EXPLORATION

NTS: 92 I/6

WESTERN DISTRICT

GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION AND RESISTIVITY SURVEYS

ISLAND PROPERTY

HIGHLAND VALLEY AREA, KAMLOOPS M.D., B.C.

Latitude : 50°27'N Longitude: 121°08'W

FIELD WORK PERFORMED : JULY 12, 19-31, and AUGUST 4, 1982

CLAIMS : ISLAND 5, 10, 11, 12, 17

OWNER AND OPERATOR : COMINCO LTD.

GEOLOGICAL BRANCH ASSESSMENT REPORT

1.017

J. KLEIN

SEPTEMBER 1982

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	229-82-2	CLAIM AND GRID PLAN Scale 1:50,000
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REFERENCES : GEOPHYSICAL REPORT ON I.P. AND MAG SURVEYS, ISLAND PROPERTY, DATED JUNE 2, 1980 by A.R. SCOTT

> GEOPHYSICAL REPORT ON AN I.P. SURVEY, ISLAND PROPERTY, DATED DECEMBER 22, 1981 by J. KLEIN

GEOPHYSICAL REPORT ON I.P. AND RESISTIVITY SURVEYS, ISLAND PROPERTY, DATED AUGUST 1982 by J. KLEIN

#### COMINCO LTD.

EXPLORATION

NTS: 92 I/6

WESTERN DISTRICT

#### GEOPHYSICAL REPORT ON INDUCED POLARIZATION AND RESISTIVITY SURVEYS ISLAND PROPERTY HIGHLAND VALLEY AREA, KAMLOOPS M.D., B.C.

#### INTRODUCTION

During the period July 12, 19-31 and August 4, 1982, approximately 32 km of reconnaissance scale multiseparation, induced polarization and resistivity survey work was completed over portions of the ISLAND property. This I.P./ Res. work was conducted by a COMINCO LTD. crew under the direction of Mr. I. Jackisch, geophysicist.

The ISLAND property is located in the Highland Valley area of B.C., some 6 km west of the Lornex Mine. Plate 1 shows the general location of the property and Plate 2 shows the location of the present survey lines (in red) with respect to the claims and previous I.P. coverage (black lines) on the claim block.

The objective of this survey, which is a continuation of surveys conducted in 1980 and 1981, was to map the existence of any sulphides and other polarizable sources in the grid area.

This report describes procedures used for this survey, presents the data and discusses the results.

#### INDUCED POLARIZATION AND RESISTIVITY SURVEYS

Two Huntec MK IV I.P. receivers in combination with a Huntec 7.5 kw motor generator/transmitter were used on the ISLAND survey. Readings were taken in the time domain using a 2 second current ON/2 second current OFF alternating square wave signal. A delay time of 120 milliseconds and total integration time of from 120 msecs. to 1020 msecs. were used to measure the I.P. effect. Chargeability values are given in units of milliseconds.

The survey was of a regional reconnaissance nature with survey lines 400 meters apart. A pole-dipole electrode array was used with an "a" spacing of 100 meters and "n" separations of 1, 2, 3 and 4. The direction of the current electrode with respect to the potential electrodes is indicated on the pseudosections. The apparent resistivity values are given in units of ohm meters and were calculated from the relation:

apparent resistivity =  $(V/I) \cdot K$ ,

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

#### DISCUSSION OF RESULTS

The induced polarization survey results are plotted in pseudosection format on accompanying Plates 229-82-4 to 9. The chargeability response has been categorized on the sections in the following manner (which are the same as for the previous surveys on this property : see References):-

strong I.P. high (greater than 10 msecs. at near separations)

- 2 -

moderate I.P. high (greater than 8 msecs. at near separations)

> 5 msecs. at further separations

The n=1 chargeability results are also presented in contour plan form on Plates 229-82-11 and 12. Plate 11 shows the data for Lines 3600S to 4800S, while Plate 12 shows it for Lines 8800S to 11600S. Anomaly symbols from the pseudosections are given on the plans.

The chargeability values of the lines surveyed show mainly background levels (< 5 msecs.); a few values rise slightly above this level but no significance can be attributed to them.

#### CONCLUSIONS

A 30 line km induced polarization/resistivity survey was executed over a portion of the ISLAND property. The values measured were of background level only and uninteresting from an economic point of view. No further work can be recommended on that portion of the property covered with the present survey.

Report by: J. Klein Chief Geophysicist

Approved for Release:

G. Harden

Manager, Exploration Western District

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JK/jel

DISTRIBUTION:

Mining Recorder	(2)
Western District	(1)
Vernon Exploration Office	(1)
Geophysics File	(1)
Administration	(1)

#### APPENDIX I

IN THE MATTER OF THE B.C. MINERAL ACT

AND IN THE MATTER OF A GEOPHYSICAL PROGRAM

CARRIED OUT ON PORTIONS OF ISLAND MINERAL CLAIMS 5, 10, 11, 12 AND 17

#### ON THE ISLAND PROPERTY

LOCATED IN THE HIGHLAND VALLEY AREA, KAMLOOPS MINING DIVISION, B.C. OF THE PROVINCE OF BRITISH COLUMBIA, MORE PARTICULARLY

N.T.S.: 921/11

#### STATEMENT

I. JAN KLEIN, OF THE CORPORATION OF RICHMOND, 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 ISLAND Property;
- 3) THAT the said expenditures were incurred for the purpose of mineral exploration of the above-noted claims between the 12th day of July and the 4th day of August, 1982.

Signed:

Klein

Chief Geophysicist

September 1982

# APPENDIX II

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# STATEMENT OF EXPENDITURES

### ISLAND PROPERTY

# (INDUCED POLARIZATION AND RESISTIVITY SURVEY JULY 12 AND 19 - 31 AND AUGUST 4, 1982)

32 KM @ \$1,000/KM

\$ 32,000

1

SEPTEMBER 1982

#### APPENDIX III

#### CERTIFICATION

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

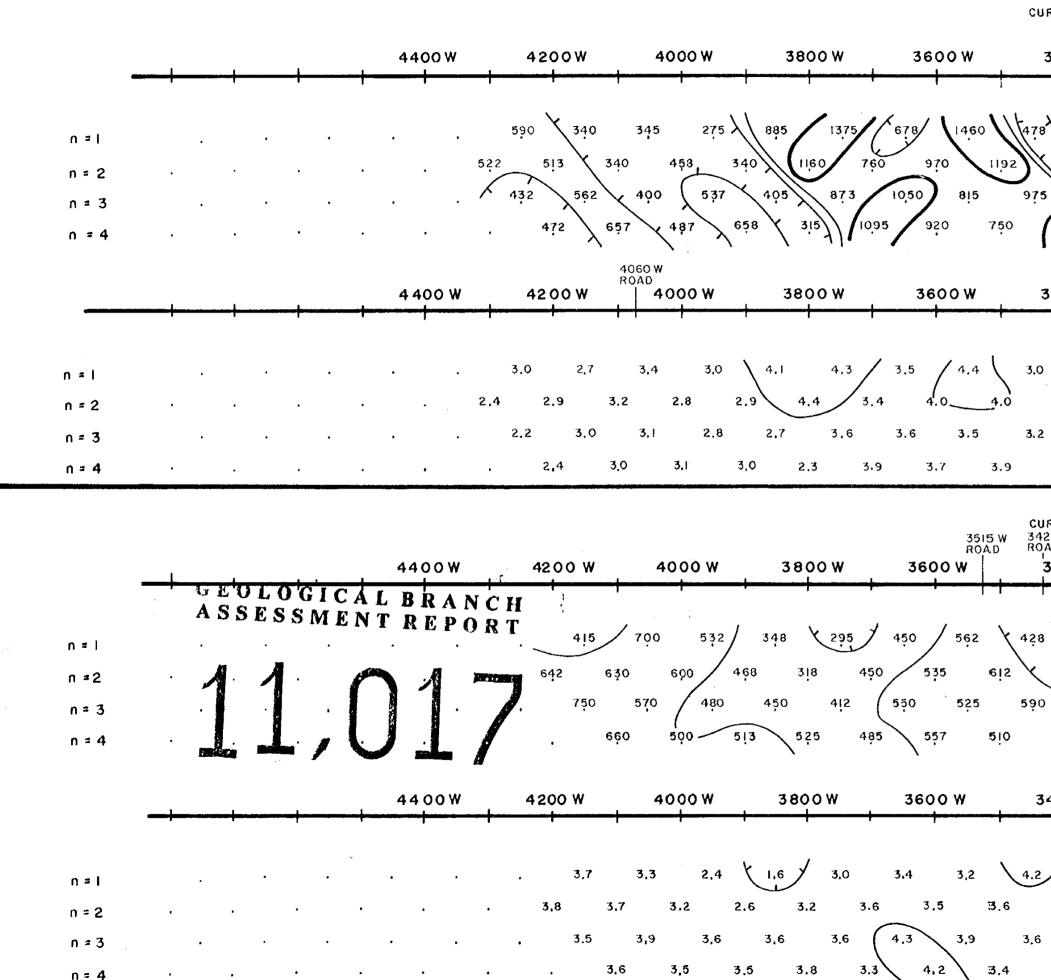
- THAT I graduated from the Technological University of Delft Netherlands in 1965 with a M.Sc. in Geophysics;
- 2) THAT I am a member of the Association of Professional Engineers of the Province of British Columbia, the Society of Exploration Geophysicists of America, and the British Columbia Geophysical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

Signed:

J. Klein Chief Geophysicist

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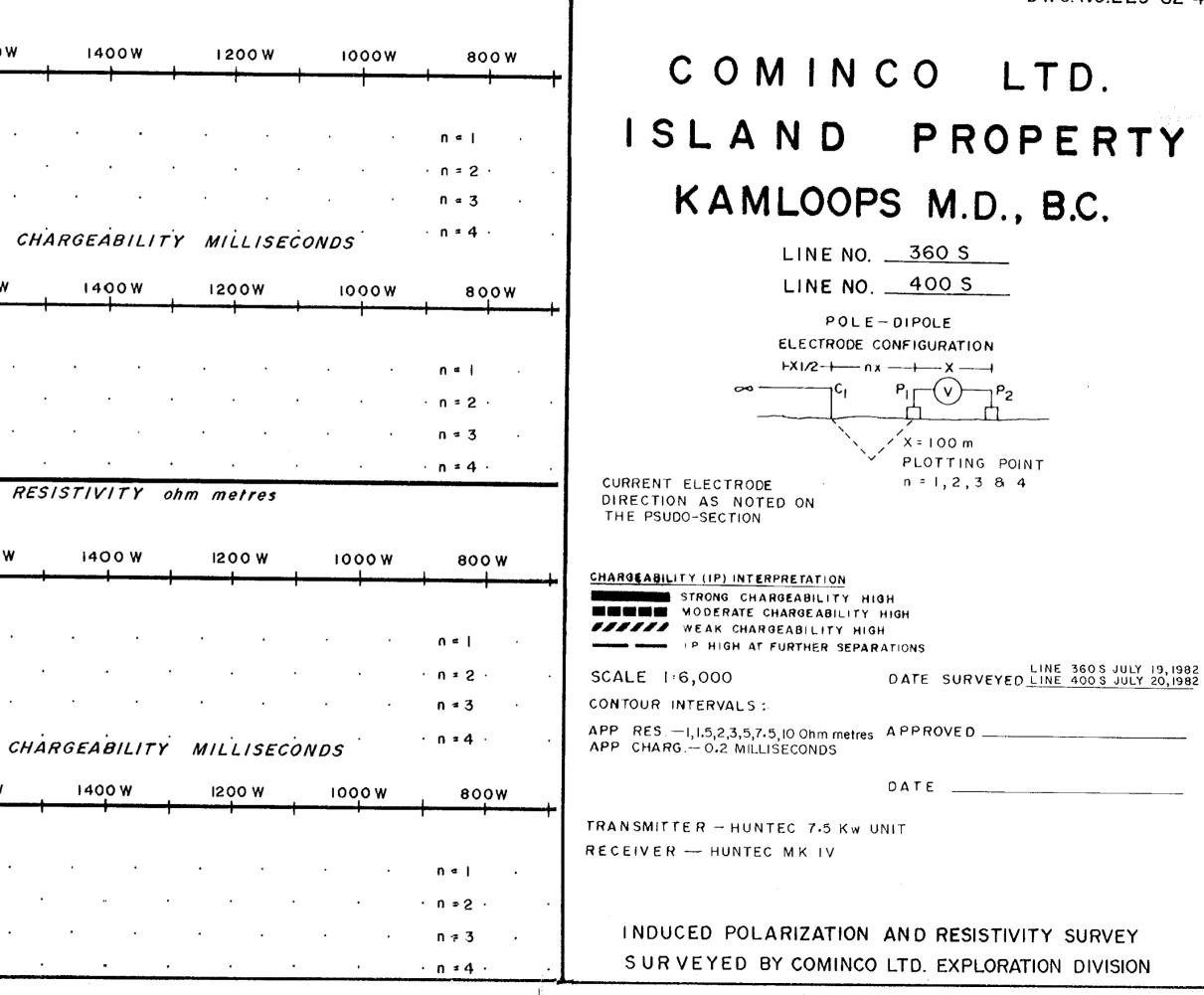
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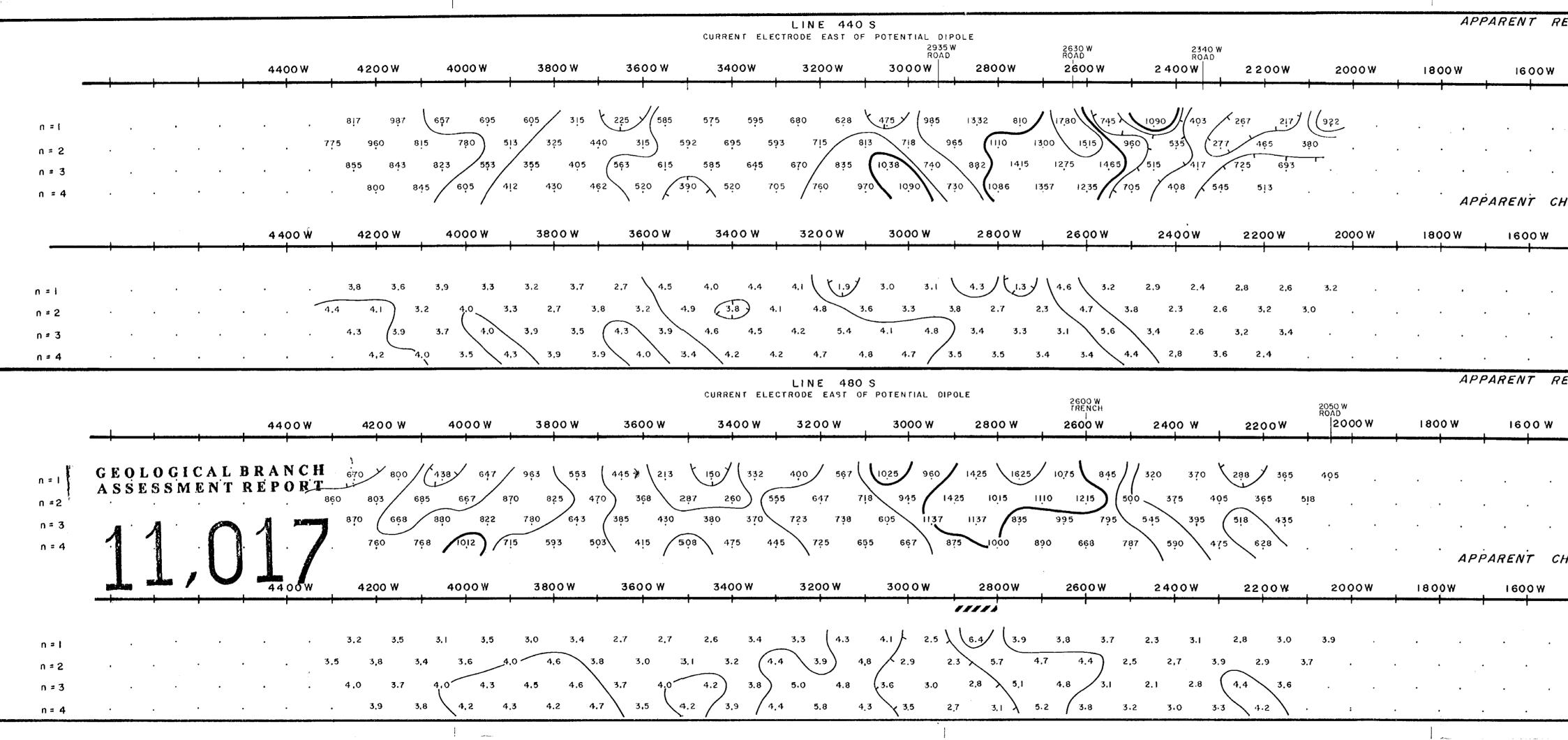
RESISTIVITY ohm metres

N.T.S. 92-1-6

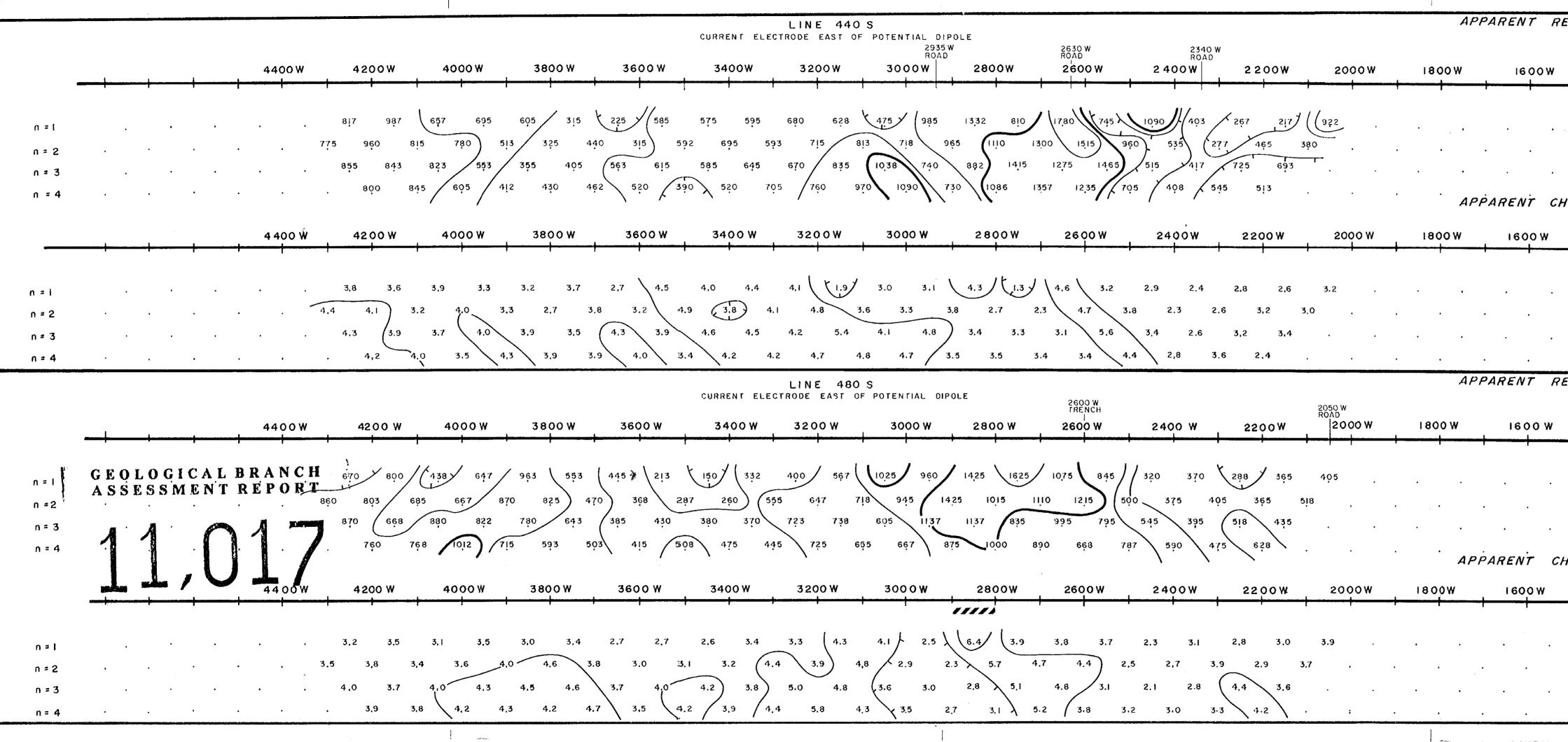
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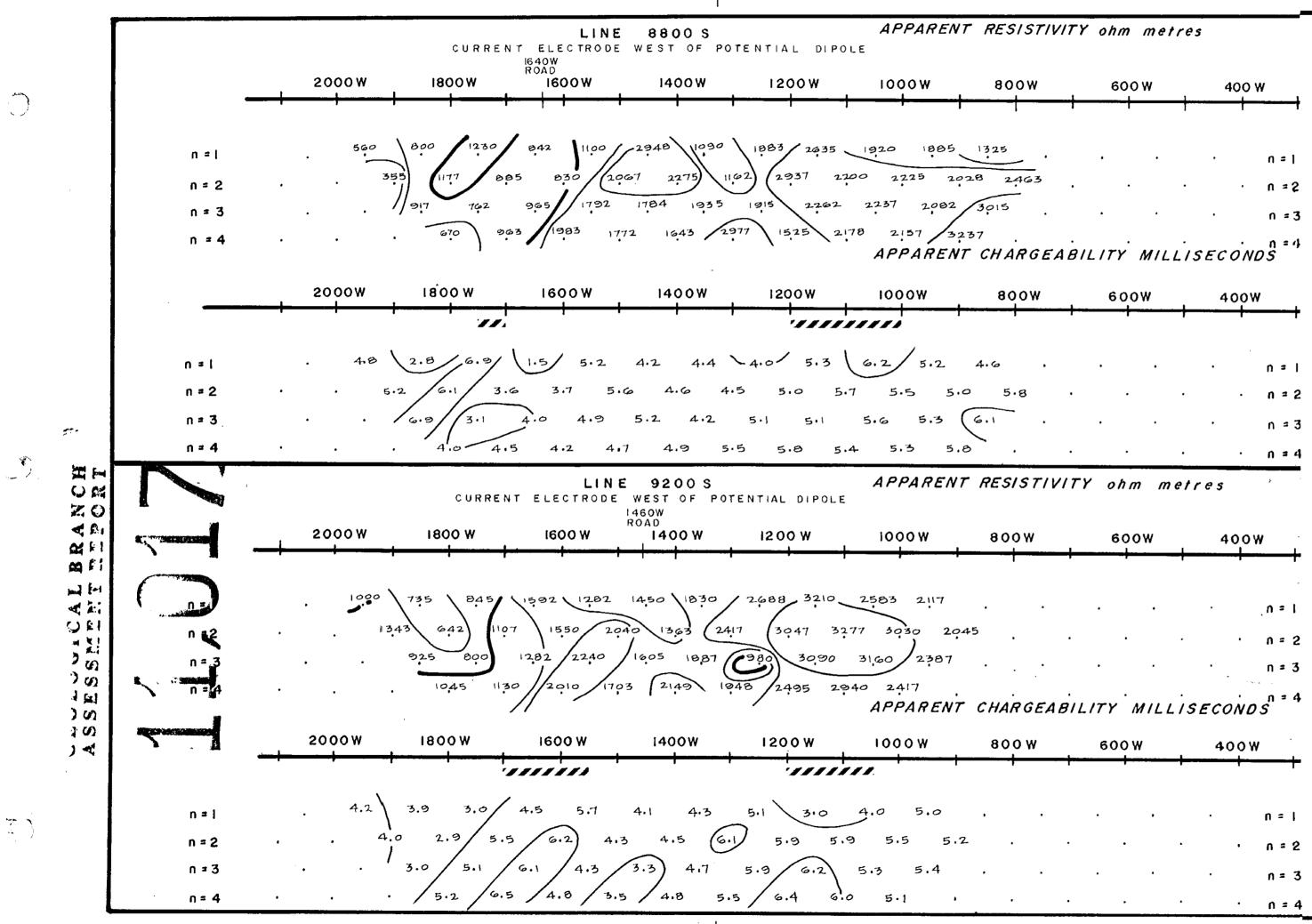
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T RES	SISTIVITY a	ohm metres			N.T.S. 92-1-6 DWG. NO.229-82-1
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r CHÁ	RGEABILITY	, MILLISEC	onds '	· n = 4 ·	LINE NO. 440 S
ow	1400W	1200W	1000W	800W	LINE NO. <u>480 S</u>
	<u>├</u>	<del>}</del>	<del>⊧</del>	•• <b>F</b> ······	POLE - DIPOLE ELECTRODE CONFIGURATION
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• n = 4 •

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







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N.T.S. 92-1-6

DWG. NO.229-82-6

# COMINCO LTD. SLAND PROPERTY KAMLOOPS M.D., B.C.

LINE NO. 8800 S LINE NO. 9200 S

POLE-DIPOLE ELECTRODE CONFIGURATION

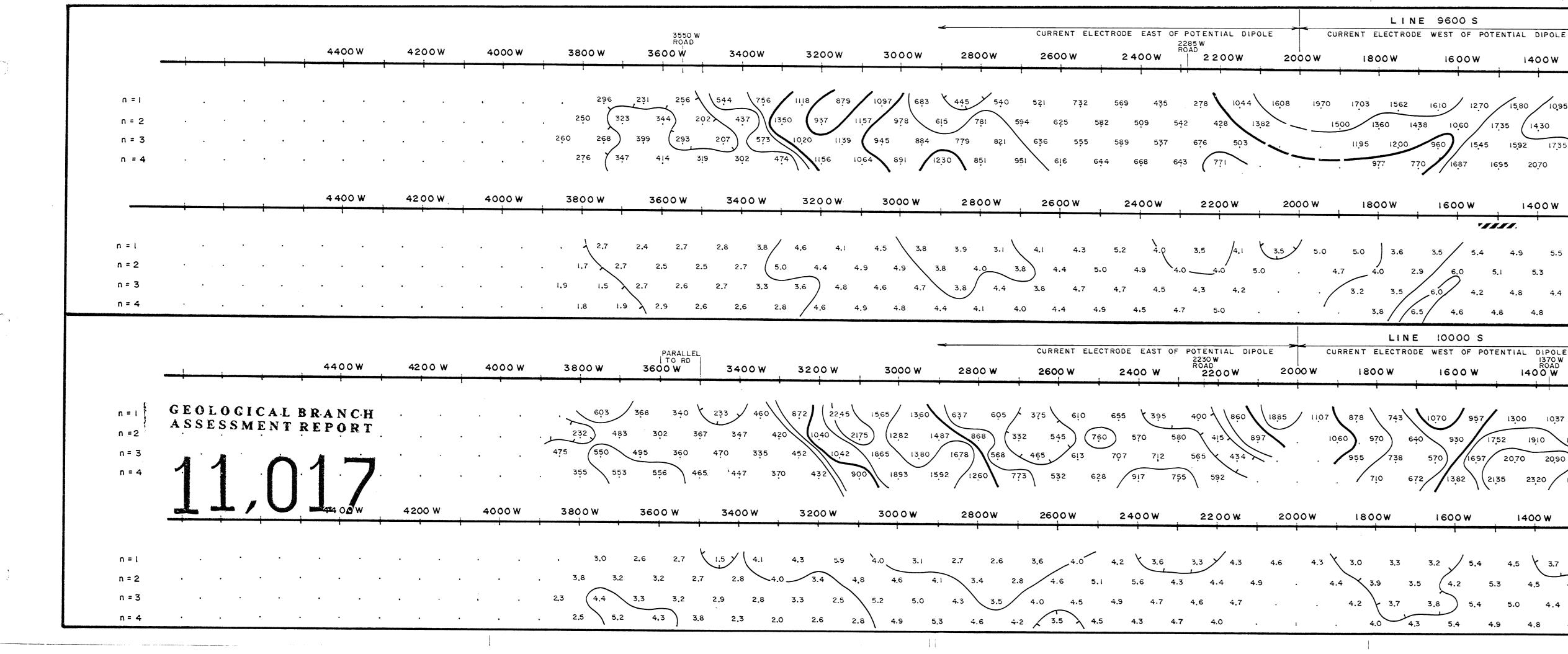
+X1/2-+----X ----+ X = 100 m PLOTTING POINT

n = 1, 2, 3, 8, 4

CURRENT ELECTRODE DIRECTION AS NOTED ON THE PSUDO-SECTION

CHARGEABILITY (IP) INTERPRETATION STRONG CHARGEABILITY HIGH MODERATE CHARGEABILITY HIGH **UTATION** WEAK CHARGEABILITY HIGH - IP HIGH AT FURTHER SEPARATIONS LINE 8805 JULY 24,1982 SCALE 1:6,000 DATE SURVEYED LINE 9205 JULY 25,1982 CONTOUR INTERVALS : APP RES -1, 1.5, 2, 3, 5, 7.5, 10 Ohm metres APPROVED APP CHARG - 0.2 MILLISECONDS DATE TRANSMITTER - HUNTEC 7.5 KW UNIT RECEIVER - HUNTEC MK IV

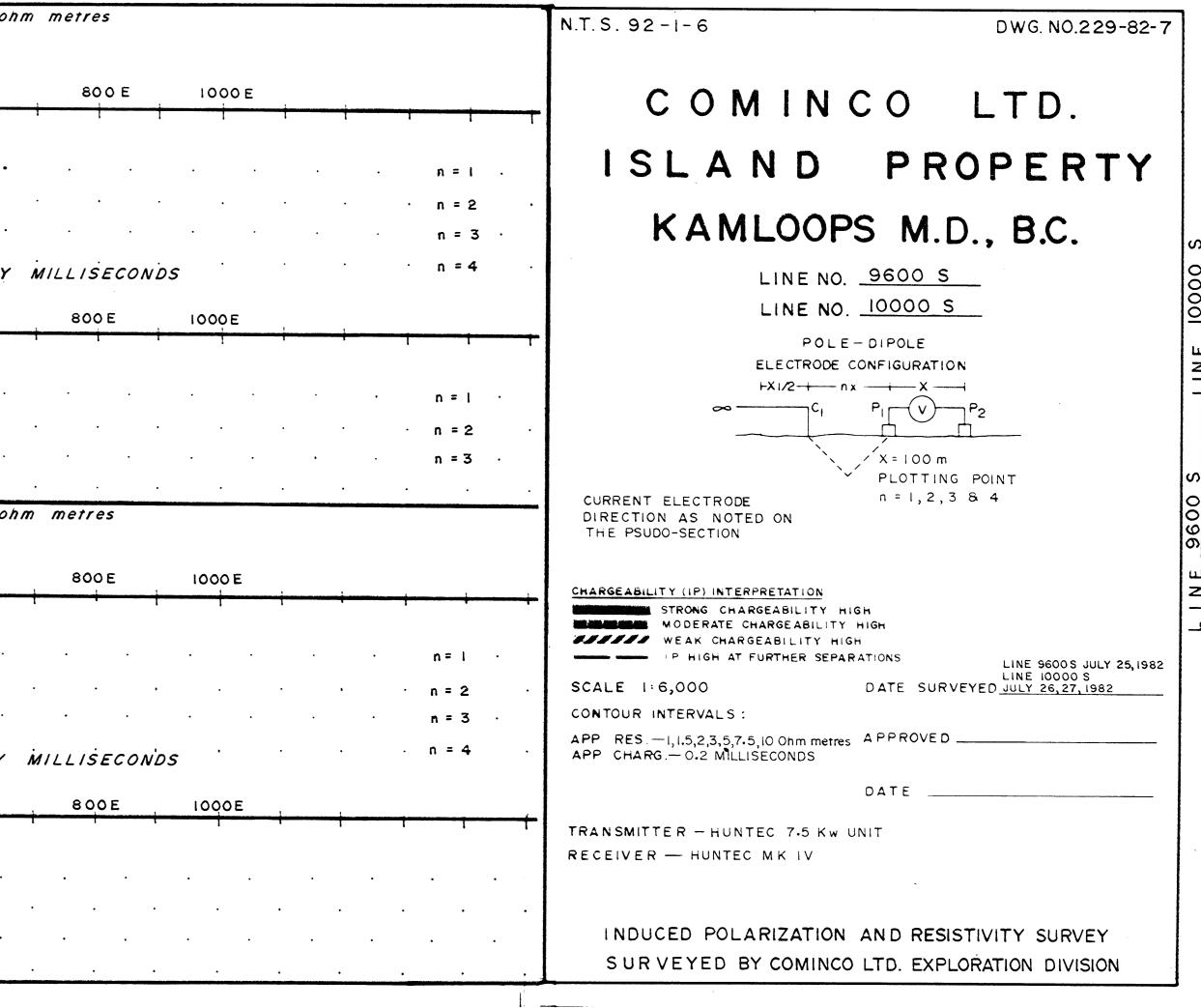
INDUCED POLARIZATION AND RESISTIVITY SURVEY SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

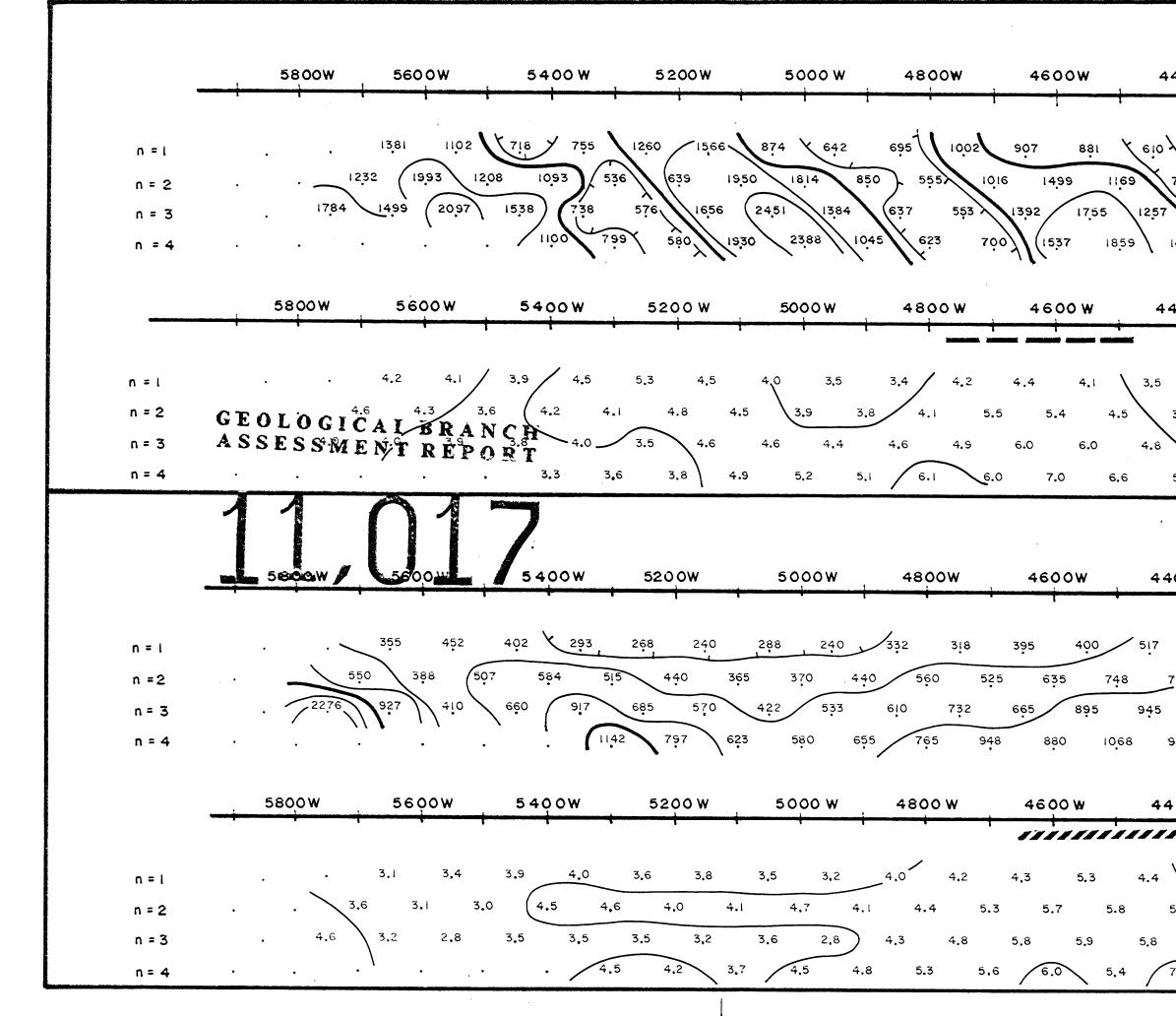


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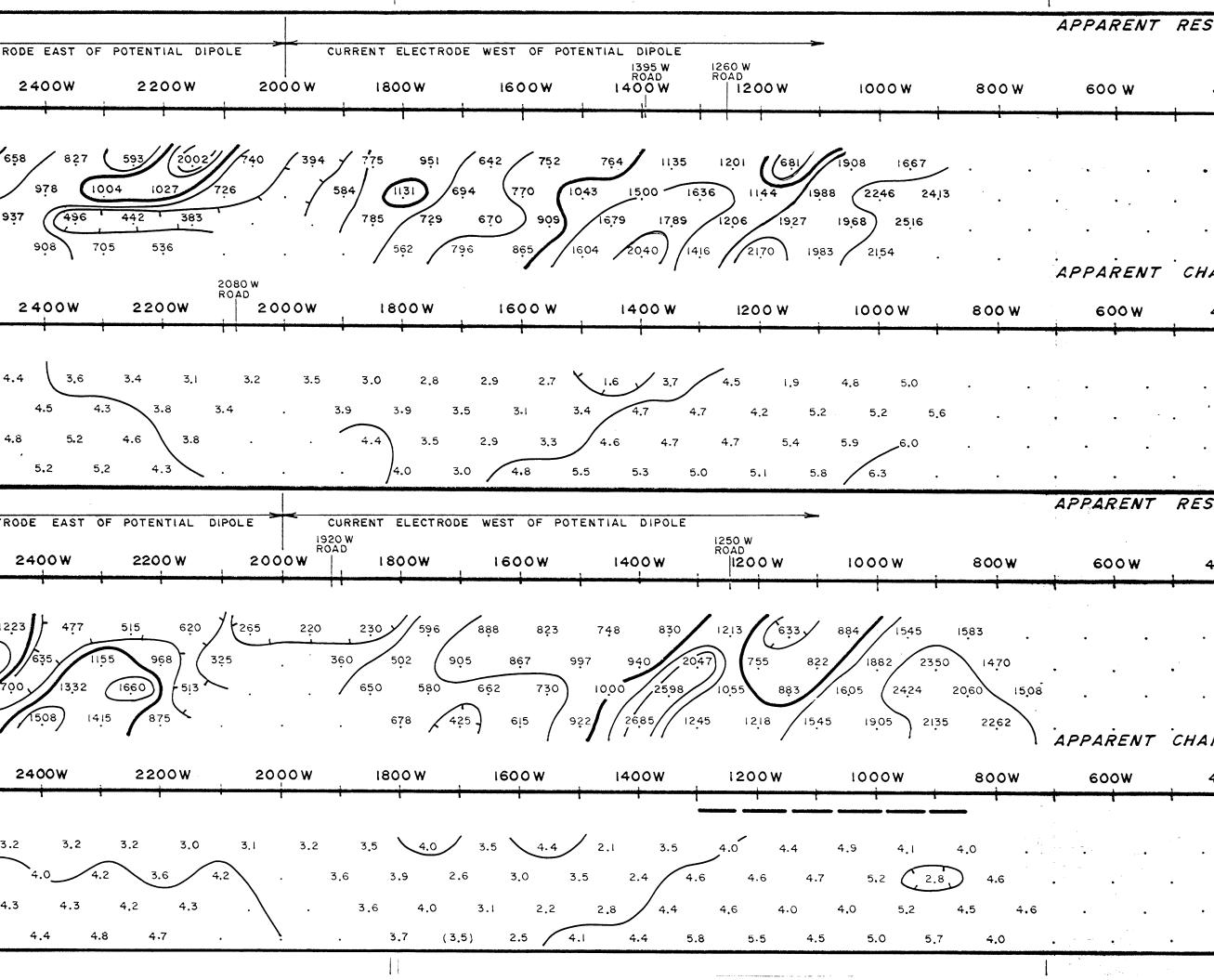




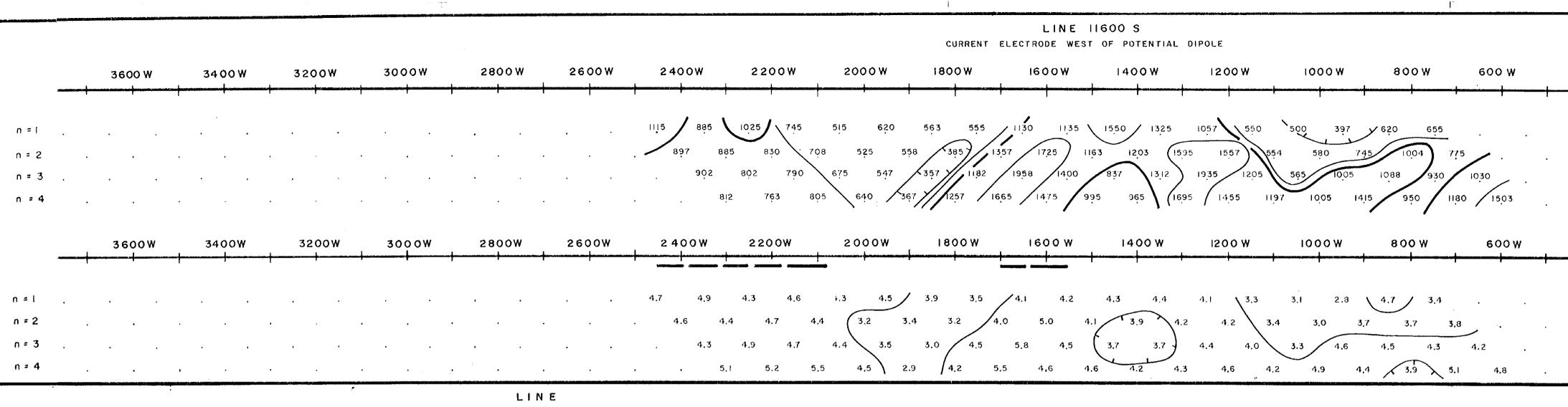
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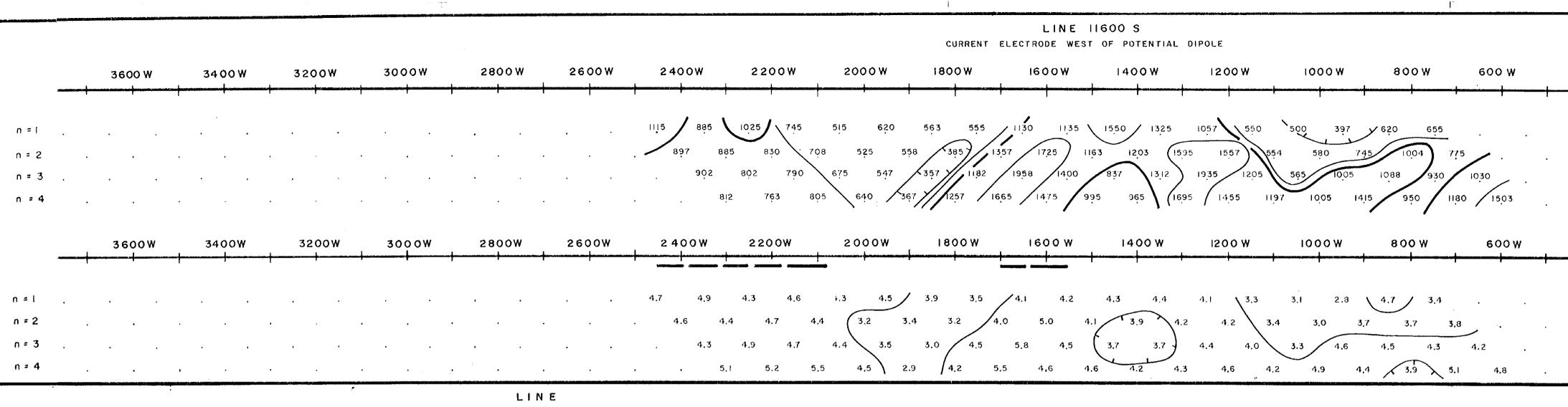
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ESISTIVITY	Y ohm metre	5		N.T.S. 92-1-6 DWG. NO.229-82-8
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• .	• •	• .	· n=l·	ISLAND PROPERTY
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• •		• .	· n = 3 ·	KAMLOOPS M.D., B.C.
HARGEABI	LITY MILLI	SECONDS	n = 4	LINE NO. 10400 S
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				ELECTRODE CONFIGURATION
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•		•	n = 4	
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				THE PSUDO-SECTION
400 W	200 W	0	200 E	CHARGEABILITY (IP) INTERPRETATION
			· · · · · · · · · · · · · · · · · · ·	Internet Strong Chargeability High -   Internet Moderate Chargeability High _
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<b>.</b> .	• • •	•	n = 2	LINE 10800 S   SCALE 1:6,000 DATE SURVEYED JULY 29,30, 1982
· ·	• •	· .	· n = 3 ·	CONTOUR INTERVALS :
ARĜEABIL	ITY MILLIS	SECONDS	· n=4 ·	APP RES
400 W	200 W	0	200 E	DATE
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				RECEIVER - HUNTEC MK IV
• •	· .	· ·	• n = l •	
••••	• • •	• •	n = 2	INDUCED POLARIZATION AND RESISTIVITY SURVEY
• •	· · ·	• •	n = 3 n = 4	SURVEYED BY COMINCO LTD. EXPLORATION DIVISION
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n = 4				• •			•			· .		• • •		• •		• •	•

	3600W	3400 W	3200 W	3000W	2800W	2600 W	2 <sup>,</sup> 400W	2200W	2000 W	1800 W	1600W	1400W	1200W	1000W	800W	600W	400
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n=1.	•	. <b>.</b>	. <i>.</i>		. • •		· ·	· ·		. ,	· ·	· ·	· ·	· .		• •	
n = 2 .	. ,			• • •	• • •	•			· · ·				<i>,</i> .	• .	. ,	, •	• •
n≠3,		· •	• •		• •					• •		• •		• •	• . •		

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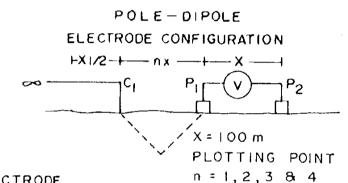
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DWG. NO,229-82-9

LINE HIGOO S

# COMINCO LTD. ISLAND PROPERTY KAMLOOPS M.D., B.C.

LINE NO. 11600 S



CURRENT ELECTRODE DIRECTION AS NOTED ON

THE PSUDO-SECTION

CHARGEABILITY (IP) INTERPRETATION STRONG CHARGEABILITY HIGH MODERATE CHARGEABILITY HIGH **UTTERNE WEAK CHARGEABILITY HIGH** P HIGH AT FURTHER SEPARATIONS DATE SURVEYED JULY 30, 31, 1982 SCALE 1:6,000 CONTOUR INTERVALS : APP RES. --- 1, 1.5, 2, 3, 5, 7.5, 10 Ohm metres APPROVED \_\_\_\_\_ APP CHARG. --- 0.2 MILLISECONDS GEOLOGICAL BRANCH A<sup>GA</sup>SESSMENT REPORT

TRANSMITTER - HUNTEC 7.5 KW UNIT RECEIVER - HUNTEC MK IV

> INDUCED POLARIZATION AND RESISTIVI SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

400W	200 W	0	200 E
	1	1	ann an
• .	· .	• .	n = 1
	• •	•	n = 2
		•	n = 3
	· .	• • •	n = 4
400 W	200 W	0	200 E
·····	ł		
. <i>,</i>	· ·	· .	• • • • • • • • • • • • • • • • • • •
•		• • •	n = 2
· · ·	· .	• •	n = 3
•		·	n = 4
400 W	200 W	0	200 E
400 W	200 W	0	200 E
400 W	200 W	0	
400 W	200 W	<b>┝───</b> ↓ 	. U ≂ I .
400 W	200 W	0 	
400 W	200 W	╞ <del>╺╺╍</del> · · · · · ·	n = 1 n = 2 n = 3
· · ·	• • •	╞ <del>╺╺╍</del> · · · · · ·	n = 1 n = 2 n = 3 n = 3 n = 4
· · ·	• • • • • •	╞ <del>╺╺╍</del> · · · · · ·	n = 1 n = 2 n = 3 n = 4 200 E
· · ·	• • •	╞ <del>╺╺</del> · · · · · ·	n = 1 n = 2 n = 3 n = 3 n = 4
· · ·	• • •	╞ <del>╺╺</del> · · · · · ·	n = 1 n = 2 n = 3 n = 4 200 E
400 W	• • •	╞ <del>╺╺</del> · · · · · ·	n = 1 n = 2 n = 3 n = 4 200 E
400 W	• • •	┝ · · · · · · · · · · · ·	n = 1 n = 2 n = 3 n = 4 200 E n = 1



