PAM 10 = 0  
PAM 11 = 0  
PAM 12 = 0  
PAM 13 = 0  
PAM 14 = 0  
PAM 15 = 0  
PAM 16 = 0  
PAM 17 = 0  
PAM 18 = 0  
PAM 19 = 0  
PAM 20 = 0  
PAM 21 = 0  
PAM 22 = 0  
PAM 23 = 0  
PAM 24 = 0  
PAM 25 = 0  
PAM 26 = 0  
PAM 27 = 0  
PAM 28 = 0  
PAM 29 = 0  
PAM 30 = 0  
PAM 31 = 0  
PAM 32 = 0  
PAM 33 = 0  
PAM 34 = 0  
PAM 35 = 0  
MAP 1 = 0  
MAP 2 = 0  
MAP 3 = 0  
MAP 4 = 0  
MAP 5 = 0  
MAP 6 = 0  
MAP 7 = 0  
MAP 8 = 0  
MAP 9 = 0  
MAP 10 = 0  
MAP 11 = 0  
MAP 12 = 0  
MAP 13 = 0  
MAP 14 = 0  
MAP 15 = 0  
MAP 16 = 0  
MAP 17 = 0  
MAP 18 = 0  
MAP 19 = 0  
MAP 20 = 0  
MAP 21 = 0  
MAP 22 = 0  
MAP 23 = 0  
MAP 24 = 0  
MAP 25 = 0  
MAP 26 = 0  
MAP 27 = 0  
MAP 28 = 0  
MAP 29 = 0  
MAP 30 = 0  
MAP 31 = 0  
MAP 32 = 0  
MAP 33 = 0  
FOX 1 = 0  
FOX 2 = 0  
FOX 3 = 0  
FOX 4 = 0  
FOX 5 = 0  
FOX 6 = 0  
FOX 7 = 0  
FOX 8 = 0  
FOX 9 = 0  
FOX 10 = 0  
FOX 11 = 0  
FOX 12 = 0  
FOX 13 = 0  
FOX 14 = 0  
FOX 15 = 0  
FOX 16 = 0  
FOX 17 = 0  
FOX 18 = 0  
FOX 19 = 0  
FOX 20 = 0  
FOX 21 = 0  
FOX 22 = 0  
FOX 23 = 0  
FOX 24 = 0  
FOX 25 = 0  
FOX 26 = 0  
FOX 27 = 0  
FOX 28 = 0  
FOX 29 = 0  
FOX 30 = 0  
MAP 3 FR = 0  
MAP 4 FR = 0  
MAP 5 FR = 0  
MAP 6 FR = 0  
MAP 7 FR = 0  
MAP 8 FR = 0  
MAP 9 FR = 0  
MAP 10 FR = 0  
MAP 11 FR = 0  
MAP 12 FR = 0  
MAP 13 FR = 0  
MAP 14 FR = 0  
MAP 15 FR = 0  
MAP 16 FR = 0  
MAP 17 FR = 0  
MAP 18 FR = 0  
MAP 19 FR = 0  
MAP 20 FR = 0  
MAP 21 FR = 0  
MAP 22 FR = 0  
MAP 23 FR = 0  
MAP 24 FR = 0  
MAP 25 FR = 0  
MAP 26 FR = 0  
MAP 27 FR = 0  
MAP 28 FR = 0  
MAP 29 FR = 0  
MAP 30 FR = 0  
MAP 31 FR = 0  
MAP 32 FR = 0  
MAP 33 FR = 0  
AL 1 = 0  
AL 2 = 0  
AL 3 = 0  
AL 4 = 0  
AL 5 = 0  
AL 6 = 0  
AL 7 = 0  
AL 8 = 0  
AL 9 = 0  
AL 10 = 0  
AL 11 = 0  
AL 12 = 0  
AL 13 = 0  
AL 14 = 0  
AL 15 = 0  
AL 16 = 0  
AL 17 = 0  
AL 18 = 0  
AL 19 = 0  
AL 20 = 0  
AL 21 = 0  
AL 22 = 0  
AL 23 = 0  
AL 24 = 0  
AL 25 = 0  
AL 26 = 0  
AL 27 = 0  
AL 28 = 0  
AL 29 = 0  
AL 30 = 0  
AL 31 = 0  
AL 32 = 0  
AL 33 = 0  
AL 34 = 0  
AL 35 = 0  
AL 36 = 0  
AL 37 = 0  
AL 38 = 0  
AL 39 = 0  
AL 40 = 0  
AL 41 = 0  
AL 42 = 0  
AL 43 = 0  
AL 44 = 0  
AL 45 = 0  
AL 46 = 0  
AL 47 = 0  
AL 48 = 0  
AL 49 = 0  
AL 50 = 0  
AL 51 = 0  
AL 52 = 0  
AL 53 = 0  
AL 54 = 0  
AL 55 = 0  
AL 56 = 0  
AL 57 = 0  
AL 58 = 0  
AL 59 = 0  
AL 60 = 0  
AL 61 = 0  
AL 62 = 0  
AL 63 = 0  
AL 64 = 0  
AL 65 = 0  
AL 66 = 0  
AL 67 = 0  
AL 68 = 0  
AL 69 = 0  
AL 70 = 0  
AL 71 = 0  
AL 72 = 0  
AL 73 = 0  
AL 74 = 0  
AL 75 = 0  
AL 76 = 0  
AL 77 = 0  
AL 78 = 0  
AL 79 = 0  
AL 80 = 0  
AL 81 = 0  
AL 82 = 0  
AL 83 = 0  
AL 84 = 0  
AL 85 = 0  
AL 86 = 0  
AL 87 = 0  
AL 88 = 0  
AL 89 = 0  
AL 90 = 0  
AL 91 = 0  
AL 92 = 0  
AL 93 = 0  
AL 94 = 0  
AL 95 = 0  
AL 96 = 0  
AL 97 = 0  
AL 98 = 0  
AL 99 = 0  
AL 100 = 0  
AL 101 = 0  
AL 102 = 0  
AL 103 = 0  
AL 104 = 0  
AL 105 = 0  
AL 106 = 0  
AL 107 = 0  
AL 108 = 0  
AL 109 = 0  
AL 110 = 0  
AL 111 = 0  
AL 112 = 0  
AL 113 = 0  
AL 114 = 0  
AL 115 = 0  
AL 116 = 0  
AL 117 = 0  
AL 118 = 0  
AL 119 = 0  
AL 120 = 0  
AL 121 = 0  
AL 122 = 0  
AL 123 = 0  
AL 124 = 0  
AL 125 = 0  
AL 126 = 0  
AL 127 = 0  
AL 128 = 0  
AL 129 = 0  
AL 130 = 0  
AL 131 = 0  
AL 132 = 0  
AL 133 = 0  
AL 134 = 0  
AL 135 = 0  
AL 136 = 0  
AL 137 = 0  
AL 138 = 0  
AL 139 = 0  
AL 140 = 0  
AL 141 = 0  
AL 142 = 0  
AL 143 = 0  
AL 144 = 0  
AL 145 = 0  
AL 146 = 0  
AL 147 = 0  
AL 148 = 0  
AL 149 = 0  
AL 150 = 0  
AL 151 = 0  
AL 152 = 0  
AL 153 = 0  
AL 154 = 0  
AL 155 = 0  
AL 156 = 0  
AL 157 = 0  
AL 158 = 0  
AL 159 = 0  
AL 160 = 0  
AL 161 = 0  
AL 162 = 0  
AL 163 = 0  
AL 164 = 0  
AL 165 = 0  
AL 166 = 0  
AL 167 = 0  
AL 168 = 0  
AL 169 = 0  
AL 170 = 0  
AL 171 = 0  
AL 172 = 0  
AL 173 = 0  
AL 174 = 0  
AL 175 = 0  
AL 176 = 0  
AL 177 = 0  
AL 178 = 0  
AL 179 = 0  
AL 180 = 0  
AL 181 = 0  
AL 182 = 0  
AL 183 = 0  
AL 184 = 0  
AL 185 = 0  
AL 186 = 0  
AL 187 = 0  
AL 188 = 0  
AL 189 = 0  
AL 190 = 0  
AL 191 = 0  
AL 192 = 0  
AL 193 = 0  
AL 194 = 0  
AL 195 = 0  
AL 196 = 0  
AL 197 = 0  
AL 198 = 0  
AL 199 = 0  
AL 200 = 0  
AL 201 = 0  
AL 202 = 0  
AL 203 = 0  
AL 204 = 0  
AL 205 = 0  
AL 206 = 0  
AL 207 = 0  
AL 208 = 0  
AL 209 = 0  
AL 210 = 0  
AL 211 = 0  
AL 212 = 0  
AL 213 = 0  
AL 214 = 0  
AL 215 = 0  
AL 216 = 0  
AL 217 = 0  
AL 218 = 0  
AL 219 = 0  
AL 220 = 0  
AL 221 = 0  
AL 222 = 0  
AL 223 = 0  
AL 224 = 0  
AL 225 = 0  
AL 226 = 0  
AL 227 = 0  
AL 228 = 0  
AL 229 = 0  
AL 230 = 0  
AL 231 = 0  
AL 232 = 0  
AL 233 = 0  
AL 234 = 0  
AL 235 = 0  
AL 236 = 0  
AL 237 = 0  
AL 238 = 0  
AL 239 = 0  
AL 240 = 0  
AL 241 = 0  
AL 242 = 0  
AL 243 = 0  
AL 244 = 0  
AL 245 = 0  
AL 246 = 0  
AL 247 = 0  
AL 248 = 0  
AL 249 = 0  
AL 250 = 0  
AL 251 = 0  
AL 252 = 0  
AL 253 = 0  
AL 254 = 0  
AL 255 = 0  
AL 256 = 0  
AL 257 = 0  
AL 258 = 0  
AL 259 = 0  
AL 260 = 0  
AL 261 = 0  
AL 262 = 0  
AL 263 = 0  
AL 264 = 0  
AL 265 = 0  
AL 266 = 0  
AL 267 = 0  
AL 268 = 0  
AL 269 = 0  
AL 270 = 0  
AL 271 = 0  
AL 272 = 0  
AL 273 = 0  
AL 274 = 0  
AL 275 = 0  
AL 276 = 0  
AL 277 = 0  
AL 278 = 0  
AL 279 = 0  
AL 280 = 0  
AL 281 = 0  
AL 282 = 0  
AL 283 = 0  
AL 284 = 0  
AL 285 = 0  
AL 286 = 0  
AL 287 = 0  
AL 288 = 0  
AL 289 = 0  
AL 290 = 0  
AL 291 = 0  
AL 292 = 0  
AL 293 = 0  
AL 294 = 0  
AL 295 = 0  
AL 296 = 0  
AL 297 = 0  
AL 298 = 0  
AL 299 = 0  
AL 300 = 0  
AL 301 = 0  
AL 302 = 0  
AL 303 = 0  
AL 304 = 0  
AL 305 = 0  
AL 306 = 0  
AL 307 = 0  
AL 308 = 0  
AL 309 = 0  
AL 310 = 0  
AL 311 = 0  
AL 312 = 0  
AL 313 = 0  
AL 314 = 0  
AL 315 = 0  
AL 316 = 0  
AL 317 = 0  
AL 318 = 0  
AL 319 = 0  
AL 320 = 0  
AL 321 = 0  
AL 322 = 0  
AL 323 = 0  
AL 324 = 0  
AL 325 = 0  
AL 326 = 0  
AL 327 = 0  
AL 328 = 0  
AL 329 = 0  
AL 330 = 0  
AL 331 = 0  
AL 332 = 0  
AL 333 = 0  
AL 334 = 0  
AL 335 = 0  
AL 336 = 0  
AL 337 = 0  
AL 338 = 0  
AL 339 = 0  
AL 340 = 0  
AL 341 = 0  
AL 342 = 0  
AL 343 = 0  
AL 344 = 0  
AL 345 = 0  
AL 346 = 0  
AL 347 = 0  
AL 348 = 0  
AL 349 = 0  
AL 350 = 0  
AL 351 = 0  
AL 352 = 0  
AL 353 = 0  
AL 354 = 0  
AL 355 = 0  
AL 356 = 0  
AL 357 = 0  
AL 358 = 0  
AL 359 = 0  
AL 360 = 0  
AL 361 = 0  
AL 362 = 0  
AL 363 = 0  
AL 364 = 0  
AL 365 = 0  
AL 366 = 0  
AL 367 = 0  
AL 368 = 0  
AL 369 = 0  
AL 370 = 0  
AL 371 = 0  
AL 372 = 0  
AL 373 = 0  
AL 374 = 0  
AL 375 = 0  
AL 376 = 0  
AL 377 = 0  
AL 378 = 0  
AL 379 = 0  
AL 380 = 0  
AL 381 = 0  
AL 382 = 0  
AL 383 = 0  
AL 384 = 0  
AL 385 = 0  
AL 386 = 0  
AL 387 = 0  
AL 388 = 0  
AL 389 = 0  
AL 390 = 0  
AL 391 = 0  
AL 392 = 0  
AL 393 = 0  
AL 394 = 0  
AL 395 = 0  
AL 396 = 0  
AL 397 = 0  
AL 398 = 0  
AL 399 = 0  
AL 400 = 0  
AL 401 = 0  
AL 402 = 0  
AL 403 = 0  
AL 404 = 0  
AL 405 = 0  
AL 406 = 0  
AL 407 = 0  
AL 408 = 0  
AL 409 = 0  
AL 410 = 0  
AL 411 = 0  
AL 412 = 0  
AL 413 = 0  
AL 414 = 0  
AL 415 = 0  
AL 416 = 0  
AL 417 = 0  
AL 418 = 0  
AL 419 = 0  
AL 420 = 0  
AL 421 = 0  
AL 422 = 0  
AL 423 = 0  
AL 424 = 0  
AL 425 = 0  
AL 426 = 0  
AL 427 = 0  
AL 428 = 0  
AL 429 = 0  
AL 430 = 0  
AL 431 = 0  
AL 432 = 0  
AL 433 = 0  
AL 434 = 0  
AL 435 = 0  
AL 436 = 0  
AL 437 = 0  
AL 438 = 0  
AL 439 = 0  
AL 440 = 0  
AL 441 = 0  
AL 442 = 0  
AL 443 = 0  
AL 444 = 0  
AL 445 = 0  
AL 446 = 0  
AL 447 = 0  
AL 448 = 0  
AL 449 = 0  
AL 450 = 0  
AL 451 = 0  
AL 452 = 0  
AL 453 = 0  
AL 454 = 0  
AL 455 = 0  
AL 456 = 0  
AL 457 = 0  
AL 458 = 0  
AL 459 = 0  
AL 460 = 0  
AL 461 = 0  
AL 462 = 0  
AL 463 = 0  
AL 464 = 0  
AL 465 = 0  
AL 466 = 0  
AL 467 = 0  
AL 468 = 0  
AL 469 = 0  
AL 470 = 0  
AL 471 = 0  
AL 472 = 0  
AL 473 = 0  
AL 474 = 0  
AL 475 = 0  
AL 476 = 0  
AL 477 = 0  
AL 478 = 0  
AL 479 = 0  
AL 480 = 0  
AL 481 = 0  
AL 482 = 0  
AL 483 = 0  
AL 484 = 0  
AL 485 = 0  
AL 486 = 0  
AL 487 = 0  
AL 488 = 0  
AL 489 = 0  
AL 490 = 0  
AL 491 = 0  
AL 492 = 0  
AL 493 = 0  
AL 494 = 0  
AL 495 = 0  
AL 496 = 0  
AL 497 = 0  
AL 498 = 0  
AL 499 = 0  
AL 500 = 0  
AL 501 = 0  
AL 502 = 0  
AL 503 = 0  
AL 504 = 0  
AL 505 = 0  
AL 506 = 0  
AL 507 = 0  
AL 508 = 0  
AL 509 = 0  
AL 510 = 0  
AL 511 = 0  
AL 512 = 0  
AL 513 = 0  
AL 514 = 0  
AL 515 = 0  
AL 516 = 0  
AL 517 = 0  
AL 518 = 0  
AL 519 = 0  
AL 520 = 0  
AL 521 = 0  
AL 522 = 0  
AL 523 = 0  
AL 524 = 0  
AL 525 = 0  
AL 526 = 0  
AL 527 = 0  
AL 528 = 0  
AL 529 = 0  
AL 530 = 0  
AL 531 = 0  
AL 532 = 0  
AL 533 = 0  
AL 534 = 0  
AL 535 = 0  
AL 536 = 0  
AL 537 = 0  
AL 538 = 0  
AL 539 = 0  
AL 540 = 0  
AL 541 = 0  
AL 542 = 0  
AL 543 = 0  
AL 544 = 0  
AL 545 = 0  
AL 546 = 0  
AL 547 = 0  
AL 548 = 0  
AL 549 = 0  
AL 550 = 0  
AL 551 = 0  
AL 552 = 0  
AL 553 = 0  
AL 554 = 0  
AL 555 = 0  
AL 556 = 0  
AL 557 = 0  
AL 558 = 0  
AL 559 = 0  
AL 560 = 0  
AL 561 = 0  
AL 562 = 0  
AL 563 = 0  
AL 564 = 0  
AL 565 = 0  
AL 566 = 0  
AL 567 = 0  
AL 568 = 0  
AL 569 = 0  
AL 570 = 0  
AL 571 = 0  
AL 572 = 0  
AL 573 = 0  
AL 574 = 0  
AL 575 = 0  
AL 576 = 0  
AL 577 = 0  
AL 578 = 0  
AL 579 = 0  
AL 580 = 0  
AL 581 = 0  
AL 582 = 0  
AL 583 = 0  
AL 584 = 0  
AL 585 = 0  
AL 586 = 0  
AL 587 = 0  
AL 588 = 0  
AL 589 = 0  
AL 590 = 0  
AL 591 = 0  
AL 592 = 0  
AL 593 = 0  
AL 594 = 0  
AL 595 = 0  
AL 596 = 0  
AL 597 = 0  
AL 598 = 0  
AL 599 = 0  
AL 600 = 0  
AL 601 = 0  
AL 602 = 0  
AL 603 = 0  
AL 604 = 0  
AL 605 = 0  
AL 606 = 0  
AL 607 = 0  
AL 608 = 0  
AL 609 = 0

Pipeline  
Pipeline





POLE-DIPOLE I.P. SURVEY

$$A = 300' \text{ to } N = 1 + N - 2$$

FREQ. RANGE 3.0-0.1 cps

by R.E. Chaplin, P.Eng.

FIG. 1

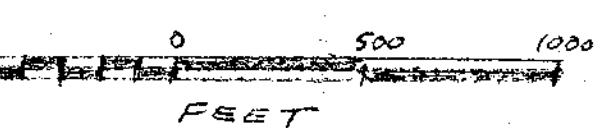
for

MINEX DEVELOPMENT LTD.

DAVE & R.H. CLAIMS

R.E. Chaplin, P.Eng. Aug, 1972

JACKO LAKE AREA, KAMLOOPS MINING DIVISION, B.C.

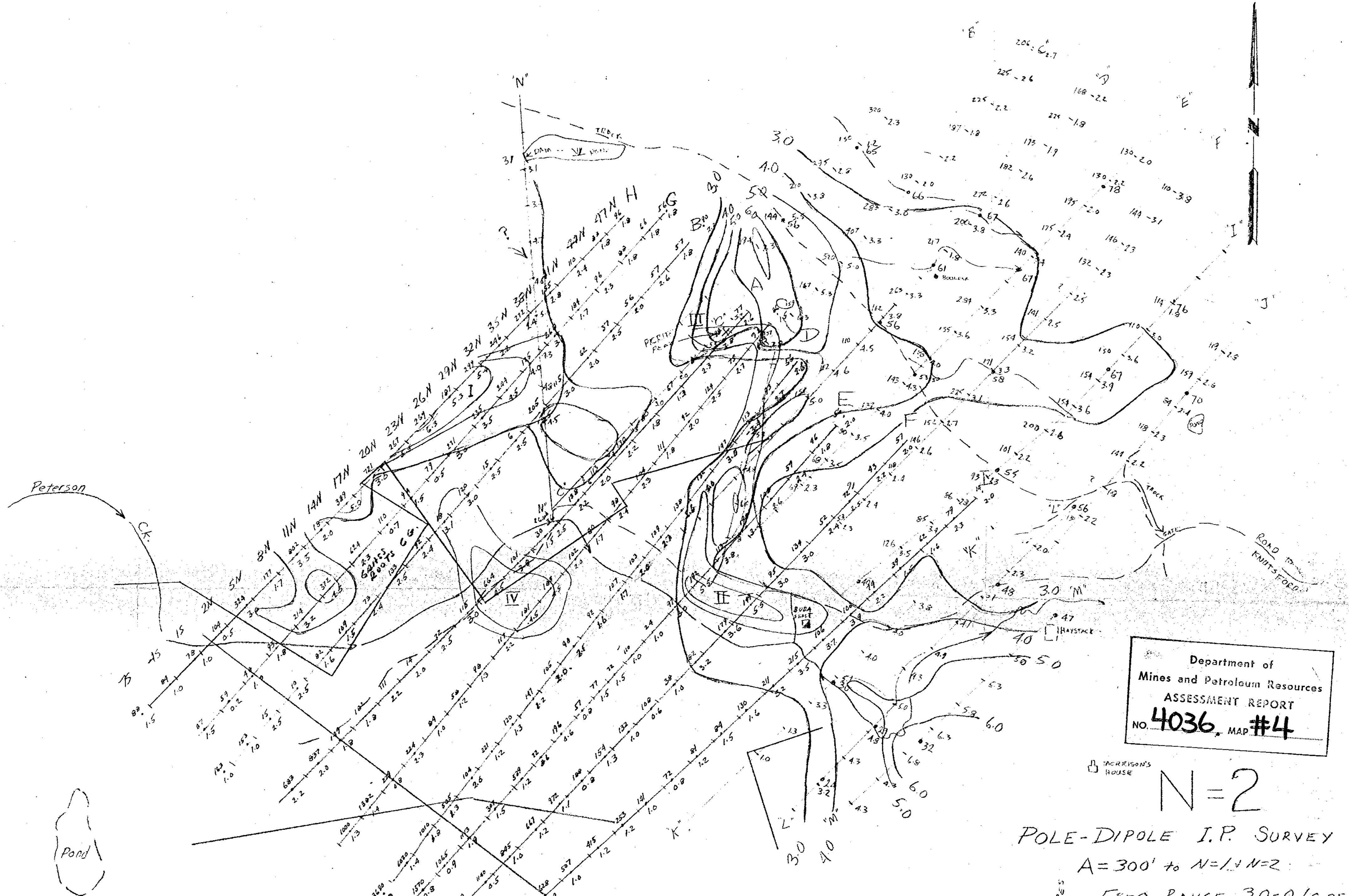


REC

4036

CIM M-3

To accompany report on  
Magnetism and Induced Polarization  
Surveys, Rolling Hills and Mine Claims  
Jacko Lake, Kamloops M.D. AUG, 1972  
dated Survey 3/1973 by R.H. Chaplin NOV, 1972. REVISED - REC



N = 2

POLE-DIPOLE I.P. SURVEY

A = 300' to N = 1 + N = 2  
FREQ. RANGE 3.0-0 CPS

by R.E. CHAPLIN, P.ENG.

FIG. 2

MINEX DEVELOPMENT LTD.

DAVE & R.H. CLAIMS

R.E. Chaplin, P.Eng. Aug 1972

JACKO LAKE AREA, RAMROPS MINING DIVISION, B.C.

To accompany report on  
Induced Polarization Surveys,  
Rolling Hills and other claims  
Jacko Lake, Kamloops M.D.  
dated January 3, 1973 by R.E. Chaplin

AUG, 1972

500 0 500 1000  
FEET

REC

M-4