

COMINCO LTD.

EXPLORATION

N.T.S. 92I/7

**GEOLOGICAL BRANCH** WESTERN DISTRICT  
**ASSESSMENT REPORT**

**13,347**

GEOPHYSICAL REPORT

ON AN

INDUCED POLARIZATION AND RESISTIVITY SURVEY

ON THE

SHEBA PROPERTY

HIGHLAND VALLEY, KAMLOOPS MINING DIVISION, B.C.

Latitude : 50°27'N

Longitude : 120°58'W

Field Work Performed : Sept. 21st to Nov. 5th, 1984

on Claims : Ann 2 Fr, 5 Fr, 6 Fr, 15 Fr-17 Fr,  
CU 1-6, CS 1 Fr, 1, 3, DO 1-6,  
1 Fr-8 Fr, J 1-8, 11, 31-32,  
33 Fr-38 Fr, 40 Fr, 41, 42, Jay 9-10,  
12-20, 104 Fr, JJ 1 Fr, 2 Fr, SHEBA 21-26

Owned and Operated by : COMINCO LTD.

- ASSESSMENT REPORT -

DECEMBER 1984

J. KLEIN



TYPE OF REPORT/SURVEY(S) Geophysical	TOTAL COST \$ 92,150.00
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AUTHOR(S) J. Klein SIGNATURE(S) [Signature]

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED Nov. 9/84 YEAR OF WORK 84

PROPERTY NAME(S) Valley Copper - Sheba

COMMODITIES PRESENT Cu

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION Kamloops NTS 92 I/7

LATITUDE 50° 29' LONGITUDE 121° 02'

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Ann. 2 Fr, 5 Fr, 6 Fr, 15 Fr - 17 Fr, Cu 1-6, CS 1 Fr, 1, 3, DO 1-6, 1 Fr - 8 Fr, J 1-8, 11, 31-32, 33 Fr - 38 Fr, 40 Fr, 41, 42, Jay 9-10, 12-20, 104 Fr, II 1 Fr, 2 Fr, Sheba 21-26

OWNER(S) (1) Cominco Ltd (2)

MAILING ADDRESS 700-409 Granville St Vancouver, B.C.

OPERATOR(S) (that is, Company paying for the work) (1) same (2)

MAILING ADDRESS

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Bethsaida granodiorite has been strongly altered to sericite, kaolinite, K-feldspar and crosscut by numerous quartz veins. Bornite and chalcopyrite are the most important copper sulphides and they occur within a quartz vein stockwork as well as in the various alteration zones as small veins and disseminations. Molybdenite and pyrite appear to be restricted to the fringes of the ore zone.

REFERENCES TO PREVIOUS WORK

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area) Ground ..... Photo ..... GEOPHYSICAL (line-kilometres) Ground ..... Magnetic ..... Electromagnetic ..... Induced Polarization ..... Radiometric ..... Seismic ..... Other ..... Airborne .....	76 km.	Ann. 2 Fr, 5 Fr, 6 Fr, 15 Fr - 17 Fr, Cul-6, CS. 1 Fr, 1, 3, DO. 1-6, 1 Fr - 8 Fr, JI-8, 11, 31-32, 33 Fr - 38 Fr, 40 Fr, 41, 42, Jay. 9-10, 12-20, 104 Fr, JI. 1 Fr, 2 Fr, Sheba 21-26	76,580
GEOCHEMICAL (number of samples analysed for ....) Soil ..... Silt ..... Rock ..... Other .....			
DRILLING (total metres; number of holes, size) Core ..... Non-core .....			
RELATED TECHNICAL Sampling/assaying ..... Petrographic ..... Mineralogic ..... Metallurgic .....			
PROSPECTING (scale, area) .....			
PREPARATORY/PHYSICAL Legal surveys (scale, area) ..... Topographic (scale, area) ..... Photogrammetric (scale, area) ..... Line/grid (kilometres) ..... Road, local access (kilometres) ..... Trench (metres) ..... Underground (metres) .....	86.5 km.	on same claims as listed above.	\$15,570
			TOTAL COST \$92,150. <sup>00</sup>

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report) .....				
Value of work approved .....				
Value claimed (from statement) .....				
Value credited to PAC account .....				
Value debited to PAC account .....				
Accepted ..... Date .....	Rept. No. ....			Information Class .....

## TABLE OF CONTENTS

INTRODUCTION	1
GEOLOGY	1
CLAIMS AND OWNERSHIP	1
GEOPHYSICAL SURVEYS	2
PRESENTATION OF DATA	2
DESCRIPTION OF RESULTS	3
CONCLUSIONS AND RECOMMENDATIONS	3
APPENDIX I	Statement of Qualifications
APPENDIX II	Statement of Expenditures
APPENDIX III	Certification
FIGURE 1	General Location Plan, scale $1 \approx 10,000,000$
FIGURE 2	Detailed Location Plan, scale 1:50,000
PLATE 275-84-1	Claims and Grid Plan, scale 1" = 1,000'
PLATES 275-84-2 to 25	I.P./Res. Pseudosections, Lines 00 to 47S, scale 1:5,000

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EXPLORATION

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N.T.S.: 92I/7

GEOPHYSICAL REPORT  
ON AN  
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
ON THE SHEBA PROPERTY  
HIGHLAND VALLEY, KAMLOOPS MINING DIVISION, B.C.

INTRODUCTION

During the period September 21st to November 5th, 1984, some 76 line kilometres of reconnaissance scale multiseperation Induced Polarization/Resistivity (I.P./Res.) surveying was completed over portions of the SHEBA property. The I.P./Res. work was conducted under contract for COMINCO Ltd. by MPH Consulting Ltd. of Toronto, Ontario.

The SHEBA property is located in the Highland Valley area of B.C., some 12 km southwest of Logan Lake. Figs. 1 and 2 show the general and more detailed location of the property respectively. Plate 1 shows the location of the grid lines with respect to the claims.

This report describes the procedures used for the survey, presents the data and discusses the results. The objective of the survey was to outline areas possibly underlain by disseminated sulphides.

GEOLOGY

The SHEBA property occurs immediately south of Valley Copper's JA deposit and directly east of the Lornex and Highmont orebodies. These are porphyry-type Cu-Mo deposits. The JA deposit is estimated to contain 260 Mt @ .43% Cu and .017% Mo. The Lornex orebody consists of some 525 Mt @ .412% Cu and .014% Mo. The Highmont No. 1 contains 111 Mt @ .287% Cu and .028% Mo. These deposits occur in different phases of the Guichon batholith. Similar rocks are occurring on the SHEBA property.

CLAIMS AND OWNERSHIP

The SHEBA 84-1 claim group consists of a large number of claims and fractions. The following is a list of the claims and fractions covered by the present I.P./Res. survey. These claims are owned and operated by COMINCO Ltd.

Ann 2 Fr, 5 Fr, 6 Fr, 15 Fr-17 Fr, CU 1-6, CS 1 Fr, 1, 3, DO 1-6,  
1 Fr-8 Fr, J 1-8, 11, 31-32, 33 Fr-38 Fr, 40 Fr, 41, 42, Jay 9-10,  
12-20, 104 Fr, JJ 1 Fr, 2 Fr, and SHEBA 21-26



## DESCRIPTION OF RESULTS

The I.P./Res. results obtained on the SHEBA property are similar to those measured elsewhere in the Highland Valley. Good examples are Lines 14S and 29S. Chargeability amplitudes vary smoothly over a range from 3-4 msec. to 8-9 msec. These variations reflect to some degree, variations in overburden thickness but more so, changes in lithologies (different phases of the Guichon Batholith). These changes in I.P. levels are related to the different percentages of clays and similar minerals, and minor sulphides in these intrusives. It is also known that younger (Tertiary) volcanics have higher I.P. levels related to non-economic sources. The highest I.P. levels measured during this survey are well below those obtained over the known deposits in this area and are therefore unlikely to reflect an economic source. (It should be noted that the highest I.P. levels along Lines 31S to 37S, and even 39S, are correlatable with man-made sources.)

The resistivity values vary over a wider range and more rapidly. The northeastern part of the grid shows values below 100 ohmm reflecting the thick overburden cover in the Highland Valley (e.g., Lines 00 and 2S). On other parts of the property they do rise to over 2000 ohmm (e.g., Line 16S). Sharp breaks in values along the lines may be caused by changes in lithology, topography or by faults.

## CONCLUSIONS AND RECOMMENDATIONS

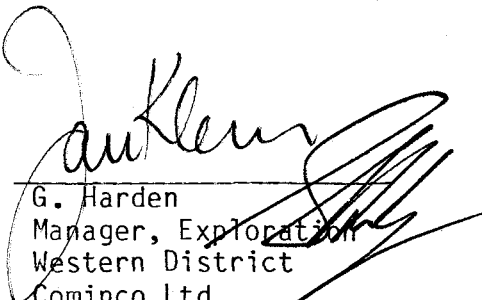
The I.P./Res. survey over this property revealed chargeability and resistivity values typical for this part of the Highland Valley. No targets of immediate interest were detected.

No recommendations for follow-up can be made at this stage.

Report by: \_\_\_\_\_

J. Klein  
Chief Geophysicist  
Cominco Ltd.

Approved for  
Release: \_\_\_\_\_

  
G. Harden  
Manager, Exploration  
Western District  
Cominco Ltd.

## DISTRIBUTION:

Mining Recorder	(2)
Administration	(1)
Western District	(1)
Vernon Expl. Office	(1)
Valley Copper	(1)
Geophysics	(1)



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EXPLORATION

WESTERN DISTRICT

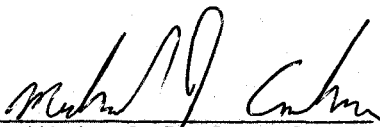
APPENDIX I

STATEMENT OF QUALIFICATIONS

I, MICHAEL J. CASSELMAN, OF THE CITY OF VERNON, BRITISH COLUMBIA, HEREBY CERTIFY:

1. THAT I AM A GEOLOGIST, residing at 14056 Ponderosa Street, Vernon, British Columbia, with a business address at 4405 - 28 Street, Vernon, British Columbia.
2. THAT I GRADUATED WITH B.Sc. and M.Sc. degrees in Geology from the University of British Columbia in 1969 and Carleton University in 1977.
3. THAT I HAVE PRACTISED Geology with Cominco Ltd. from 1969 to present.

SIGNED:

  
Michael J. Casselman

APPENDIX II

EXPLORATION

WESTERN DISTRICT

STATEMENT OF EXPENDITURES

FOR LINECUTTING AND IP SURVEY ON THE SHEBA GRID

Supervision - M.J. Casselman	September 10,21;Oct.26,27 (4 days @ \$230/day)	\$ 920.
IP Cost (MPH Consulting)		59,614.
Domicile - Accomodation and food at Copper Valley Motor Inn (Sept.21-Nov.4/84)		13,426.
Data Interpretation,Report writing and Drafting		3,000.
Linecutting - 86.5 km at \$180/km		15,570.
		<hr/>
	TOTAL	\$ 92,150

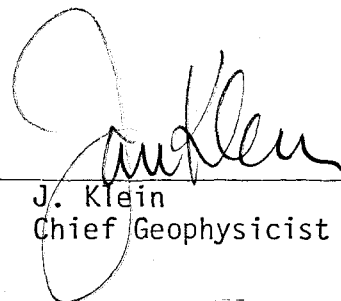
APPENDIX III

CERTIFICATION

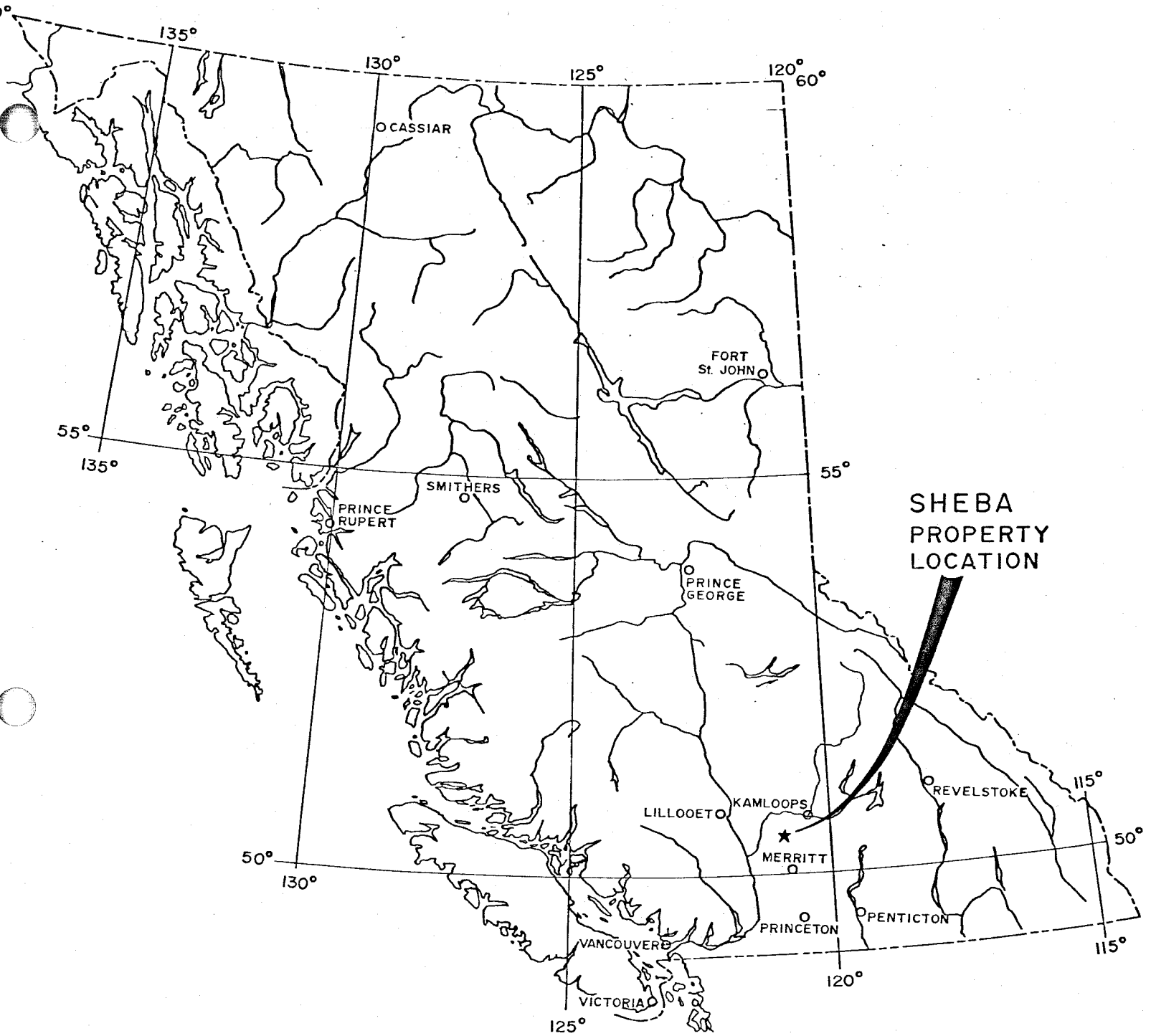
I, JAN KLEIN, of 4371 Coventry Drive, in the Corporation of Richmond, in the Province of British Columbia, do hereby certify:-

- 1) THAT I graduated from the Technological University of Delft Netherlands in 1965 with a M.Sc. in Geophysics;
- 2) THAT I am a member of the Association of Professional Engineers of the Province of British Columbia, the Society of Exploration Geophysicists of America, and the British Columbia Geophysical Society;
- 3) THAT I have been practising my profession for the past seventeen years.

Signed:

  
\_\_\_\_\_  
J. Klein  
Chief Geophysicist

DECEMBER 1984



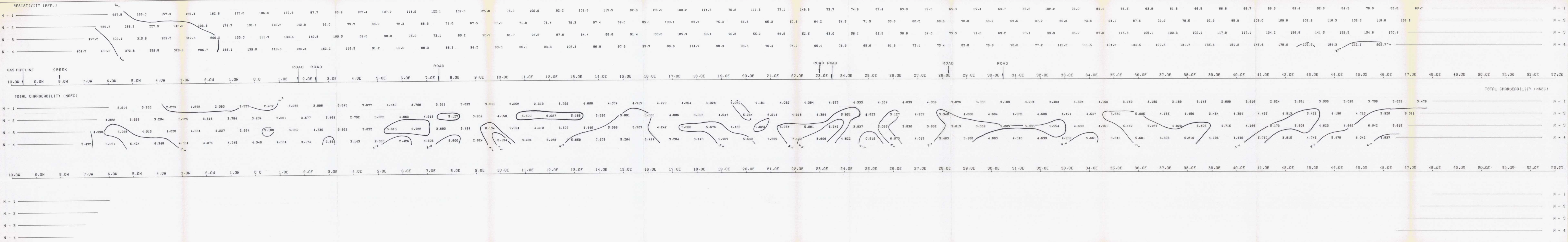
SHEBA  
PROPERTY  
LOCATION

0 100 200 300 400 Kilometres

0 100 200 Miles

# SHEBA PROPERTY GENERAL LOCATION MAP

Figure : 1



SHEBA COPPER  
 HIGHLAND VALLEY, B.C.  
 COMINCO LTD.

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**13,347**

A-SPACING= 100 M

POLE-DIPOLE ARRAY  
 OPERATOR : D. MORRISON  
 TRANSMITTER : HUNTEC 7.5KW  
 RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: SEPT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

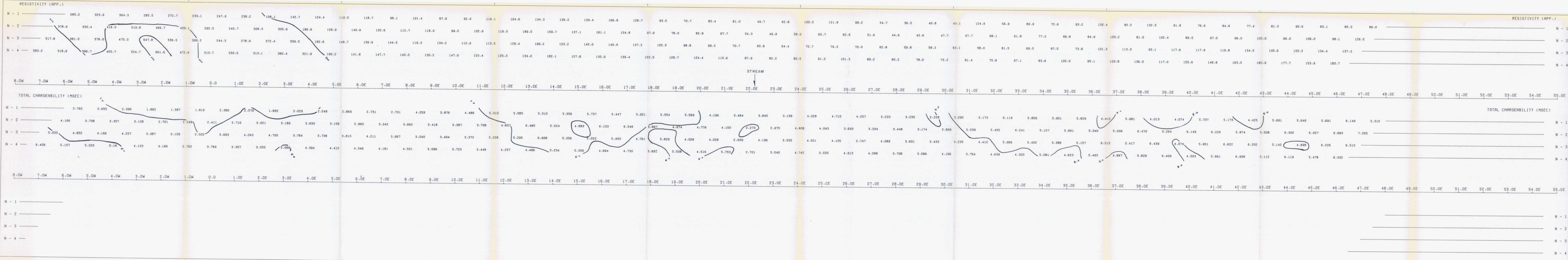


Plate: 275-84-3

SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. 2005  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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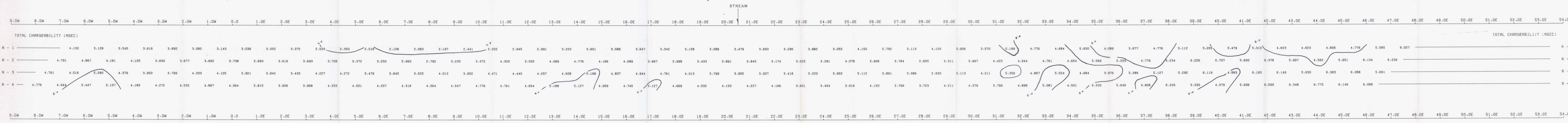
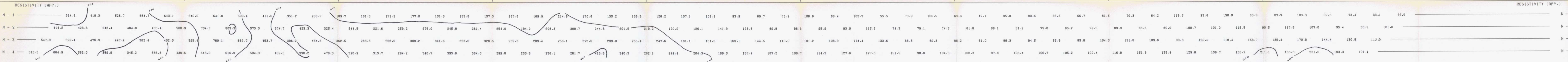
A-SPACING= 100 M

POLE-DIPOLE ARRAY  
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: SEPT 1984

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HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 4005  
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,347**

A-SPACING= 100 M

POLE-DIPOLE ARRAY  
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

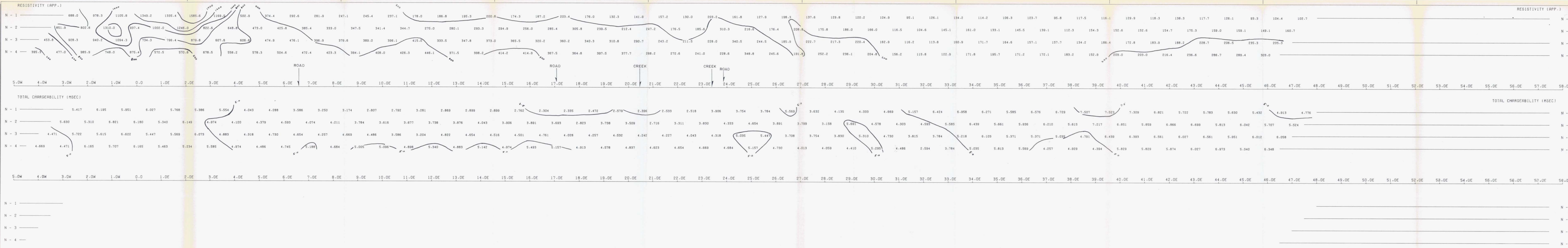


Plate: 275-84-5

SHEBA COPPER  
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COMINCO LTD.

LINE NO. - 6005  
**GEOLOGICAL BRANCH  
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A-SPACING= 100 M

POLE-DIPOLE ARRAY

OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

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INDUCED POLARIZATION AND RESISTIVITY SURVEY



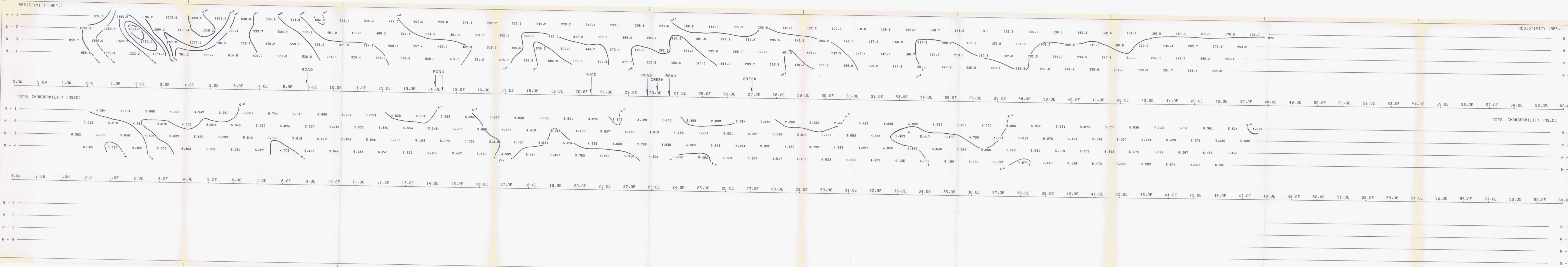


Plate: 275-84-6

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 HIGHLAND VALLEY, B.C.  
 COMINCO LTD.

LINE NO. - 800S

**GEOLOGICAL BRANCH  
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A-SPACING= 100 M

POLE-DIPOLE ARRAY  
 OPERATOR : D. MORRISON  
 TRANSMITTER : HUNTEC 7.5KW  
 RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

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INDUCED POLARIZATION AND RESISTIVITY SURVEY

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COMINCO LTD.

LINE NO. - 1000S  
**GEOLOGICAL BRANCH  
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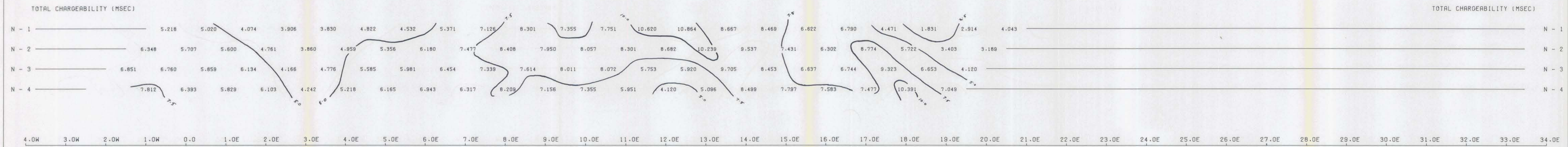
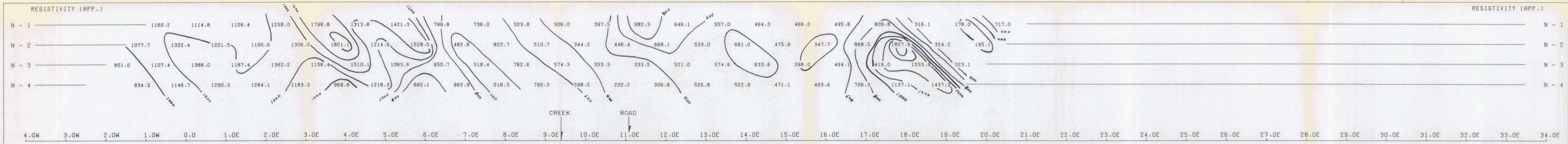
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OPERATOR : D. MORRISON  
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SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



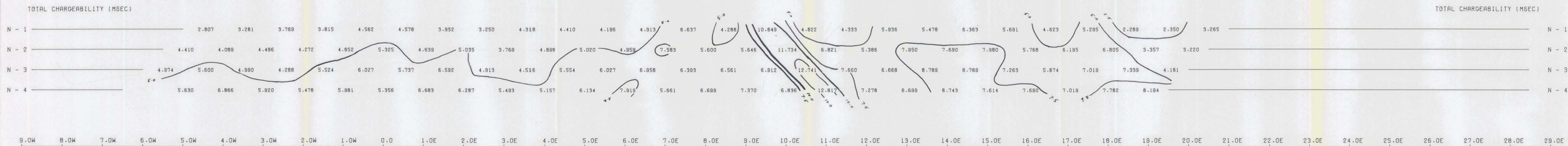
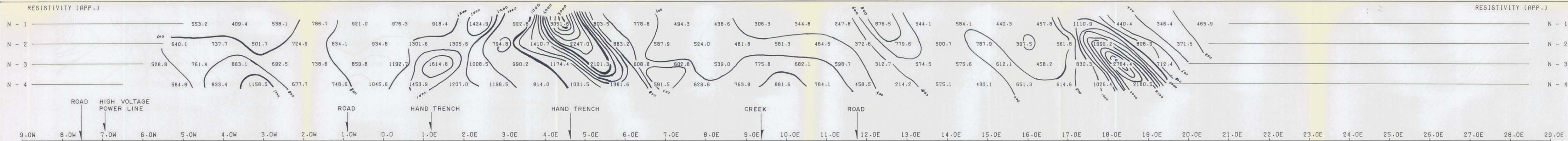


Plate: 275-84-8  
SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
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LINE NO. - 1200 S  
**GEOLOGICAL BRANCH  
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POLE-DIPOLE ARRAY  
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RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

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LINE NO. - 1400S  
GEOLOGICAL BRANCH  
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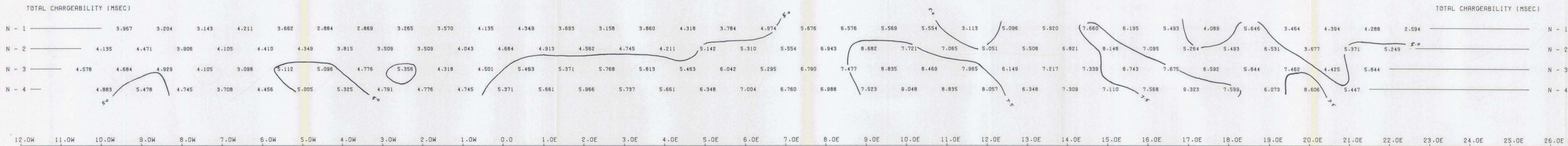
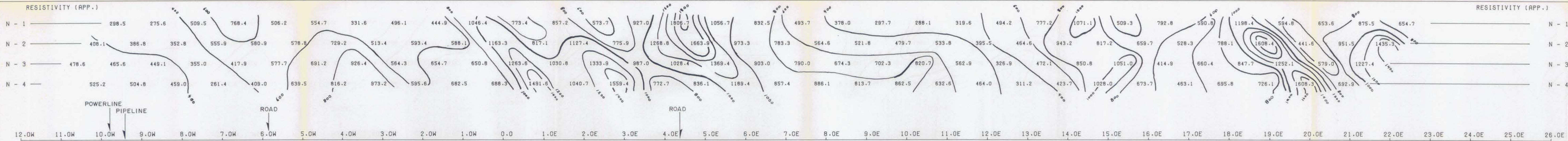
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OPERATOR : D. MORRISON  
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RECEIVER : HUNTEC MK IV

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HIGHLAND VALLEY, B.C.  
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LINE NO. - 1600S  
GEOLOGICAL BRANCH  
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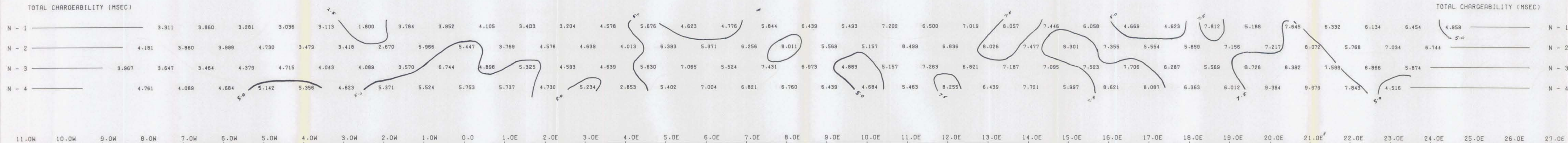
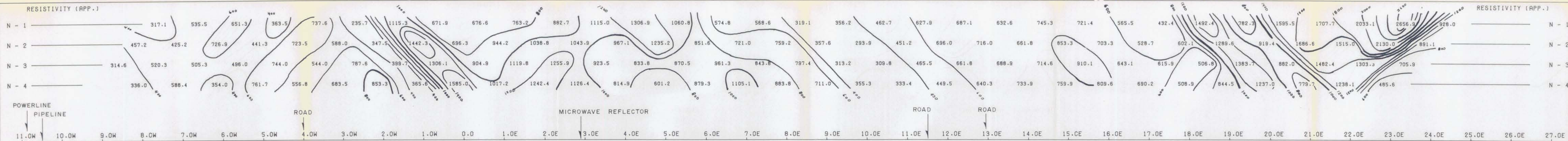
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OPERATOR : D. MORRISON  
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RECEIVER : HUNTEC MK IV

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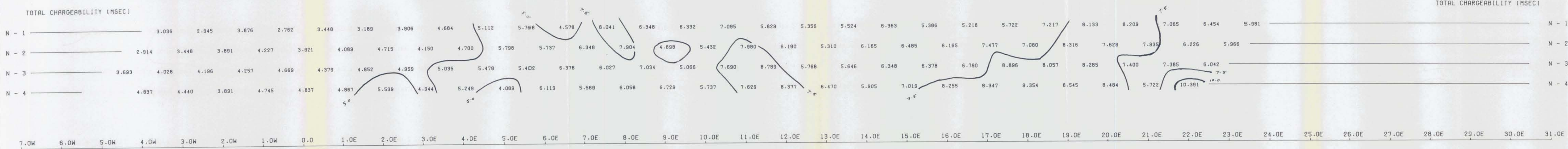
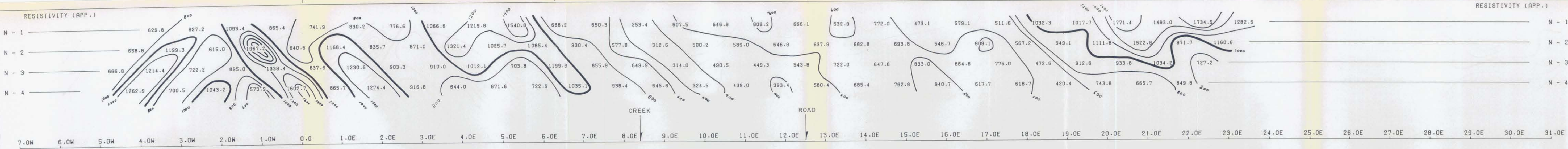
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POLE-DIPOLE ARRAY  
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

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INDUCED POLARIZATION AND RESISTIVITY SURVEY



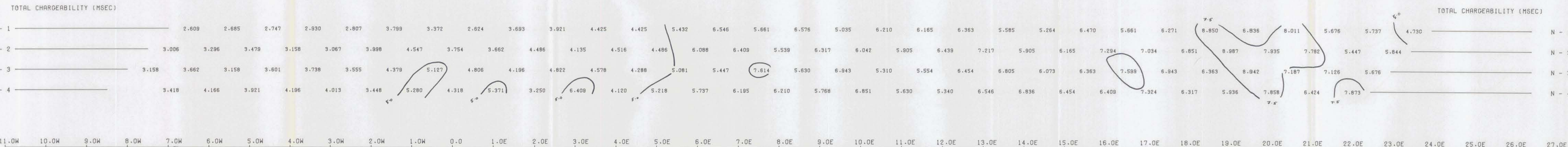
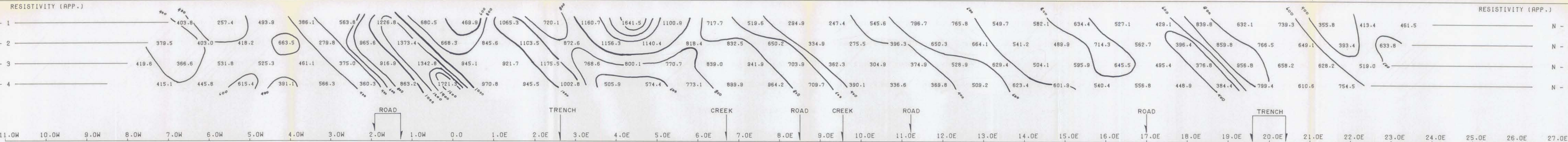


Plate: 275-84-12

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LINE NO. - 2000 S  
**GEOLOGICAL BRANCH**  
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INDUCED POLARIZATION AND RESISTIVITY SURVEY

SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
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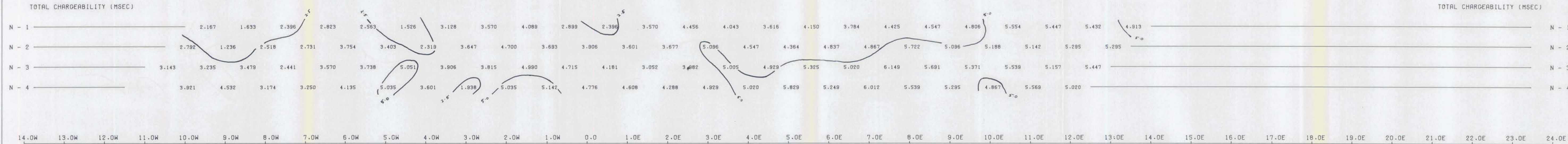
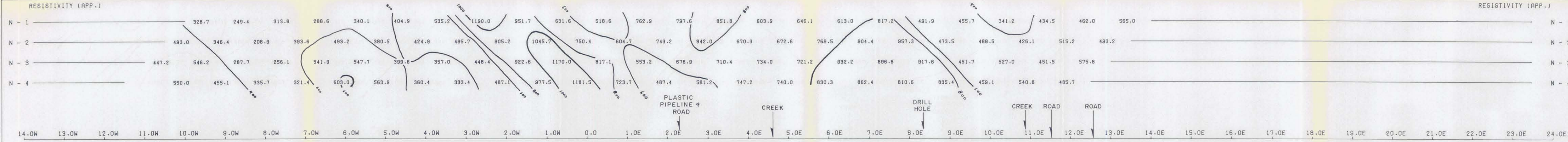
POLE-DIPOLE ARRAY

OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

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MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY





SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
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GEOLOGICAL BRANCH  
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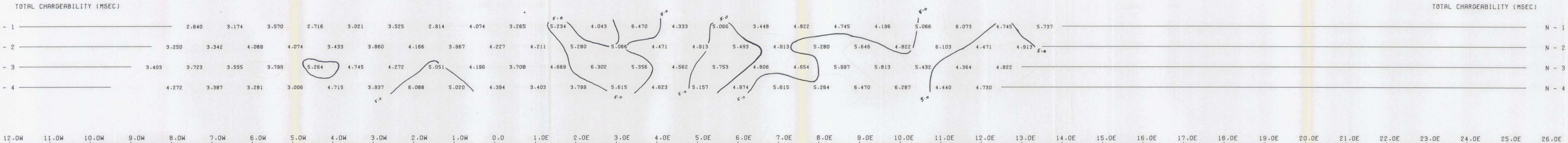
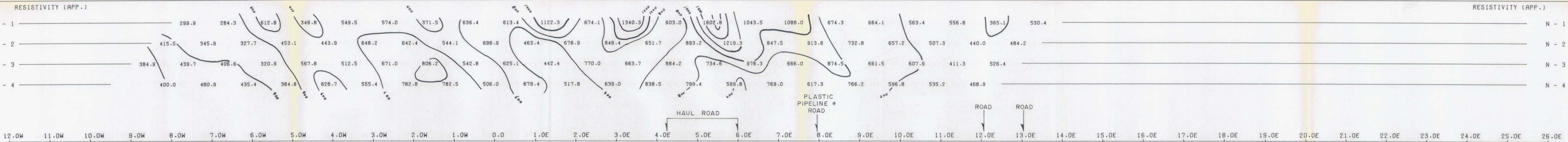
POLE-DIPOLE ARRAY

OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

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INDUCED POLARIZATION AND RESISTIVITY SURVEY



SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 27005

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,347

A-SPACING= 100 M

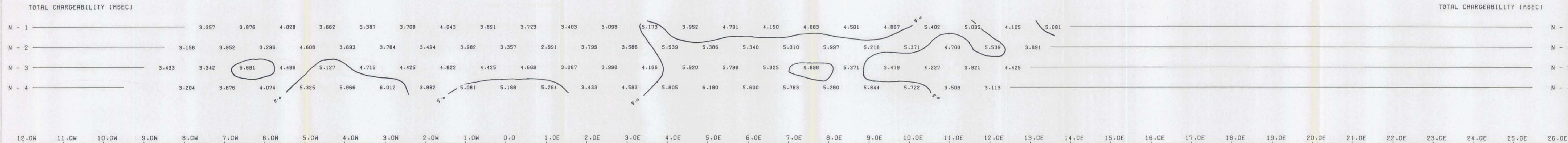
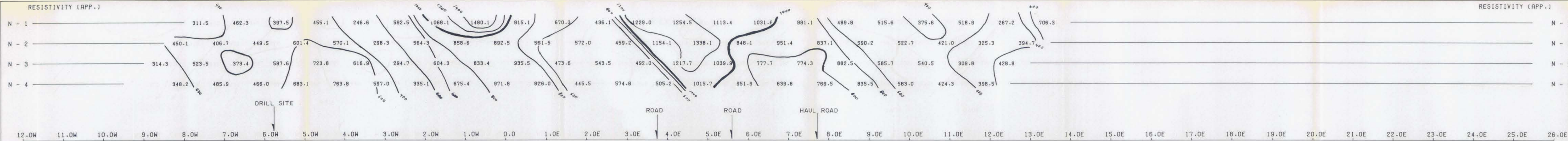
POLE-DIPOLE ARRAY

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TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

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INDUCED POLARIZATION AND RESISTIVITY SURVEY



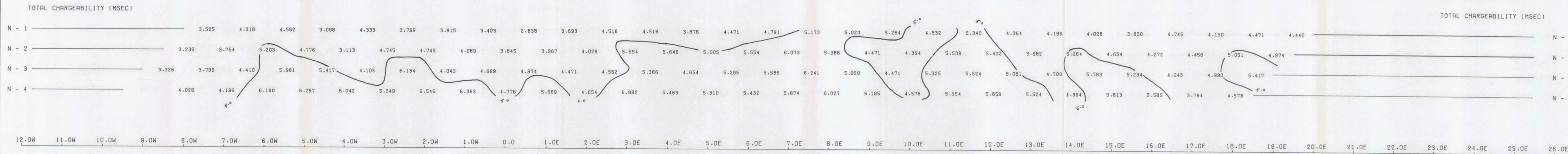
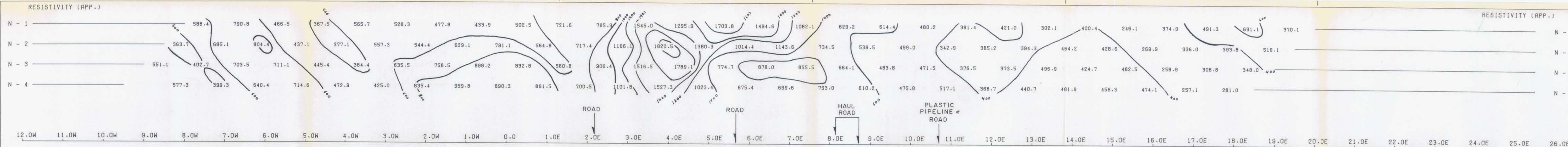


Plate: 275-84-16

SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 29005  
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,347**

A-SPACING= 100 M

POLE-DIPOLE ARRAY  
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 3100S  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,347

A-SPACING= 100 M

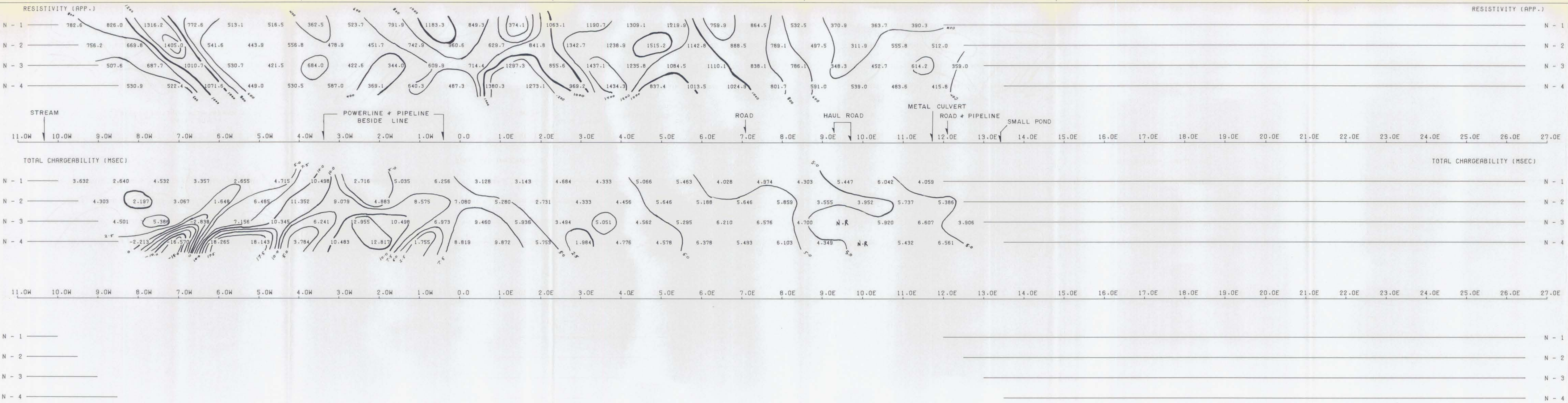
DIPOLE-DIPOLE ARRAY

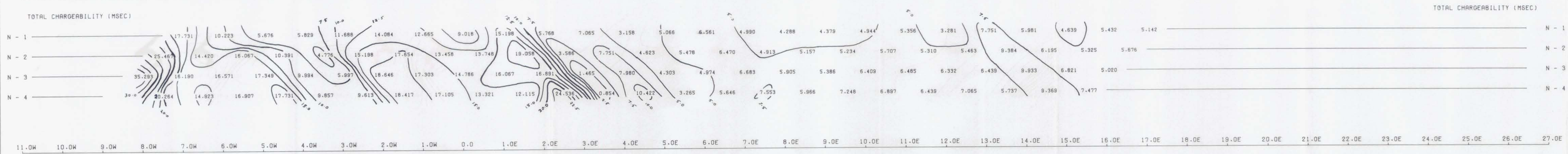
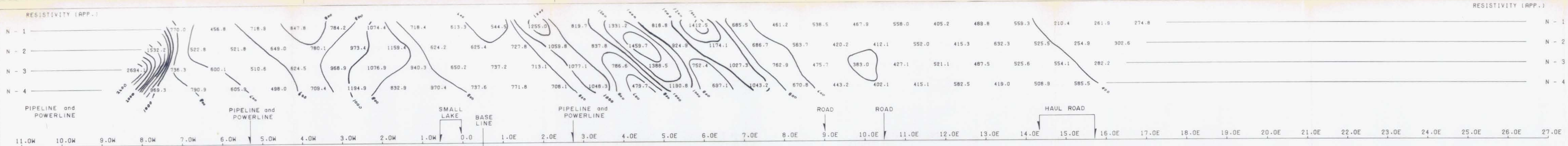
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY





SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 33006  
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,347**

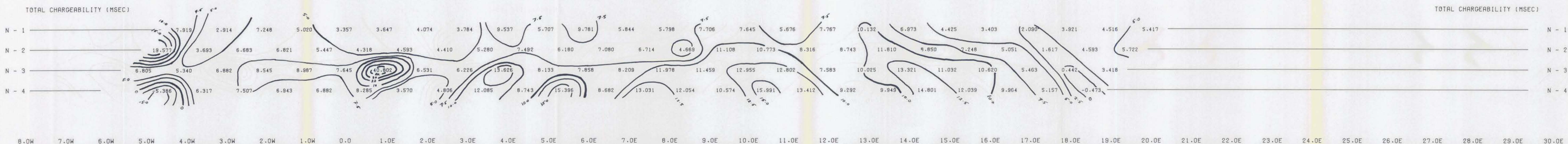
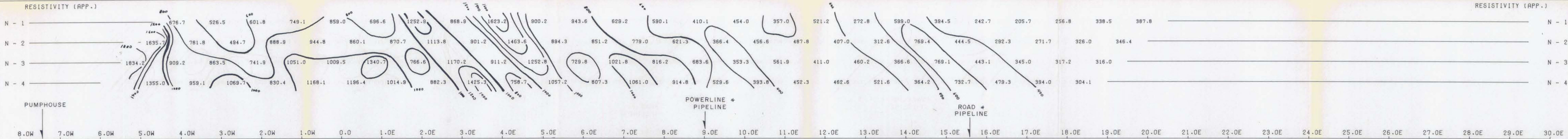
A-SPACING= 100 M

POLE-DIPOLE ARRAY  
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



N - 1	_____	N - 1
N - 2	_____	N - 2
N - 3	_____	N - 3
N - 4	_____	N - 4

SHEBA COPPER  
 HIGHLAND VALLEY, B.C.  
 COMINCO LTD.

LINE NO. - 3500S  
**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**13,347**

A-SPACING= 100 M

POLE-DIPOLE ARRAY  
 OPERATOR : D. MORRISON  
 TRANSMITTER : HUNTEC 7.5KW  
 RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 3700S

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**13,347**  
A-SPACING= 100 M

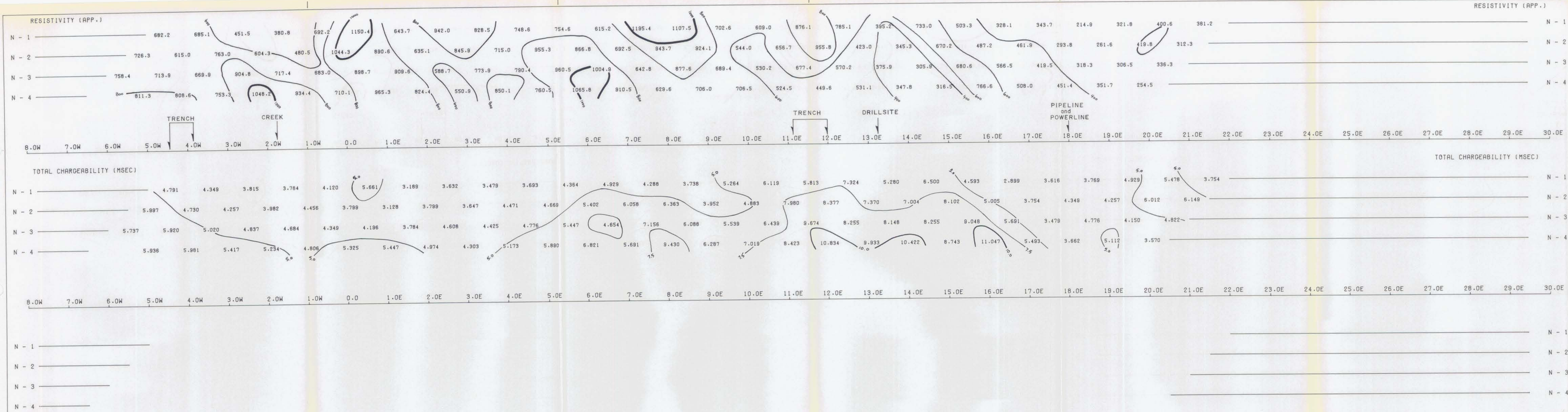
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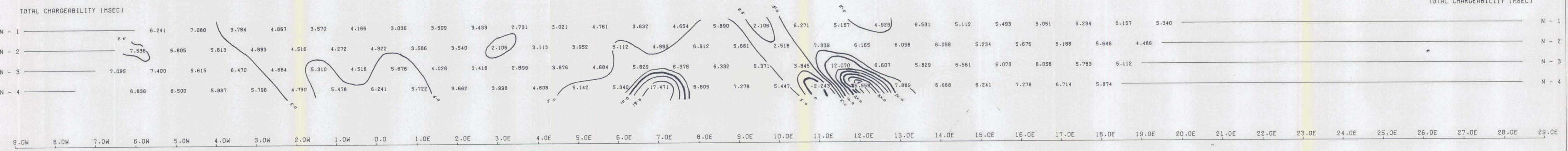
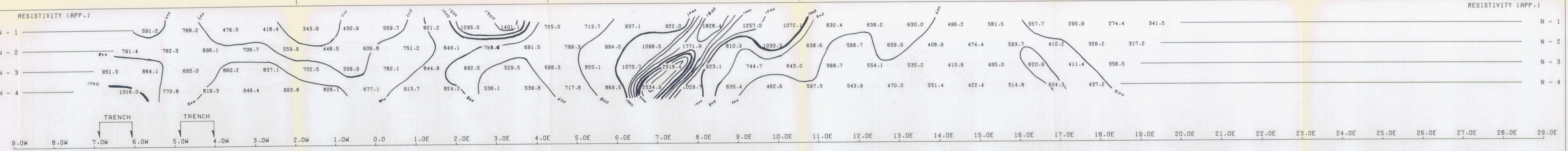
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY





SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 39005  
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,347**

A-SPACING = 100 M

POLE-DIPOLE ARRAY  
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000      DATE SURVEYED: OCT 1984

**MPH CONSULTING LIMITED**

INDUCED POLARIZATION AND RESISTIVITY SURVEY



SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 41006  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,347

A-SPACING= 100 M

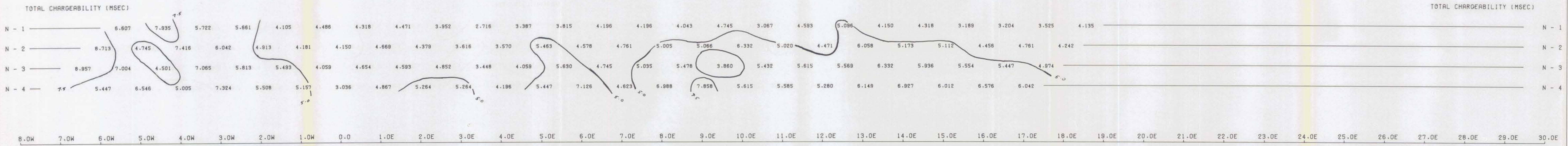
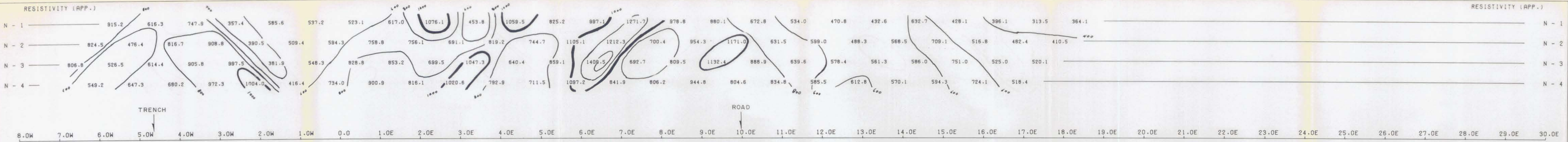
POLE-DIPOLE ARRAY

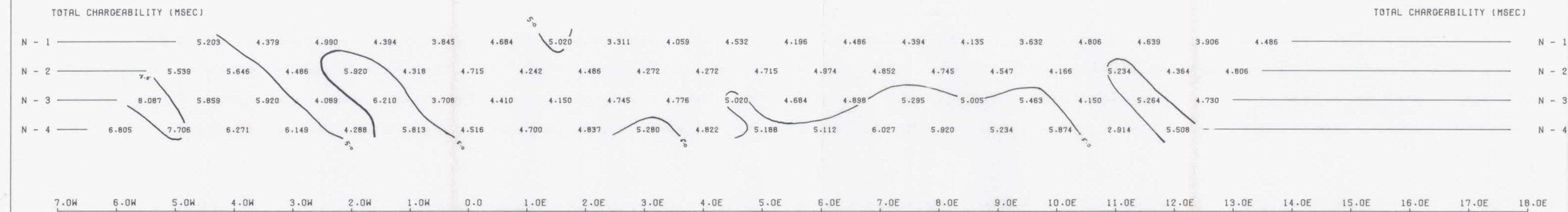
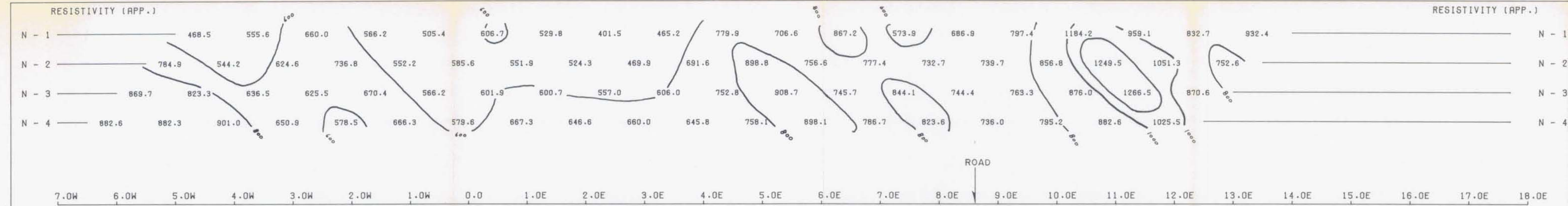
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY





N - 1 \_\_\_\_\_ N - 1

N - 2 \_\_\_\_\_ N - 2

N - 3 \_\_\_\_\_ N - 3

N - 4 \_\_\_\_\_ N - 4

Plate: 275-84-23

SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 43005

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,347**

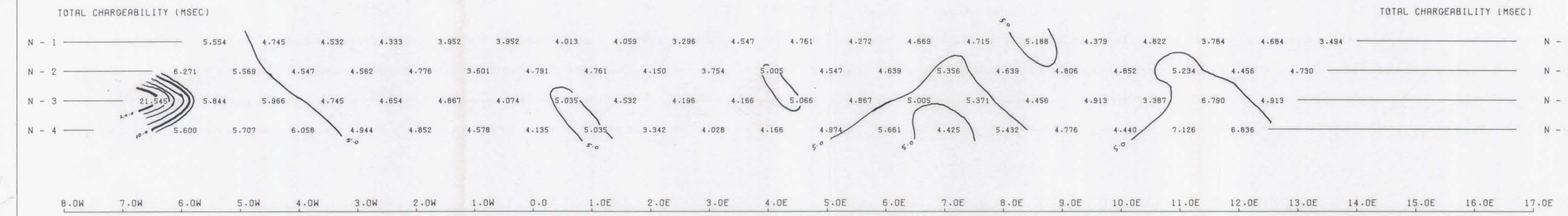
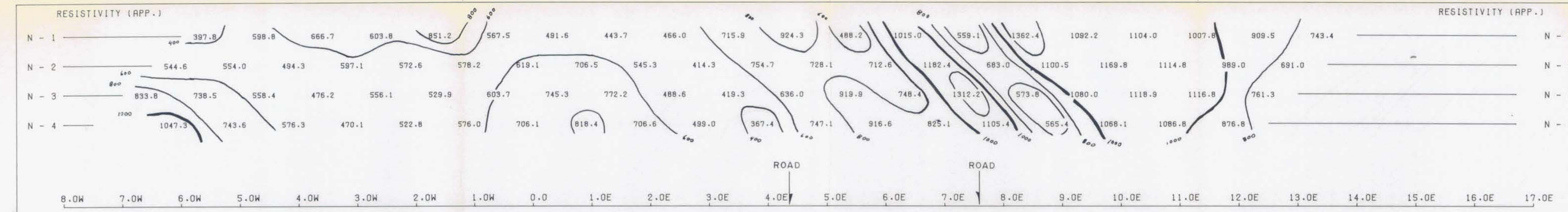
A-SPACING= 100 M

POLE-DIPOLE ARRAY  
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



N - 1 \_\_\_\_\_ N - 1

N - 2 \_\_\_\_\_ N - 2

N - 3 \_\_\_\_\_ N - 3

N - 4 \_\_\_\_\_ N - 4

Plate : 275-84-24

SHEBA COPPER  
 HIGHLAND VALLEY, B.C.  
 COMINCO LTD.

LINE NO. - 45005  
**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**13,347**

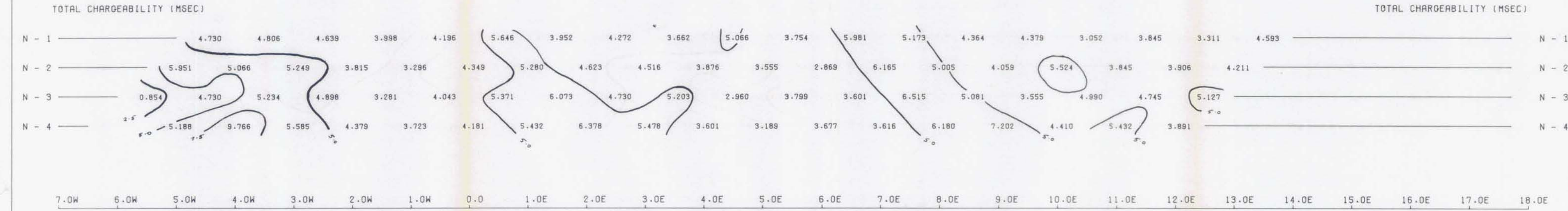
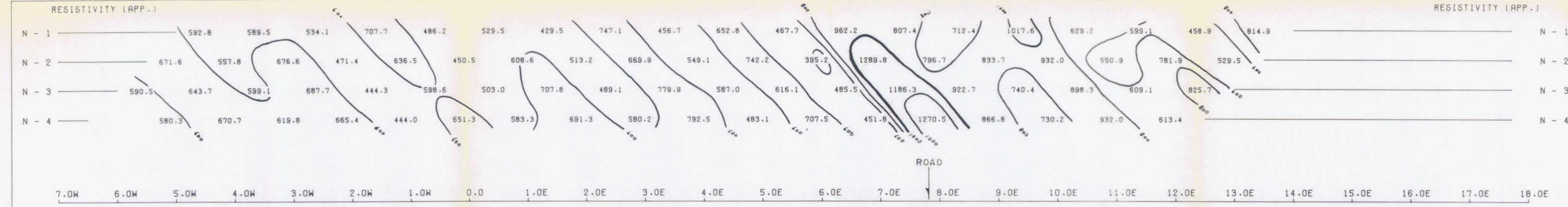
A-SPACING= 100 M

POLE-DIPOLE ARRAY  
 OPERATOR : D. MORRISON  
 TRANSMITTER : HUNTEC 7.5KW  
 RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



N - 1 \_\_\_\_\_ N - 1

N - 2 \_\_\_\_\_ N - 2

N - 3 \_\_\_\_\_ N - 3

N - 4 \_\_\_\_\_ N - 4

Plate: 275-84-25

SHEBA COPPER  
HIGHLAND VALLEY, B.C.  
COMINCO LTD.

LINE NO. - 47005  
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,347**

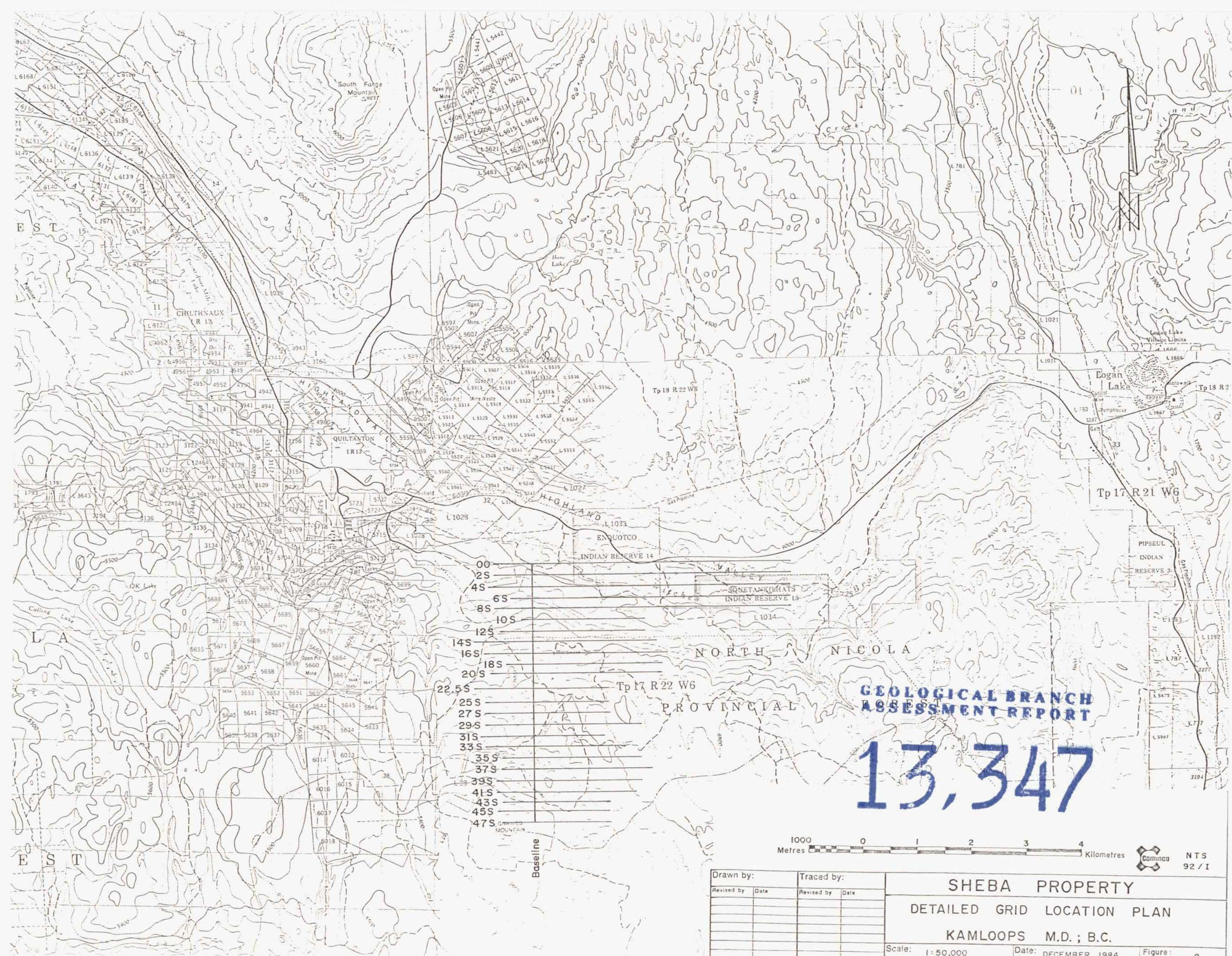
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POLE-DIPOLE ARRAY  
OPERATOR : D. MORRISON  
TRANSMITTER : HUNTEC 7.5KW  
RECEIVER : HUNTEC MK IV

SCALE - 1:5000 DATE SURVEYED: OCT 1984

MPH CONSULTING LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

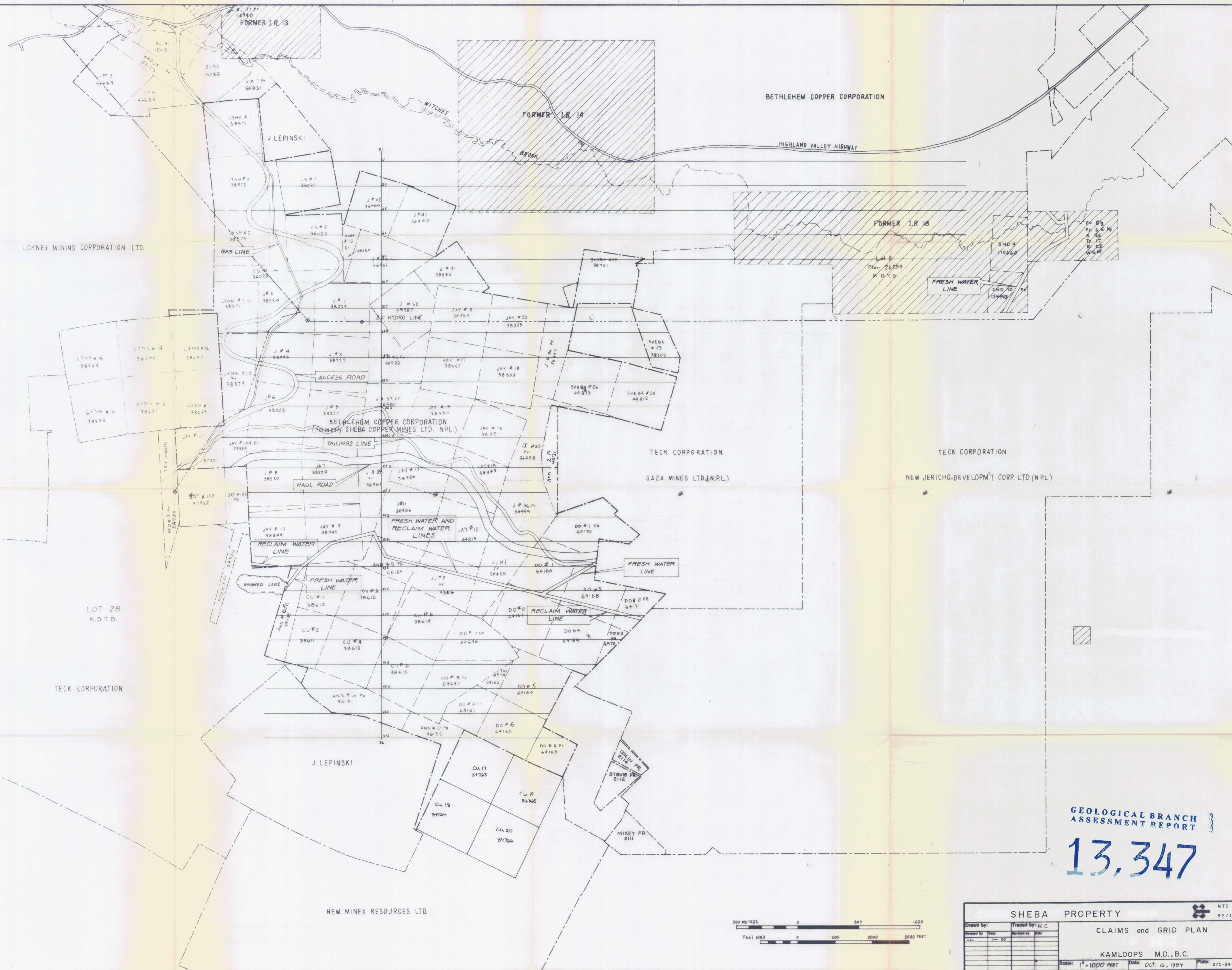


**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,347**



Drawn by:	Traced by:	<b>SHEBA PROPERTY</b>	
Revised by	Revised by		
Date	Date	<b>DETAILED GRID LOCATION PLAN</b>	
		<b>KAMLOOPS M.D.; B.C.</b>	
		Scale: 1:50,000	Date: DECEMBER 1984
			Figure: 2



LORNE MINING CORPORATION LTD.

BETHLEHEM COPPER CORPORATION

FORMER I.R. 18

BETHLEHEM COPPER CORPORATION  
FORMER SHEBA COPPER MINES LTD. (N.P.L.)

TECK CORPORATION

TECK CORPORATION

GAZA MINES LTD. (N.P.L.)

NEW JERICHO DEVELOPMENT CORP. LTD. (N.P.L.)

LOT 28  
K.D.Y.D.

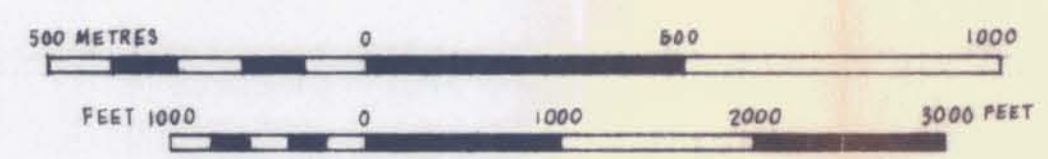
TECK CORPORATION

J. LEPINSKI

NEW MINEX RESOURCES LTD.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,347



SHEBA PROPERTY		NTS 92/1
Drawn by:	Traced by: N.C.	CLAIMS and GRID PLAN
Checked by:	Revised by:	KAMLOOPS M.D., B.C.
Scale: 1" = 1000 FEET	Date: Oct. 16, 1984	Plate: 275-84-1