

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 93L/7E

GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION AND MAGNETOMETER SURVEYS

ON THE

BUCK CREEK PROPERTY

HOUSTON AREA; OMINECA MINING DIVISION, B.C.

LATITUDE: 54°18'N

LONGITUDE: 126°38'W

FIELD WORK PERFORMED: AUGUST 6 - 15, 1981

ON CLAIMS: BUCK, LORNE, CLOUD AND BETH 4

24 DECEMBER 1981

J. KLEIN

10,166  
PART  
202

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ATTACHMENTS

213-81-1	General Location Map (scale 1:250,000)
213-81-2	Claim and Grid Map (scale 1:50,000)
213-81-3	Chargeability Contour Plan (n=1)
213-81-4	Apparent Resistivity Contour Plan (n=1)
213-81-5	Magnetic Field Contour Plan
213-81-6 to 20	Chargeability/Apparent Resistivity Pseudosections, Magnetic Field Profiles

COMINCO LTD.

EXPLORATION

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NTS: 93L/7E

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ON

INDUCED POLARIZATION AND MAGNETOMETER SURVEYS

ON THE

BUCK CREEK PROPERTY

HOUSTON AREA; OMINECA MINING DIVISION, B.C.

INTRODUCTION

During the period August 6 - 18, 1981, a Cominco geophysical crew completed induced polarization and magnetometer surveys over portions of the BUCK CREEK property. A total of 15 lines were surveyed, 7.7 line kilometers at 50 meter electrode spacing (n=1,2,3), and 8.7 line kilometers at 100 meter electrode spacing (n=1 and 2).

The BUCK CREEK property is located 9.6 kilometers south of Houston, B.C. Plate 1 shows the general location of the property, and Plate 2 the location of the survey lines with respect to the claims.

This report describes the methodology of the surveys, presents the data, and discusses the geophysical results.

GEOLOGY AND HISTORY

The property comprises a window of Mesozoic rocks underlying andesites of Oligocene Age. The Mesozoic rocks of unknown age are dominantly acid and intermediate composition pyroclastic and flow rocks with minor argillaceous sediments, intruded by quartz-feldspar, porphyry and gabbro. Placer gold was found in the area in the early 1900's and traced to a gossanous outcrop on the property.

Since 1914, prospecting for Au, Ag, Zn, and Cu has been done on and off. Trenching and drilling indicated mineralization, but not of grade and volume to be economically mineable.

## GEOPHYSICAL SURVEYS

### Induced Polarization

A Huntex M-4 I.P. receiver in combination with a Phoenix IPT-1 transmitter was deployed on the I.P. 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 integration time of 900 milliseconds were used to measure the I.P. effect. The normalized chargeability values are in units of milliseconds.

A pole-dipole electrode array was used on the survey with an "a" spacing of 50 m and "n" separations of 1, 2, and 3 on Lines 9175N - 10000N, and an "a" spacing of 100 m at n=1 and 2 on Lines 8065N to 9015N. The current electrode was kept to the west on all the survey lines.

The apparent resistivity results are in units of ohm meters and were calculated from the relation:-

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

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





### Magnetometer Survey

A Scintrex MP-2 total field proton precision magnetometer was used for the megnetics survey. The field data was corrected for diurnal drift by reference to a fixed base station. The data is plotted and contoured with a base value of 57.000 gammas subtracted.

## DISCUSSION OF RESULTS

The I.P. (chargeability) and apparent resistivity results are presented in pseudosection format on Plates 6 to 20. This is a schematic form of data presentation and no specific target depth or geometry is implied by it. The magnetic field values are plotted as line profiles on the pseudosections. Additionally, the near separation (n=1) chargeability and apparent resistivity results are plotted in contour plan form on Plates 3 and 4 respectively. Plate 5 is a magnetic field contour plan.

Chargeability anomalies have been categorized on the pseudosections as follows:-

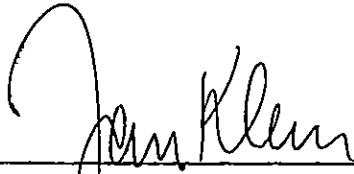
-  strong chargeability high (> 30 msec.)
-  moderate chargeability high (20-30 msec.)
-  weak chargeability high (10-20 msec.)
-  greater than 10 msec. at further separation


The chargeability results reveal a near circular high (> 20 msec) centered near 9550N - 9E. This 500 m diameter feature coincides quite well with higher resistivity values (> 200 ohm meters). Lesser chargeability highs trend away from the main feature in a SSW and slightly East of South direction. Again, slight resistivity highs correlate with the higher chargeability values. The magnetic values over the I.P. high are slightly less and somewhat more variable than those observed over the remainder of the grid. The lack of outcrop on the property prohibits a correlation of the geophysical data with the geology.

CONCLUSION

A circular chargeability high correlates with a resistivity high and magnetic depression. The combination of the data does not suggest that it reflects changes in overburden thickness but rather it reflects true changes in lithologies. This anomaly most likely reflects an increase in pyrite and silicification. The source of the weaker chargeability anomalies is unknown.

It is recommended that a detailed soil survey be executed over the anomalous area prior to any further investigative work.

Report by:   
J. Klein  
Chief Geophysicist

Approved for Release:   
G. Harden, Manager  
Exploration  
Western District

DISTRIBUTION:

Mining Recorder	(2)
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APPENDIX I

IN THE MATTER OF THE B.C. MINERAL ACT  
AND IN THE MATTER OF A GEOPHYSICAL PROGRAM  
CARRIED OUT ON PORTIONS OF THE BUCK, LORNE, CLOUD AND BETH 4  
MINERAL CLAIMS

ON THE BUCK CREEK PROPERTY  
LOCATED IN THE HOUSTON AREA, OMINECA MINING DIVISION, B.C.

OF THE PROVINCE OF BRITISH COLUMBIA, MORE PARTICULARLY

N.T.S.: 93L/7E

S T A T E M E N T

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 Buck Creek property;
- 3) THAT the said expenditures were incurred for the purpose of mineral exploration of the above-noted claims, between the 6th day and the 15th day of August, 1981.

Signed: \_\_\_\_\_

  
J. Klein  
Chief Geophysicist

24 December 1981

APPENDIX II

STATEMENT OF EXPENDITURES

BUCK CREEK PROPERTY

(INDUCED POLARIZATION, MAGNETOMETER SURVEYS)

1. SALARIES

B. Lum, geophysicist August 8-13, 16-18	9 days @ \$135	\$ 1,215.00	
G. Nolan, technician August 8-13, 16-18	9 days @ \$110	990.00	
J. Allan, helper August 6-18	13 days @ \$ 93.30	1,212.90	
B. Price, helper August 6-18	13 days @ \$ 93.30	1,212.90	
T. Wong, helper August 6-18	13 days @ \$ 93.30	1,212.90	\$ 5,843.70

2. EQUIPMENT RENTALS

IPT-1/M4 I.P. Survey System 9 survey days @ \$ 145/day	1,305.00	
Truck Rental	384.65	
MP-2 Magnetometer 9 survey days @ \$ 15/day	135.00	1,824.65

3. CHARGES PER SURVEY DAY (Drafting, Report, Supervision)

9 days I.P. Survey @ \$ 225/day	2,025.00
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4. MISCELLANEOUS EXPENSES

Meals & Accommodation, Travel Expenses, and Survey Consumables	3,900.13
---	----------

\$ 13,593.48



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 sixteen years.

Signed: \_\_\_\_\_

  
J. Klein  
Chief Geophysicist

24 December 1981

# COMINCO LTD.

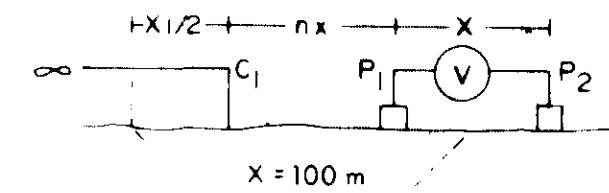
BUCK CREEK

OMINECA M.D., B.C.

**10, 166**  
**PART**  
**2 of 2**

LINE NO. 7,665 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION
- STRONG CHARGEABILITY HIGH
  - MODERATE CHARGEABILITY HIGH
  - WEAK CHARGEABILITY HIGH
  - HIGH AT FURTHER SEPARATIONS
- APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY LOW

SCALE 1:5000

DATE SURVEYED AUGUST 18 1981

CONTOUR INTERVALS:

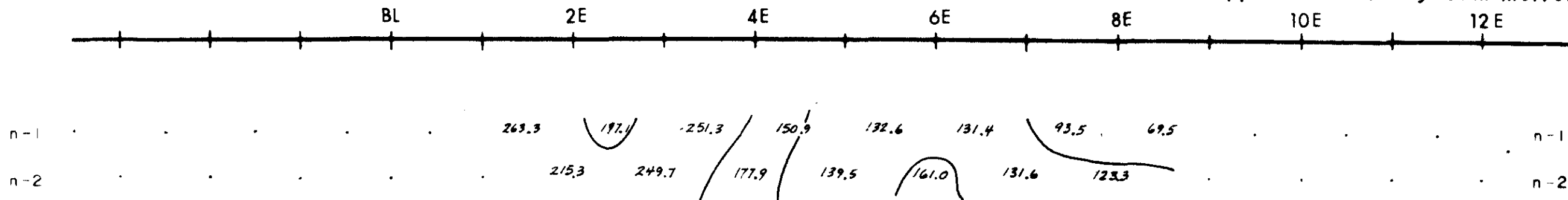
APP RES — 1, 1.5, 2, 3, 5, 7.5, 10 ohm-metres  
APP CHARG — 5 milliseconds

DATE \_\_\_\_\_

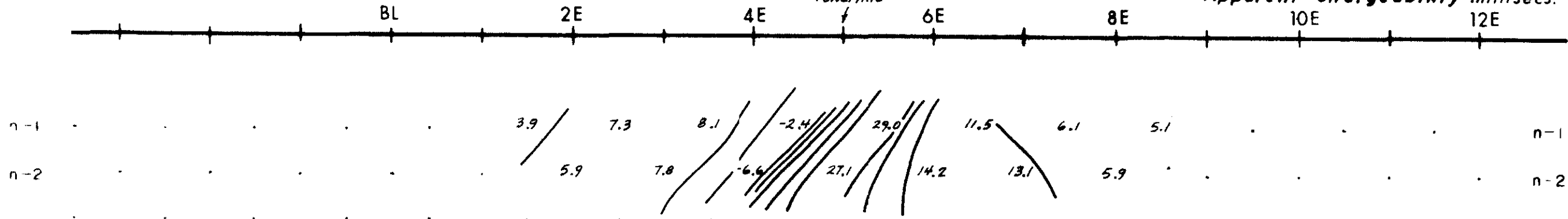
TRANSMITTER — PHOENIX IPT-1  
RECEIVER — HUNTEC MK IV

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

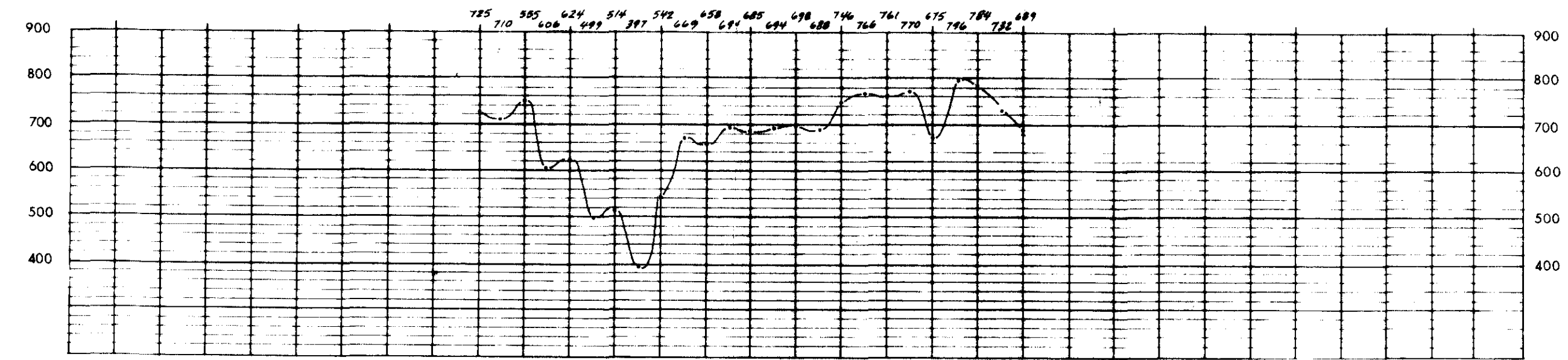
Apparent Resistivity ohm metres



Apparent Chargeability millisecs.



Magnetometer Survey Gammas



# COMINCO LTD.

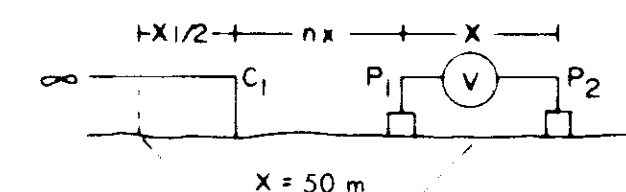
## BUCK CREEK

### OMINECA M.D., B.C.

10,166  
PART  
2 of 2

LINE NO. 9.350 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

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

APPARENT RESISTIVITY INTERPRETATION

- APPARENT RESISTIVITY LOW

SCALE 1:2500

DATE SURVEYED AUGUST 12, 1981

CONTOUR INTERVALS:

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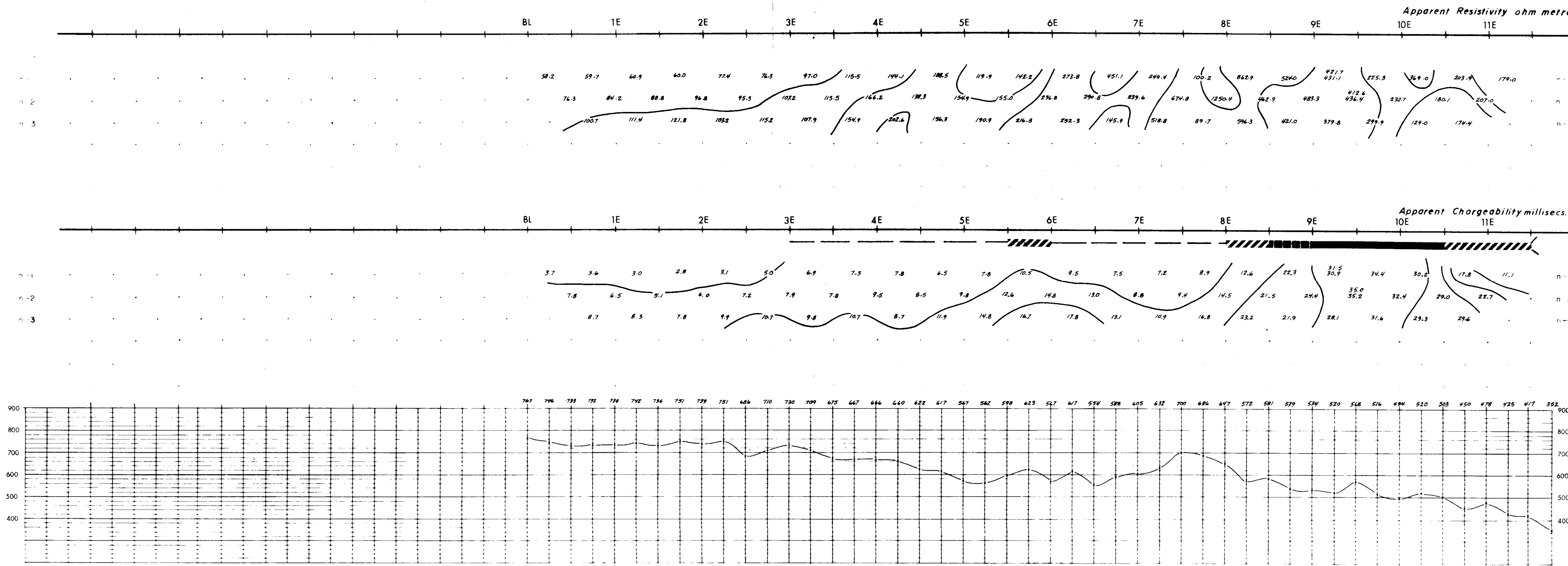
APP. CHARG. — 5 milliseconds

DATE \_\_\_\_\_

TRANSMITTER — PHOENIX IPT-1

RECEIVER — HUNTEC MK IV

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



LINE 9.350 N

# COMINCO LTD.

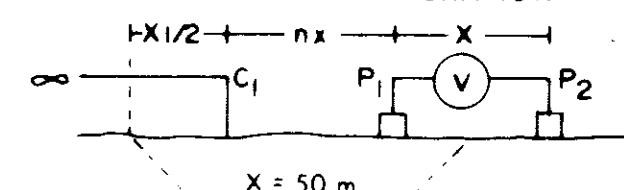
## BUCK CREEK

### OMINECA M.D., B.C.

**10,166**  
**PART**  
**2 of 2**

LINE NO. 9,475 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION**
- STRONG CHARGEABILITY HIGH
  - MODERATE CHARGEABILITY HIGH
  - WEAK CHARGEABILITY HIGH
  - IP HIGH AT FURTHER SEPARATIONS
- APPARENT RESISTIVITY INTERPRETATION**
- APPARENT RESISTIVITY LOW

SCALE 1:2500 DATE SURVEYED AUGUST 11/12 1981

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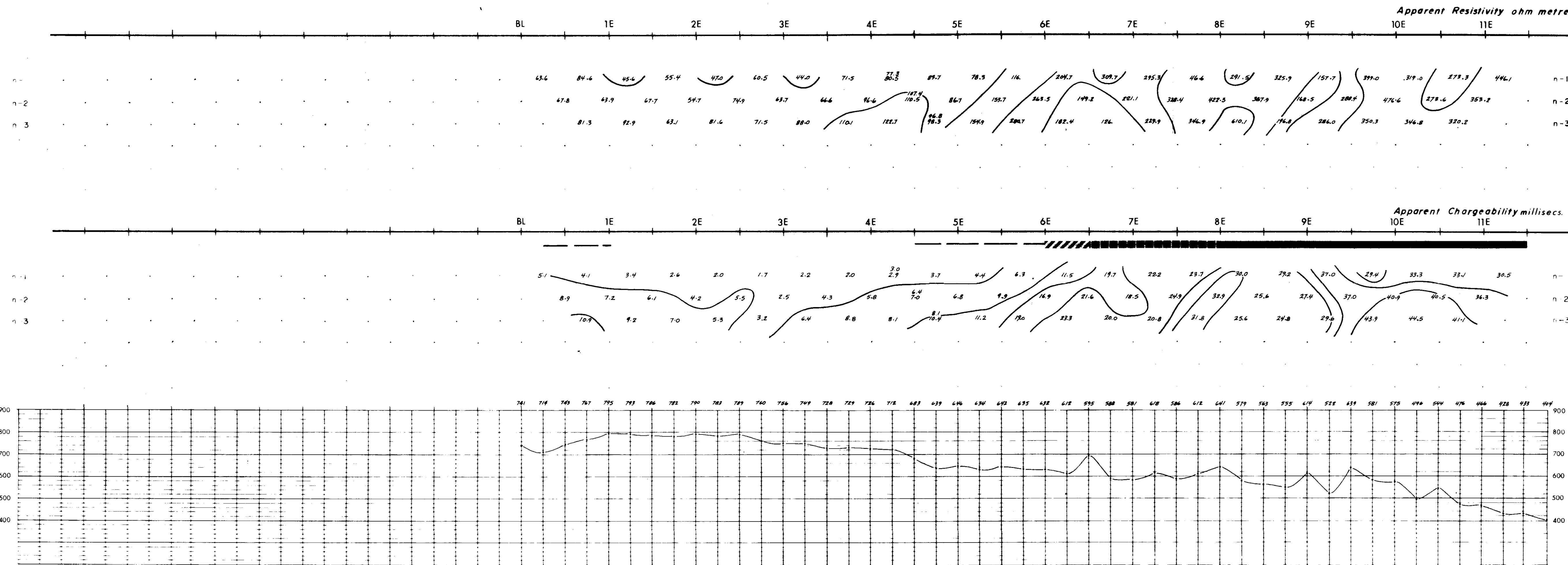
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DATE \_\_\_\_\_

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RECEIVER — HUNTEC MK IV

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



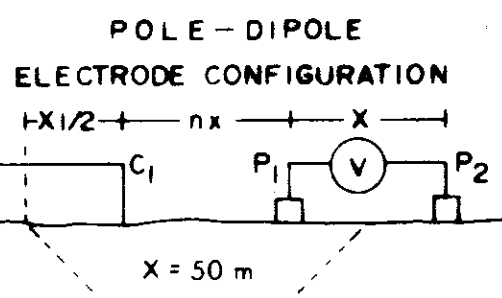
# COMINCO LTD.

## BUCK CREEK

### OMINECA M.D., B.C.

10,166  
PART  
2 of 2

LINE NO. 9,550 N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

**CHARGEABILITY (IP) INTERPRETATION**

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

**APPARENT RESISTIVITY INTERPRETATION**

- APPARENT RESISTIVITY LOW

SCALE 1:2500 DATE SURVEYED AUGUST 11 1981

CONTOUR INTERVALS:

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APP CHARG — 5 milliseconds

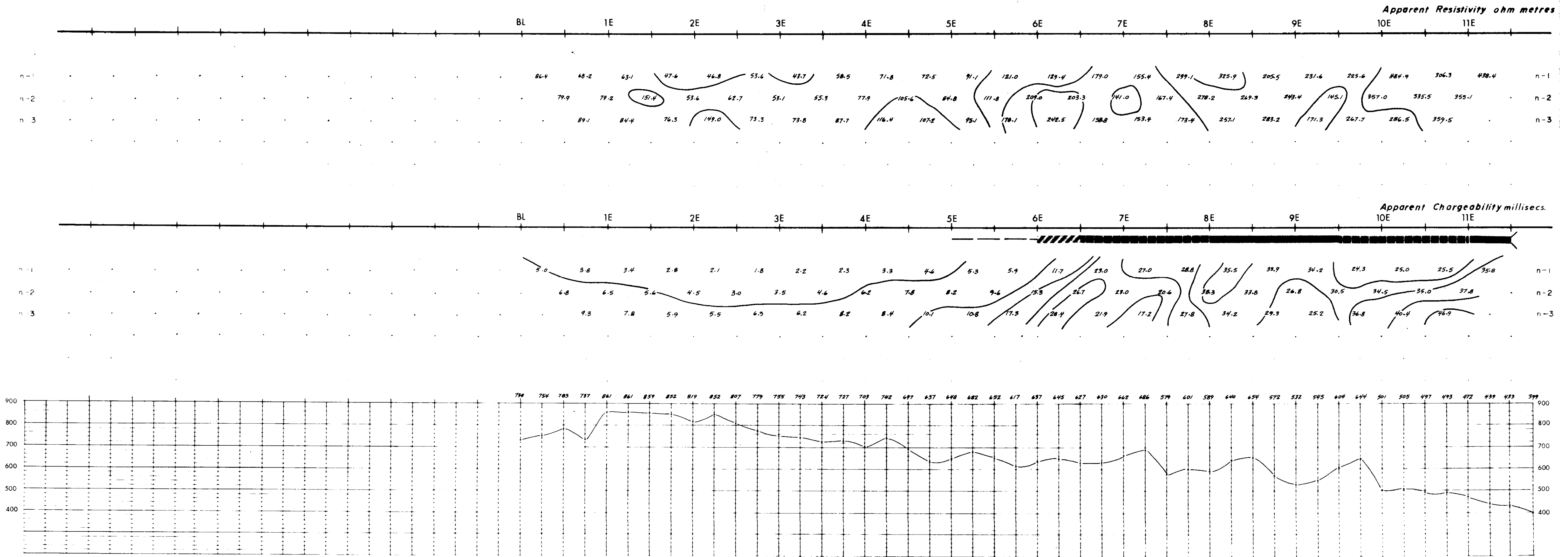
DATE \_\_\_\_\_

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RECEIVER — HUNTEC MK IV

INDUCED POLARIZATION AND RESISTIVITY SURVEY

SURVEYED BY COMINCO LTD., EXPLORATION DIVISION



LINE 9,550 N

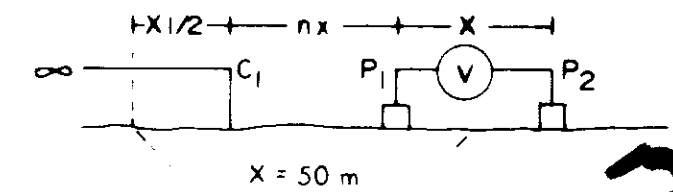
# COMINCO LTD.

## BUCK CREEK

### OMINECA M.D., B.C.

LINE NO. 9,650 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3

- CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE
- CHARGEABILITY (IP) INTERPRETATION
    - STRONG CHARGEABILITY HIGH
    - MODERATE CHARGEABILITY HIGH
    - WEAK CHARGEABILITY HIGH
    - IP HIGH AT FURTHER SEPARATIONS
  - APPARENT RESISTIVITY INTERPRETATION
    - APPARENT RESISTIVITY LOW

SCALE 1:2500

DATE SURVEYED AUGUST 10 1981

CONTOUR INTERVALS:

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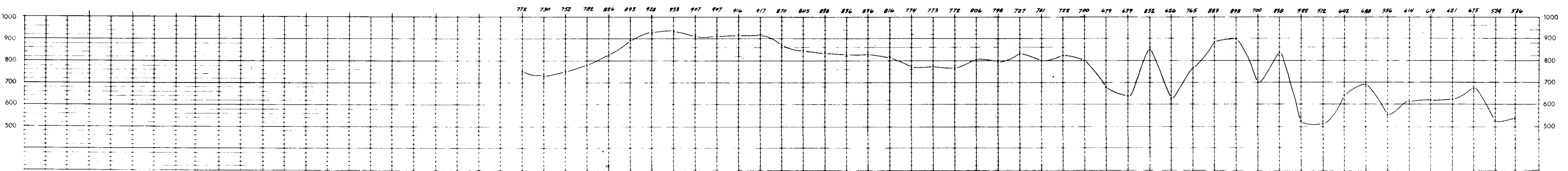
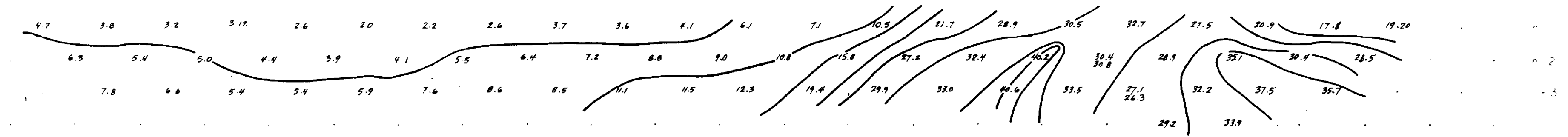
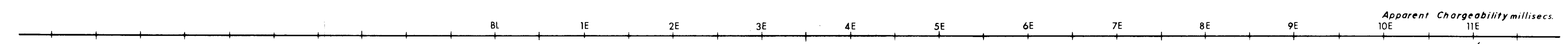
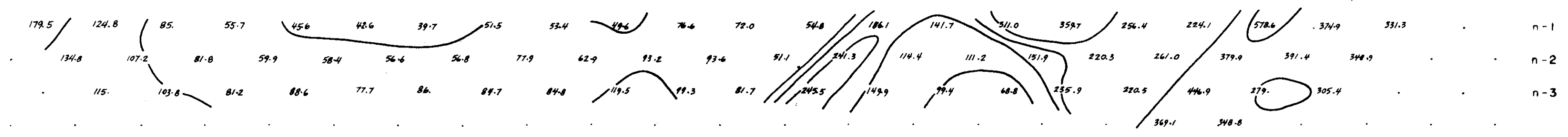
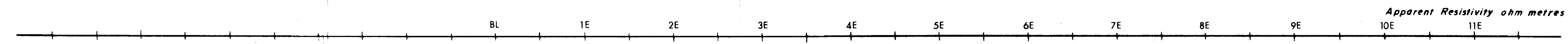
APP CHARG — 5 milliseconds

DATE \_\_\_\_\_

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RECEIVER — HUNTEC MK IX

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

**10,166**  
**PART**  
**2 of 2**



LINE 9,650 N

# COMINCO LTD.

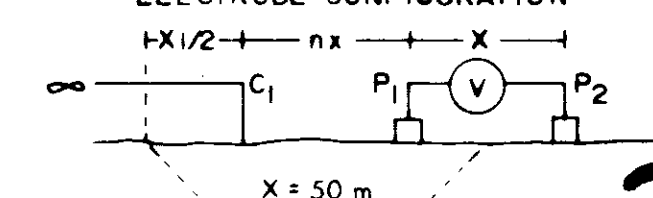
## BUCK CREEK

### OMINECA M.D., B.C.

10/16/66  
PART  
2 of 2

LINE NO. 9.775 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION**
- STRONG CHARGEABILITY HIGH
  - MODERATE CHARGEABILITY HIGH
  - WEAK CHARGEABILITY HIGH
  - IP HIGH AT FURTHER SEPERATIONS
- APPARENT RESISTIVITY INTERPRETATION**
- APPARENT RESISTIVITY LOW

SCALE 1:2500

DATE SURVEYED AUGUST 9 1981

CONTOUR INTERVALS:

APP RES. — 1, 1.5, 2, 3, 5, 7.5, 10 ohm-metres

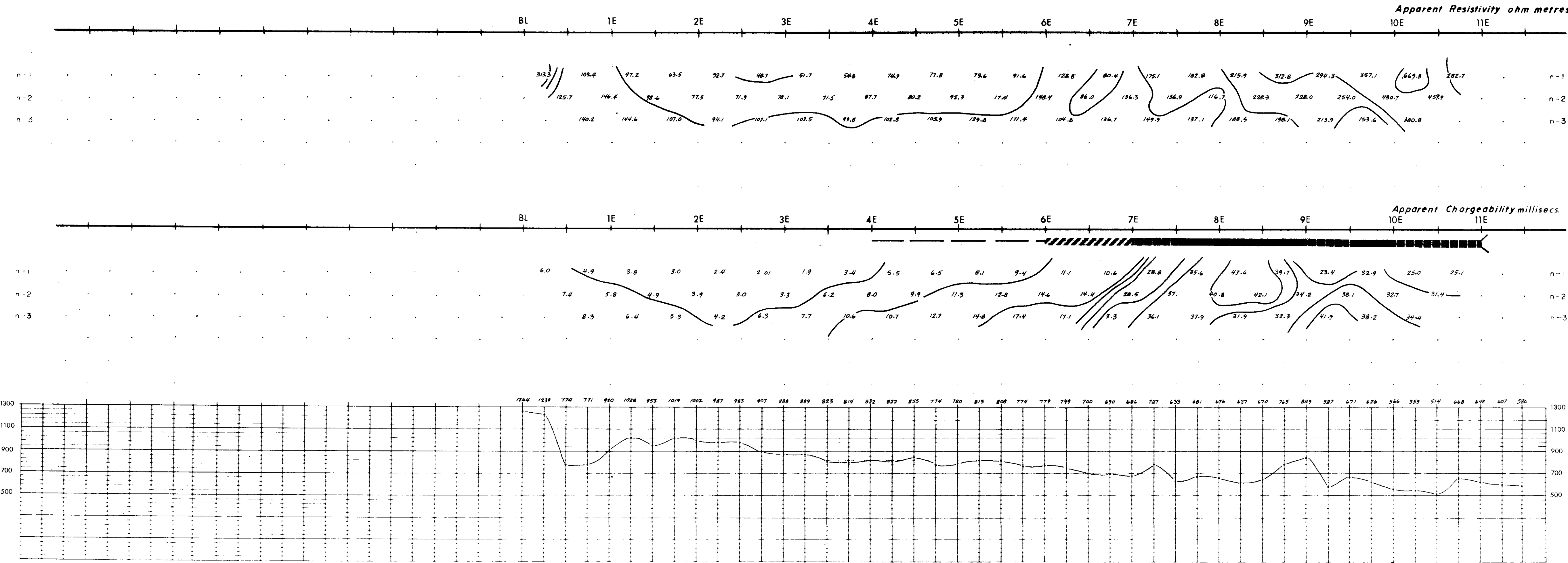
APP CHARG. — 5 milliseconds

DATE \_\_\_\_\_

TRANSMITTER — PHOENIX 1PT-1

RECEIVER — HUNTEC MK IV

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



# COMINCO LTD.

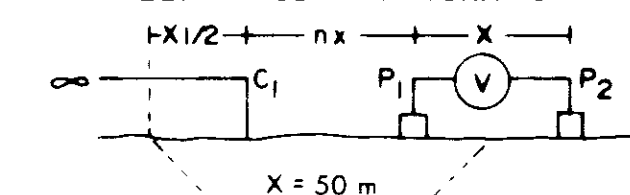
## BUCK CREEK

### OMINECA M.D., B.C.

**10,166**  
**PART**  
**2 of 2**

LINE NO. 10,000 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION**
- STRONG CHARGEABILITY HIGH
  - MODERATE CHARGEABILITY HIGH
  - WEAK CHARGEABILITY HIGH
  - IP HIGH AT FURTHER SEPERATIONS
- APPARENT RESISTIVITY INTERPRETATION**
- APPARENT RESISTIVITY LOW

SCALE 1:2500

DATE SURVEYED AUGUST 8 1981

CONTOUR INTERVALS :

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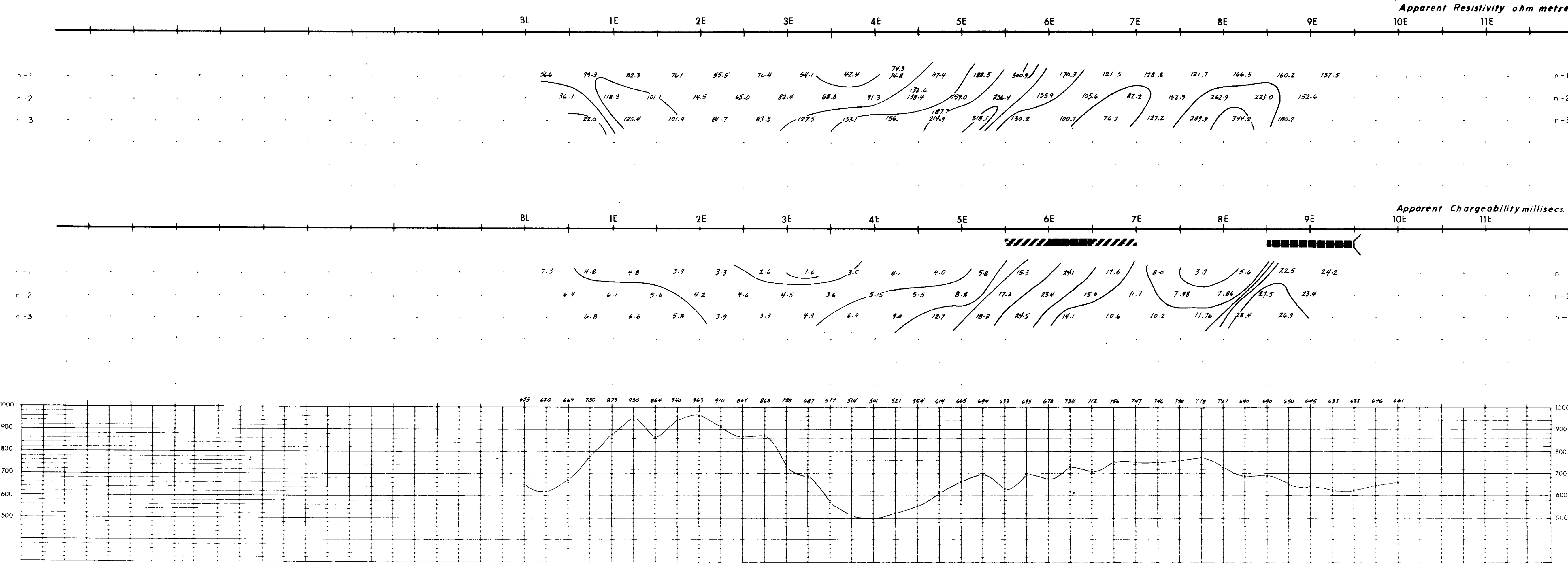
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DATE \_\_\_\_\_

TRANSMITTER — PHOENIX IPT-1

RECEIVER — HUNTEC MK IV

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





# COMINCO LTD.

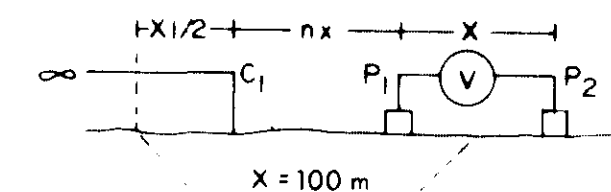
## BUCK CREEK

### OMINECA M.D., B.C.

10,166  
PART  
2 of 2

LINE NO. 7,865 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

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

APPARENT RESISTIVITY INTERPRETATION

- APPARENT RESISTIVITY LOW

SCALE 1:5000

DATE SURVEYED AUGUST 18 1981

CONTOUR INTERVALS :

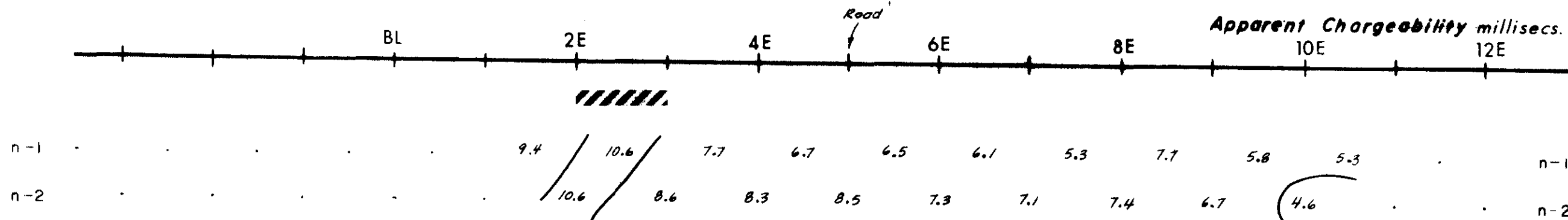
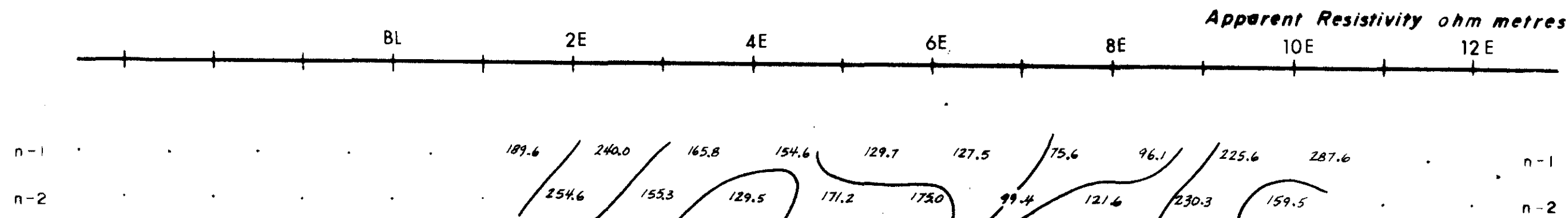
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APP. CHARG — 5 milliseconds

DATE \_\_\_\_\_

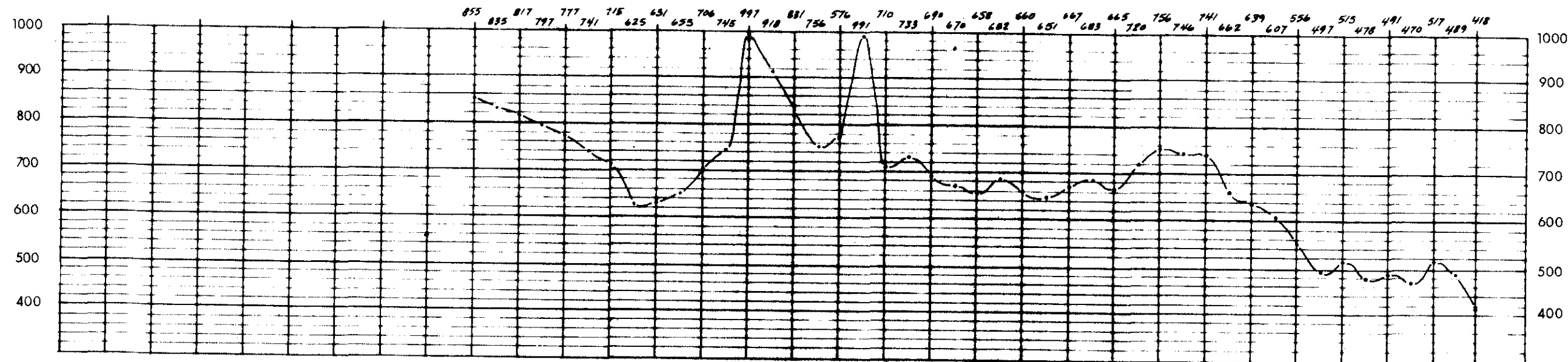
TRANSMITTER — PHOENIX 1PT-1

RECEIVER — HUNTEC MK IV

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



### Magnetometer Survey Gammas



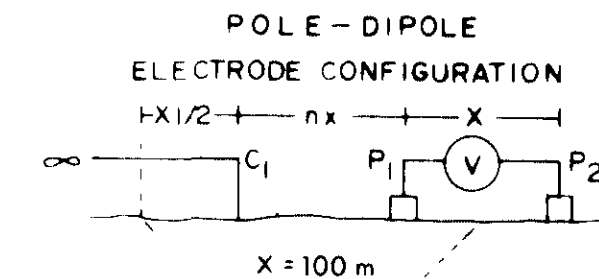
# COMINCO LTD.

## BUCK CREEK

### OMINECA M.D., B.C.

10,166  
PART  
2 of 2

LINE NO. 8065 N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH
- MODERATE CHARGEABILITY HIGH
- WEAK CHARGEABILITY HIGH
- P HIGH AT FURTHER SEPERATIONS

APPARENT RESISTIVITY INTERPRETATION

- APPARENT RESISTIVITY LOW

SCALE 1:5000

DATE SURVEYED AUGUST 18 1981

CONTOUR INTERVALS:

APP RES — 1, 1.5, 2, 3, 5, 7.5, 10 ohm-metres  
APP CHARG — 5 milliseconds

APPROVED \_\_\_\_\_

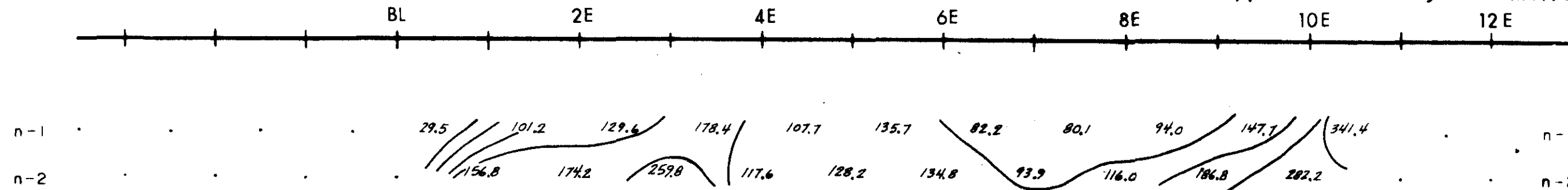
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TRANSMITTER — PHOENIX 1PT-1

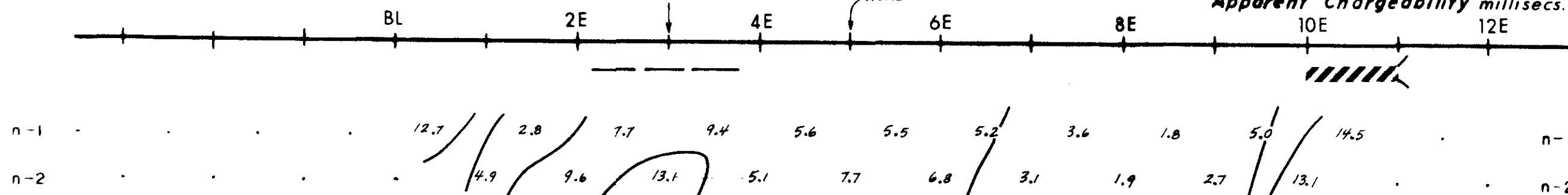
RECEIVER — HUNTEC MK IV

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

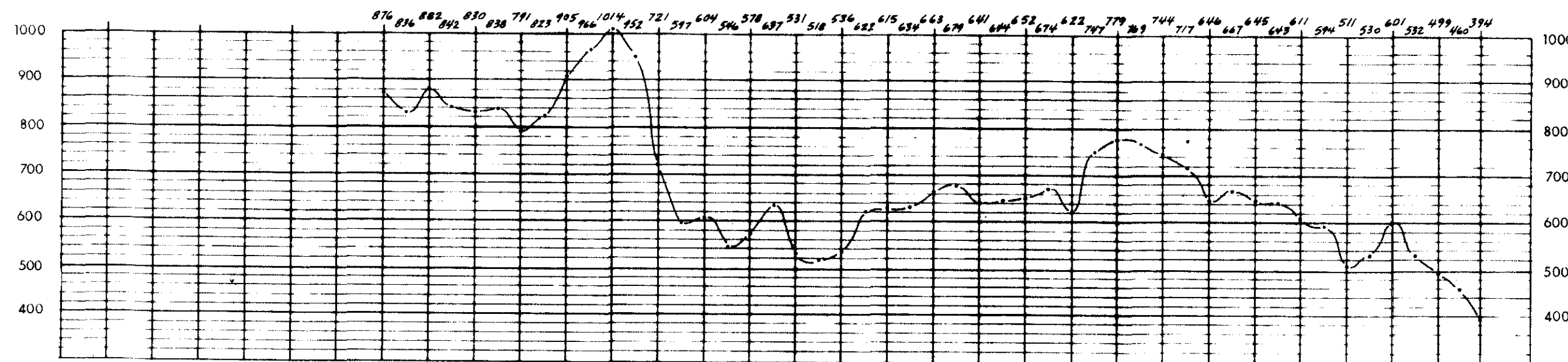
Apparent Resistivity ohm metres



Apparent Chargeability millisecs.



Magnetometer Survey Gammas



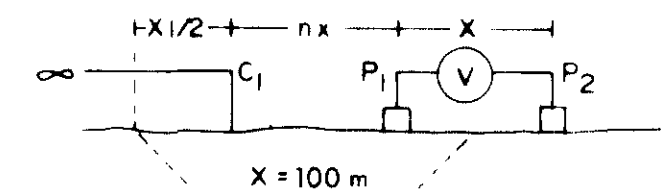
# COMINCO LTD.

## BUCK CREEK

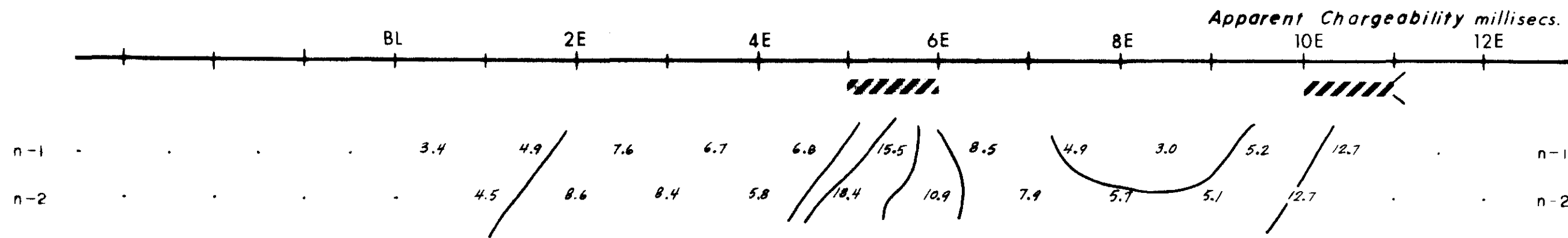
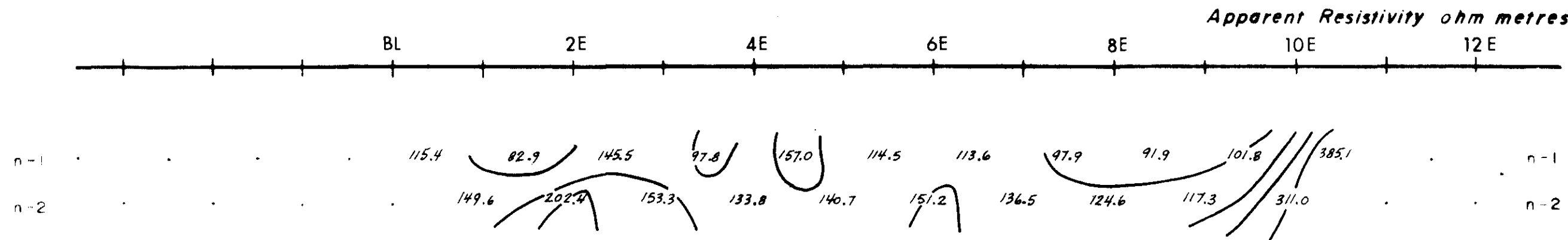
### OMINECA M.D., B.C.

LINE NO. 8,265 N

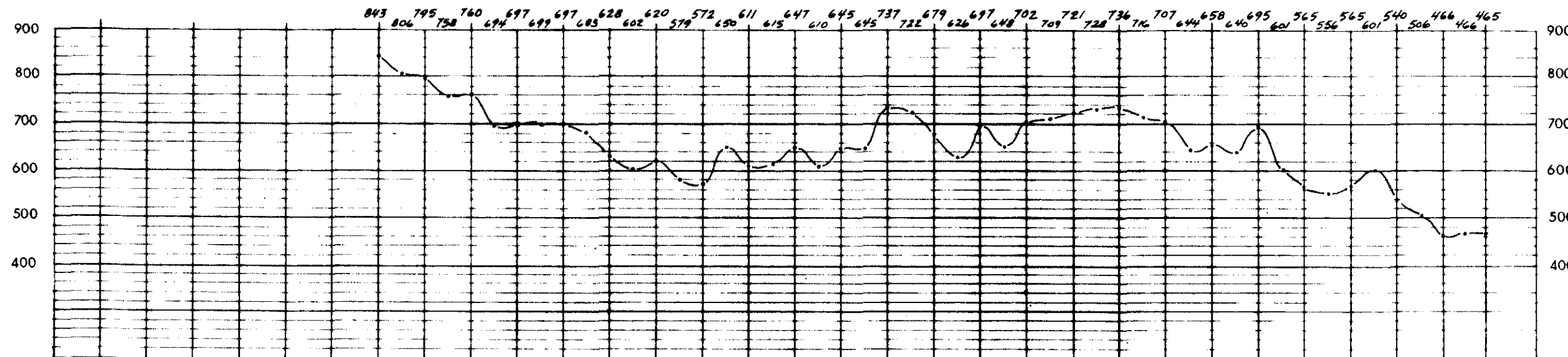
POLE-DIPOLE  
ELECTRODE CONFIGURATION



**10,166**  
**PART**  
**2 of 2**



### Magnetometer Survey Gammas



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION
- STRONG CHARGEABILITY HIGH
  - MODERATE CHARGEABILITY HIGH
  - WEAK CHARGEABILITY HIGH
  - IP HIGH AT FURTHER SEPARATIONS
- APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY LOW

SCALE 1:5000

DATE SURVEYED AUGUST 17 1981

CONTOUR INTERVALS :

APP. RES — 1,1.5,2,3,5,7.5,10 ohm-metres

APP. CHARG — 5 milliseconds

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

TRANSMITTER — PHOENIX IPT-1

RECEIVER — HUNTEC MK IV

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

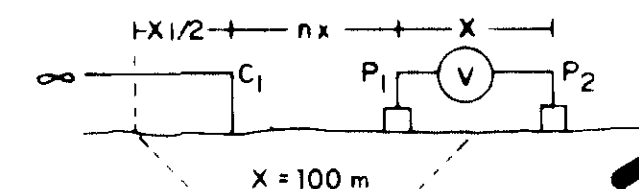
# COMINCO LTD.

## BUCK CREEK

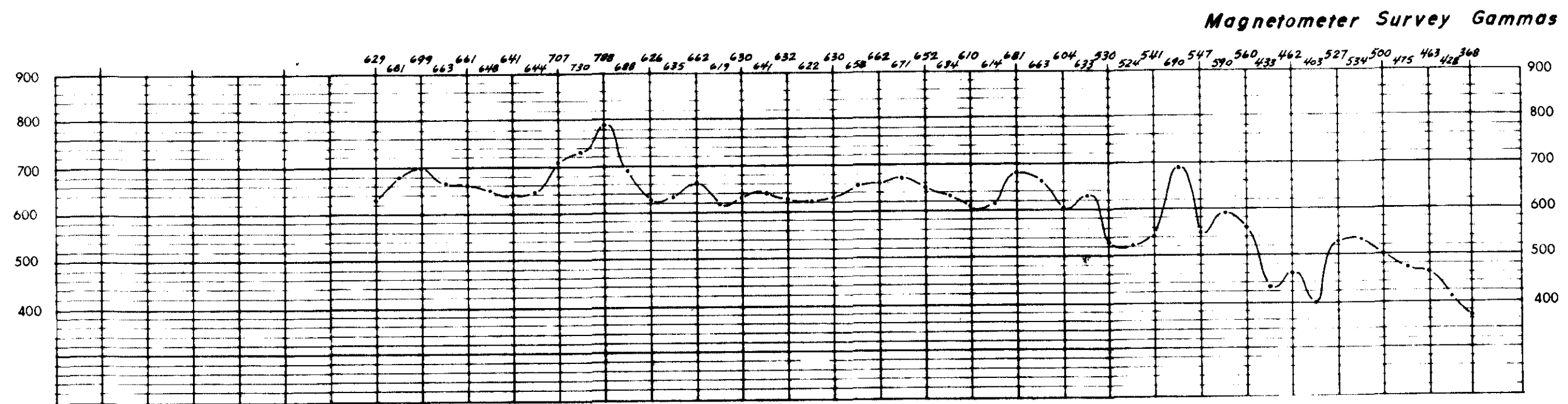
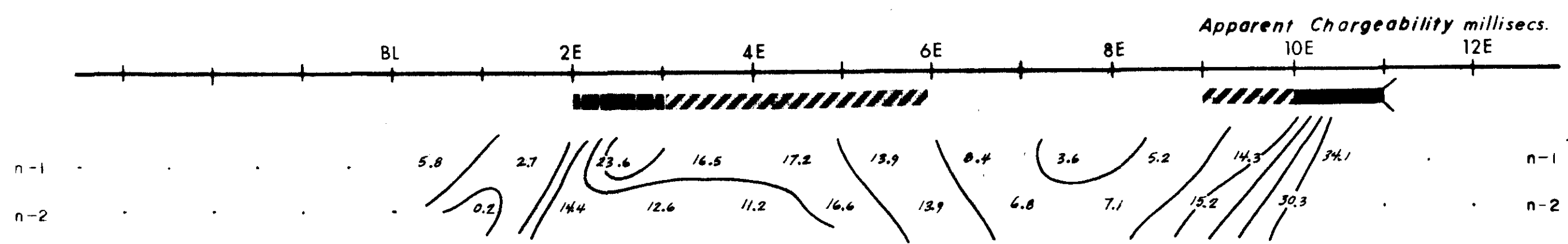
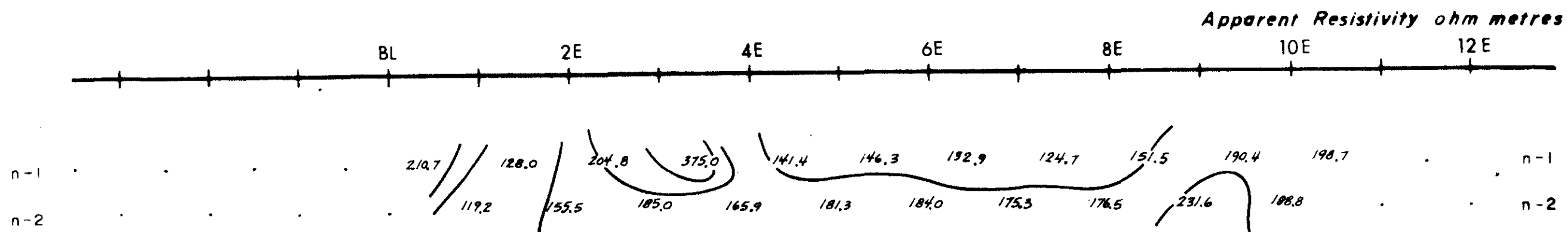
## OMINECA M.D., B.C.

LINE NO. 8,465 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



**10,166**  
**PART**  
**2 of 2**



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

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

APPARENT RESISTIVITY INTERPRETATION

- APPARENT RESISTIVITY LOW

SCALE 1:5000      DATE SURVEYED AUGUST 17 1981

CONTOUR INTERVALS :

APP RES — 1,1.5,2,3,5,7.5,10 ohm-metres      APPROVED \_\_\_\_\_

APP CHARG — 5 milliseconds

DATE \_\_\_\_\_

TRANSMITTER — PHOENIX 1PT-1

RECEIVER — HUNTEC MK IV

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

# COMINCO LTD.

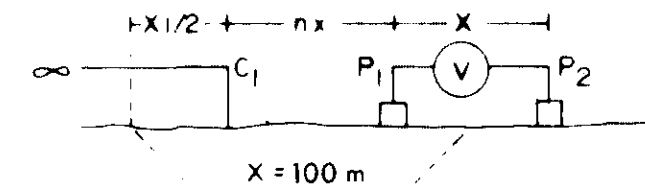
## BUCK CREEK

### OMINECA M.D., B.C.

10,166  
PART  
2 of 2

LINE NO. 8,615 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

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

APPARENT RESISTIVITY INTERPRETATION

- APPARENT RESISTIVITY LOW

SCALE 1:5000

DATE SURVEYED AUGUST 17 1981

CONTOUR INTERVALS:

APP. RES — 1,1.5,2,3,5,7.5,10 ohm-metres

APP. CHARG — 5 milliseconds

APPROVED \_\_\_\_\_

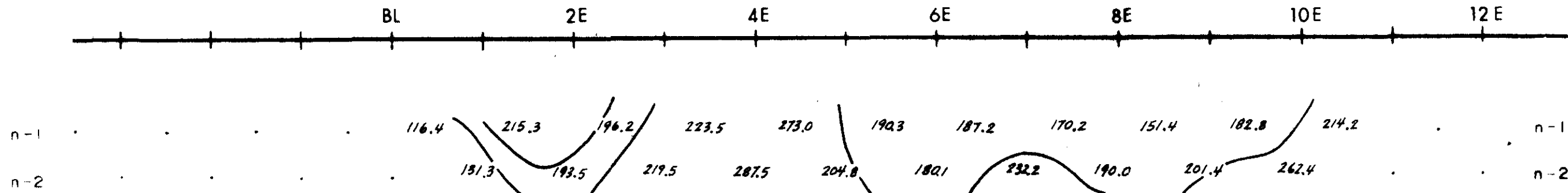
DATE \_\_\_\_\_

TRANSMITTER — PHOENIX 1PT-1

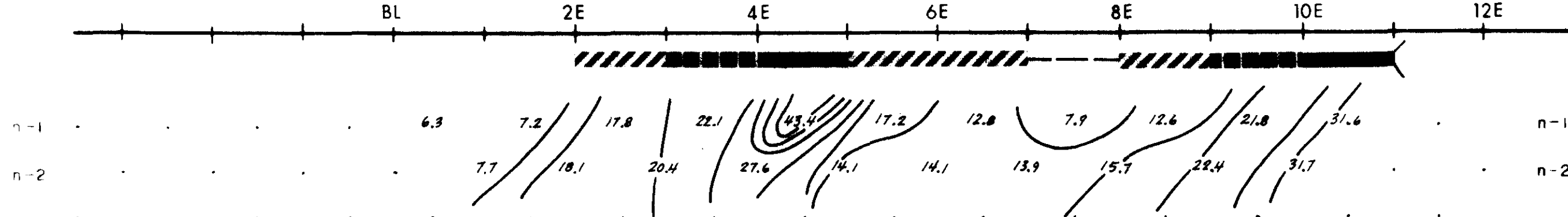
RECEIVER — HUNTEC MK IV

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

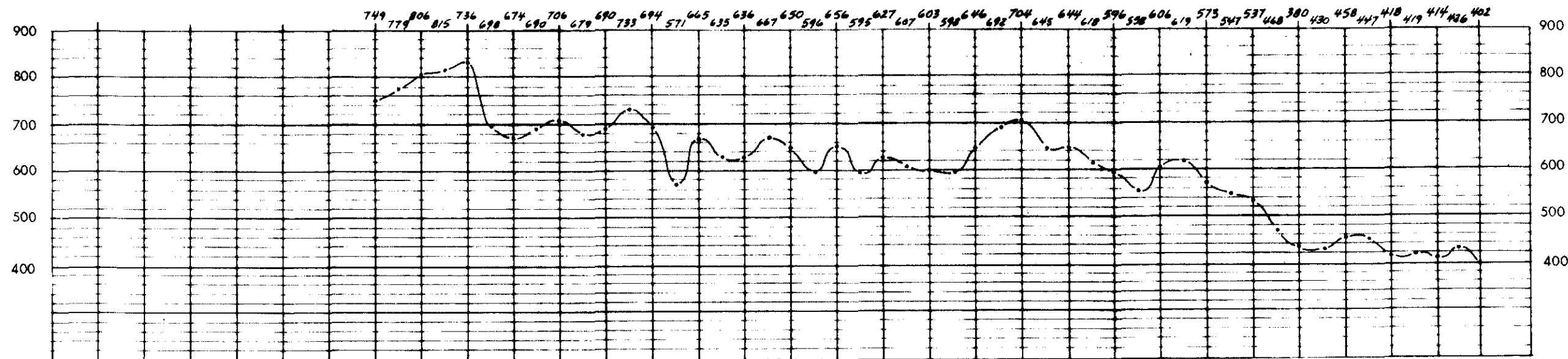
### Apparent Resistivity ohm metres



### Apparent Chargeability millisecs.



### Magnetometer Survey Gammas



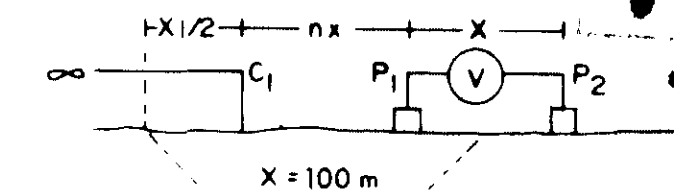
# COMINCO LTD.

## BUCK CREEK

### OMINECA M.D., B.C.

LINE NO. 8,815 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



**10,166**  
**PART**  
**2 of 2**

PLOTTING POINT  
n=1, 2

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION
- STRONG CHARGEABILITY HIGH
- MODERATE CHARGEABILITY HIGH
- WEAK CHARGEABILITY HIGH
- IP HIGH AT FURTHER SEPERATIONS

- APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY LOW

SCALE 1:5000

DATE SURVEYED AUGUST 16 1981

CONTOUR INTERVALS :

APP. RES — 1,1.5,2,3,5,7.5,10 ohm-metres  
APP. CHARG — 5 milliseconds

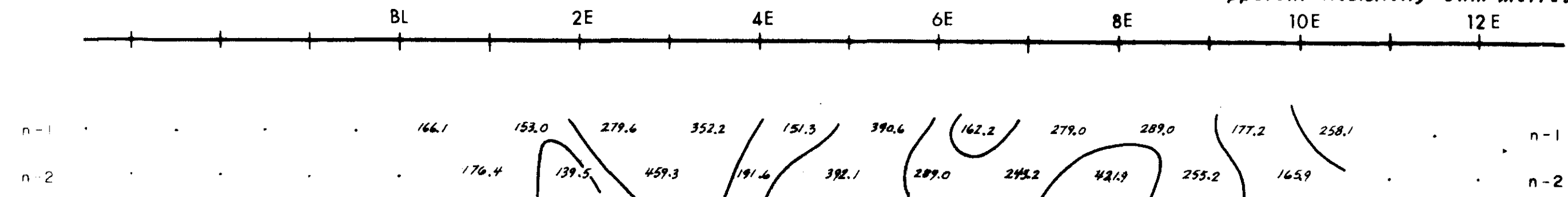
APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

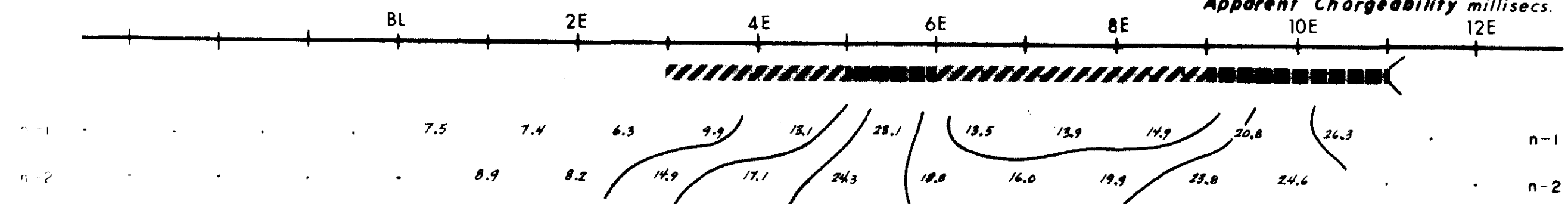
TRANSMITTER — PHOENIX IPT-1  
RECEIVER — HUNTEC MK IV

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

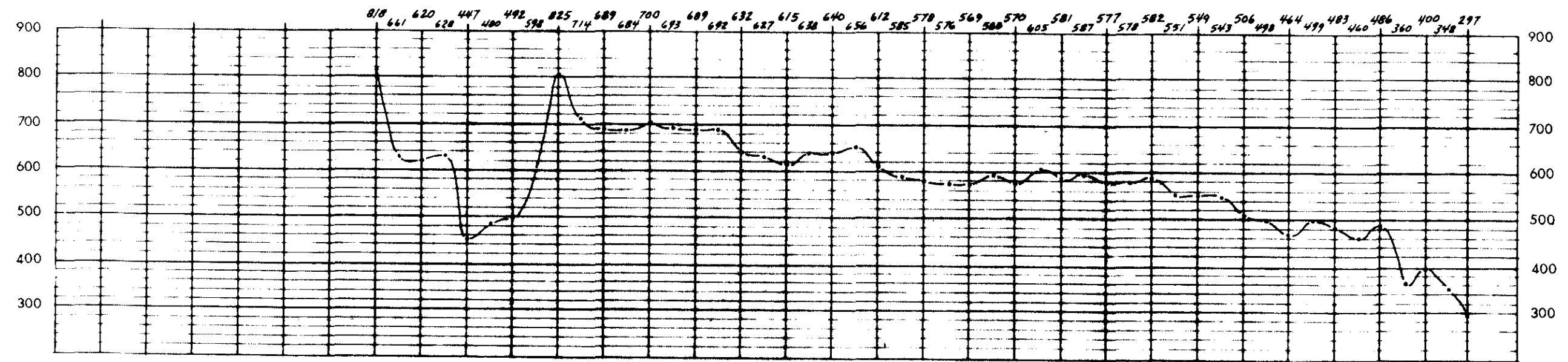
Apparent Resistivity ohm metres



Apparent Chargeability milliseecs.



Magnetometer Survey Gammas



# COMINCO LTD.

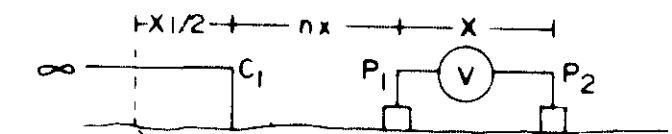
## BUCK CREEK

### OMINECA M.D., B.C.

**10,166**  
**PART**  
**2 of 2**

LINE NO. 9,015 N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

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

APPARENT RESISTIVITY INTERPRETATION

- APPARENT RESISTIVITY LOW

SCALE 1:5000

DATE SURVEYED AUGUST 16 1981

CONTOUR INTERVALS :

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10 ohm-metres APPROVED \_\_\_\_\_

APP. CHARG — 5 milliseconds

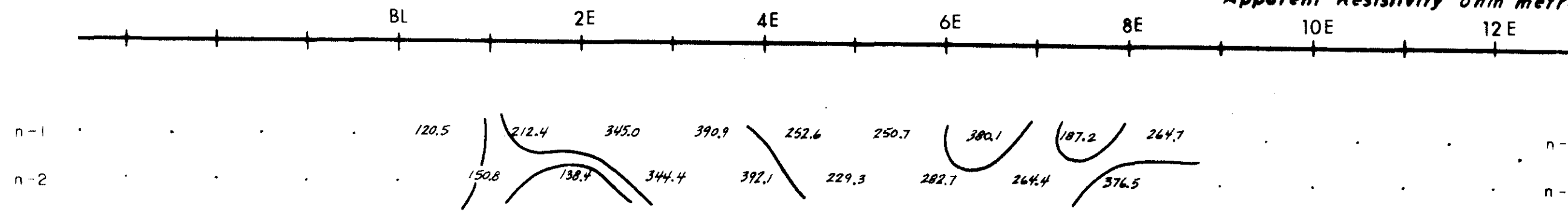
DATE \_\_\_\_\_

TRANSMITTER — PHOENIX IPT-1

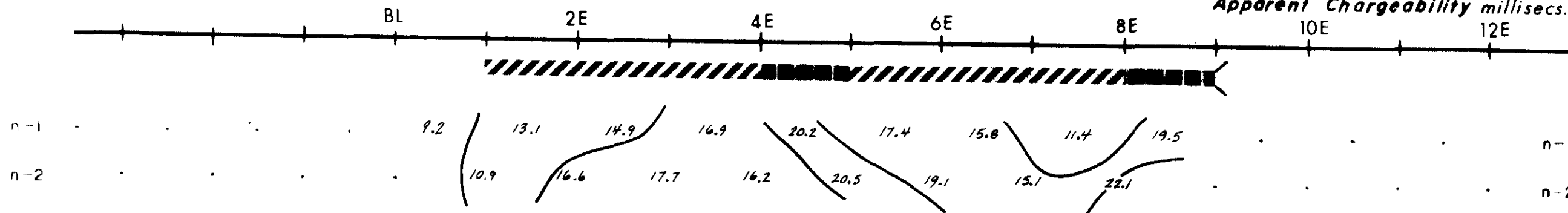
RECEIVER — HUNTEC MK IV

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

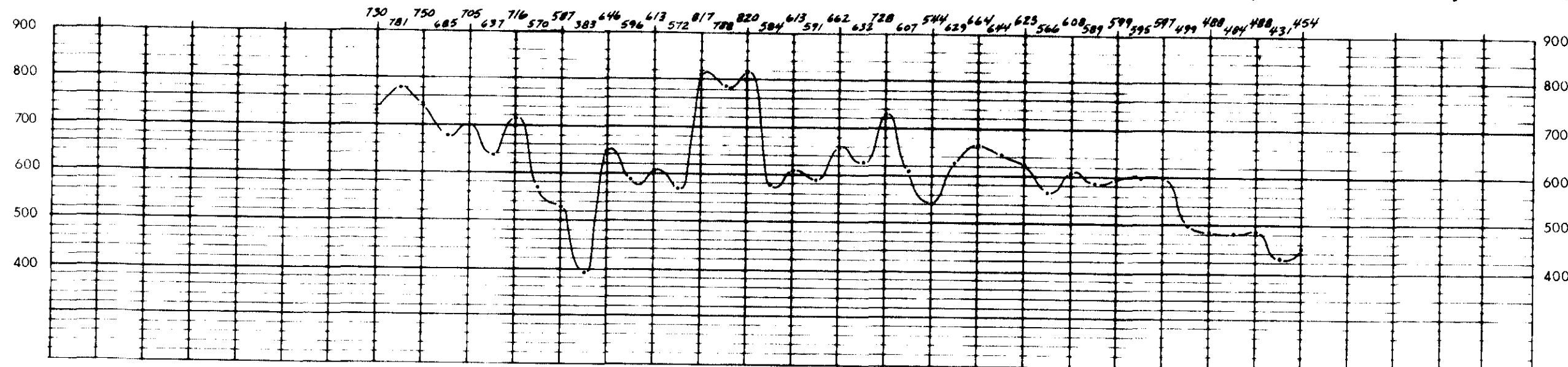
Apparent Resistivity ohm metres



Apparent Chargeability millisecs.



Magnetometer Survey Gammas



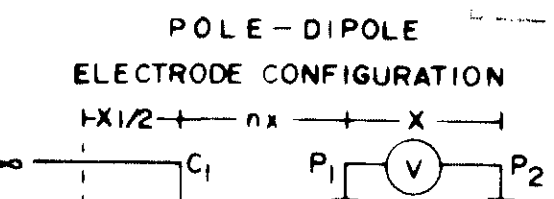
# COMINCO LTD.

## BUCK CREEK

### OMINECA M.D., B.C.

10,166  
PART  
2 of 2

LINE NO. 9,175 N



PLOTTING POINT  
n = 1, 2, 3

- CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE
- CHARGEABILITY (IP) INTERPRETATION:
    - STRONG CHARGEABILITY HIGH
    - MODERATE CHARGEABILITY HIGH
    - WEAK CHARGEABILITY HIGH
    - IP HIGH AT FURTHER SEPARATIONS
  - APPARENT RESISTIVITY INTERPRETATION:
    - APPARENT RESISTIVITY LOW

SCALE 1:2500 DATE SURVEYED AUGUST 13 1981

CONTOUR INTERVALS:

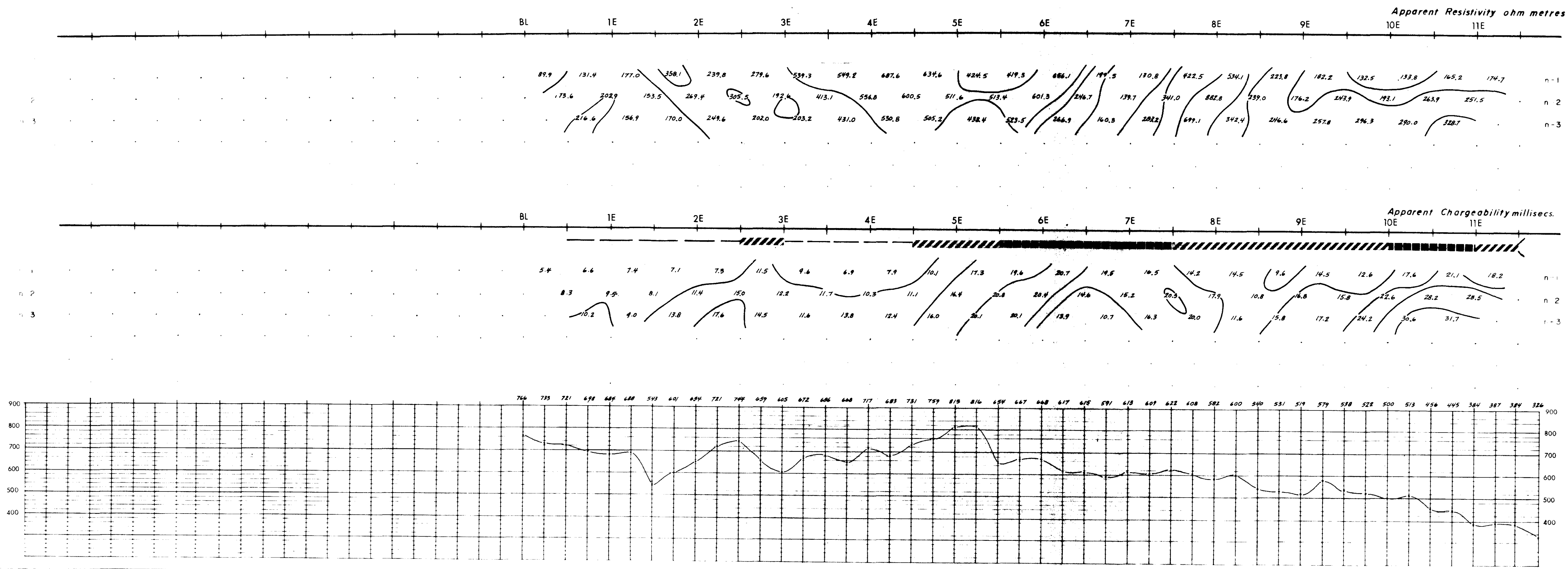
APP RES — 1, 1.5, 2, 3, 5, 7.5, 10 ohm-metres APPROVED \_\_\_\_\_  
APP CHARG — 5 milliseconds

DATE \_\_\_\_\_

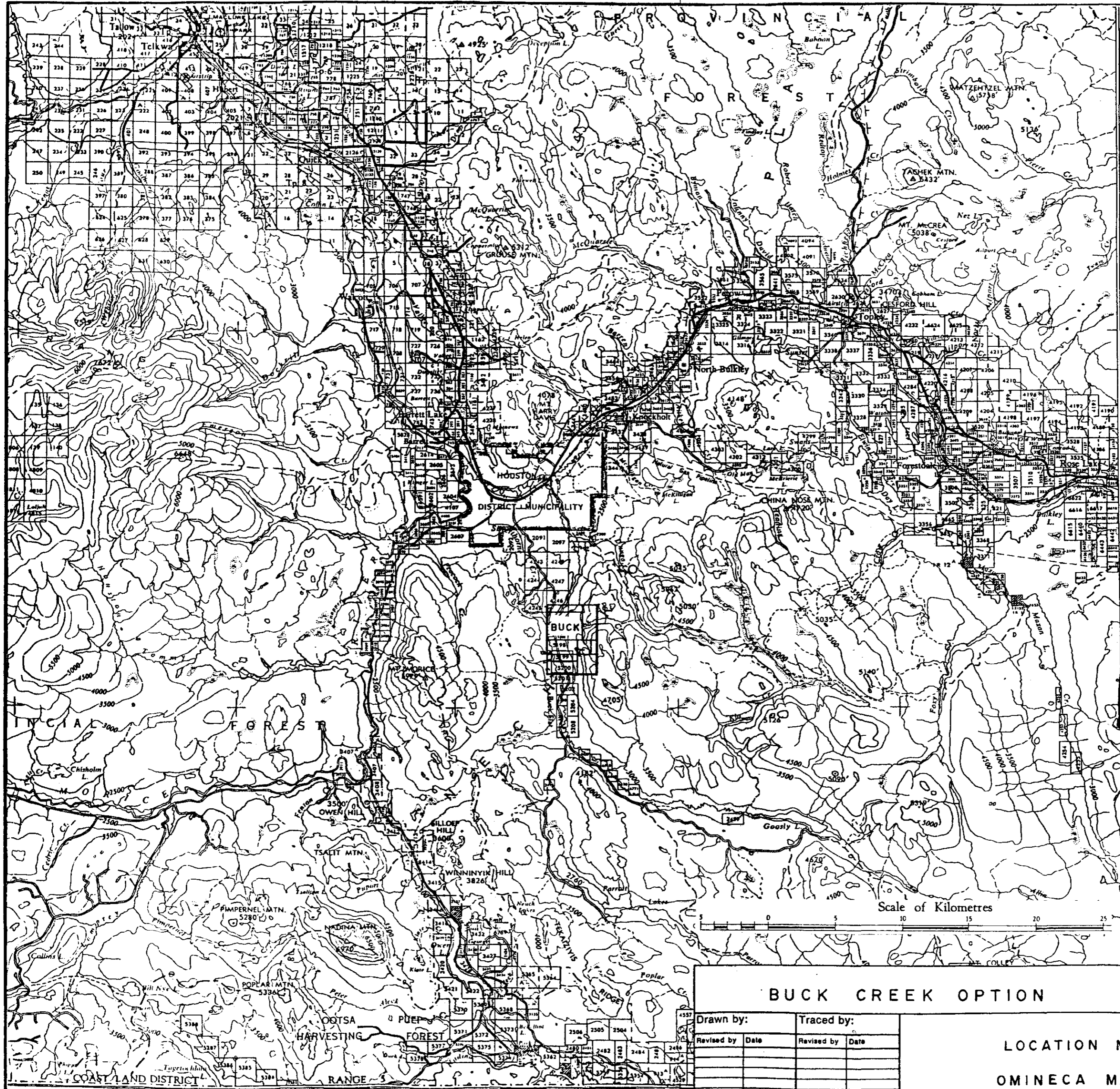
TRANSMITTER — PHOENIX 1PT-1

RECEIVER — HUNTEC MK IV

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








TRUE NORTH  
27° 29' 16"

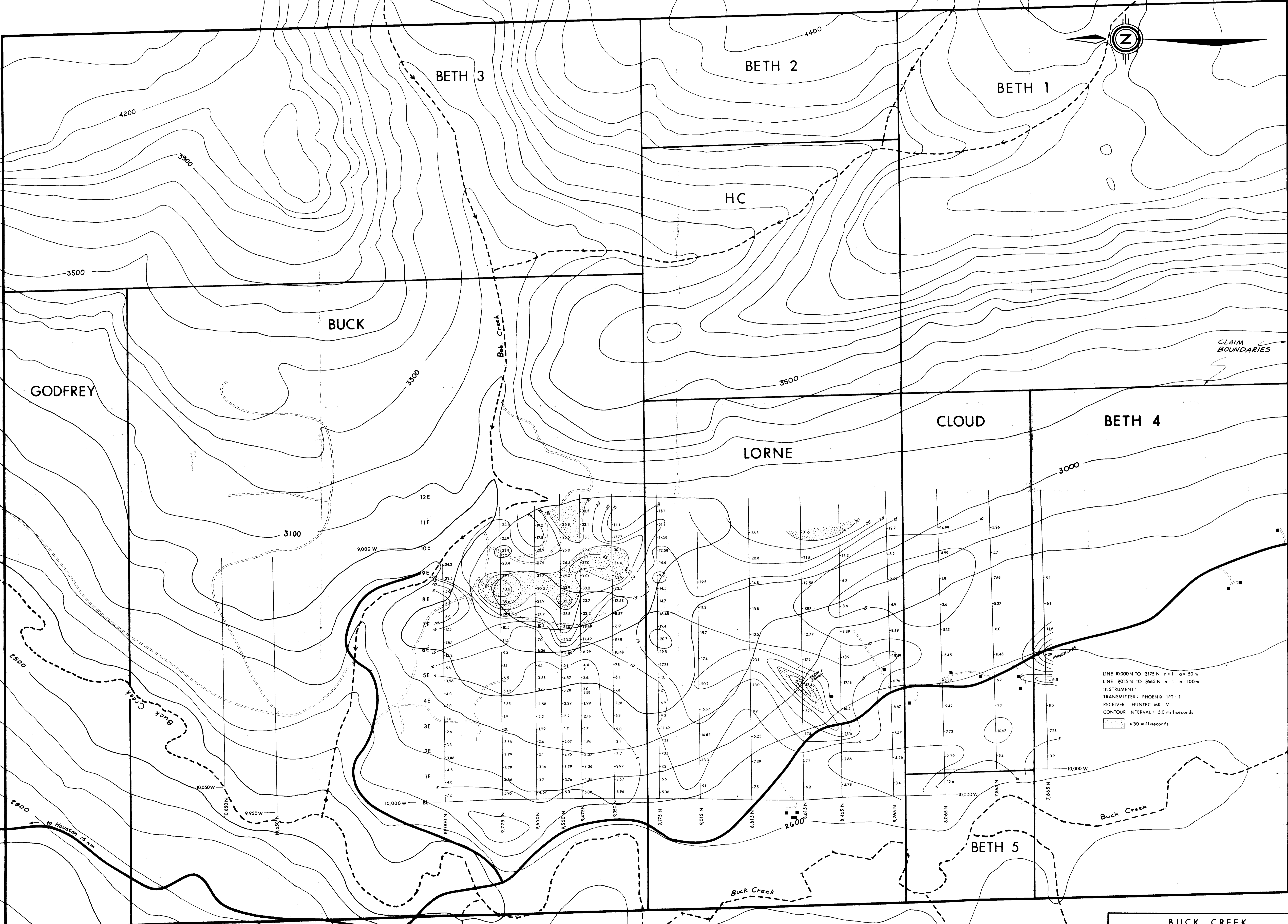
To Prince George: 126 miles  
To Burns Lake: 16 miles

10,166  
PART  
2 of 2

Scale of Kilometres

<b>BUCK CREEK OPTION</b>				 NTS 93L/7E
Drawn by:		Traced by:		
Revised by	Date	Revised by	Date	<b>LOCATION MAP</b>  <b>OMINECA M.D., B.C.</b>
Scale: 1:250000			Date: AUGUST 1981	Plate: 215-81-1

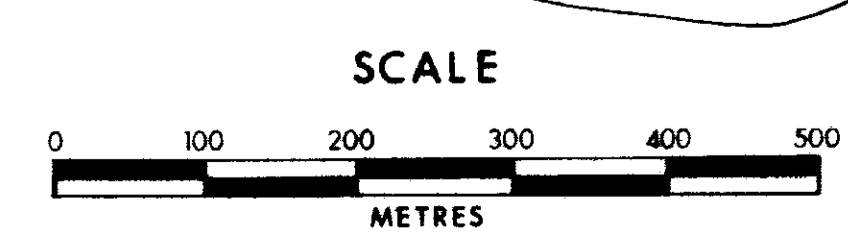
COAST LAND DISTRICT 127°00' RANGE 4 45'



CLAIM BOUNDARIES

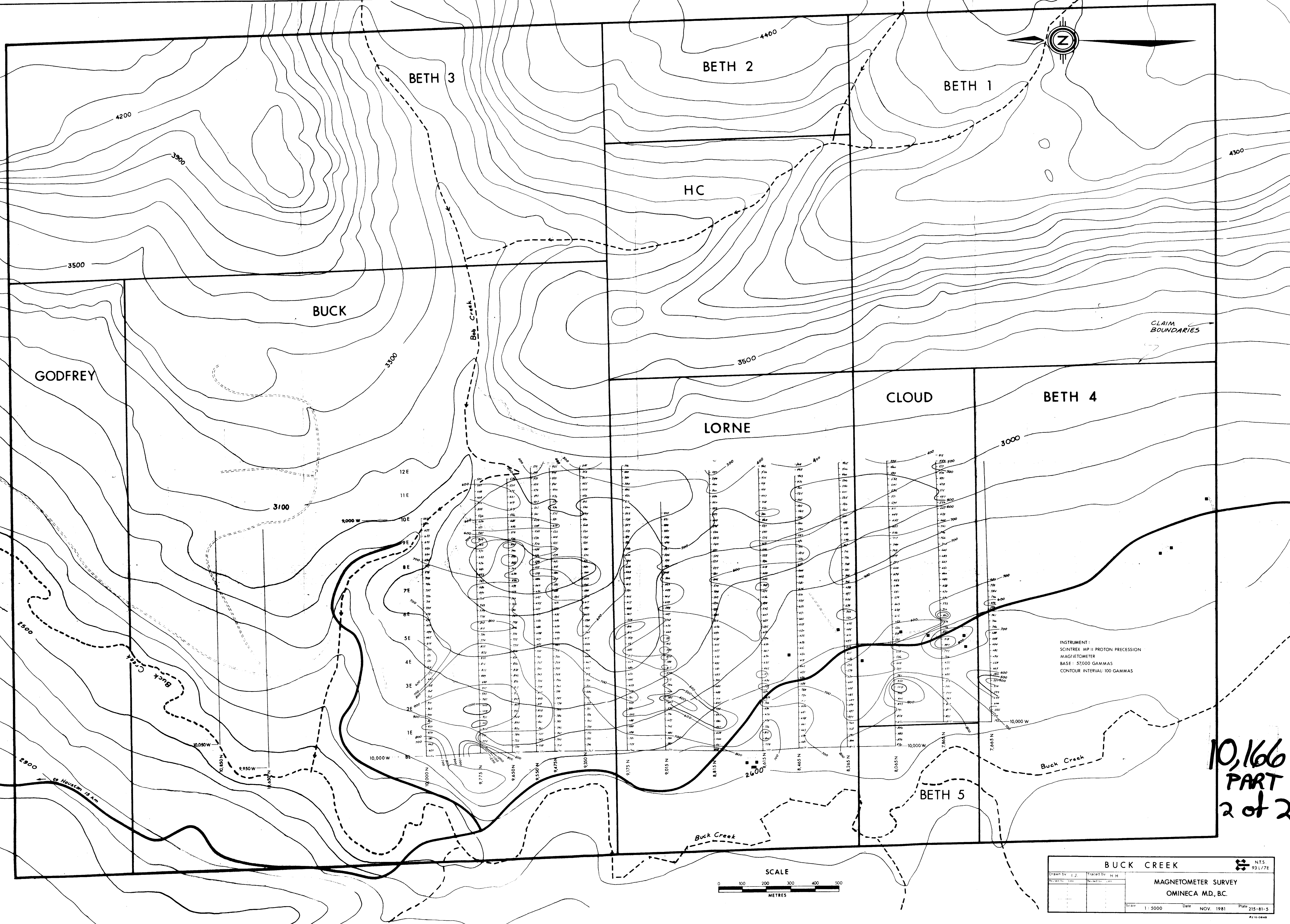
LINE 10000N TO 9175N n=1 g=50m  
 LINE 9015N TO 7665N n=1 g=100m  
 INSTRUMENT:  
 TRANSMITTER: PHOENIX IPT-1  
 RECEIVER: HUNTEC MK IV  
 CONTOUR INTERVAL: 5.0 milliseconds  
 >30 milliseconds

10,166  
 PART  
 2 of 2



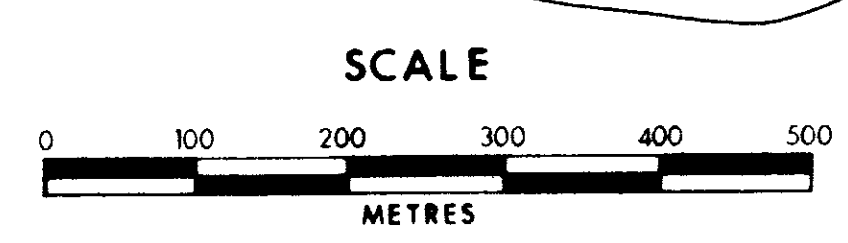
BUCK CREEK		NTS
Drawn by: J.J.	Traced by: H.H.	93117E
Checked by: [ ]	Reviewed by: [ ]	
CHARGEABILITY (msecs.)		
N=1		
OMINECA M.D., BC.		
Scale: 1:5000	Date: NOV. 1981	Plate: 215-81-3

#210-0640

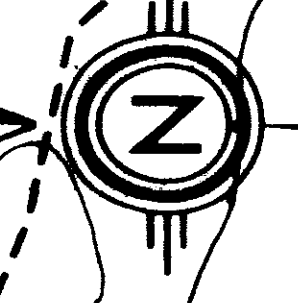
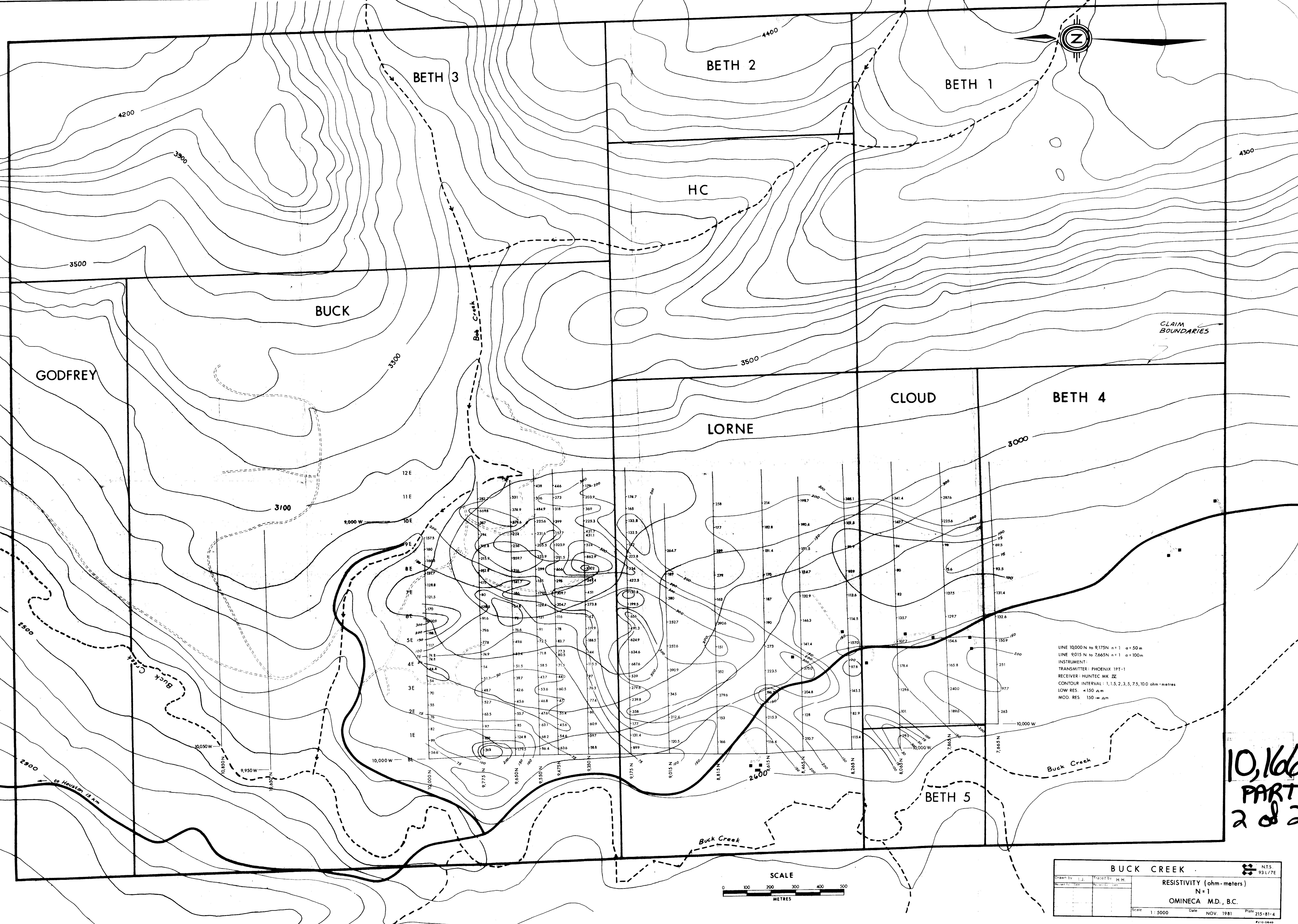


INSTRUMENT:  
SCINTREX MP II PROTON PRESSION  
MAGNETOMETER  
BASE: 57000 GAMMAS  
CONTOUR INTERVAL: 100 GAMMAS

10,166  
PART  
2 of 2



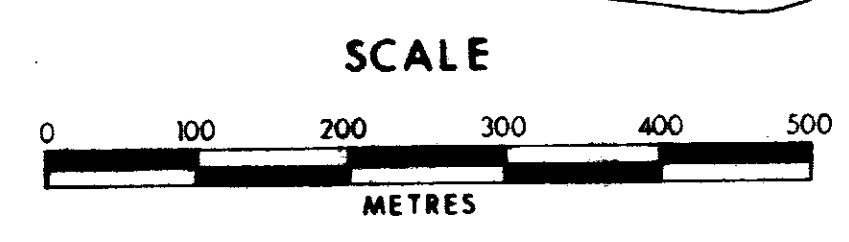
BUCK CREEK		NTS. 93 L/7E	
Drawn by: J.J.	Traced by: H.H.	MAGNETOMETER SURVEY	
Checked by: G.D.	Reviewed by: G.D.	OMINECA MD, BC.	
Scale: 1:5000	Date: NOV. 1981	Plate: 215-81-5	9310-0840



CLAIM BOUNDARIES

LINE 10000 N to 9,175 N n=1 a=50 m  
 LINE 9,015 N to 7,665 N n=1 a=100 m  
 INSTRUMENT:  
 TRANSMITTER: PHOENIX 1PT-1  
 RECEIVER: HUNTEC MK II  
 CONTOUR INTERVAL: 1, 1.5, 2, 3, 5, 7.5, 10, 100 ohm-metres  
 LOW RES. <math>\pm 150 \mu\text{m}</math>  
 MOD. RES. 150  $\pm$   $\mu\text{m}$

10,166  
 PART  
 2 of 2



BUCK CREEK		NTS 93/1/7E
RESISTIVITY (ohm-metres) N = 1		
OMINECA M.D., B.C.		
Scale: 1:5000	Date: NOV. 1981	Plate: 215-81-4