

COMINCO LTD.

EXPLORATION
NTS: 82-F-6

WESTERN DISTRICT

GEOPHYSICAL REPORT

ON

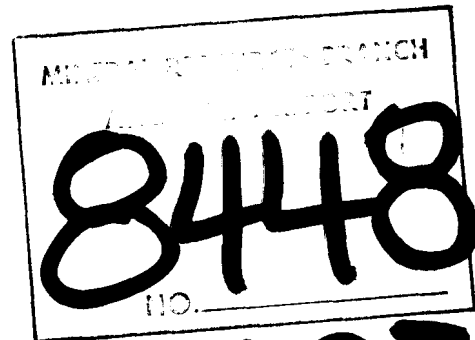
INDUCED POLARIZATION AND MAGNETICS SURVEYS

B O B B I G R O U P

Salmo Area, Nelson Mining Division, B.C.

LATITUDE: 49°17'N

LONGITUDE: 117°13'W



**PART
1 of 2**

Work performed: August 20-28, 1980

On claims: Mary 1, Bobbi 1-3,5, KIM 1-6

OWNER: ASAMARA OIL CORP.
COMINCO LTD

OCTOBER 15, 1980

ALAN SCOTT

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* * * * *

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* * * * *

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* * * * *

COMINCO LTD.

EXPLORATION
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WESTERN DISTRICT
15 October 1980

GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION AND MAGNETICS SURVEYS

B O B B I G R O U P

Salmo Area, Nelson Mining Division, B.C.

INTRODUCTION

During the period August 20-28, 1980, a Cominco geophysical crew completed 8.8 line kilometers of multiseparation time domain induced polarization survey and total field magnetics survey over portions of the BOBBI property.

The BOBBI property is located on the west side of the Salmo River valley, 10 kilometers north of Salmo, B.C. Plate 188-80-1 shows the general location of the property and plate 2 the location of the survey grid in relation to the claims.

The exploration target on the BOBBI property is the porphyry molybdenum type of deposit. The objective of the IP survey was to determine if a sulphide system could be present in the survey area, that could be associated with a mineralizing intrusive.

This report presents the data from the geophysical surveys, describes the procedures used, and discusses the results.

GEOPHYSICAL SURVEYS

Induced Polarization

A Hunttec 7.5 kw motor generator/IP transmitter in combination with two Scintrex IPR-8 receivers were used on the Bobbi survey. Chargeability (IP) response was measured in the time domain employing a 2 second current on / 2 second current off alternating square wave signal. The plotted chargeability values are the M₂₃₂ measurement of from 650 to 1170 milliseconds following cessation of the current pulse. Units are in millivolts per volt.

The pole dipole electrode array was used with an "a" spacing of 50 meters and "n" separations of 1,2,3, and 4. The current electrode was to the east of the potential dipole on all survey lines.

The apparent resistivity was calculated from the relation:

$$\text{resistivity} = (V/I).K,$$

where V is the voltage during the current on period (I), and I is a geometrical factor dependent on the "a" spacing and "n" separation.

Magnetometer Survey

A Scintrex MP-2 proton precession total field magnetometer was used for the magnetics survey. Readings were corrected for diurnal drift by reference to an MBS-2 base station magnetometer.

DISCUSSION OF RESULTS

The chargeability (IP) and apparent resistivity data is presented in pseudo section format on plates 3 to 9. This is a schematic form of data presentation and no specific target depth or geometry is implied by it. The near separation (n=1) values are also plotted in contour plan form on plates 10 (IP) and 11 (resistivity).

IP anomalies have been categorized on the pseudosections as follows:

strong IP high	($>40 \frac{mV}{V}$ at near separations)
moderate IP high	($30-40 \frac{mV}{V}$ at near separations)
weak IP high	($20-30 \frac{mV}{V}$ at near separations)
greater than $20 \frac{mV}{V}$	at farther separations

Several IP highs were detected on the BOBBI survey. The strongest response zone trends north south some 800 meters east of the baseline on lines 2S to 4N (anomaly A). A value of 67.5 mv/v plots at 775E on line 4N. Anomaly A is in an area of low (background) magnetic field strength. A parallel zone, anomaly B, is of lower amplitude and lies some 200 meters west of the anomaly A and anomaly B is at least partly coincident with a magnetic field high (see plate 12).

A very broad mostly weak to moderate response IP high, labelled C on the contour plans, trends across the central survey area along and to the west of the baseline. Strong response zones within this broad high plot on the east side of the anomaly at 25E; line 4N, and on the west side of the anomaly at 225W; line 6S, and 225W; line 8S. A central low response zone lies just west of the baseline on line 4S to line 0. This low IP response zone is coincident with a magnetic field low. Magnetic field highs give a similar trend to the IP high trend, but there is not a direct correlation of higher IP to higher magnetics.

A very broad moderate to strong IP response high, labelled D on the contour plans, was detected at the west end of line 6S and west of 400 west on line 8S. The peak value of 51 mv/v plots at 825W on 8S. The anomaly is open to the south, west, and north.

It is indeterminate from the geophysical results alone whether the source of these IP anomalies is syngenetic sulphides within the overlying volcanics, or sulphides introduced by a deep seated intrusive.

Geological investigations (T. Hodson 1980) suggest that anomalies A, B, and C are most probably responding to syngenetic pyrite within basaltic flows and anomaly D may be a combination of intrusive origin and syngenetic origin. The pattern of the magnetic field highs is suggestive of such basaltic flows.

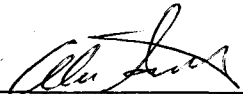
CONCLUSIONS

Portions of the Bobbi property were surveyed with time domain IP and total field magnetics in the late summer of 1980. Four zones (labelled A, B, C, and D) of weak to strong IP response have been defined in this report. It is indeterminate from the geophysical results alone whether the source of these anomalies is syngenetic sulphides within overlying volcanics or if they have been introduced by a deep seated intrusive. The geological evidence tends to support the former.

A series of sub-parallel narrow magnetic field highs trend north south across the survey area. There is not a strong correlation of IP highs to magnetic field highs, suggesting different sources for these anomalies.

No further work can be recommended on the basis of the geophysical results alone.

Respectfully submitted:

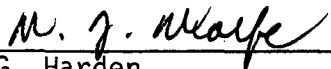

A.R. Scott
Geophysicist

ARS/skg

Distribution:

Mining Recorder (2)
Western District (1)
Geophysics File (1)

Approved for
Release by:


G. Harden
Manager, Exploration
Western District

C A N A D A
PROVINCE OF BRITISH COLUMBIA
TO WIT:

STATUTORY DECLARATION

I, ROBIN LAWSON WOODS, of the District of North Vancouver, in the Province of British Columbia, DO SOLEMNLY DECLARE THAT:

1. I am the Supervisor, Exploration and Foreign Accounting for Cominco Ltd., 2300 - 200 Granville Street, Vancouver, British Columbia, and, as such have knowledge of the facts deposed to herein.
2. Attached to this Statutory Declaration, as Schedule A, is a statement of expenditures indicating the expenditures charged by Cominco Ltd. to the Bobbi Option account for the period January 1, 1980 to September 30, 1980.
3. The statement of expenditures referred to in paragraph 2 is true and accurate to the best of my knowledge, information and belief.
4. This Statutory Declaration is made in support of an application for credit as assessment work pursuant to the Mineral Act of British Columbia.

AND I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

DECLARED before me at the City)
of Vancouver in the Province)
of British Columbia, this 17th)
day of *October* 1980)

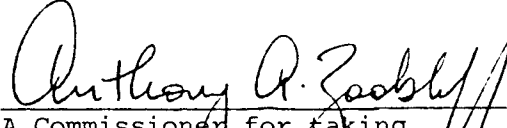
Anthony A. Zoobkoff
A Commissioner for taking
Affidavits for British Columbia

Anthony Allen Zoobkoff
A Commissioner for taking
Affidavits for British Columbia.



Robin Lawson Woods

This is Schedule A referred to
in the Statutory Declaration
of ROBIN LAWSON WOODS
declared before me this 17th day
of October 1980


A Commissioner for taking
Affidavits for British Columbia

*Anthony Allen Zoobkoff
A Commissioner for taking
Affidavits for British Columbia.*

STATEMENT OF EXPENDITURES


BOBBI OPTION

NELSON M.D., B.C.

JANUARY 1, 1980 TO SEPTEMBER 30, 1980

Geology	\$21,963
Geophysics	10,772
Linecutting	12,090
Transportation	2,366
Geochemistry	5,868
Camp costs	5,486
Option payment	5,400
Administrative services	5,855
	<hr/>
	\$69,800
	<hr/> <hr/>

Cominco Ltd.
Vancouver Office
October 17, 1980
Copies: Mining Recorder (2)
Senior Technician
File (2)



Robin Lawson Woods
Supervisor, Exploration
& Foreign Accounting

COMINCO LTD.

EXPLORATION
NTS: 82-F-6

WESTERN DISTRICT
15 October 1980

APPENDIX I

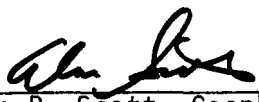
IN THE MATTER OF THE B.C. MINERAL ACT
AND IN THE MATTER OF A GEOPHYSICAL PROGRAMME
CARRIED OUT ON PORTIONS OF THE BOBBI GROUP OF MINERAL CLAIMS
ON THE BOBBI PROPERTY
LOCATED 10 KM NORTH OF SLAMO IN THE NELSON MINING DIVISION
OF THE PROVINCE OF BRITISH COLUMBIA, MORE PARTICULARLY
N.T.S.: 82-F-6

S T A T E M E N T

I, Alan R. Scott, of the City of Vancouver, in the Province of British Columbia, make oath and say:-

1. THAT I am employed as a geophysicist by Cominco Ltd. and, as such have a personal knowledge of the facts to which I hereinafter depose;
2. THAT the annexed hereto and marked as "Appendix II" to this statement is a true copy of expenditures incurred on geophysical survey on the BOBBI property;
3. THAT the said expenditures were incurred for the purpose of mineral exploration of the above noted claims between the 20th day of August and the 28th day of August, 1980.

Signed: _____


Alan R. Scott, Geophysicist

15 October 1980

COMINCO LTD.

EXPLORATION
NTS: 82-F-6

WESTERN DISTRICT
15 October 1980

APPENDIX II

STATEMENT OF EXPENDITURES

BOBBI PROPERTY

(Induced polarization, magnetometer surveys, linecutting)

1. SALARIES

S. Holland, geophysicist in training,	Aug. 20-28 9 days @ 105 =	945
D. Milne, geophysical technician,	Aug. 20-28 9 days @ 105 =	945
Y. Fortin, IP crewman	, Aug. 20-24 5 days @ 83 =	415
E. Bernshaw, IP crewman	, Aug. 20-28 9 days @ 83 =	747
D. Campbell, IP crewman	, Aug. 20-28 9 days @ 83 =	747
J. Allen, IP crewman	, Aug. 20-28 9 days @ 83 =	747
		<u>4546</u>

2. EQUIPMENT RENTALS

7.5 kw IP survey system, magnetometers, truck	2840
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3. CHARGES PER SURVEY DAY (towards drafting, report, supervision)

7 days geophysical survey @ 175	1225
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4. MISCELLANEOUS

food, gas, lodging, consumables	<u>2154</u>
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Total Expenditures	<u>\$ 10,765</u>
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COMINCO LTD.

EXPLORATION
NTS: 82-F-6

WESTERN DISTRICT
15 October 1980

APPENDIX III

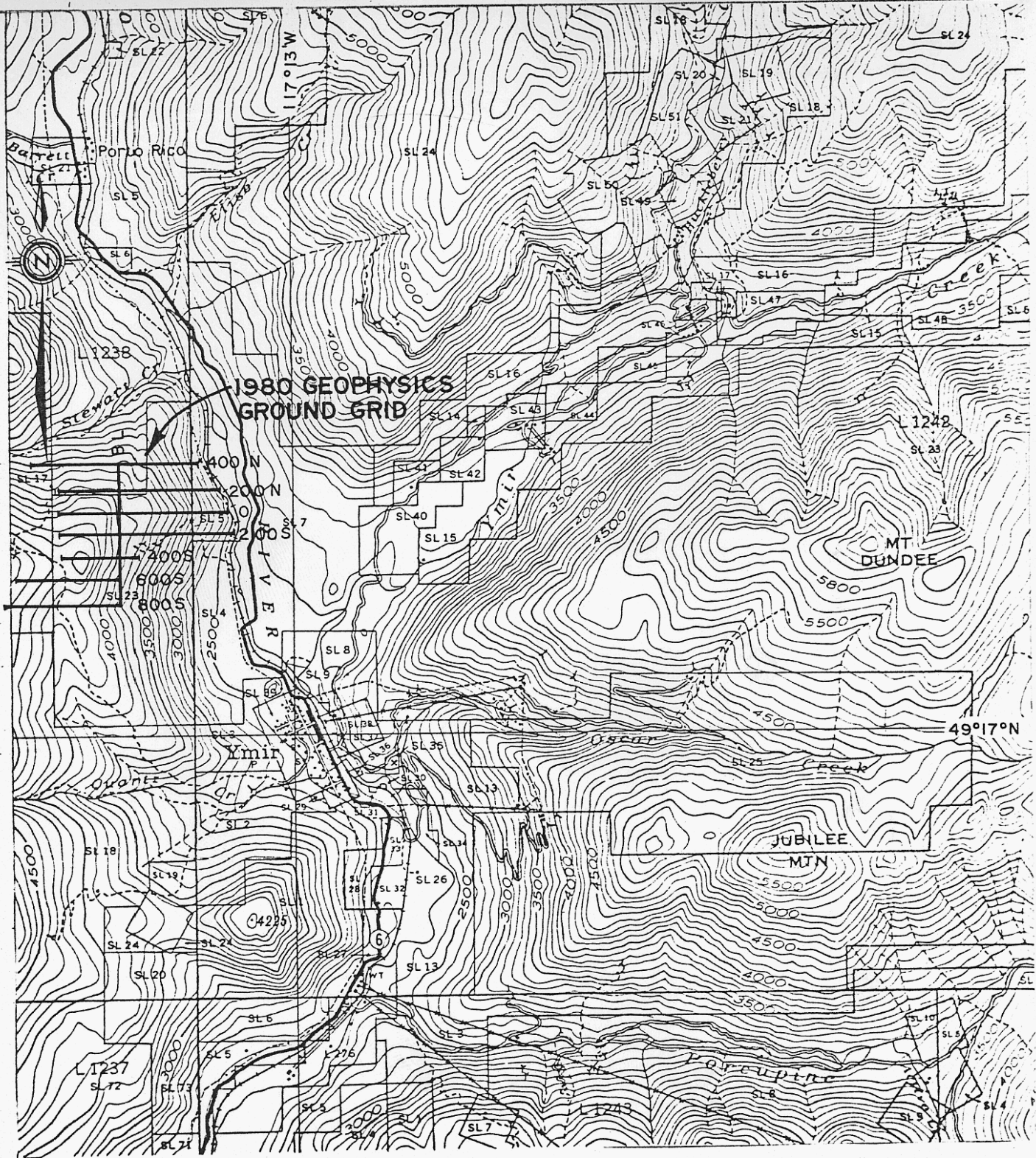
C E R T I F I C A T I O N

I, Alan R. Scott, of 4013 West 14th Avenue, in the City of Vancouver,
in the Province of British Columbia, do hereby certify:-

1. THAT I graduated from the University of British Columbia in 1970
with a B.Sc. in Geophysics;
2. THAT I am a member of the Association of Professional Engineers
of the Province of Saskatchewan, the Society of Exploration Geo-
physicists of America, and the British Columbia Geophysical Society;
3. THAT I have been practising my profession for the past ten years.

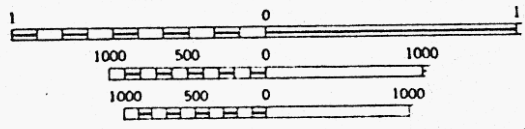
Signed: 
Alan R. Scott, Geophysicist

15 October 1980



SCALE 1:50,000

1.25 inches to 1 mile approximately



BOBBI PROPERTY



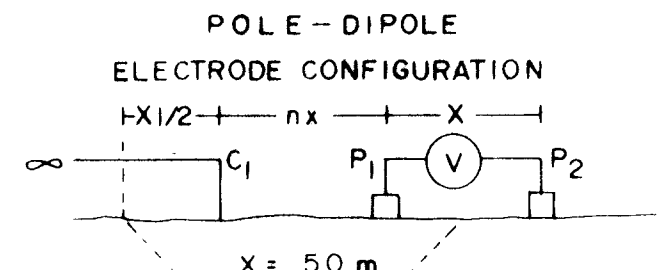
NTS
82 F 6

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

LOCATION MAP
NELSON M. D., B. C.

COMINCO LTD. BOBBI PROPERTY NELSON M.D., B.C.

LINE NO. 400 S



PLOTTING POINT
 $n = 1, 2, 3, 4, 5 \text{ \& } 6$

CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION**
- ██████████ STRONG CHARGEABILITY HIGH
 - ▤▤▤▤▤▤ MODERATE CHARGEABILITY HIGH
 - ▨▨▨▨▨▨ WEAK CHARGEABILITY HIGH
 - ▬▬▬▬▬▬ IP HIGH AT FURTHER SEPARATIONS

DATE SURVEYED AUG 26, 1980

CONTOUR INTERVALS:

APP. RES — 1,1.5,2,3,5,7.5,1.0 ohm metres
APP. CHARG. — 10.0 Mv/V

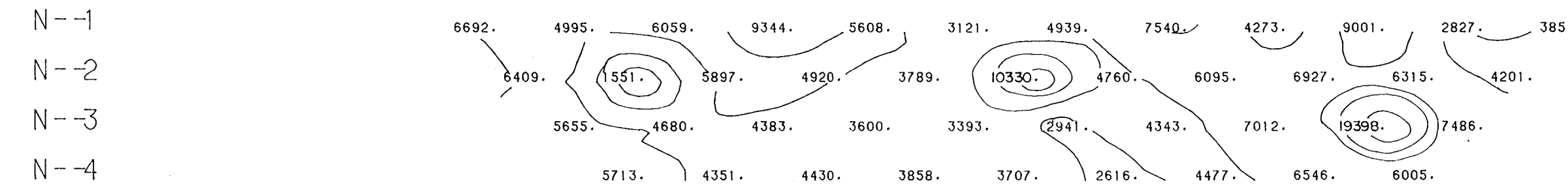
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TRANSMITTER — HUNTEC 7.5 Kw
RECEIVER — SCINTREX LPR8

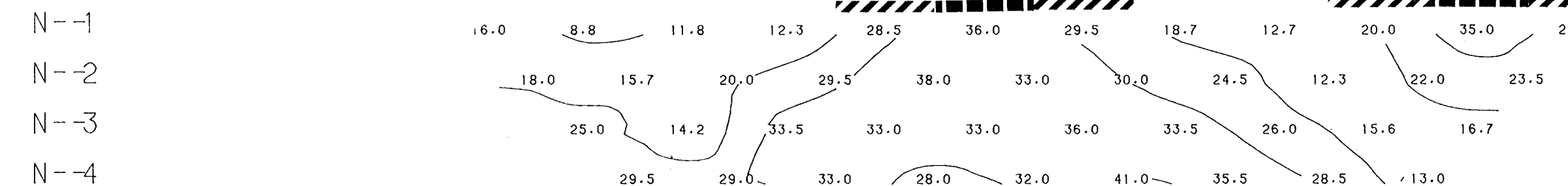
PART 1 of 2

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

RESISTIVITY (OHM-M)
600W 550W 500W 450W 400W 350W 300W 250W 200W 150W 100W 50W BL 50E 100E 150E 200E



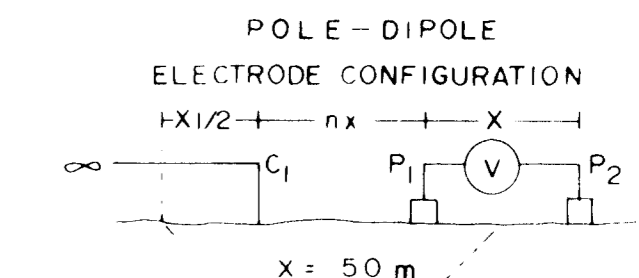
CHARGEABILITY (Mv/V)
600W 550W 500W 450W 400W 350W 300W 250W 200W 150W 100W 50W BL 50E 100E 150E 200E



LINE 400 S

COMINCO LTD. BOBBI PROPERTY NELSON M.D., B.C.

LINE NO. 200 S



PLOTTING POINT
 $n = 1, 2, 3, 4, 5 \text{ \& } 6$

CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- ██████████ STRONG CHARGEABILITY HIGH
- ▨▨▨▨▨▨ MODERATE CHARGEABILITY HIGH
- ▤▤▤▤▤▤ WEAK CHARGEABILITY HIGH
- ▬▬▬▬▬▬ IP HIGH AT FURTHER SEPARATIONS

DATE SURVEYED AUG 28, 1980

CONTOUR INTERVALS :

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APP. CHARG. - 10.0 Mv/V

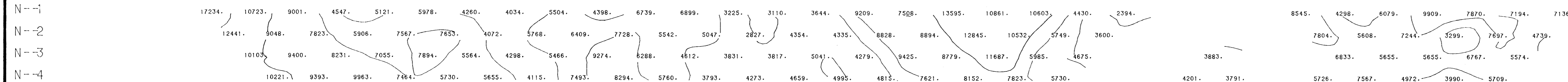
DATE

TRANSMITTER - HUNTEC 7.5 Kw
RECEIVER - SCINTREX IPR 8

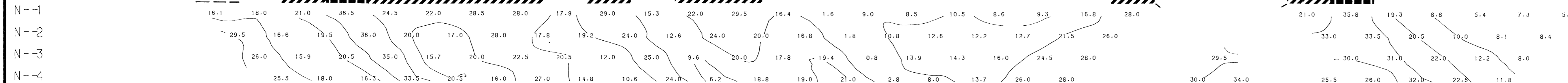
PART 1 of 2

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

600W 550W 500W 450W 400W 350W 300W 250W 200W 150W 100W 50W BL 50E 100E 150E 200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E RESISTIVITY (OHM-M)



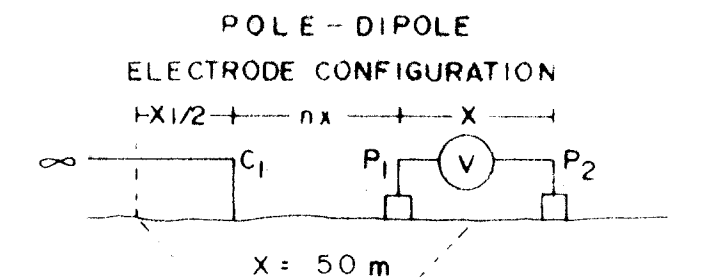
600W 550W 500W 450W 400W 350W 300W 250W 200W 150W 100W 50W BL 50E 100E 150E 200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E CHARGEABILITY (Mv/V)



LINE 200 S

COMINCO LTD. BOBBI PROPERTY NELSON M.D., B.C.

LINE NO. 600 S



PLOTTING POINT
n = 1, 2, 3, 4, 5 & 6

CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION**
- ██████████ STRONG CHARGEABILITY HIGH
 - ▨▨▨▨▨▨▨▨ MODERATE CHARGEABILITY HIGH
 - ▧▧▧▧▧▧▧▧ WEAK CHARGEABILITY HIGH
 - IP HIGH AT FURTHER SEPARATIONS

DATE SURVEYED AUG 26, 1980

CONTOUR INTERVALS:

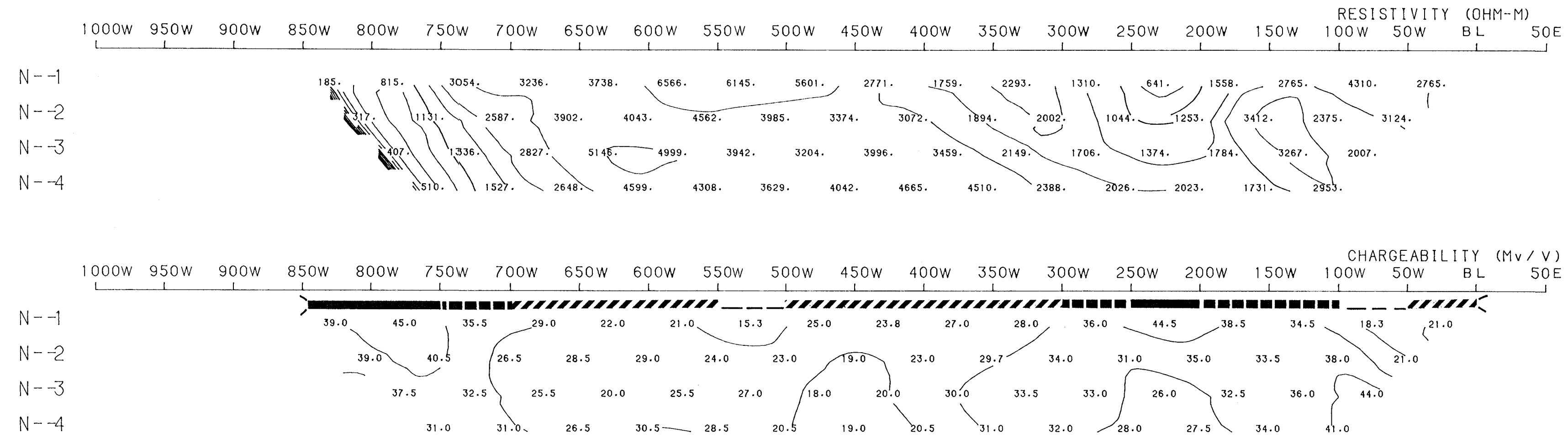
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APP. CHARG. - 10.0 Mv/V

TRANSMITTER - HUNTEC 7.5 Kw
RECEIVER - SCINTREX IPR 8

PART 1 of 2

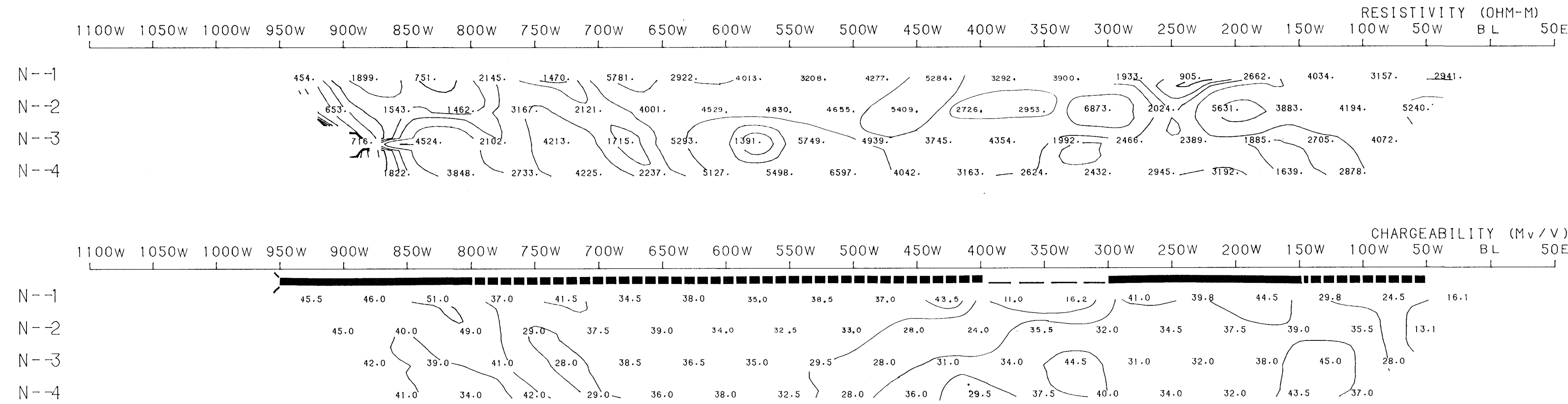
MINERAL RIGHTS BRANCH
APPROVED
DATE
NO. **8448**

INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

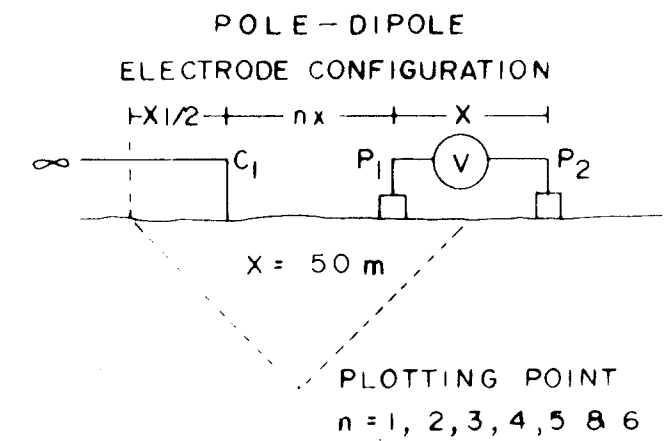


LINE 600 S

COMINCO LTD. BOBBI PROPERTY NELSON M.D., B.C.



LINE NO. 800 S



CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE
CHARGEABILITY (IP) INTERPRETATION
 ■ STRONG CHARGEABILITY HIGH
 ▨ MODERATE CHARGEABILITY HIGH
 ▩ WEAK CHARGEABILITY HIGH
 — IP HIGH AT FURTHER SEPARATIONS

DATE SURVEYED AUG 27, 1980

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 APP. CHARG. — 10.0 Mv/V

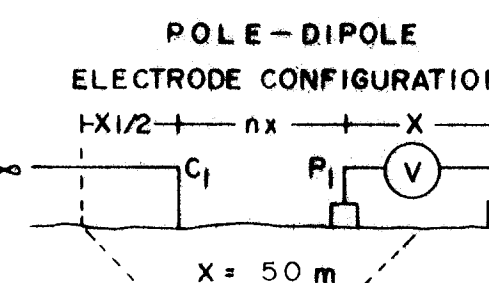
APPROVED _____
 DATE _____
 TRANSMITTER — HUNTEC 7.5 Kw
 RECEIVER — SCINTREX IPR 8
PART 1 of 2
 MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO. **8448**

INDUCED POLARIZATION AND RESISTIVITY SURVEY
 SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 800 S

COMINCO LTD. BOBBI PROPERTY NELSON M.D., B.C.

LINE NO. 00



CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE
CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH
- MODERATE CHARGEABILITY HIGH
- WEAK CHARGEABILITY HIGH
- IP HIGH AT FURTHER SEPARATIONS

DATE SURVEYED AUG 24, 1980

CONTOUR INTERVALS:

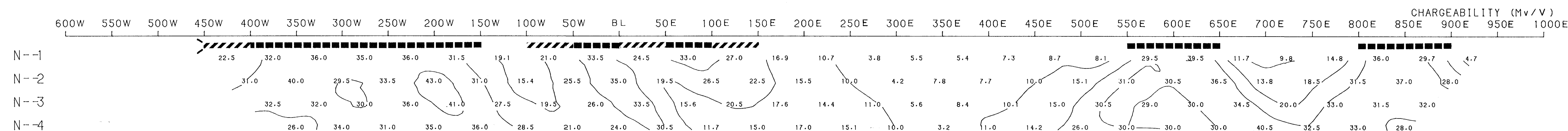
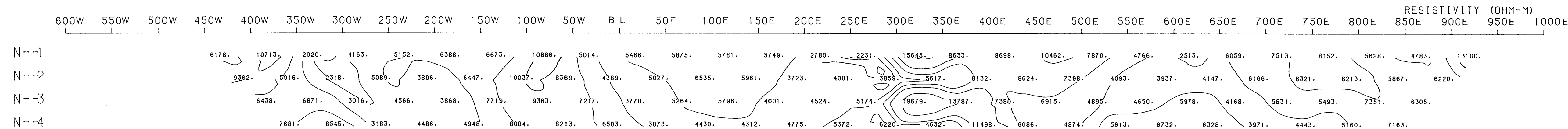
APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10 ohm metres
APP. CHARG. — 10.0 Mv/V

DATE

TRANSMITTER — HUNTEC 7.5 Kw
RECEIVER — SCINTREX IPR 8

PART 1 of 2

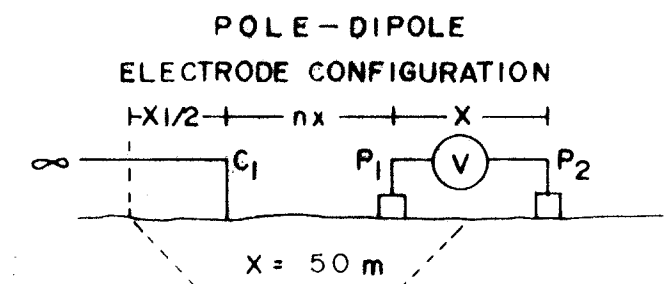
INDUCED POLARIZATION AND RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION



LINE 00

COMINCO LTD. BOBBI PROPERTY NELSON M.D., B.C.

LINE NO. 200 N



CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE
CHARGEABILITY (IP) INTERPRETATION
 ■■■■■ STRONG CHARGEABILITY HIGH
 ■■■■■ MODERATE CHARGEABILITY HIGH
 ■■■■■ WEAK CHARGEABILITY HIGH
 --- IP HIGH AT FURTHER SEPARATIONS

DATE SURVEYED AUG 23, 1980

CONTOUR INTERVALS:

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 APP. CHARG. — 10.0 Mv/V

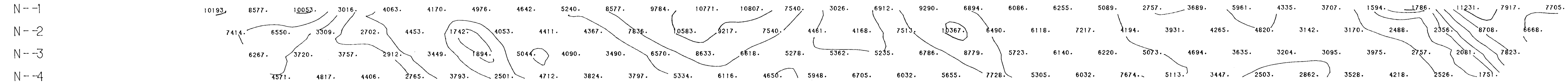
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 RECEIVER — SCINTREX IPR 8

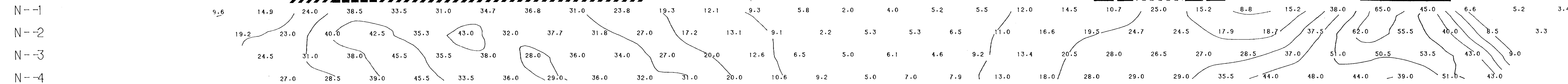
APPROVED: [Signature]
 NO. 8448
 PART 1 of 2

INDUCED POLARIZATION AND RESISTIVITY SURVEY
 SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

RESISTIVITY (OHM-M)
 600W 550W 500W 450W 400W 350W 300W 250W 200W 150W 100W 50W B L 50E 100E 150E 200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E



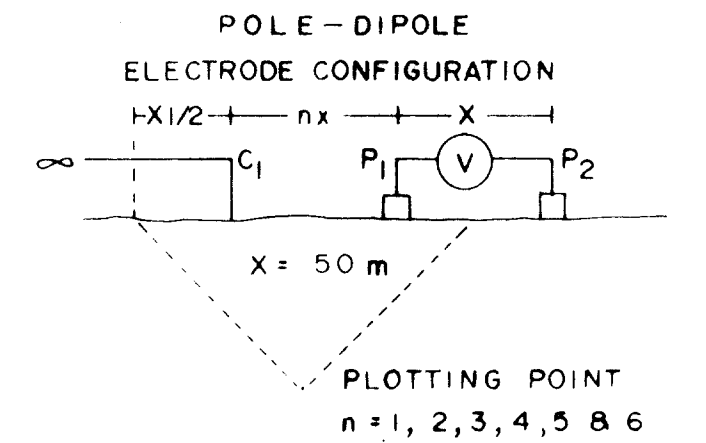
CHARGEABILITY (Mv/V)
 600W 550W 500W 450W 400W 350W 300W 250W 200W 150W 100W 50W 0 50E 100E 150E 200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E



LINE 200 N

COMINCO LTD. BOBBI PROPERTY NELSON M.D., B.C.

LINE NO. 400 N



CURRENT ELECTRODE EAST OF POTENTIAL DIPOLE
CHARGEABILITY (IP) INTERPRETATION

- ██████████ STRONG CHARGEABILITY HIGH
- ▨▨▨▨▨▨▨▨ MODERATE CHARGEABILITY HIGH
- ▤▤▤▤▤▤▤▤ WEAK CHARGEABILITY HIGH
- ▬▬▬▬▬▬▬▬ IP HIGH AT FURTHER SEPARATIONS

DATE SURVEYED AUG 26, 1980

CONTOUR INTERVALS:

APP. RES — 1,1.5,2,3,5,7.5,1.0 ohm metres APPROVED

APP. CHARG. — 10.0 MV/V

DATE

8448

TRANSMITTER — HUNTEC 7.5 Kw

RECEIVER — SCINTREX IPR8

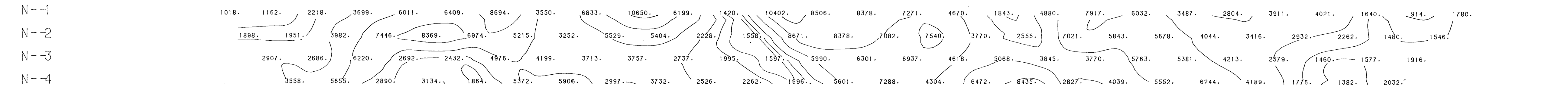
PART 1 of 2

INDUCED POLARIZATION AND RESISTIVITY SURVEY

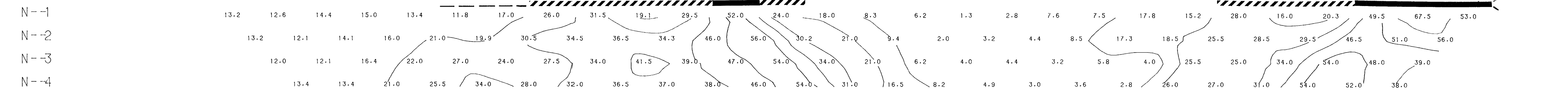
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 400 N

RESISTIVITY (OHM-M)
700W 650W 600W 550W 500W 450W 400W 350W 300W 250W 200W 150W 100W 50W BL 50E 100E 150E 200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E



CHARGEABILITY (Mv/V)
700W 650W 600W 550W 500W 450W 400W 350W 300W 250W 200W 150W 100W 50W BL 50 100E 150E 200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E





STEWART PROPERTY (SHELL)

1000W 900W 800W 700W 600W 500W 400W 300W 200W 100W

0 BASELINE

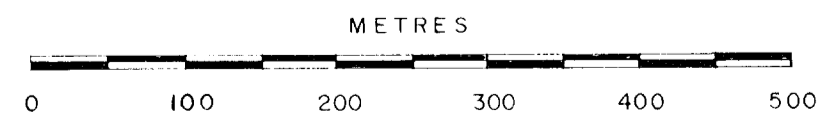
ELEANOR 2
483098

ELEANOR 1
483097

ELEANOR 7
483103

ELEANOR 8
483104

- 1980 GEOPHYSICS GROUND GRID
- CREEK
- RIVER
- RAILWAY
- CLAIM BOUNDARY (APPROXIMATE LOCATION)
- LEGAL CLAIM POST
- CLAIM POST



MINERAL RESOURCES BRANCH
ACCREDITED SURVEYOR
8448
NO.

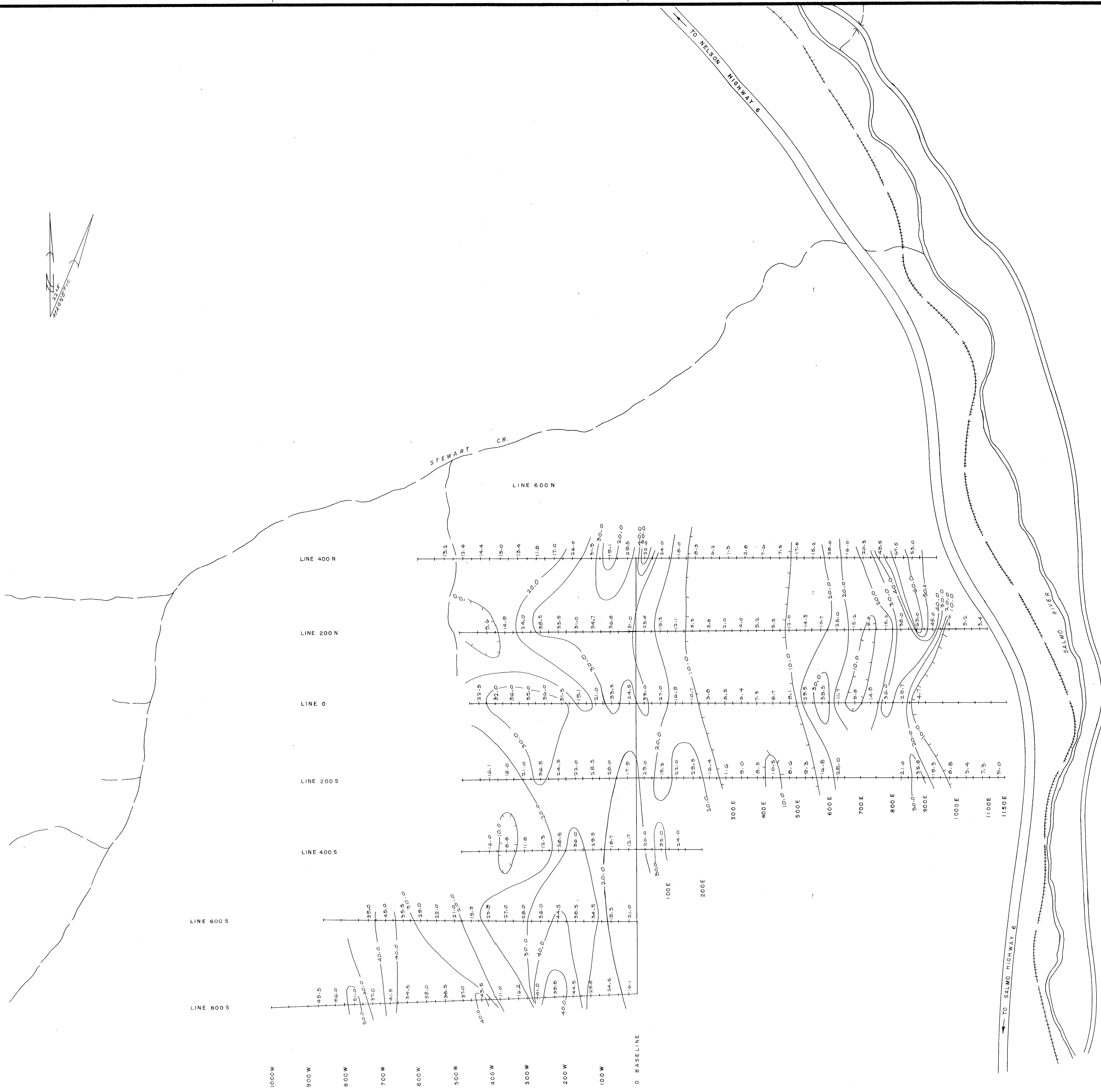
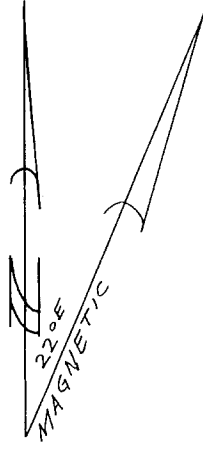
PART 1 & 2

BOBBI PROPERTY			
Drawn by:	Traced by:	Revised by:	Date:

CLAIM MAP
NELSON M.D., B.C.

Scale: 1:5000 Date: SEPT 1980 Plate: 188-80-2

NTS
82-F-6



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8448
HO

PART 1 of 2

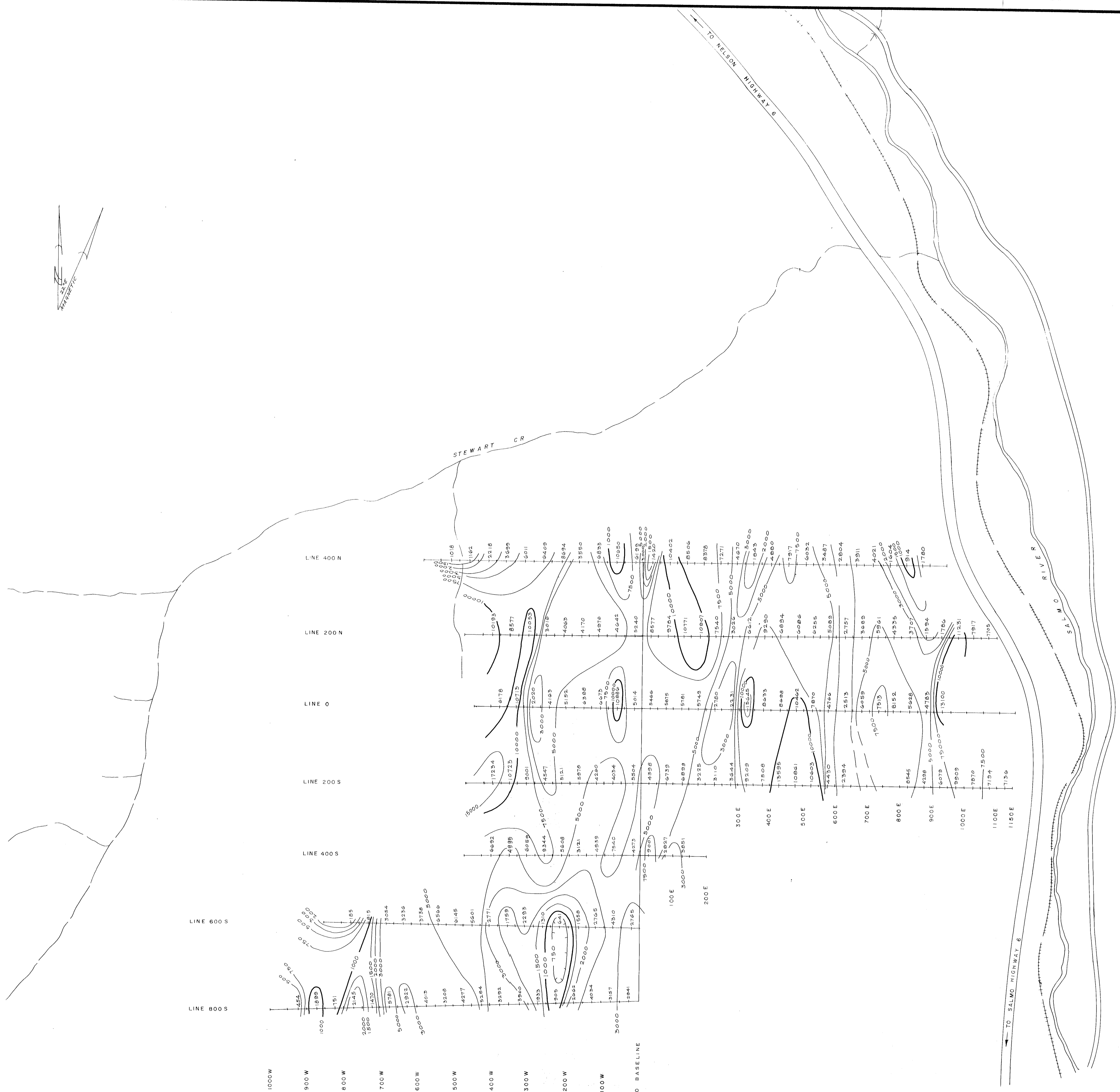
BOBBI PROPERTY

Drawn by:	Traced by:
Revised by: Date	Revised by: Date

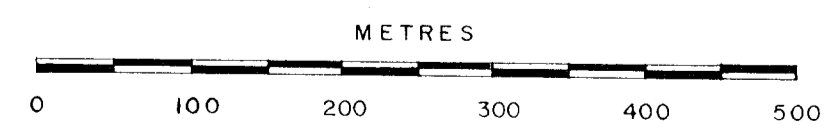
CHARGEABILITY PLAN
n = 1
NELSON M.D., B.C.

Scale: 1:5000 Date: SEPT 1980 Plate: 188-80-10

NTS
82-F-6

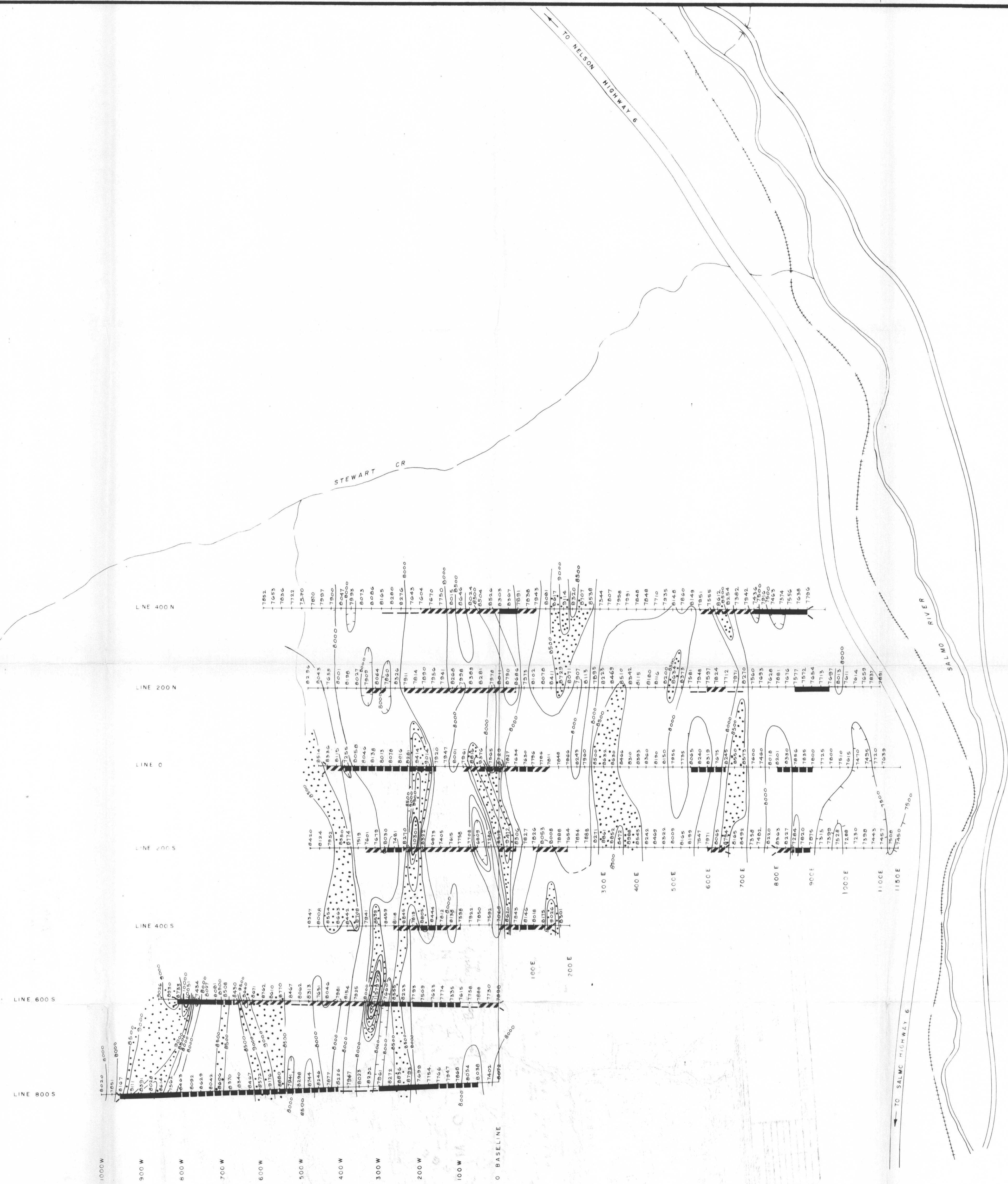


1980 GEOPHYSICS GROUND GRID
 CREEK
 RIVER
 RAILWAY
 CONTOUR INTERVAL 1,1.5,2,3,5,7.5,10 ohm metres



ANNUAL RESISTIVITY PLAN
 ASSESSMENT NO. **8448**
 NO. **PART 1 of 2**

BOBBI PROPERTY				NTS 82-F-6	
Drawn by:	Traced by:		RESISTIVITY PLAN n = 1 NELSON M.D., B.C.		
Revised by:	Date:	Revised by:			Date:
Scale: 1:5000		Date: SEPT 1980		Plate: 188-80-11	



1980 GEOPHYSICS GROUND GRID

CREEK
RIVER
RAILWAY

INSTRUMENT: SCINTREX MP II PROTON PRESSION MAGNETOMETER

BASE 50000 GAMMAS
CONTOUR INTERVAL 500 GAMMAS

MAGNETIC FIELD HIGH >58500 GAMMAS

CHARGEABILITY (IP) INTERPRETATION

STRONG CHARGEABILITY HIGH
MODERATE CHARGEABILITY HIGH
WEAK CHARGEABILITY HIGH
IP-HIGH AT FURTHER SEPARATIONS

METRES

0 100 200 300 400 500

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8448
NO.
PART 1 of 2

BOBBI PROPERTY

MAGNETOMETER SURVEY
NELSON M.D., B.C.

Scale: 1:5000 Date: SEPT 1980 Plate: 188-80-12

Drawn by:	Traced by:
Revised by:	Revised by:
Date:	Date:

NTS
82-F-6