

COMINCO LTD.

EXPLORATION  
N.T.S. 82M/13

WESTERN DISTRICT

INDUCED POLARIZATION, VLF-EM, AND MAGNETICS SURVEY

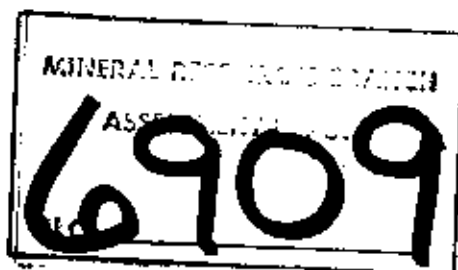
CK CLAIMS

Raft River Area, B.C., Kamloops Mining Division

Latitude: 51°55'N; Longitude 119°35'W

Work Performed: July 28 - August 8, 1978

On Claims: CK 1, 2, 3, 13, 47, 48, 81,  
83-86



Part 2 of 2

OCTOBER 1978

ALAN SCOTT

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    VLF Electromagnetics

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\* \* \* \* \*

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Plate 132-78-1a  
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General Location Map  
CK Claim Map  
Magnetic data values and contour plan  
Induced Polarization and Apparent Resistivity  
Pseudo Sections, VLF Profiles where obtained.

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Cost Statement  
Certification

## INTRODUCTION

The CK claims are located some 150 kilometers north of Kamloops, B.C., as indicated on the accompanying location plan, plate 132-78-1a. The lines surveyed are indicated on the claim map, plate 132-78-2a.

During the period July 28 - August 8, 1978, a Cominco geophysical crew under the direction of G. J. Niemeyer, geophysical technician, completed some 13.0 line kilometers of total field magnetics survey, some 12.6 line kilometers of VLF-Electromagnetics survey, and some 12.9 line kilometers of induced polarization survey. The surveys were an extension of work done earlier in the season, and which has been filed in an earlier report for assessment credits (June 1978).

This report describes these geophysical surveys, and discusses the results obtained.

## LOCATION AND ACCESS

The CK claims lie at approximate geographic coordinates of 51°55'N latitude, by 119°35'W longitude and are in the Kamloops Mining Division.

Access is by Highway No. 5 some two and a half miles north of Clearwater then by logging road along the west side of Raft River to McClosky Creek.

## GEOPHYSICAL SURVEYS

### Magnetic Survey

The magnetic survey was done by Boris Lumm, and John Reader. A Scintrex MP-2 total field proton precession magnetometer was used. The instrument has a digital display that reads to the nearest gamma. The data was corrected for diurnal variation using the usual base and sub base station looping method.

Readings were normally taken at 25 meter intervals on cross lines 100 meters apart, with fill in work done in anomalous areas. The data is presented in contour plan form as accompanying plate 132-78-3a.

### VLF Survey

The VLF survey was also conducted by Boris Lumm and John Reader. A Crone Radem VLF-EM receiver was utilized on the survey, with station NLK (Seattle, Washington at 18.6 KHz) serving as the primary VLF field. The dip angle of the resultant field and the horizontal component of the field strength were the parameters measured on the survey, and they are presented in profile form on the IP pseudo sections.

Readings were taken at 25 meter intervals. The dip angle data is plotted so as to give a "left wave crossover" over a conductor.

### Induced Polarization

G. J. Niemeyer, geophysical technician, was the party chief/receiver operator on the IP survey.

A Scintrex IPR-8 receiver in combination with a Huntex 7.5 KW motor generator/transmitter were deployed on the survey. The equipment measures the chargeability response in the time domain, employing a 2 second current on and 2 second current off alternating polarity square wave signal. The data plotted is the  $M_{232}$  value and the units are millivolts per volt. To convert to the more usual millisecond value (such as would be obtained with the IPR-7) the values should be multiplied by 0.7 for a "typical" decay curve. The reader is referred to the Scintrex manual for a more detailed discussion of this instrument.

The pole-dipole electrode array was used on the survey, with an "a" spacing of 50 meters and "n" separations of 1,2,3, and 4. Readings were taken at 50 meter intervals on crosslines 100 meters apart. In addition, a few lines were surveyed with an "a" spacing of 25 meters to obtain a more precise location of the anomaly. The chargeability and apparent resistivity data is presented in standard pseudo section form on accompanying plates 132-78-14 to 132-78-29 inclusive.

## DESCRIPTION OF RESULTS

### Magnetic Survey

The magnetic data is presented in contour plan form on plate 132-78-3a. The magnetic data from the earlier survey (reported on in June 1978) is also shown on the plan, but in lighter print.

The overall strike of the magnetic contours is from south south east to north north west, and presumably this reflects the geological strike.

The strongest magnetic highs that were detected on the survey are centered at the following locations:

Line 6 + 00S; 1300 meters E.

Line 0 + 50N; 350 meters E.

Line 4 + 00N; 700 meters E.

Line 9 + 00S; 1575 meters E.

### VLF Survey

The VLF field strength and dip angle data is plotted in profile form on the IP pseudo sections, plates 132-78-14 to 29. The dip angle data is plotted so as to give a left wave crossover over the conductor.

Due to fairly abrupt changes in topography in the survey area, care must be taken in evaluating the VLF results. The objective of the VLF survey was that if a VLF conductor was detected coincidentally with an IP anomaly, it would assist in interpretation of that IP anomaly.

VLF conductors without coincident IP response, are not considered to be of interest.

The best defined VLF conductor of the survey is on line 7 + 00S. The dip angle crossover is located at 1350 meters east, with the field strength anomaly lying between 1350 to 1375 meters east. It is coincident with a chargeability high.

### Induced Polarization Survey

The induced polarization (chargeability) and apparent resistivity data is presented in standard pseudo section format as plates 132-78-14 to 132-78-29.

Detail work at an "a" spacing of 25 meters was done over an anomaly detected on the earlier survey (June 1978), in particular, lines 1 + 00N, 1 + 50N, and 2 + 00N were resurveyed. The anomaly peaks at 74 millivolts/volt on line 2 + 00N (n = 2), and at 54 mv/v on line 1 + 50N.

Detail work was also done over a "new" anomaly on lines 6 + 50S, 7 + 00S, 7 + 50S, and 8 + 00S. This anomaly is coincident with a magnetic high and weak VLF EM conductors. The strongest IP response is on line 7 + 50S, where a reading of 55 mv/v was obtained (a = 25n, n = 4). Lower amplitude anomalies were detected both to the NNW and SSE of this central anomaly.

and on strike to it.

A broader zone of high chargeability values strikes subparallel, and to the east of, this zone. It is characterized by higher resistivities and poorly defined chargeability highs, more indicative of high background response, than of distinct anomalies.

### CONCLUSIONS

Geophysical survey work which was done in the early summer of 1978, was expanded upon in the late summer of 1978. The earlier work was filed for assessment credits in a separate report (June 1978).

Portions of the CK claims were surveyed by multi separation pole dipole time domain IP, total field magnetics, and VLF electromagnetics.

Two anomalous zones of coincident high chargeability, high magnetic field strength, and weak VLF conductors, were detailed with the IP method at a shorter spacing.

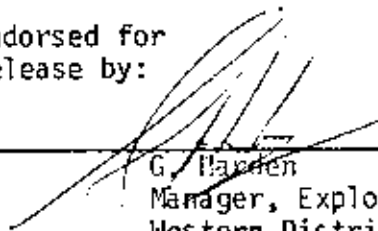
The overall geophysical trends, within which these anomalies lie, are open to the NNW and SSE. If encouraging results are obtained in evaluating the source of these anomalies, further survey work along this trend is warranted.

Respectfully submitted by:



Alan Scott  
Geophysicist

Endorsed for  
Release by:



G. Platten  
Manager, Exploration  
Western District

ARS/hmr

3 October 1978

Distribution:

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

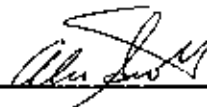
APPENDIX I

IN THE MATTER OF THE B.C. MINERAL ACT  
AND IN THE MATTER OF A GEOPHYSICAL PROGRAMME  
CARRIED OUT ON PORTIONS OF THE CK MINERAL CLAIMS  
ON THE CK PROPERTY  
LOCATED 150 KM NORTH OF KAMLOOPS IN THE KAMLOOPS MINING DIVISION  
OF THE PROVINCE OF BRITISH COLUMBIA MORE PARTICULARLY  
N.T.S. 82M/13

S T A T E M E N T

I, ALAN 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 ANNEXED HERETO AND MARKED AS "APPENDIX II" TO THIS STATEMENT  
IS A TRUE COPY OF EXPENDITURES INCURRED ON GEOPHYSICAL SURVEY AND  
LINECUTTING ON THE CK MINERAL CLAIMS;
3. THAT THE SAID EXPENDITURES WERE INCURRED BETWEEN THE 28th OF JULY,  
AND THE 8th OF AUGUST, 1978, FOR THE PURPOSE OF MINERAL EXPLORATION  
OF THE ABOVE NOTED CLAIMS.



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Alan Scott,  
Geophysicist

APPENDIX II

CK CLAIMS

STATEMENT OF EXPENDITURES

(Line Cutting; IP, VLF, and Magnetic Surveys)

SALARIES: (Field work done July 28 - August 8 inclusive)

G.J. Niemeyer	11 days @ \$120.00/day	\$ 1,320.00
R. Grant	11 days @ \$ 82.00/day	902.00
I. Cummings	11 days @ \$ 82.00/day	902.00
J. Reader	11 days @ \$ 82.00/day	902.00
B. Lumm	11 days @ \$ 82.00/day	902.00
T. Maurer	11 days @ \$ 82.00/day	902.00
M. Seifert	11 days @ \$ 82.00/day	902.00
		<hr/>
		\$ 6,732.00

MISCELLANEOUS:

Food, lodging, gas, consumables 2,686.38

OPERATING CHARGES:

(towards report, drafting, supervision)  
10 survey days @ \$175.00/day 1,750.00

EQUIPMENT RENTALS AND CHARGES:

10 survey days @ \$282.00/day	2,820.00
1 day truck rental only @ \$30.00/day	30.00
	<hr/>
	2,850.00

LINE CUTTING:

13.9 kilometers @ \$330.00/km 4,587.00

TOTAL: - \$ 16,855.38



Alan Scott,  
Geophysicist



APPENDIX III

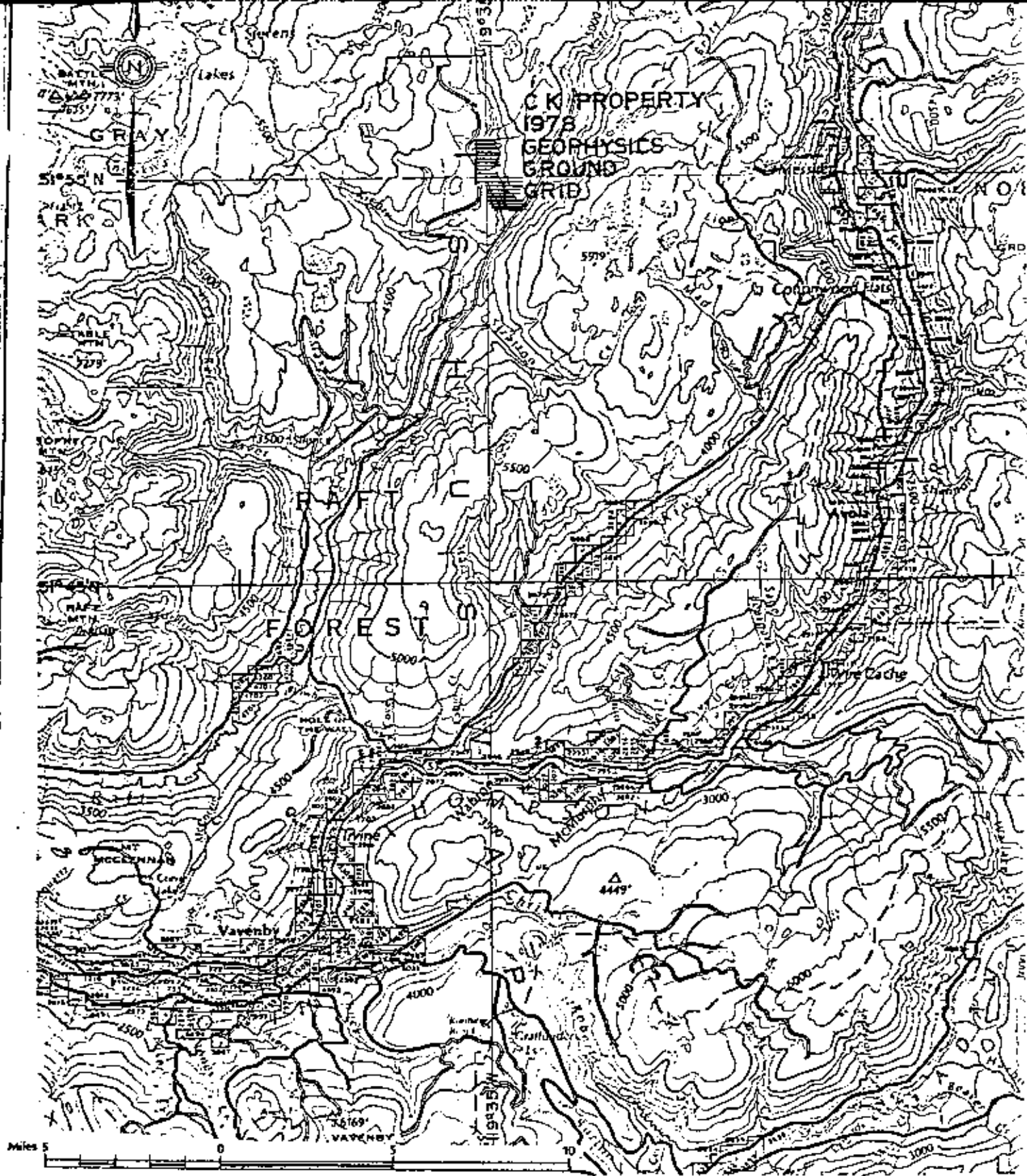
C E R T I F I C A T I O N

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

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

  
\_\_\_\_\_  
Alan Scott,  
Geophysicist

ARS/hmr  
3 October 1978



N.T.S.  
 82 M

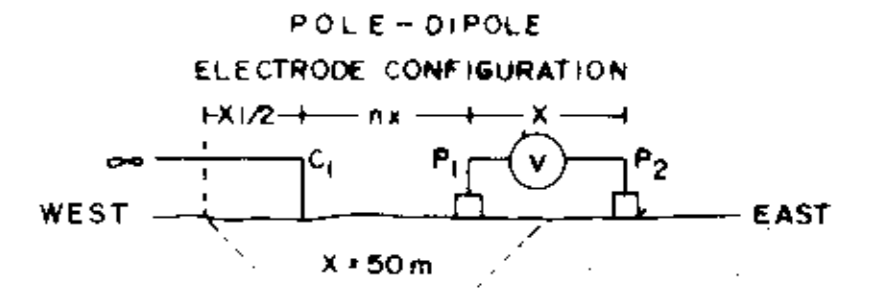
Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

**LOCATION MAP**  
**KAMLOOPS M.D., B.C.**

Scale: 1:250,000      Date: JUNE 1978      Plate: 132-78-1a

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D.B.C.

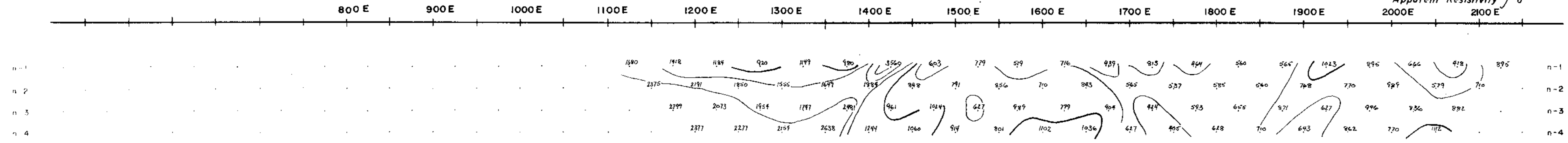
LINE NO. 11+00.5



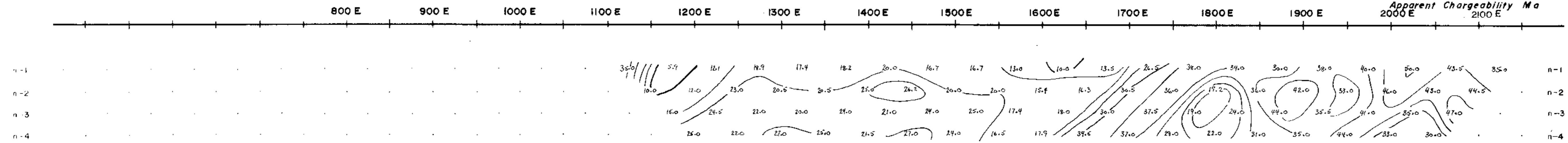
PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

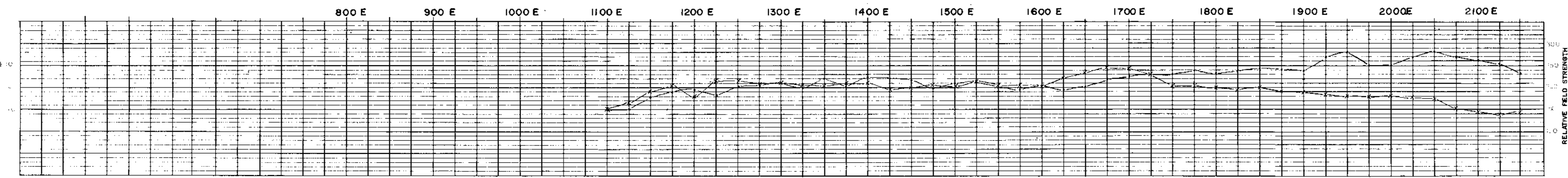
Apparent Resistivity  $\rho_a$   
2000 E 2100 E



Apparent Chargeability  $M_a$   
2000 E 2100 E



IN PHASE (DIP ANGLE) DEGREES



SCALE

DATE SURVEYED AUGUST 4, 1978

CONTOUR INTERVALS:

APPROVED *[Signature]*

APP RES — LOGARITHMIC  
 APP CHARG — 5.0 MV/V  
 — IN PHASE (DIP ANGLE) LEFT  
 — WAVE CROSSOVER  
 x — x FIELD STRENGTH

DATE, **Part 2 of 2**  
**6909**

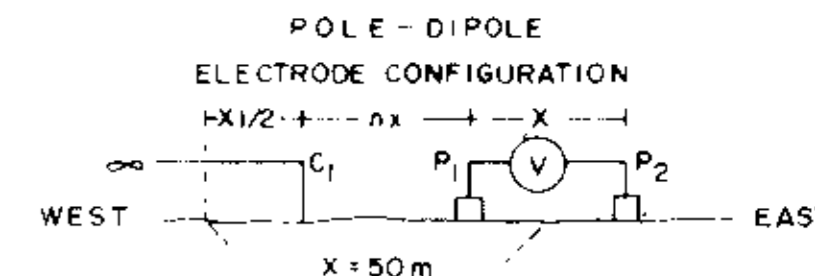
TRANSMITTER — HUNTEC 7.5 Km  
 RECEIVER — IPR 8  
 VLF INSTRUMENT — CRONE RADEM  
 FROM NLK STATION, SEATTLE WASH. USA

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

LINE 11+00.5

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D. B.C.

LINE NO. 10±0.0S



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL D. POLE

DATE SURVEYED AUGUST 4, 1978

CONTOUR INTERVALS

APP RES LOGARITHMIC

APP CHARG 5.0 MV/V

IN PHASE (DIP ANGLE) LEFT

WAVE CROSSOVER

X — X FIELD STRENGTH

TRANSMITTER HUNTEC 7.5 Km

RECEIVER IPR 8

VLF INSTRUMENT - CRONE RADEM

FROM NLK STATION, SEATTLE WASH. USA

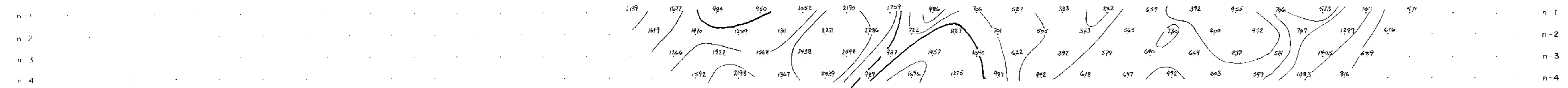
INDUCED POLARIZATION AND RESISTIVITY SURVEY

SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

Part 2 of 2  
6909

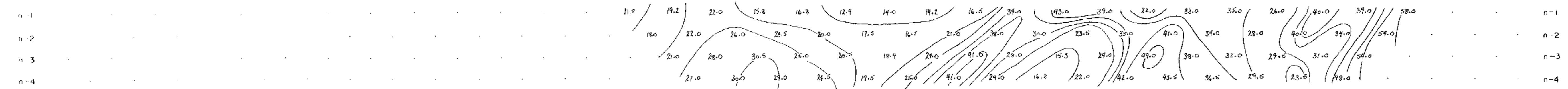
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Apparent Resistivity  $\rho_a$   
2000 E 2100 E



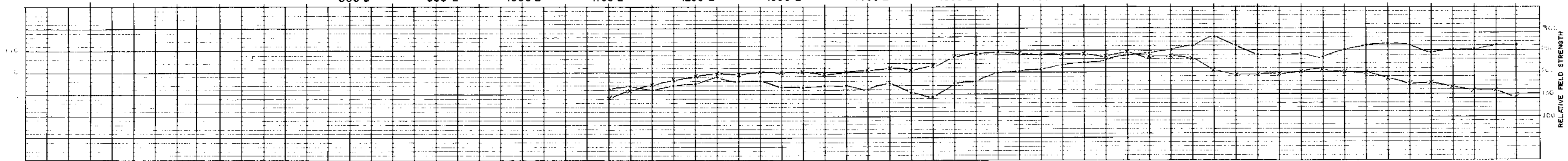
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Apparent Chargeability  $M_a$   
2000 E 2100 E



800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E 1700 E 1800 E 1900 E 2000 E 2100 E

IN PHASE (DIP ANGLE) DEGREES

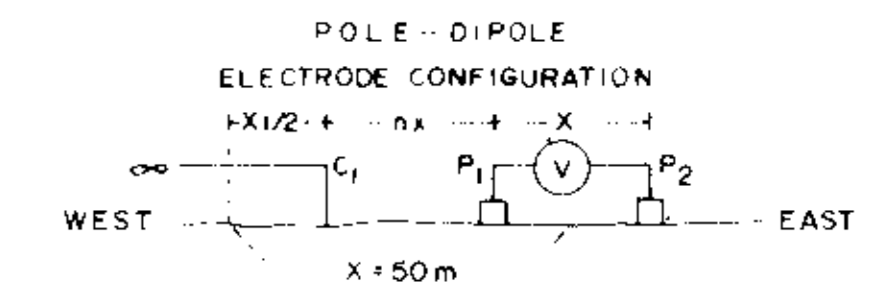


RELATIVE FIELD STRENGTH

LINE 10±0.0S

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D. B.C.

LINE NO. 9+00S



PLOTTING POINT  
n=1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

SCALE \_\_\_\_\_ DATE SURVEYED AUGUST 3, 1978

CONTOUR INTERVALS \_\_\_\_\_ APPROVED *[Signature]*

APP RES LOGARITHMIC

APP CHARG 5.0 MV/V

IN PHASE (DIP ANGLE) LEFT

WAVE CROSSOVER

X FIELD STRENGTH

DATE **Part 2 of 2**

TRANSMITTER HUNTEC 7.5 Km

RECEIVER IPR 8

VLF INSTRUMENT-CRONE RADEM

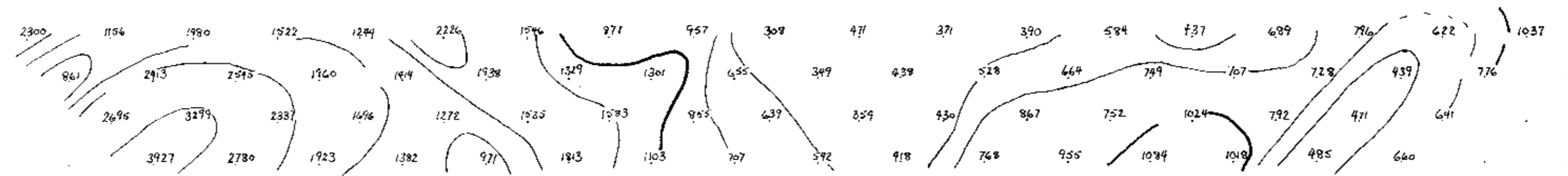
FROM NLK STATION, SEATTLE WASH. USA

**6909**

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

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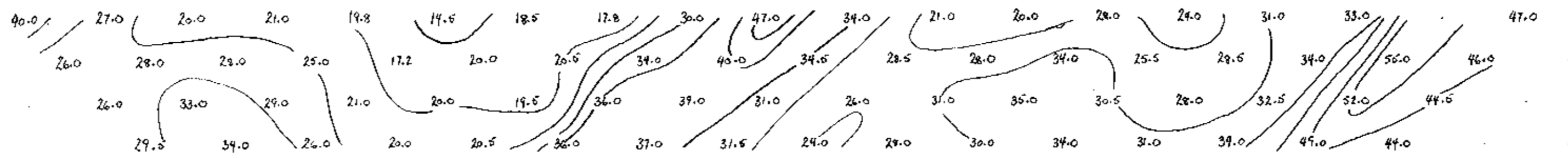
Apparent Resistivity  $\rho_a$   
2000 E 2100 E



n-1  
n-2  
n-3  
n-4

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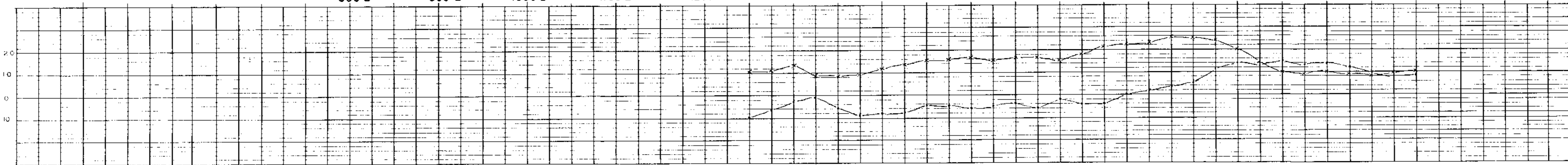
Apparent Chargeability  $M_a$   
2000 E 2100 E



n-1  
n-2  
n-3  
n-4

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IN PHASE (DIP ANGLE) DEGREES

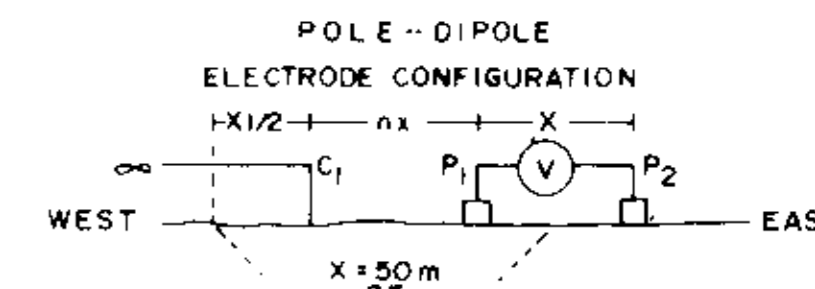


RELATIVE FIELD STRENGTH

LINE 9+00S

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D. B.C.

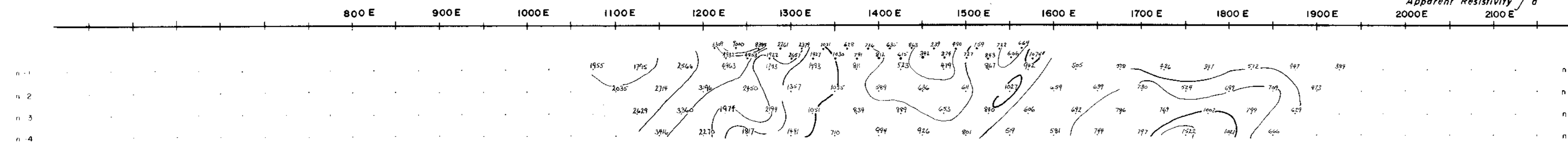
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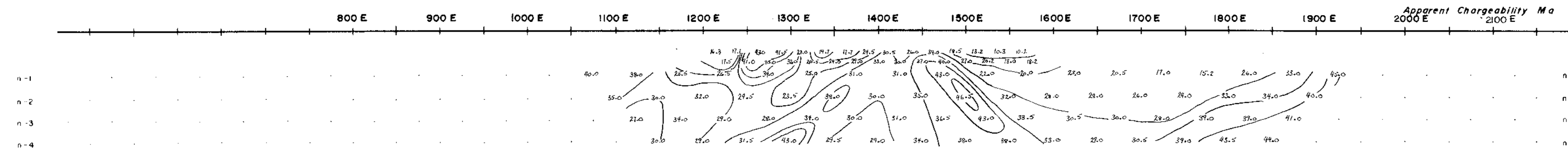
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CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

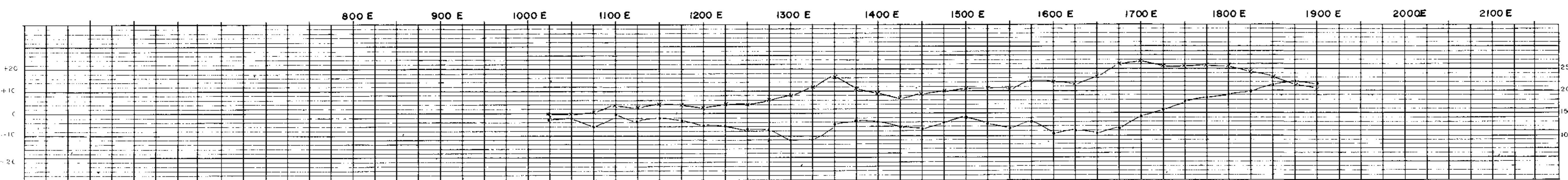
Apparent Resistivity  $\rho_a$



Apparent Chargeability  $M_a$



IN PHASE (DIP ANGLE) DEGREES



SCALE \_\_\_\_\_ DATE SURVEYED AUGUST 3, 1928

CONTOUR INTERVALS \_\_\_\_\_

APP RES (100/1000) \_\_\_\_\_ APPROVED \_\_\_\_\_

APP CHARG -- 5.0 MV/V \_\_\_\_\_ DATE \_\_\_\_\_

IN PHASE (DIP ANGLE) LEFT \_\_\_\_\_

WAVE CROSSOVER \_\_\_\_\_

X -- X FIELD STRENGTH \_\_\_\_\_

TRANSMITTER -- HUNTEC 7.5 Km

RECEIVER -- IPR 8

VLF INSTRUMENT -- CRONE RADEM

FROM NLK STATION, SEATTLE WASH. USA

INDUCED POLARIZATION AND RESISTIVITY SURVEY

SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

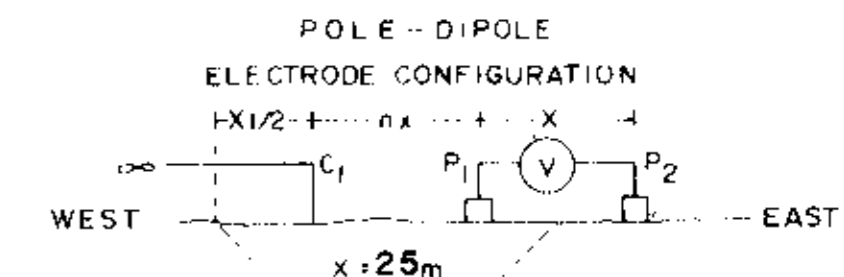
Part 2 of 2

6909

LINE B+00.S

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D. B.C.

LINE NO. 7+50 S



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

SCALE :

DATE SURVEYED AUGUST 9, 1978

CONTOUR INTERVALS :

APPROVED *JA*

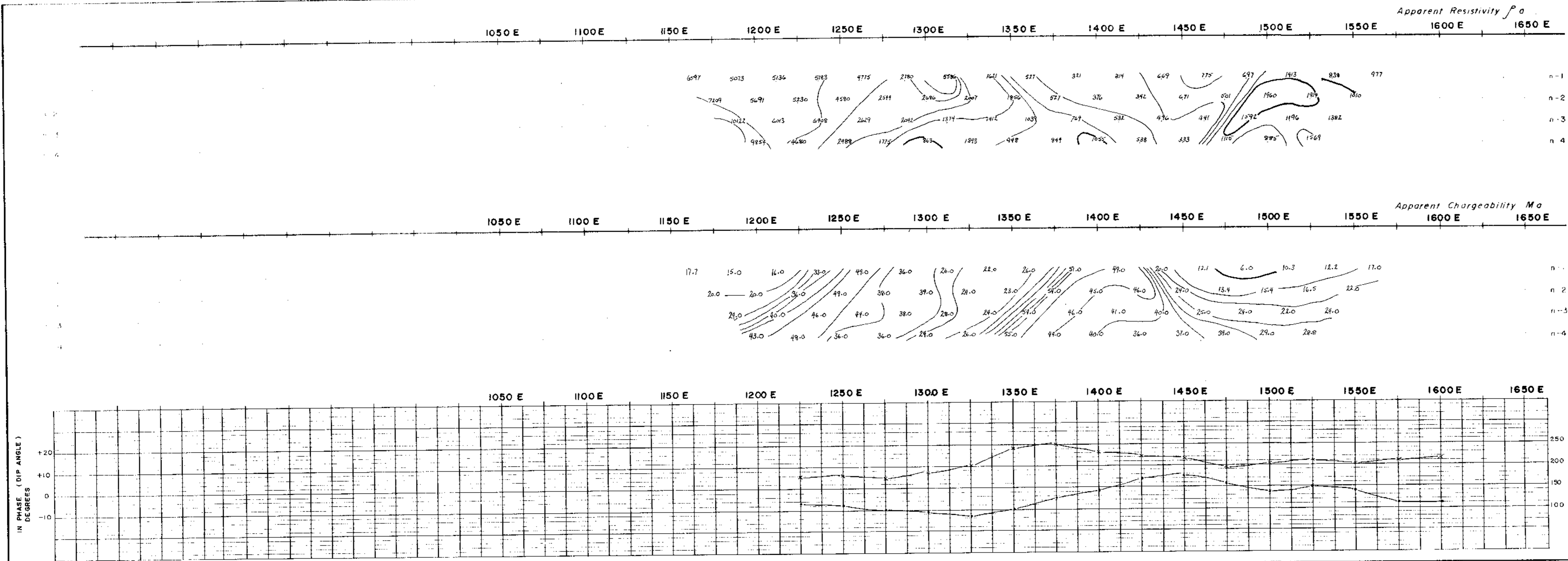
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APP CHARG — 5.0 MV/V

DATE

— IN PHASE (DIP ANGLE) LEFT  
— WAVE CROSSOVER  
x — x FIELD STRENGTH

TRANSMITTER — HUNTEC 7.5 Km  
RECEIVER — IPR 8  
VLF INSTRUMENT — CRONE RADEM  
FROM NLK STATION, SEATTLE WASH. USA

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



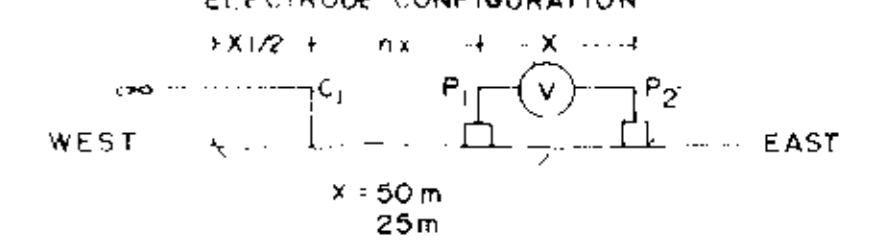
LINE 7+50 S

Part 2 of 2  
6909

COMINCO LTD.  
C.K. PROPERTY  
KAMLOOPS M.D.B.C.

LINE NO. 7+00 S.

POLE DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT

REF. 2, 3, 4

POTENTIAL ELECTRODE WEST OF POTENTIAL DIPOLE

DATE SURVEYED JULY 30, 1978  
JULY 8, 1978

INTERVALS

APP RES LOG PERCENT

APP MAG 5.0 MV/V

IN PHASE (DIP ANGLE) LEFT

WAVE CROSSOVER

x FIELD STRENGTH

TRANSMITTER HUNTED 2.5 KM

RECEIVER PR 8

VLF INSTRUMENT-CRONE RADEM

FROM NLK STATION, SEATTLE WASH. USA

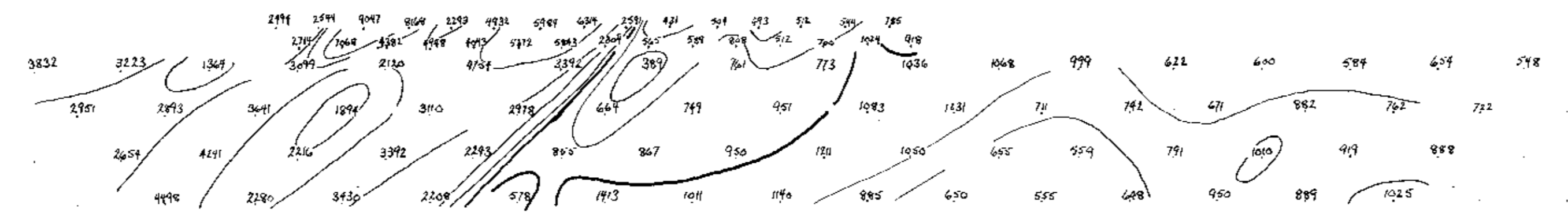
INDUCED POLARIZATION AND RESISTIVITY SURVEY

SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

Part 2 of 2  
6909

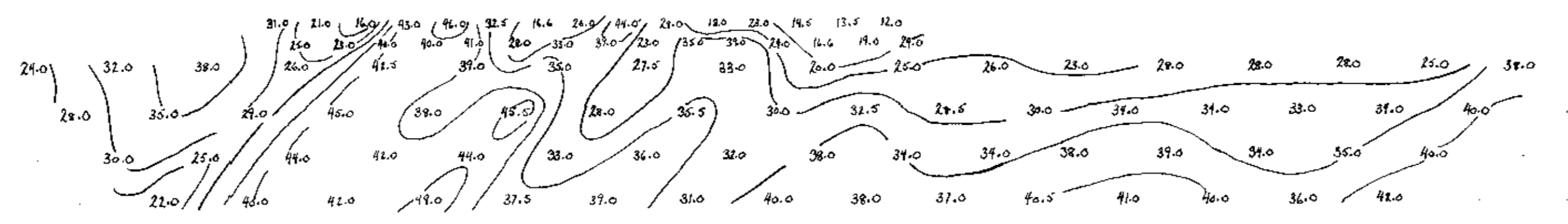
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Apparent Resistivity  $\rho_a$   
2000 E 2100 E

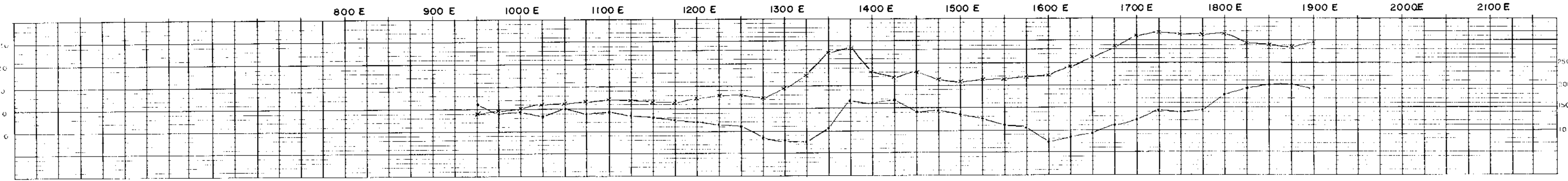


800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E 1700 E 1800 E 1900 E 2000 E 2100 E

Apparent Chargeability  $M_a$   
2000 E 2100 E



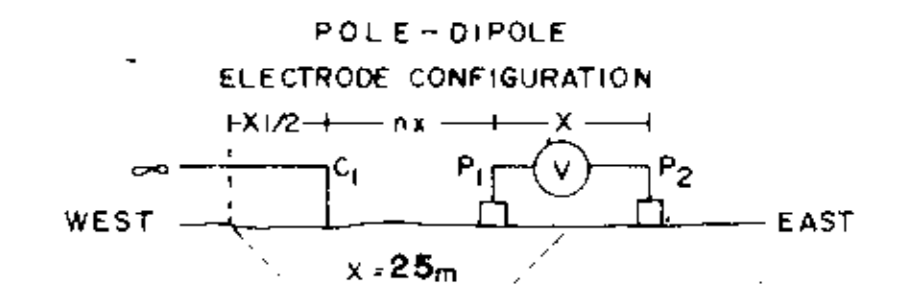
IN PHASE (DIP ANGLE) DEGREES



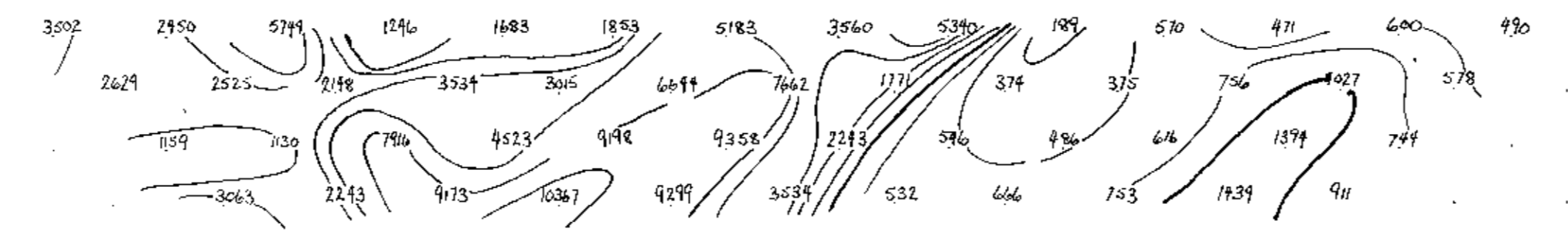


COMINCO LTD.  
C.K. PROPERTY  
KAMLOOPS M.D. B.C.

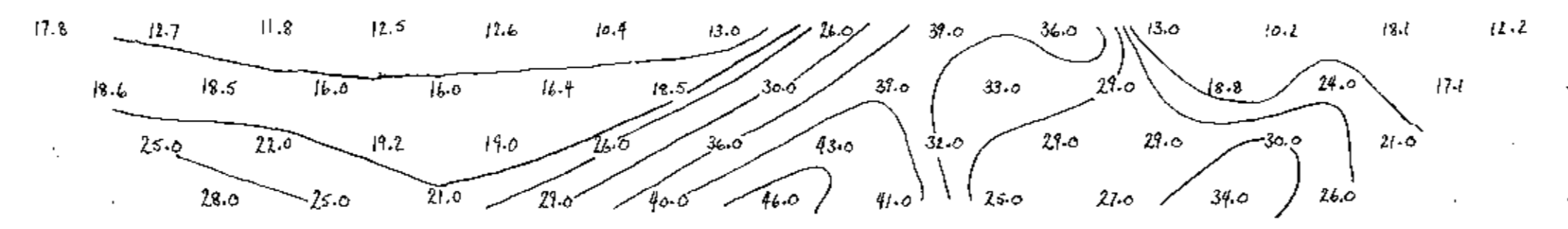
LINE NO. 6 + 50 S



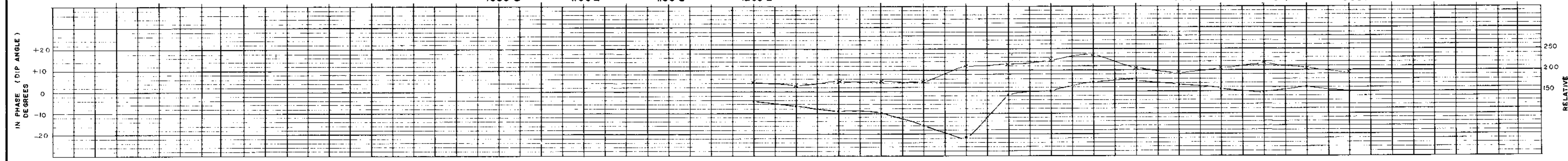
Apparent Resistivity  $\rho_a$   
1050 E 1100 E 1150 E 1200 E 1250 E 1300 E 1350 E 1400 E 1450 E 1500 E 1550 E 1600 E 1650 E



Apparent Chargeability  $M_a$   
1050 E 1100 E 1150 E 1200 E 1250 E 1300 E 1350 E 1400 E 1450 E 1500 E 1550 E 1600 E 1650 E



1050 E 1100 E 1150 E 1200 E 1250 E 1300 E 1350 E 1400 E 1450 E 1500 E 1550 E 1600 E 1650 E

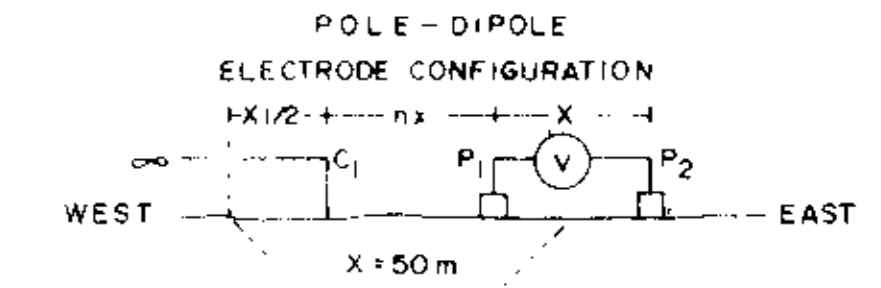


SCALE 1:1  
DATE SURVEYED AUGUST 8, 1978  
APPROVED *[Signature]*  
DATE *Part 2 of 2*  
*6909*  
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
SURVEYED BY-COMINCO LTD., EXPLORATION DIVISION

LINE 6 + 50 S

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D.B.C.

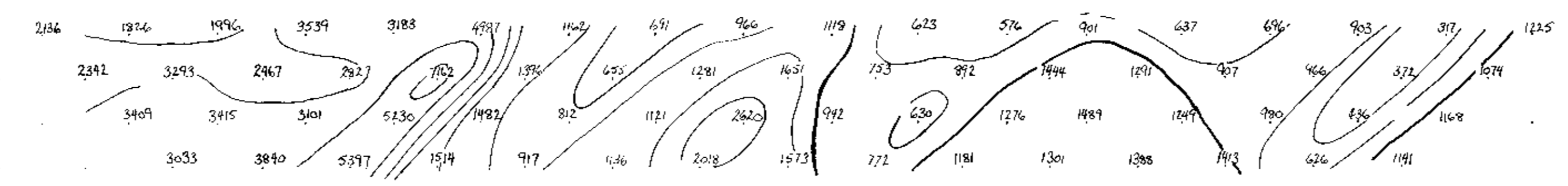
LINE NO. 6+00S



PLOTTING POINT  
n=1, 2, 3, 4  
CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

Apparent Resistivity  $\rho_a$   
2000 E 2100 E

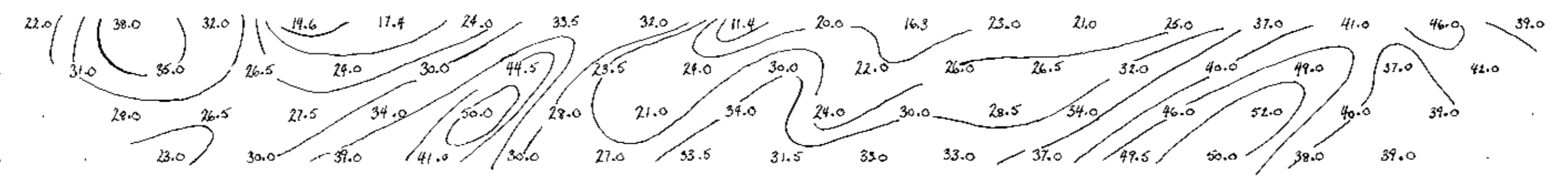
800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E 1700 E 1800 E 1900 E



n-1  
n-2  
n-3  
n-4

Apparent Chargeability  $M_a$   
2000 E 2100 E

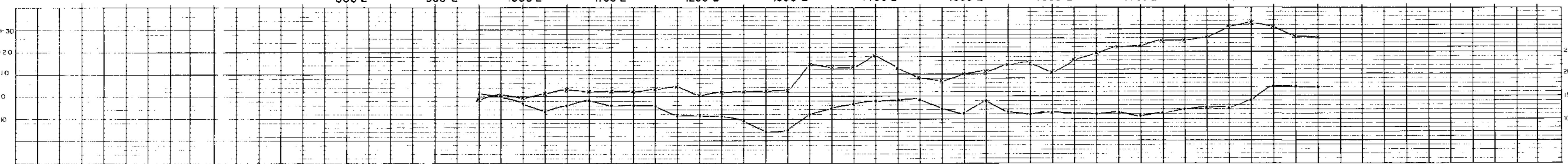
800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E 1700 E 1800 E 1900 E



n-1  
n-2  
n-3  
n-4

800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E 1700 E 1800 E 1900 E 2000 E 2100 E

IN PHASE (DIP ANGLE) DEGREES



RELATIVE FIELD STRENGTH

SCALE: DATE SURVEYED: JULY 31, 1978  
 APPROVED: *[Signature]*  
 DATE: *[Blank]*  
 TRANSMITTER - HUNTEC 7.5 Km  
 RECEIVER - IPR 8  
 VLF INSTRUMENT - CRONE RADEM  
 FROM NLK STATION, SEATTLE WASH. USA

Part 2 of 2  
6909

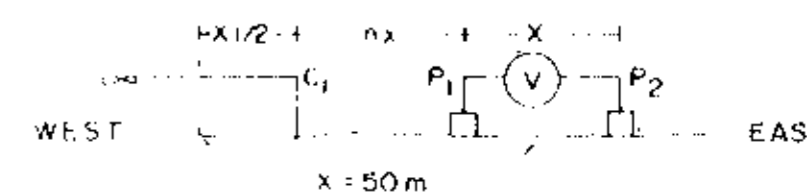
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
 SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 6+00S

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D. B.C.

LINE NO. 5+50S

POLE DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
REF. 2, 3, 4

POTENTIAL MEASUREMENT ELECTRODE WEST OF POTENTIAL DIPOLE

DATE SURVEYED AUGUST 9, 1978

APPROVED

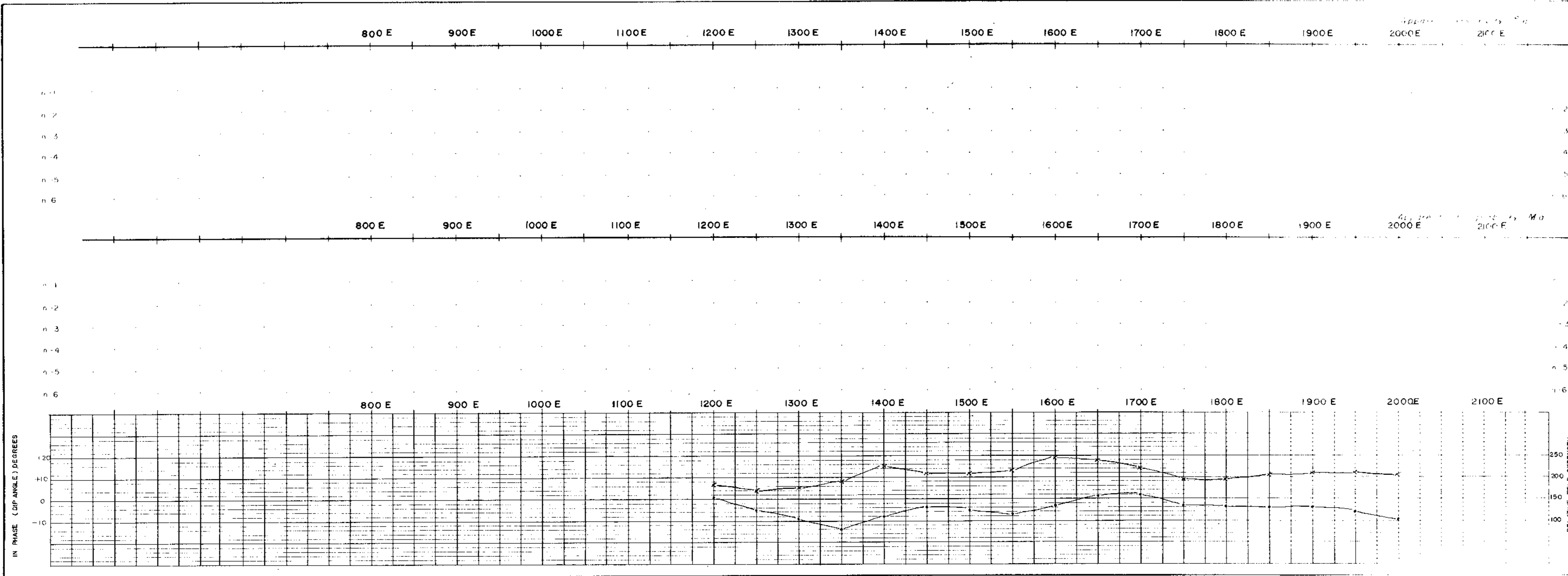
DATE

— IN PHASE (DIP ANGLE) LEFT  
 — WAVE CROSSOVER  
 x — FIELD STRENGTH

VLF INSTRUMENT—CRONE RADEM  
FROM NLK STATION, SEATTLE WASH. USA

NOMINAL POLARIZATION AND RESISTIVITY SURVEY  
CONDUCTED BY COMINCO LTD., EXPLORATION DIVISION

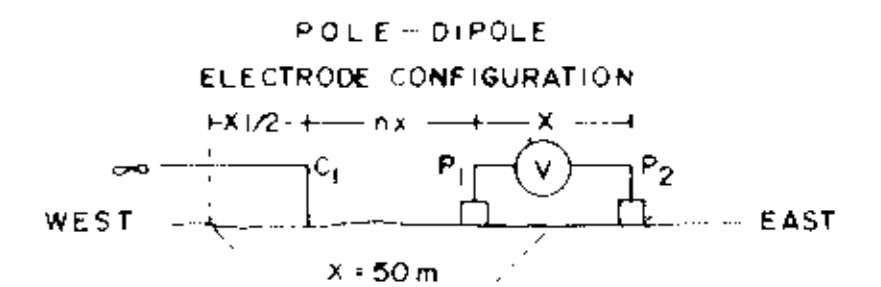
*Part 2 of 2*  
**6909**



LINE 5+50S

COMINCO LTD.  
C.K. PROPERTY  
KAMLOOPS M.D.B.C.

LINE NO. 5+00S



PLOTTING POINT  
n=1, 2, 3, 4  
CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

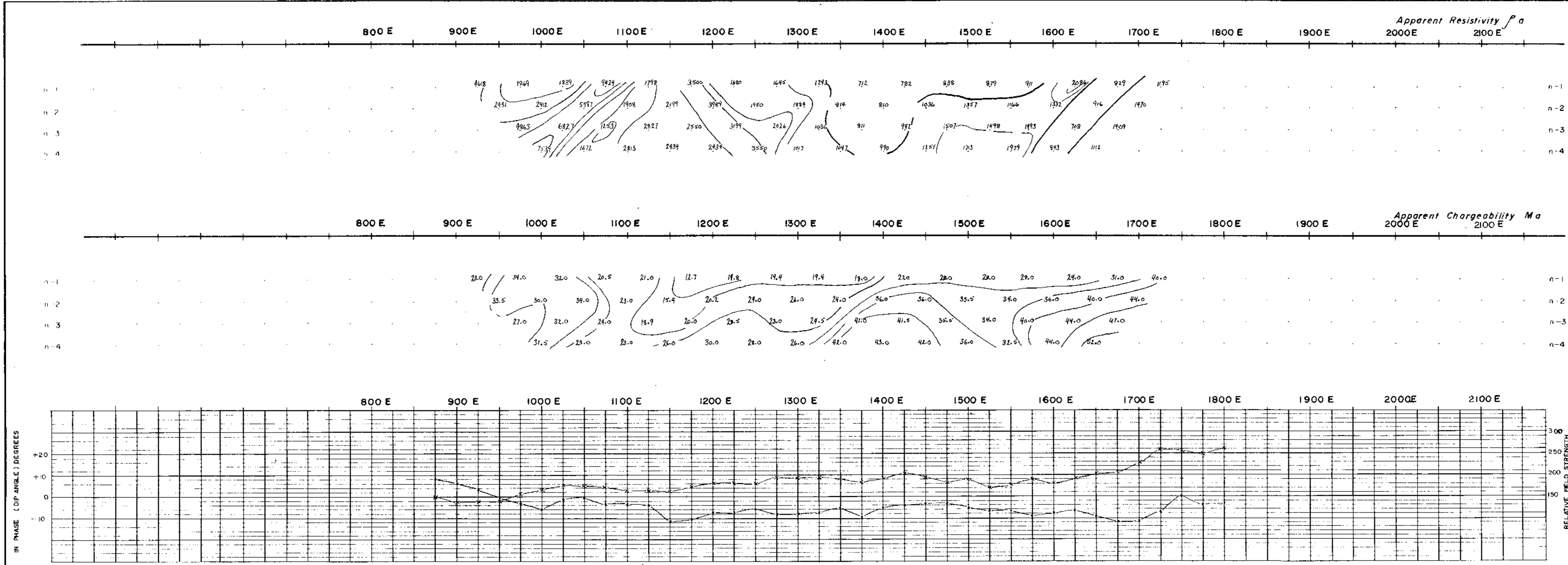
SCALE DATE SURVEYED JULY 31, 1978

CONTOUR INTERVALS  
APP RES LOGARITHMIC  
APP CHARG 5.0 MV/V  
IN PHASE (DIP ANGLE) LEFT  
WAVE CROSSOVER  
x FIELD STRENGTH  
TRANSMITTER HUNTEC 7.5 KM  
RECEIVER IPR 8  
VLF INSTRUMENT-CRONE RADEM  
FROM NLK STATION, SEATTLE WASH. USA

APPROVED *[Signature]*  
DATE

Part 2 of 2  
6909

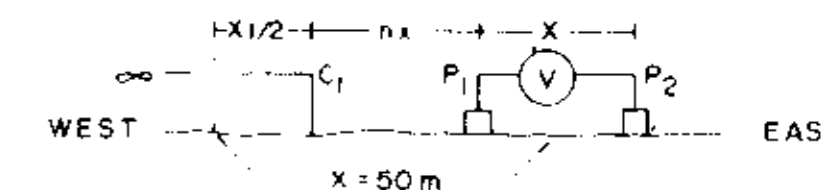
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION



# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D. B.C.

LINE NO. 4+00S

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL D. POLE

SCALE

DATE SURVEYED AUGUST 1, 1978

CONTOUR INTERVALS:

APP RES LOGARITHMIC

APP CHARG - 5.0 MV/V

IN PHASE (DIP ANGLE) LEFT

WAVE CROSSOVER

x - x FIELD STRENGTH

TRANSMITTER - HUNTEC 7.5 km

RECEIVER - IPR 8

VLF INSTRUMENT - CRONE RADEM

FROM NLK STATION, SEATTLE WASH. USA

APPROVED

DATE

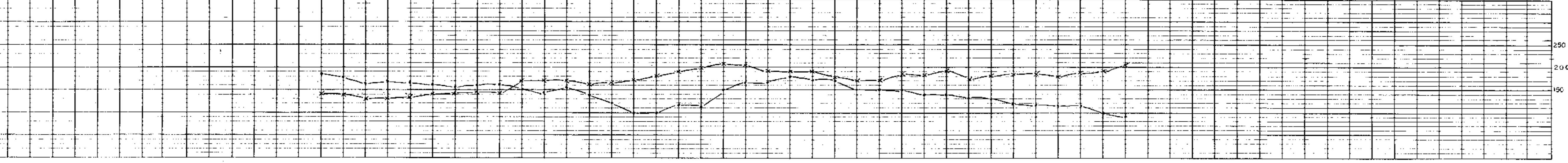
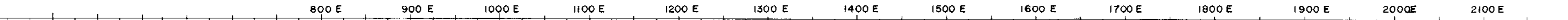
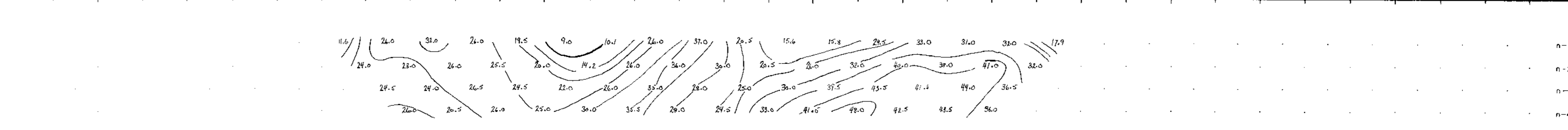
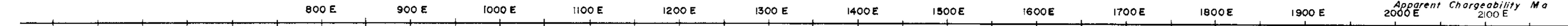
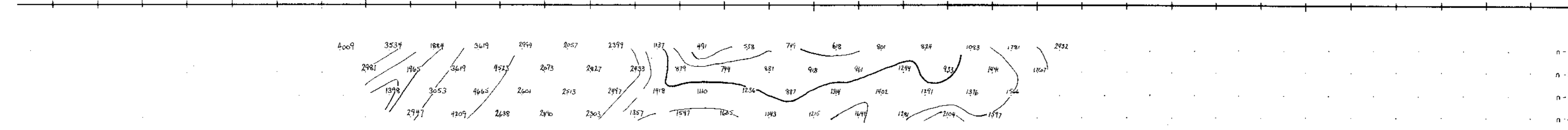
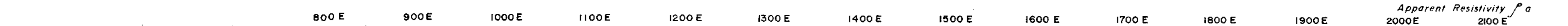
Part 2 of 2

6909

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

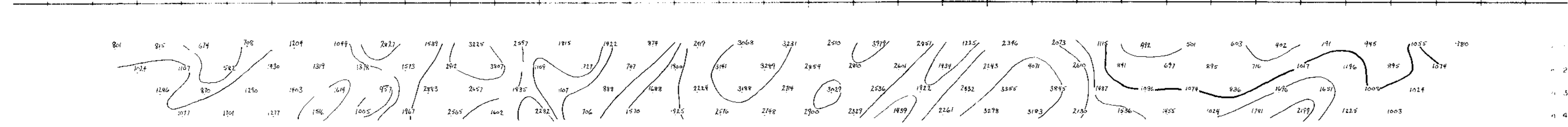
Apparent Resistivity  $\rho_a$   
2000 E  
2100 E

Apparent Chargeability  $M_a$   
2000 E  
2100 E

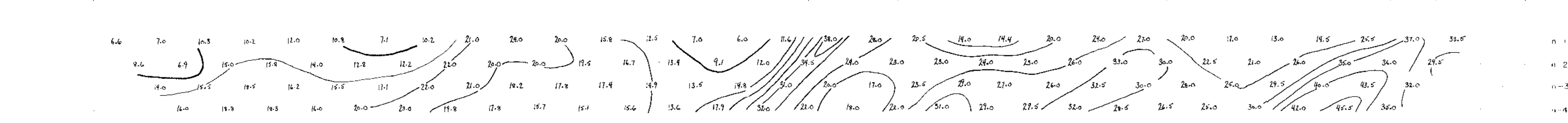


LINE 4+00S

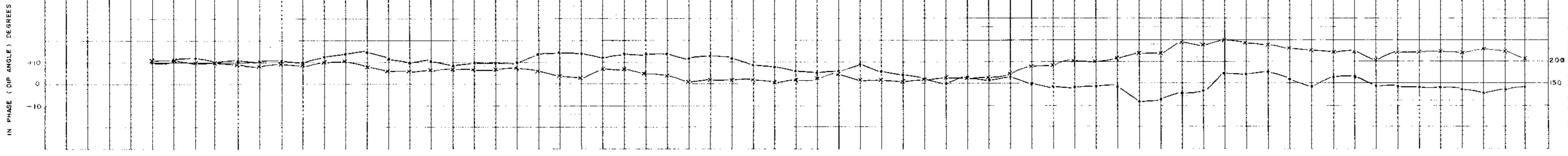
BL 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E



BL 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E



BL 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E 1600 E



COMINCO LTD.  
C.K. PROPERTY  
KAMLOOPS M.D.B.C.

LINE NO 3+00S

WEST ... EAST

AUGUST 1, 1978

LOGARITHMIC  
IN PHASE (DIP ANGLE)  
WAVE CROSSOVER  
FIELD STRENGTH  
TRANSMITTER ...  
VLF INSTRUMENT - CRONE RADEM  
FROM NLK STATION, SEATTLE WASH. USA

6909  
Part 2 of 2

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

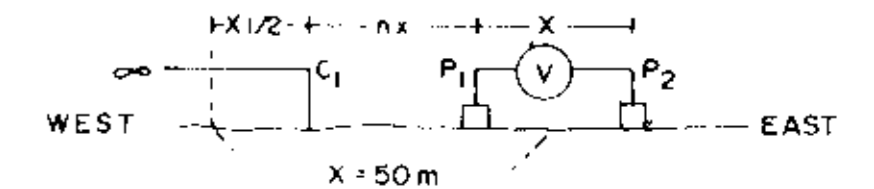
3100S

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D. B.C.

LINE NO. 2+00.5

POLE-DIPOLE

ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

SCALE

DATE SURVEYED AUGUST 2, 1978

CONTOUR INTERVALS:

APP RES - LOGARITHMIC

APP CHARG - 5.0 Mv/V

IN PHASE (DIP ANGLE)

WAVE CROSSOVER

X - FIELD STRENGTH

TRANSMITTER - HUNTEC 7.5 Km

RECEIVER - IPR 8

VLF INSTRUMENT - CRONE RADEM

FROM NLK STATION, SEATTLE WASH. USA

APPROVED

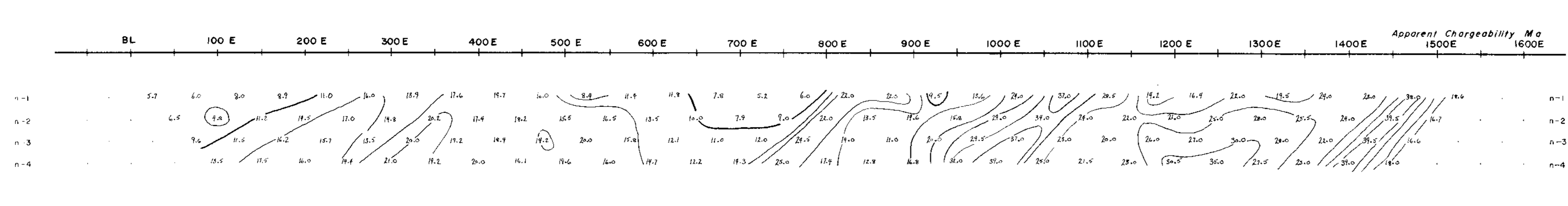
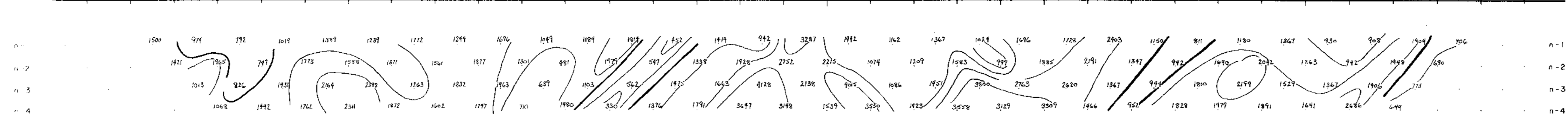
DATE

Part 2 of 2  
6909

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

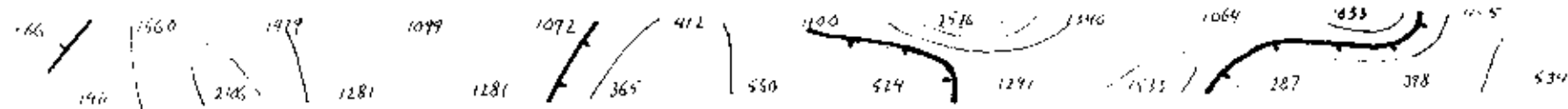
Apparent Resistivity  $\rho_a$

Apparent Chargeability  $M_a$



LINE 2+00.5

150E 200E 250E 300E 350E 400E 450E 500E 550E



COMINCO LTD.  
 C.K. PROPERTY  
 KAMLOOPS M.D. B.C.

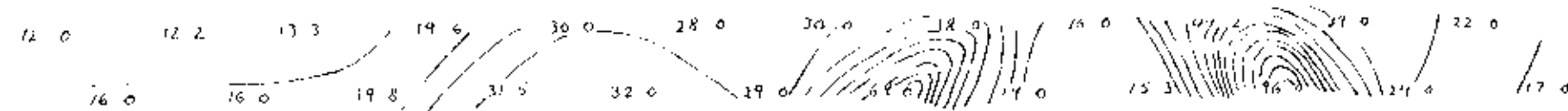
LINE NO 1+00N

DATE OF SURVEY  
 SURVEYOR INFORMATION  
 PROJECT NO.

WEST ... EAST  
 ... 250m

150E 200E 250E 300E 350E 400E 450E 500E 550E

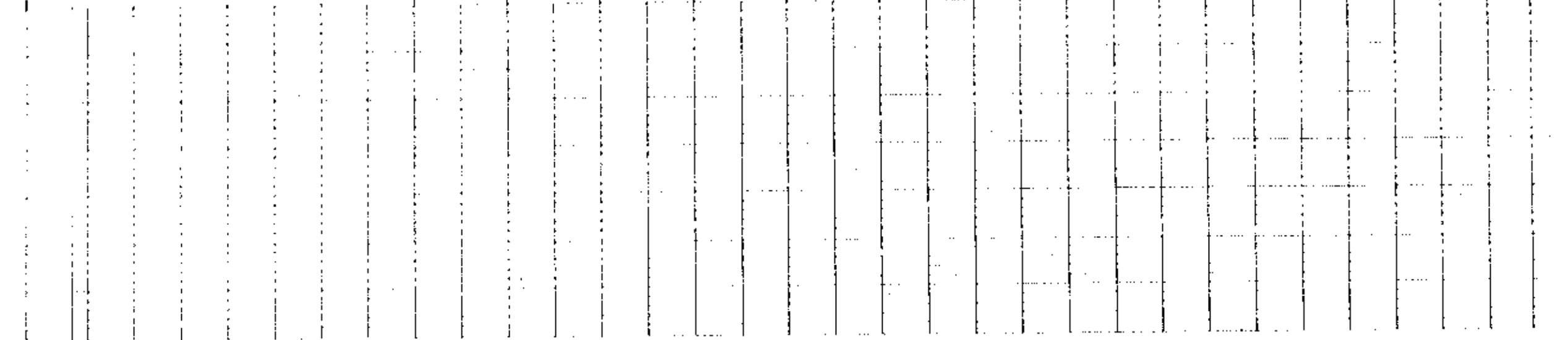
Apparent Chargeability Ma



n-1

n-2

150E 200E 250E 300E 350E 400E 450E 500E 550E



A PHASE OF ANGLE DEGREE

AUGUST 5, 1978

APPROX LOGARITHMIC  
 APP ...

Part 2 of 2  
 6909

CRONE ...  
 ...

VLF INSTRUMENT - CRONE RADEM  
 FROM NLK STATION, SEATTLE WASH. USA

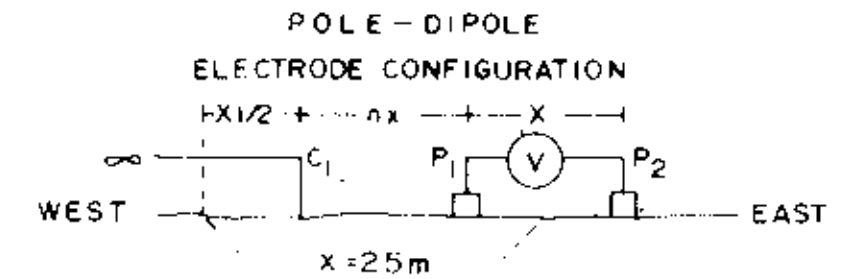
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
 SURVEYED BY COMINCO LTD. EXPLORATION DIVISION

NOOTI



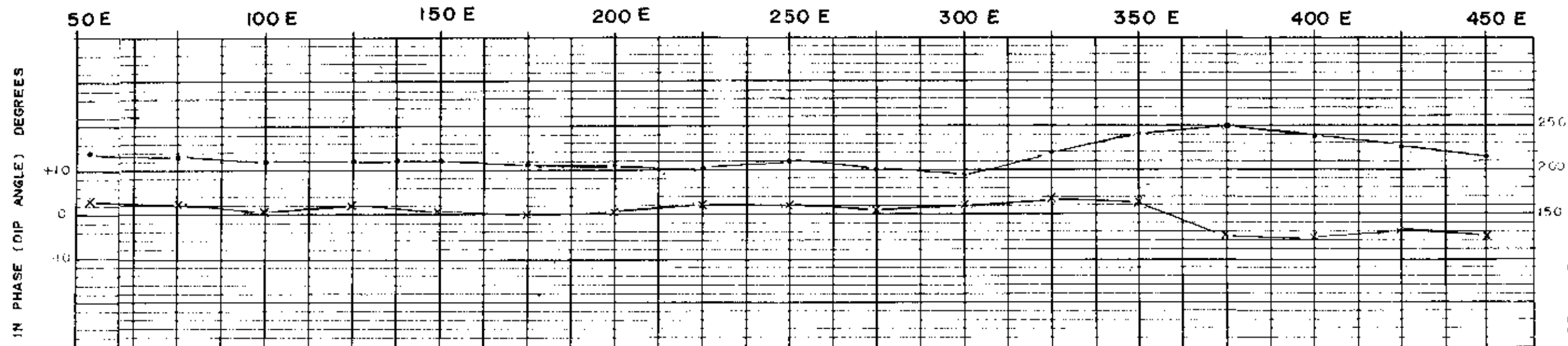
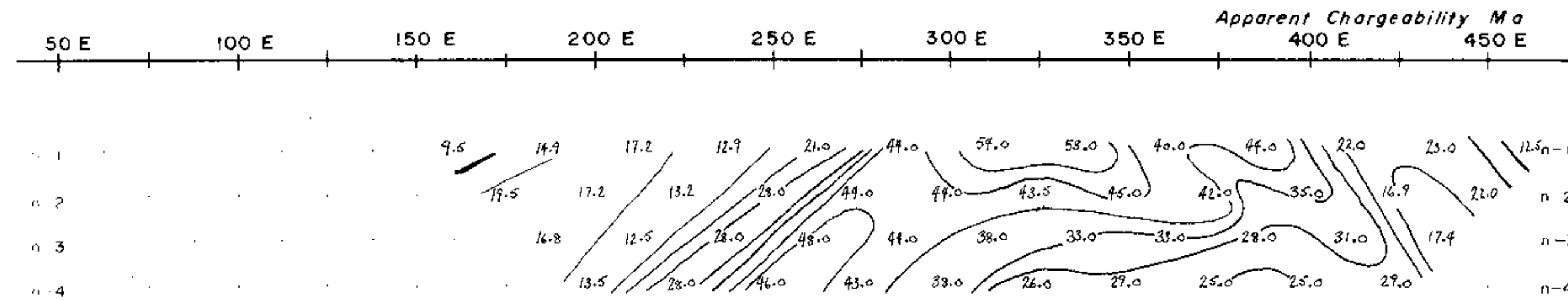
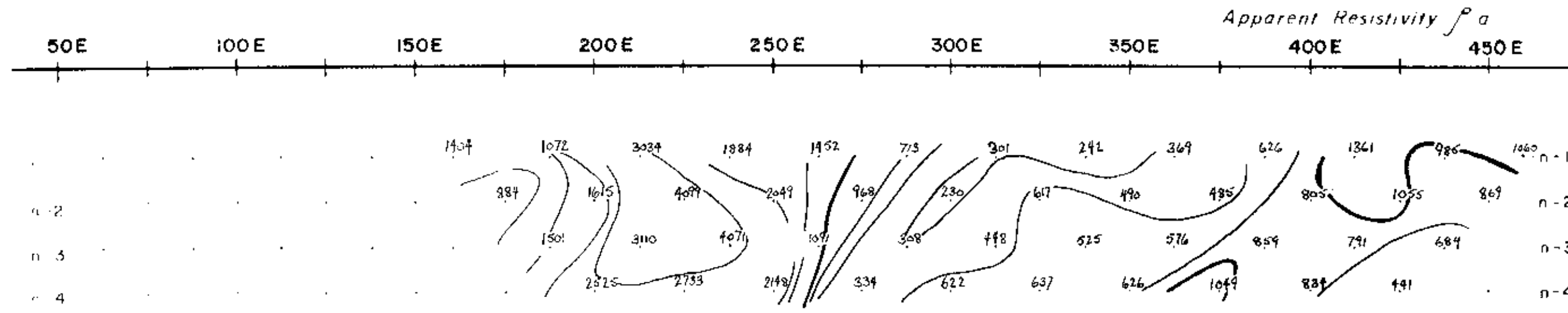
COMINCO LTD.  
C.K. PROPERTY  
KAMLOOPS M.D. B.C.

LINE NO. J+50 N



PLOTTING POINT  
n=1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE



SCALE

DATE SURVEYED AUGUST 6, 1978

CONTOUR INTERVALS:

APP RES LOGARITHMIC

APP CHARG - 5.0 Mv/V

— IN PHASE (DIP ANGLE) LEFT  
- - - WAVE CROSSOVER

x-x FIELD STRENGTH

APPROVED

DATE

TRANSMITTER - HUNTEC 7.5 Km

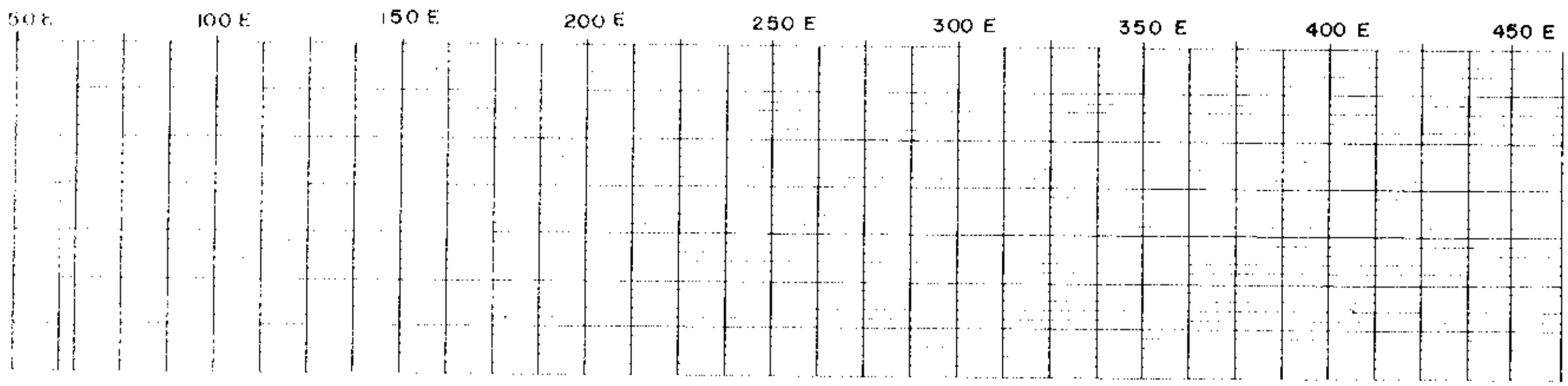
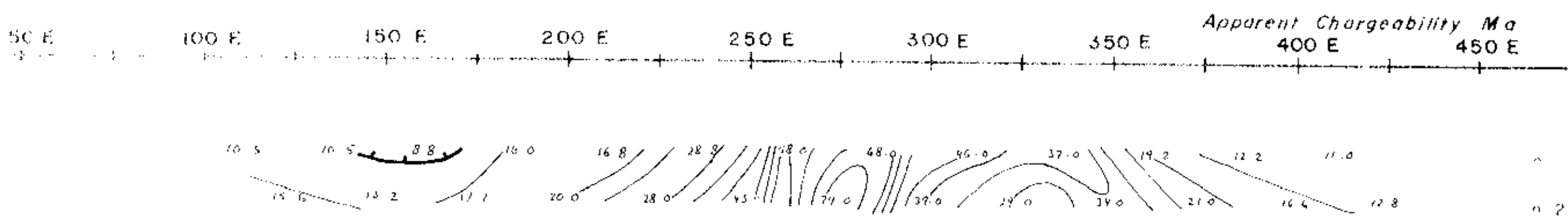
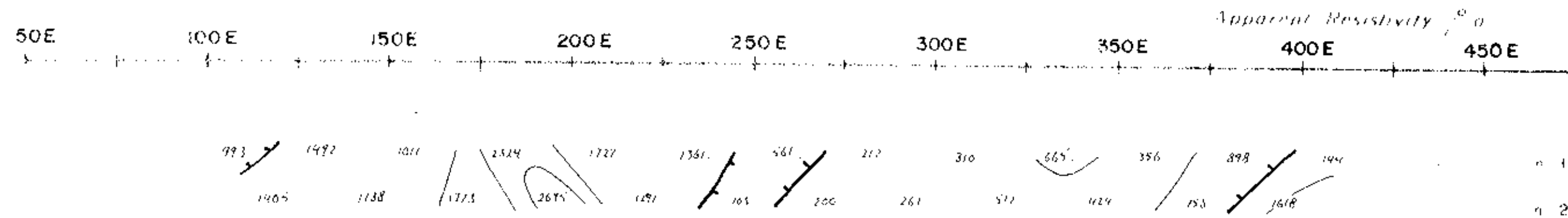
RECEIVER - IPR 8

VLF INSTRUMENT - CRONE RADEM  
FROM NLK STATION, SEATTLE WASH. USA

6909  
Part 2 of 2

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

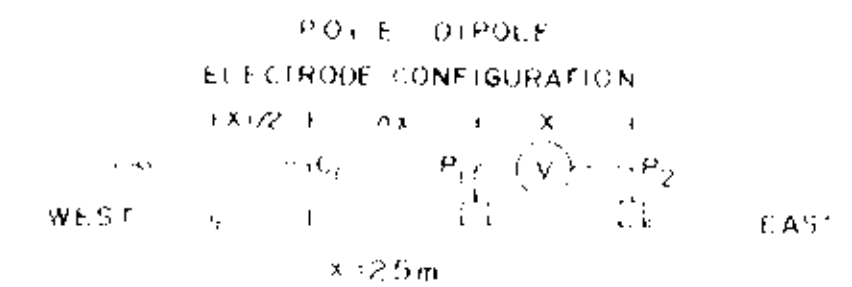
LINE J+50 N



N.T.S. 82-M-13 DWG NO 132-78-29

# COMINCO LTD. C.K. PROPERTY KAMLOOPS M.D. B.C.

LINE NO. 2+00 N.



PLOTING POINT  
1, 2, 3, 4  
CURRENT ELECTRODE WEST OF POTENTIAL ELECTRODE

DATE SURVEYED: AUGUST 5, 1978

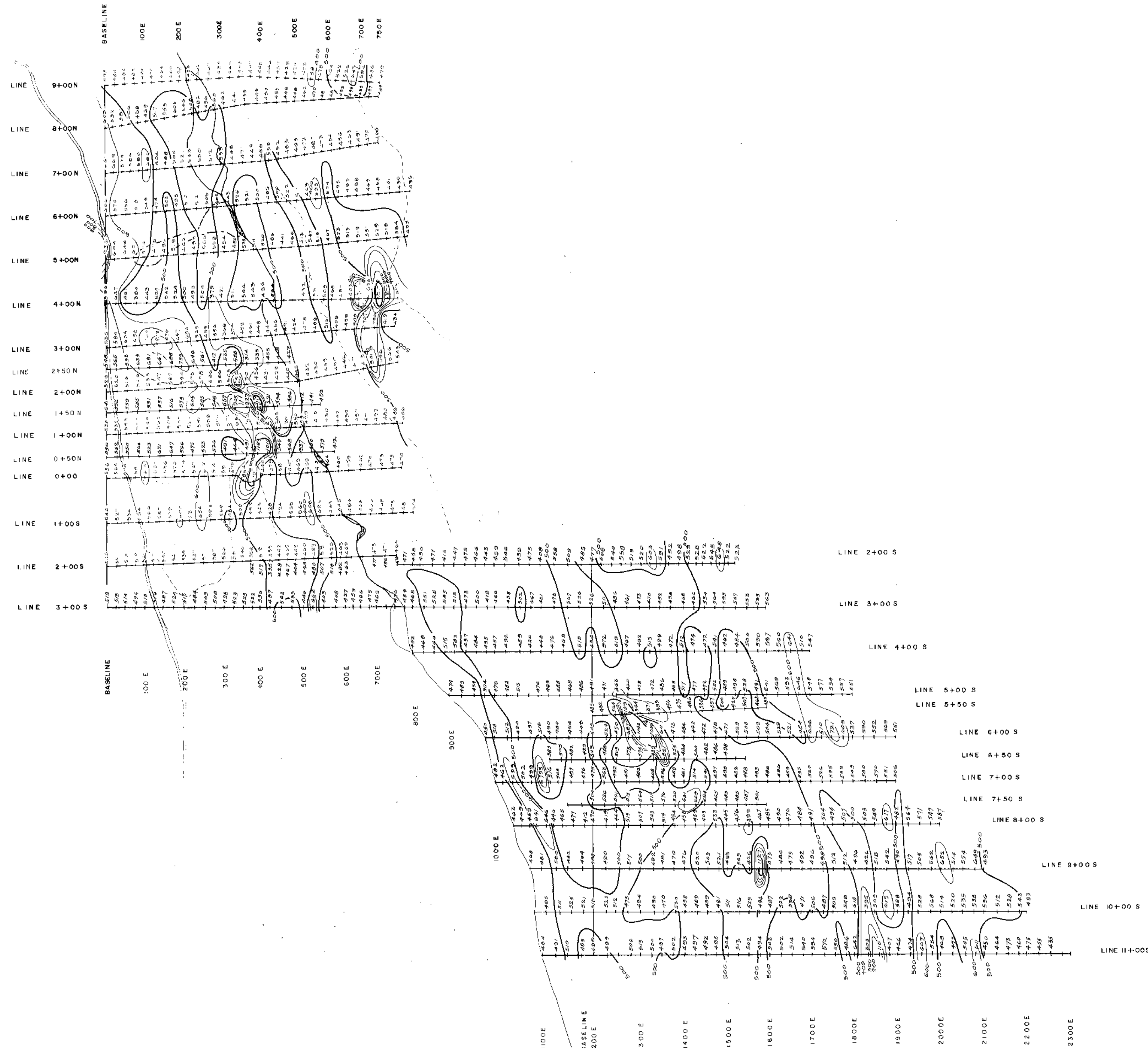
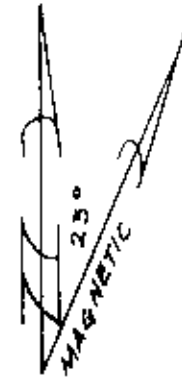
CONTOUR INTERVALS  
APP. RES. LOGARITHMIC  
APP. CHARG. 5.0 MV/V

APPROVED: *[Signature]*  
DATE: *[Blank]*  
**Part 2 of 2**  
**6909**

TRANSMITTER HUNTEC 1.5 KHz  
RECEIVER IPR 8  
VLF INSTRUMENT - CRONE RADEM  
FROM NLK STATION, SEATTLE WASH. USA

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

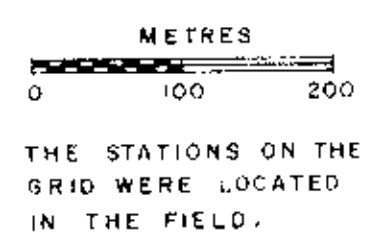
LINE 2+00 N



+ + + + 1978 GEOPHYSICS GROUND GRID (MAY)  
 - - - - 1978 GEOPHYSICS GROUND GRID (AUG)  
 ROAD  
 LAKE  
 CREEK  
 INSTRUMENT SCINTREX MP II PROTON  
 PRECISION MAGNETOMETER  
 MODEL NO. 76700  
 SERIAL NO. 703281  
 BASE 58000 GAMMAS  
 CONTOUR INTERVAL 100 GAMMAS  
 123 1978 MAY READINGS  
 723 1978 AUG. READINGS

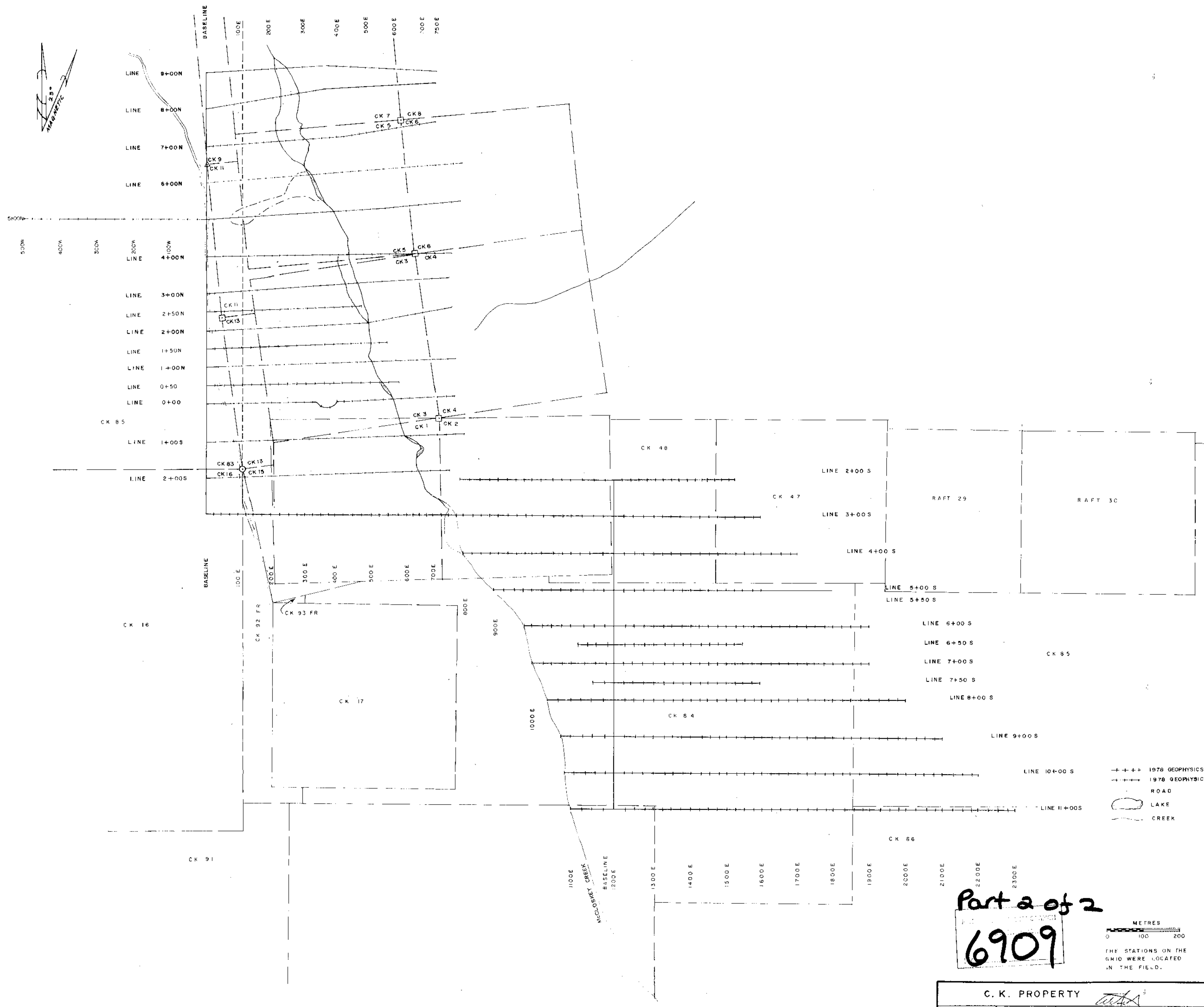
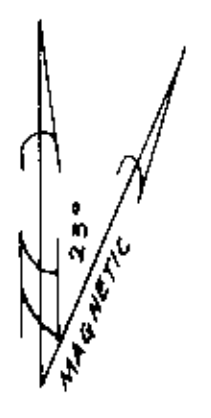
Part 2 of 2

6909



THE STATIONS ON THE GRID WERE LOCATED IN THE FIELD.

C. K. PROPERTY		NTS 82 M 13	
Drawn by:	Traced by:		
Revised by:	Date:	Revised by:	Date:
		MAGNETOMETER SURVEY	
		KAMLOOPS M. D., B. C.	
Scale:	1:5000	Date:	SEPT. 1978
Plate:	132-78-2a		



Part 2 of 2  
6909

<b>C. K. PROPERTY</b>				NTS 82 M 13
Drawn by:	Traced by:			
Revised by:	Scale:	Revised by:	Date:	
<b>CLAIM MAP</b>				
KAMLOOPS M.D., B.C.				
Scale:	1:5000	Date:	SEPT, 1978	
Plate:	132-78-3a			