

6653

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 94D  
126°20'W; 56°44'N

GEOPHYSICAL SURVEYS

ON THE

RED AND HAT CLAIMS

SUSTUT LAKE AREA

BRITISH COLUMBIA

Claims Covered: RED 1 - 33  
and HAT 15 units

Work Performed July 3-18, 1977

December 1977

Jan Klein, P. Eng.

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## ATTACHMENTS

### PLATES\*

119-77-1	General location plan of RED and HAT claim groups; scale 1:2500
-3	Magnetic survey contour map also showing claim outline; scale 1:10,000
-6	Chargeability contour plan, n=2; scale 1:10,000
-7	Apparent resistivity contour plan, n=2, scale 1:10,000
-9 to -23	Induced polarization pseudo-sections

\* NOTE : For brevity, all references to plates within the text of this report do not include the prefix "119-77-" which is included on the plates themselves as part of the plate number.

## SUMMARY

A ground geophysical program was carried out over much of the RED and HAT claim group in north-central British Columbia during July, 1977. Both induced polarization and magnetics were surveyed over a grid with an east-west baseline 2.5 km long and north-south lines up to 1.3 km long.

The object of the survey was to determine the distribution and configuration of sulphide mineralization on the RED & HAT claims.

The IP survey revealed several areas of high chargeability with corresponding low resistivity within the RED and HAT claims. These anomalous areas have generally an oblong shape with the long axis striking about WNW.

## INTRODUCTION

The RED claim group, consisting of 33 contiguous claims, and the HAT claim consisting of 15 units, is located on the western end of the Wrede Range in the Sustut Lake area of B.C., approximately 10 miles north of Johanson Lake (Figure 1). The claims are 100% Cominco owned. The HAT claim overlaps onto the RED claims (see Plate 3). Topography is moderately rugged with peaks rising to over 2100 meters from a base level in the valleys of 1450 meters. Large areas of gossan are exposed on the hilltops on the property, with long, steep talus slopes of gossan material on both the north and south slopes of the Wrede Range. Overburden is generally quite thin. Most of the survey area is above tree line, in an area of 60% rubble and 40% soil cover. This made it difficult to establish electrical contact with the ground for the IP survey, and prevented data collection in the northeast corner of the grid.

Geophysical work performed during July 1977 consisted of 14 line-kilometers of induced polarization (IP) surveying along 15 lines (Figure 2). The grid was also covered with a magnetometer survey.

Access to the property is by helicopter from either Johanson Lake or the Fort St. James extension which is within 13 kilometers of the property. Work was performed from a tent camp located near the southeast corner of RED claim number 7.

This report discusses the induced polarization, resistivity and magnetic surveying done during the 1977 season on the RED & HAT claims.

## GEOLOGY

The RED property is underlain by volcanic rocks intruded by diorite, quartz diorite, porphyritic diorite and granodiorite. The intrusions are probably related to the Omineca batholith of Jura-Cretaceous age, and they intrude rhyolite and andesite of the Takla group of Upper Triassic age.

## GEOPHYSICAL SURVEYS

The surveys were carried out by D.P. Olson, geophysicist, and S.J. Heaton, technician, during the period July 3-18, 1977. Field assistants were D. Saunders, D. Krauss and W. Gamp.

### Magnetics

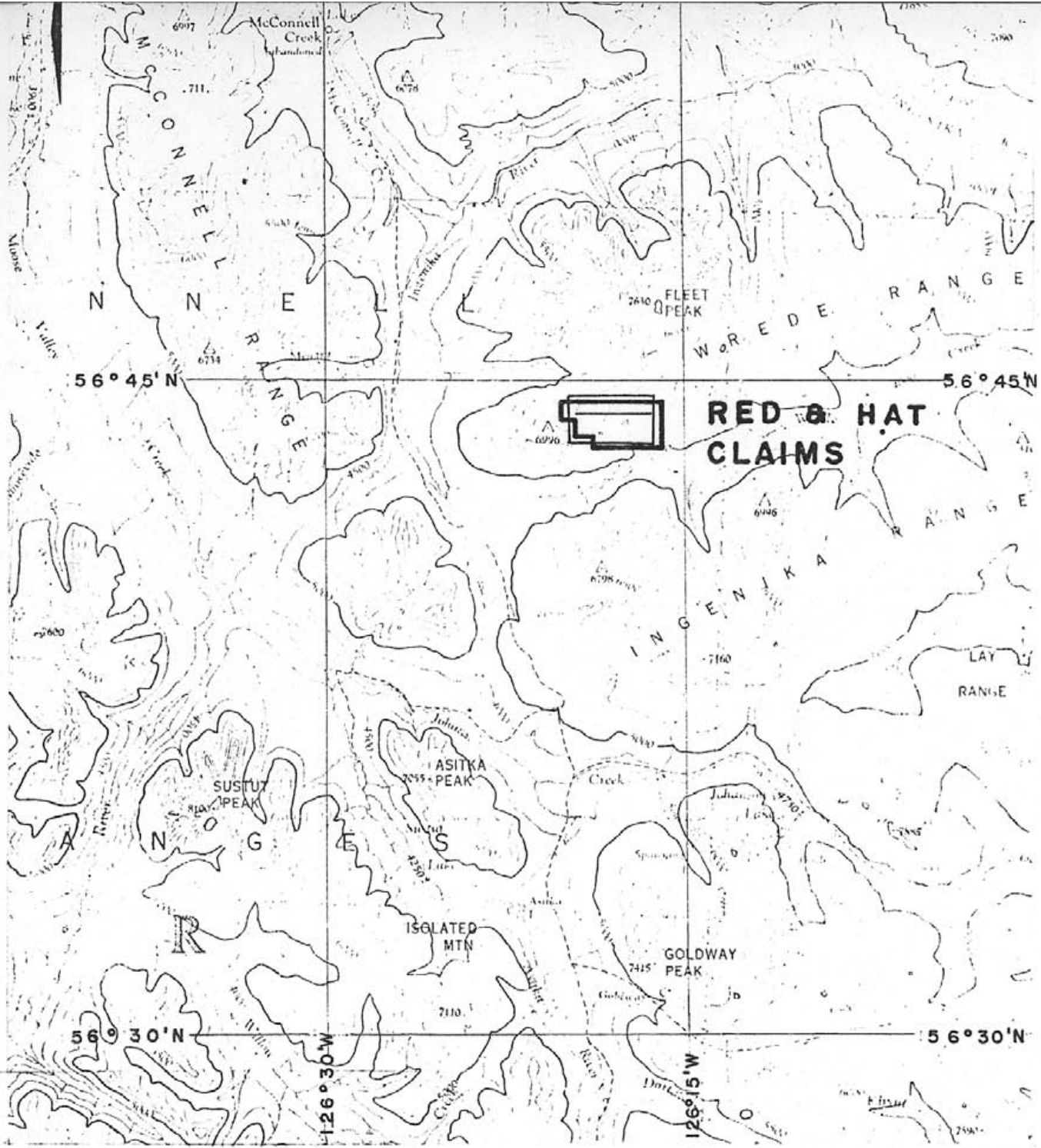
A Scintrex MP 2 proton precession magnetometer with a scale sensitivity of 1 gamma was used. Diurnal and instrument drift were checked at regular time intervals by returning to earlier established base stations.

The data is presented in contour form with a basic contour interval of 100 gammas on a base level of 58,000 gammas. A total of 16.9 km of magnetic data was measured along 16 lines.

### Induced Polarization and Resistivity

The equipment used for this survey consisted of a Scintrex 2.5 KW time domain transmitter and a Scintrex IPR-8 time domain receiver. The transmitter was used in a standard 2 seconds on and 2 seconds off mode. The receiver was used in the 3 slice mode, and chargeability values in mV/V for the middle slice were plotted on the pseudosections and plan map.

A pole-dipole array with "a" = 75m and "n" = 1 and 2 (3 and 4 where possible) was used throughout the survey. Data was collected on lines 250 m apart with 4 detail lines at 125 m spacing.



**SUSTUT LAKE AREA  
OMINECA M. D., B.C.**

**RED & HAT CLAIMS**

Scale 1 : 250,000  
1 Inch to 4 Miles Approximately



N.T.S.  
94 D

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

**LOCATION MAPS**

Scale: 1 : 250,000      Date: SEPT., 1977      Plate 119-77-1

DESCRIPTION OF RESULTS

Magnetometer Survey (Plate 3)

The magnetometer survey shows a pattern of highs and lows which closely follows the strike of the geology. The highest magnetic response is over a portion of a diorite intrusive in the southwestern portion of the grid. The quartz-diorite porphyry unit lying southeast of the grid origin lies within a magnetic low. The remainder of this rock type on the property has an intermediate magnetic response (600-1000 gammas above base level). The altered volcanics lying in the north half of the grid have generally a low magnetic susceptibility.

Induced Polarization and Resistivity Survey  
(Plates 6 and 7 and 9 to 23)

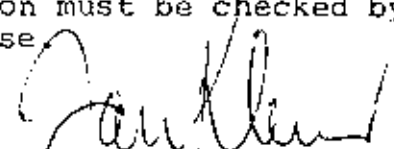
The plan map of chargeability and resistivity for  $n=2$  together define several areas of significant high chargeability and low resistivity, which are labelled A to E on Plate 6. The largest of these anomalies, "A", is approximately 200 meters wide and 800 meters long.

CONCLUSIONS

The geophysical program in 1977 outlined several interesting IP anomalies on the RED claim group. Although these zones do not have a distinct magnetic signature, they are sufficiently extensive. The IP survey shows chargeable material extending to a depth of about 75-100 meters, which is as deep as the present array could detect.

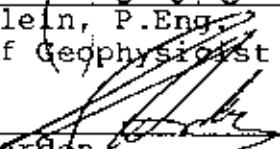
The possibility exists that the higher IP responses are associated with sulphides, but this assumption must be checked by drilling to determine if this is the case.

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

  
J. Klein, P. Eng.  
Chief Geophysicist

Endorsed for \_\_\_\_\_

Release by: \_\_\_\_\_

  
G. Warden  
Manager, Exploration  
Western District

8 December 1977

JK/deb

Distribution:

Western District (1)  
Mining Recorder (2)

EXHIBIT "A"

EXPLORATION

WESTERN DISTRICT

STATEMENT OF EXPENDITURES

INDUCED POLARIZATION, RESISTIVITY

AND MAGNETOMETER SURVEY COSTS

RED CLAIMS 1-33 AND HAT CLAIM

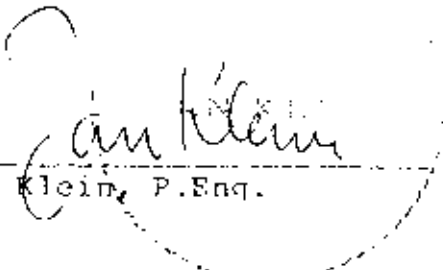
15 UNIT CLAIMS, OMINECA MINING DIVISION

N.T.S. 94D/9: 56°44'N-126°19'W

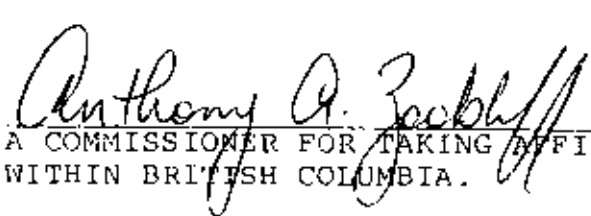
Field survey: July 3-18, 1977

1.	Salaries geological staff: permanent	\$	1,094
	: temporary	\$	2,819
2.	Transportation	\$	7,085
3.	Geophysics; survey cost	\$	9,026
	: expenses	\$	1,060
4.	Domicile	\$	1,362
5.	Misc. (equipment, supplies)	\$	833
		\$	<u>23,259</u>

Signed:

  
Jan Klein, P.Eng.

THIS IS EXHIBIT "A" TO THE STATUTORY DECLARATION OF JAN KLEIN  
DECLARED BEFORE ME THIS 9th DAY OF DECEMBER, 1977.

  
A COMMISSIONER FOR TAKING AFFIDAVITS  
WITHIN BRITISH COLUMBIA.

DOMINION OF CANADA:  
PROVINCE OF BRITISH COLUMBIA:

In the Matter of

To Wit:

J. JAN KLEIN, Professional Engineer

of THE MUNICIPALITY OF RICHMOND

in the Province of British Columbia, do solemnly declare that

1. Copies of a report regarding geophysical surveys on certain mineral claims situated in the Omineca Mining Division are being filed with the Mining Recorder in Vancouver.
2. Attached hereto, and marked with the letter "A" upon which I have signed my name at the time of declaring hereof, is a statement of expenditures incurred in connection with the Induced Polarization, Resistivity and Magnetic Survey of the said claims showing in addition the dates during which those making the said survey performed their work.

I do hereby declare that the contents of the foregoing declaration are true and correct, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act".

Declared before me at the City  
of Vancouver, in the  
Province of British Columbia, this 9th  
day of December, 1977, A.D.

*Jan Klein*  


*Anthony A. Zooblauff*  
A Commissioner for taking Affidavits within British Columbia  
~~A Notary Public in and for the Province of British Columbia~~

EXHIBIT "A"

EXPLORATION

WESTERN DISTRICT

STATEMENT OF EXPENDITURES

INDUCED POLARIZATION, RESISTIVITY

AND MAGNETOMETER SURVEY COSTS

RED CLAIMS 1-33 AND HAT CLAIM

15 UNIT CLAIMS, OMINECA MINING DIVISION

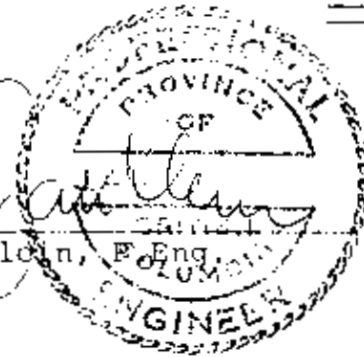
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Signed:

Jan Klein, P. Eng.

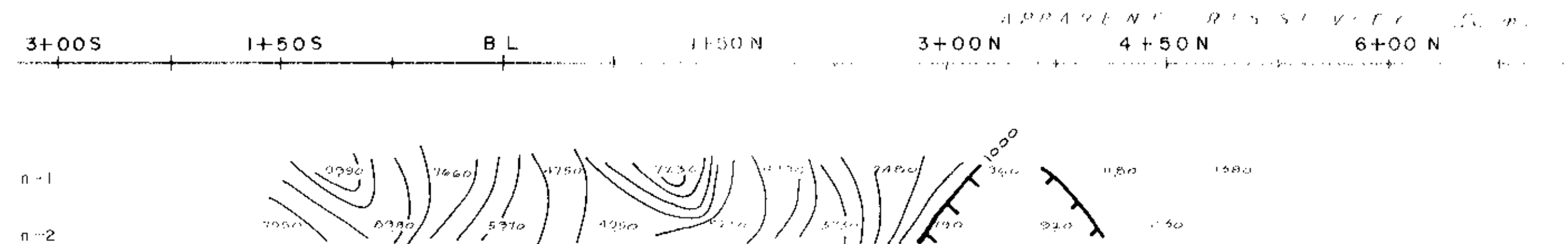
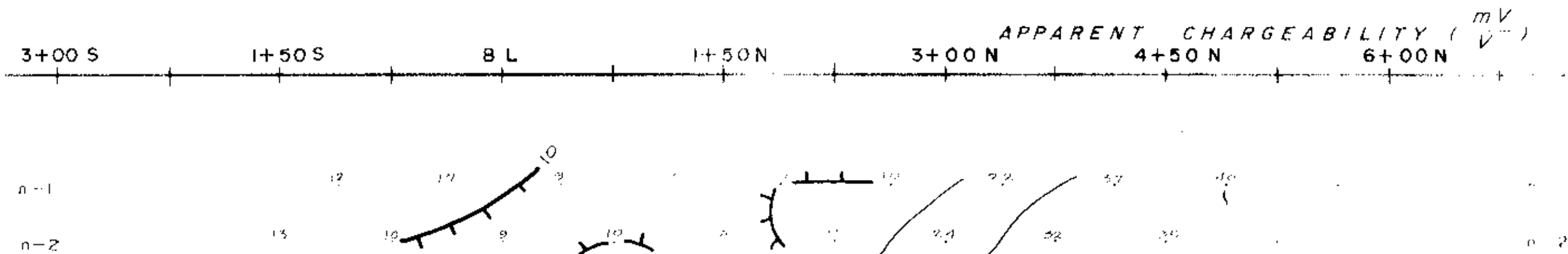
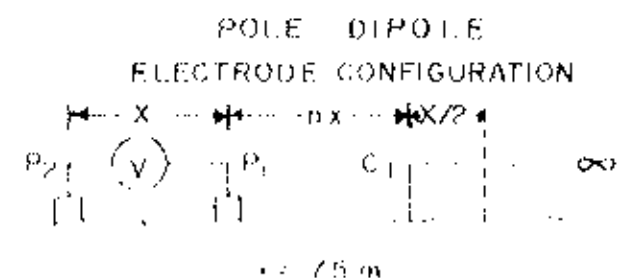


THIS IS EXHIBIT "A" TO THE STATUTORY DECLARATION OF JAN KLEIN DECLARED BEFORE ME THIS 9th DAY OF DECEMBER, 1977.

*Anthony G. Zedoff*  
 A COMMISSIONER FOR TAKING AFFIDAVITS  
 WITHIN BRITISH COLUMBIA.

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO. 7+50 W



1000  $\frac{mV}{V}$

5000  $\frac{mV}{V}$

10000  $\frac{mV}{V}$

10000 5 KW TIME DOMAIN  
CENTREX I.P.R.B.

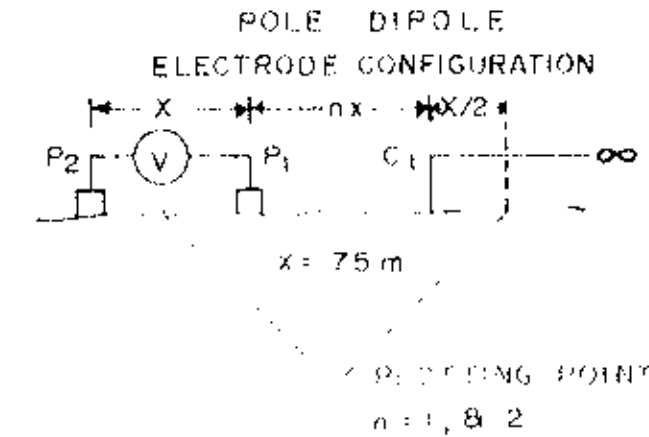
# 6653

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

LINE 7+50 W

COMINCO LTD.  
 RED CLAIMS  
 SUSTUT LAKE AREA  
 OMINECA M.D., B.C.

LINE NO. 5+00 W



DATE SURVEYED

APP CHARG  $10 \frac{mV}{V}$   
 APP RES  $5 \times 10^{-3} \Omega m$

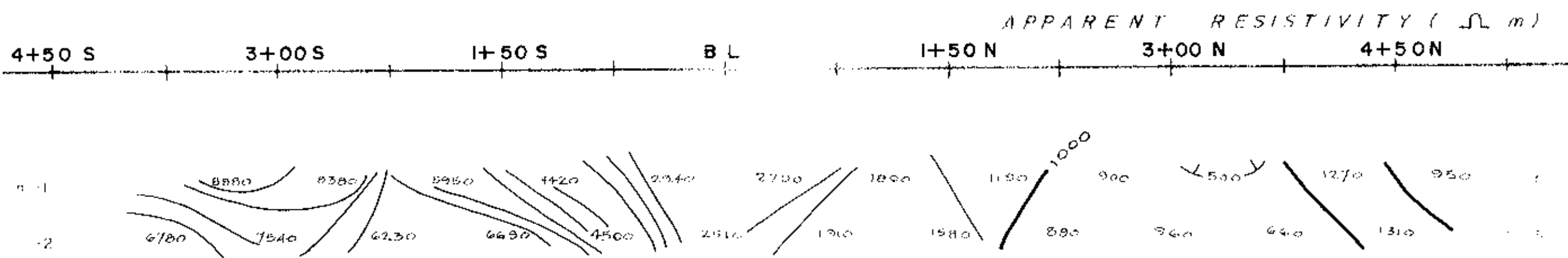
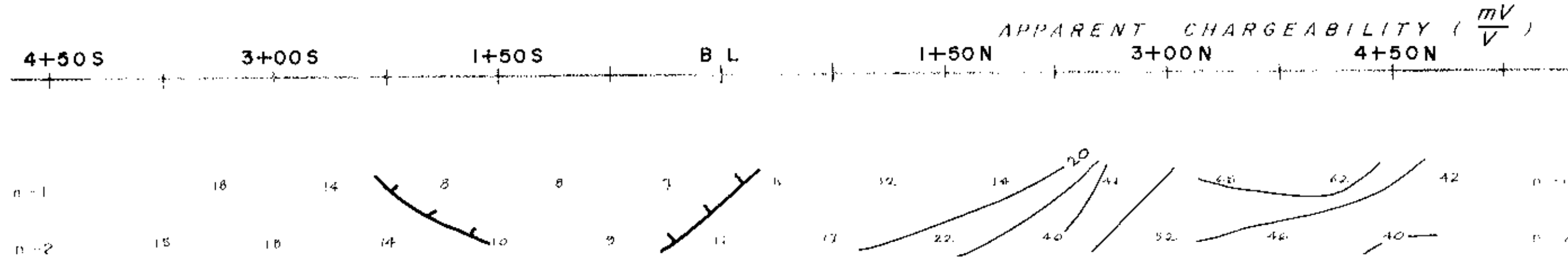
APPROVED

DATE

TRANSMITTER 2.5 KW TIME DOMAIN  
 RECEIVER SCINTREX IP R 8

6653

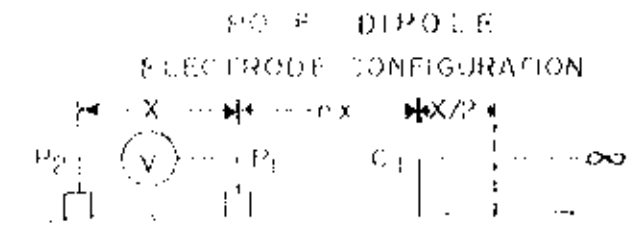
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
 SURVEYED BY COMINCO LTD., EXPLORATION DIVISION



LINE NO. 5+00 W

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO 2+50 W



$a = 75 \text{ m}$

STATIONING POINT  
1+50, 2

DATE SURVEYED

12.5 KW TIME DOMAIN

APPARENT CHARGEABILITY

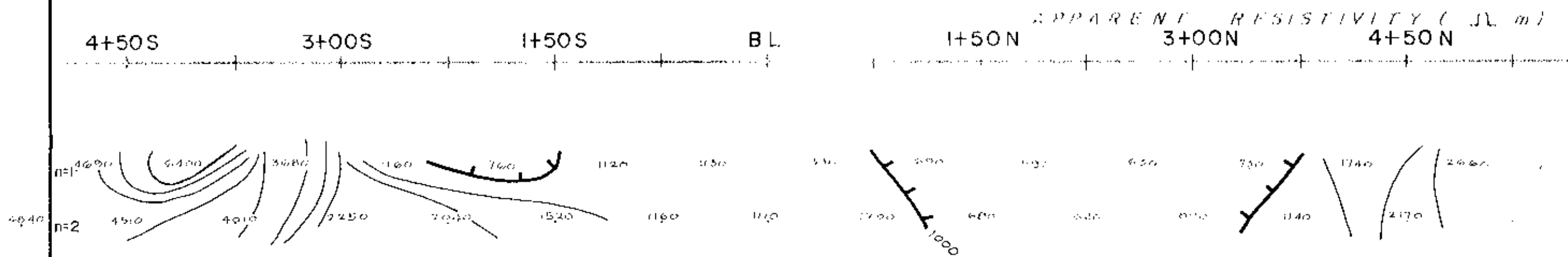
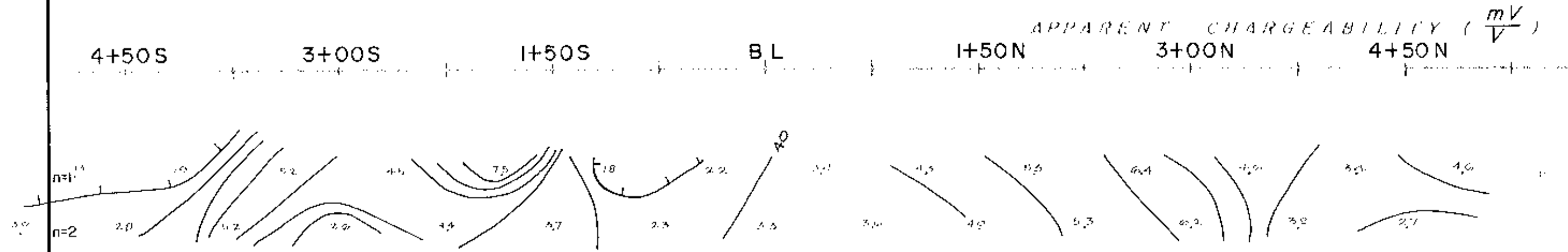
APPROX 1979

2.5 KW TIME DOMAIN

APPARENT RESISTIVITY

# 6653

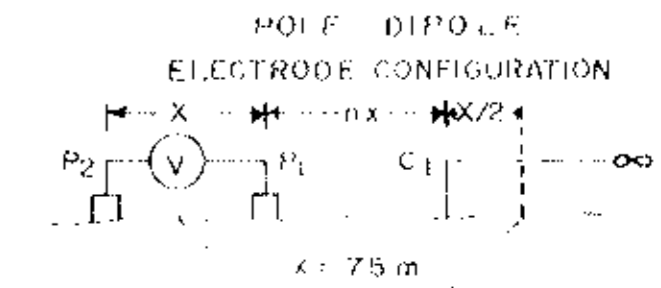
APPARENT CHARGEABILITY AND RESISTIVITY SURVEY  
SUSTUT LAKE AREA, RED CLAIMS, COMINCO LTD., EXPLORATION DIVISION



2+50 W

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

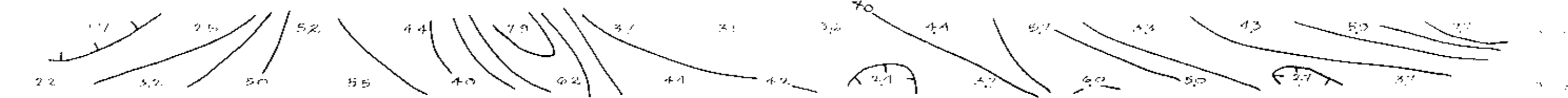
LINE NO 0+00



PLOTTING POINT  
1, 8, 2

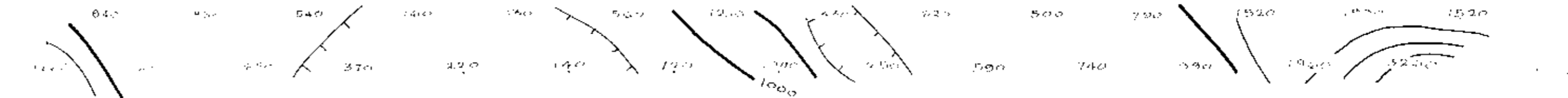
APPARENT CHARGEABILITY ( $\frac{mV}{V}$ )  
1+50N 3+00N 4+50N

7+50S 6+00S 4+50S 3+00S 1+50S BL



APPARENT RESISTIVITY ( $\Omega m$ )  
1+50N 3+00N 4+50N

7+50S 6+00S 4+50S 3+00S 1+50S BL



DATE SURVEYED

SCALE: 1:500  
1 cm = 5 m

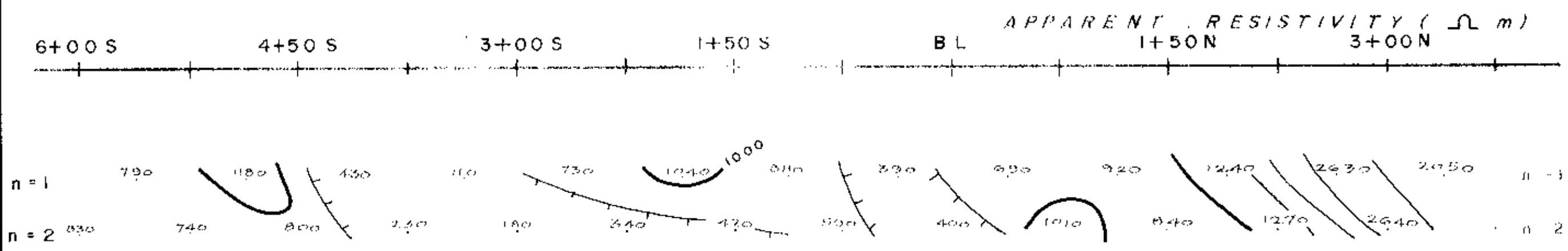
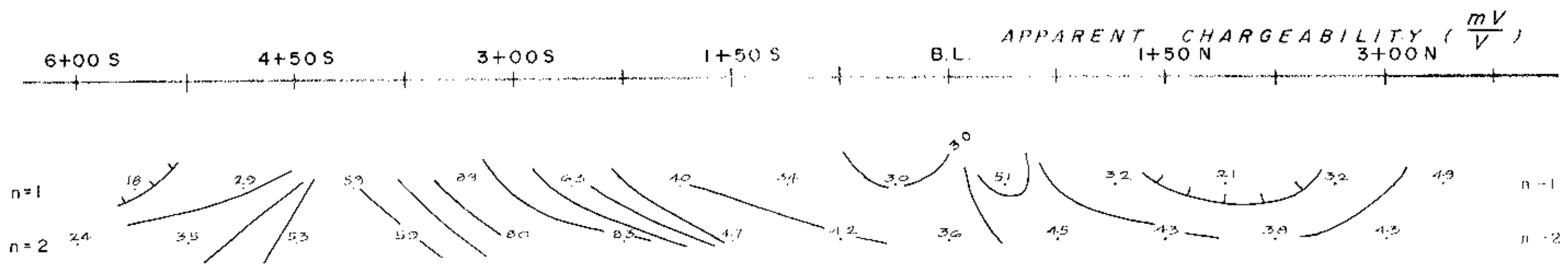
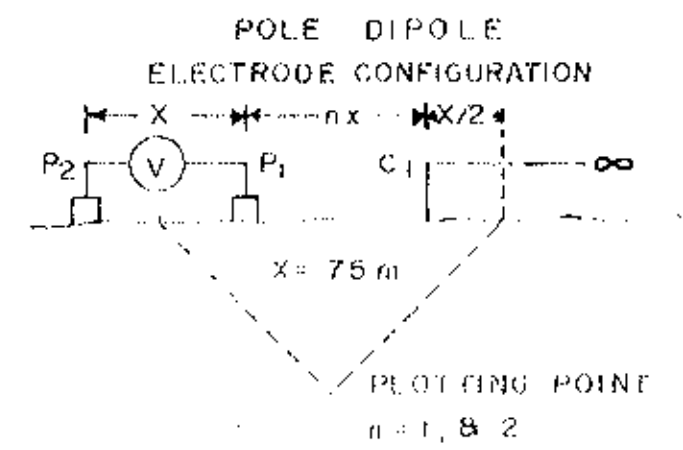
2.5 KW TIME DOMAIN  
SCINTREX IP R 8

# 6653

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

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO. 1+25 E



DATE SURVEYED .....

APP CHARG  $\approx 10 \frac{mV}{V}$

APP RES  $\approx 500 \Omega m$

APPROVED .....

DATE .....

TRANSMITTER - 2.5 KW TIME DOMAIN  
RECEIVER SCINTREX IP R 8

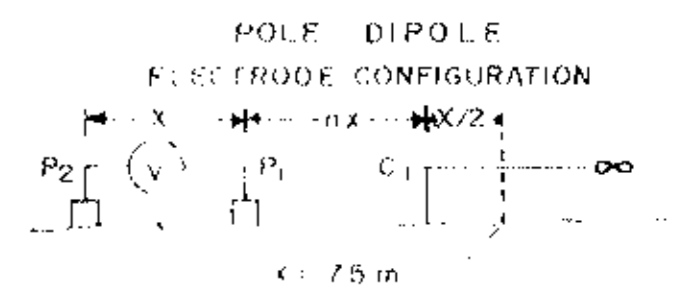
# 6653

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

LINE NO. 1+25 E

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

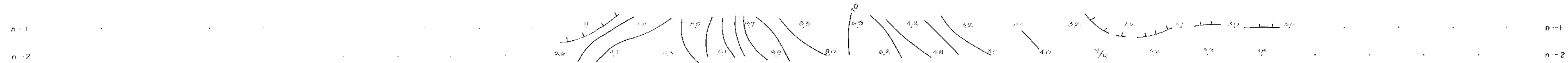
LINE NO. 2+50E



PLOTTING POINT  
n-1, n-2

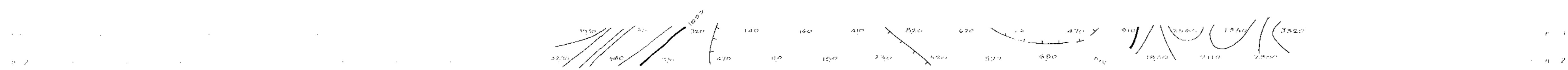
10+50S 9+00S 7+50 6+00S 4+50S 3+00S 1+50S BL 1+50N 3+00N 4+50N 6+00N

APPARENT CHARGEABILITY ( $\frac{mV}{V}$ )



10+50S 9+00S 7+50S 6+00S 4+50S 3+00S 1+50S BL 1+50N 3+00N 4+50N 6+00N

APPARENT RESISTIVITY ( $\Omega m$ )



DATE SURVEYED \_\_\_\_\_

APP. CHARG.  $10 \frac{mV}{V}$

APP. RES. 500 R m

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

TRANSMITTER 2.5 KW TIME DOMAIN

RECEIVER SCINTREX IP R B

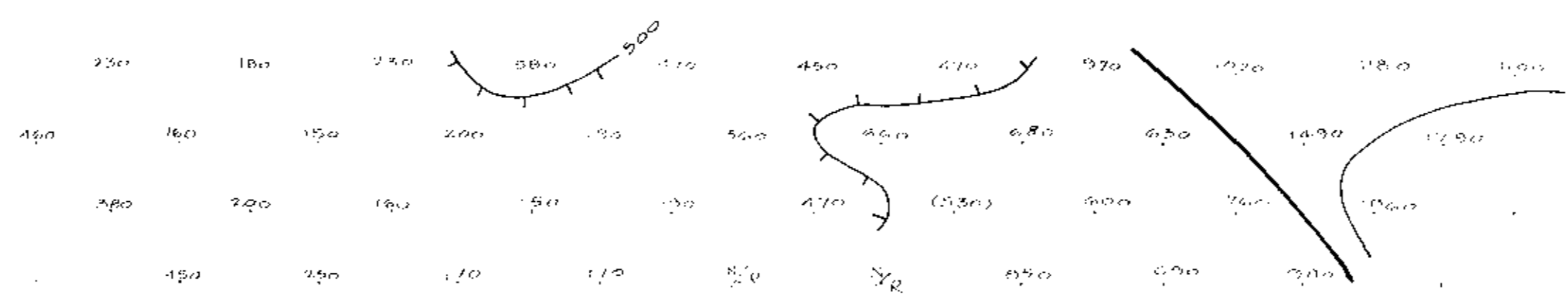
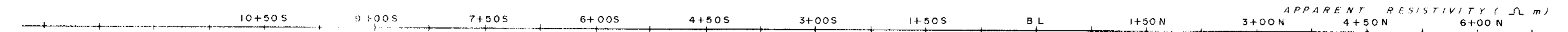
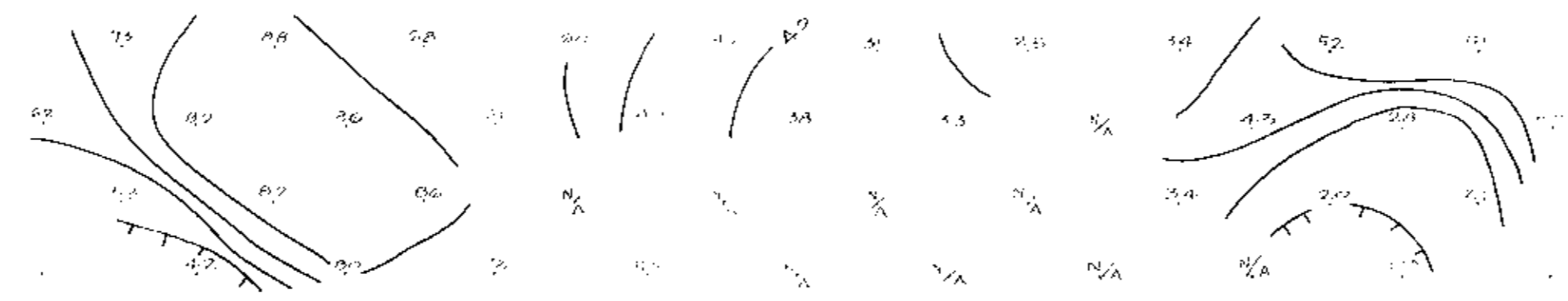
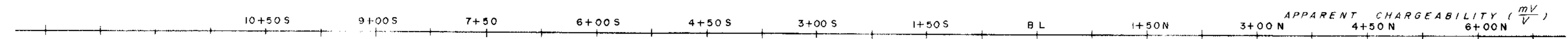
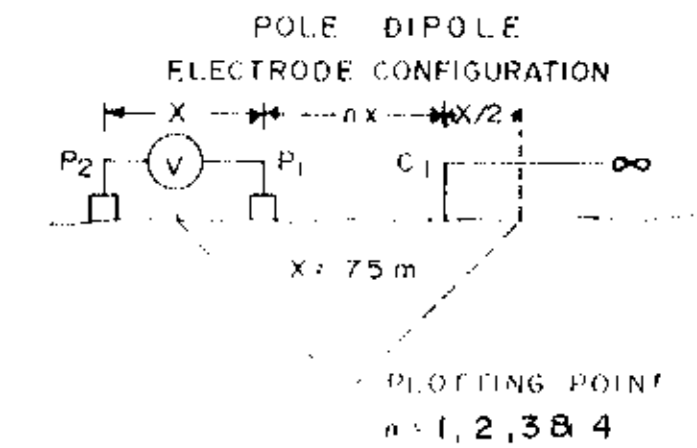
**6653**

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

LINE 2+50E

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO. 3+75 E



DATE SURVEYED \_\_\_\_\_

APP. CHARG.  $10 \frac{mV}{V}$

APP. RES.  $5 \Omega m$

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

TRANSMITTER 2.5 KW TIME DOMAIN

RECEIVER SCINTREX IP R 8

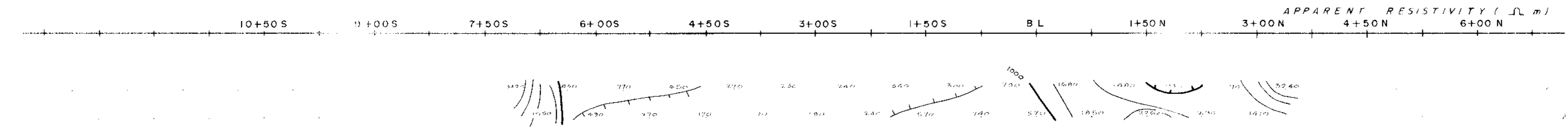
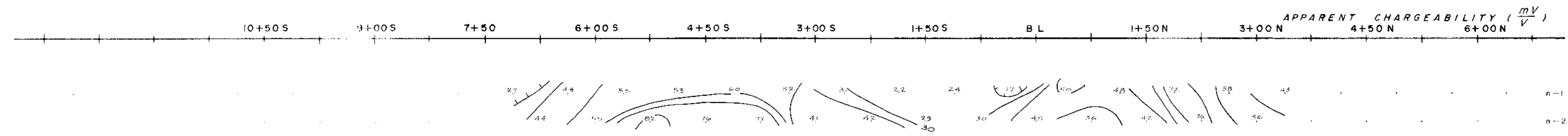
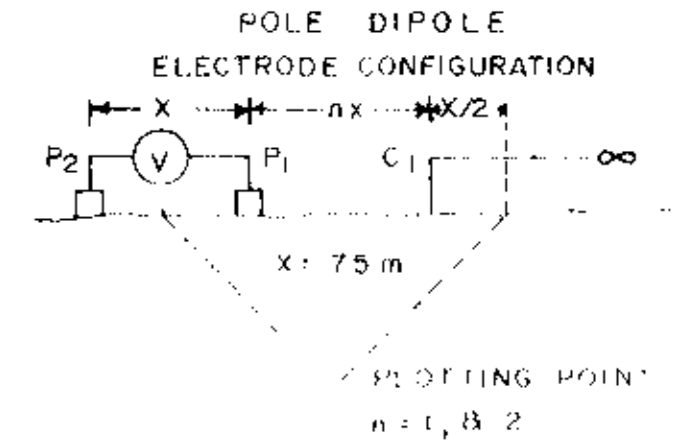
# 6653

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

LINE 3+75 E

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO. 5+00E



DATE SURVEYED \_\_\_\_\_

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

TRANSMITTER 2.5 KW TIME DOMAIN

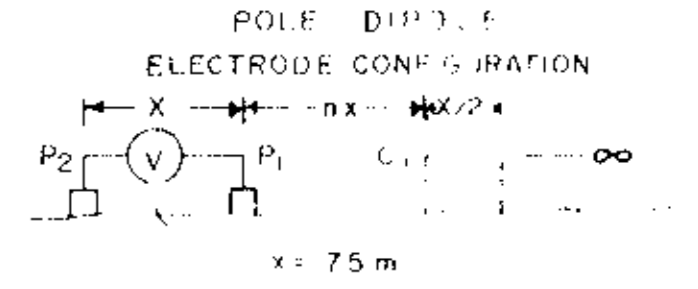
RECEIVER SCINTREX IP R 8

# 6653

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

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO. 6+25 E



PLACING POINT  
n = 18.2

DATE SURVEYED

APP. CHARG. 10  $\frac{mV}{V}$   
APP. RES. 5 R R

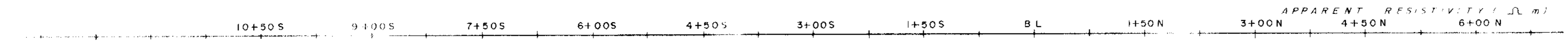
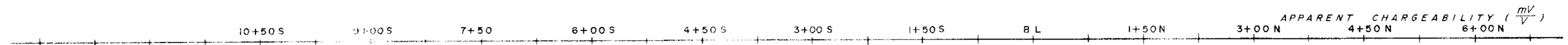
APPROVED

DATE

TRANSMITTER 2.5 KW TIME DOMAIN  
RECEIVER SCINTREX IP R B

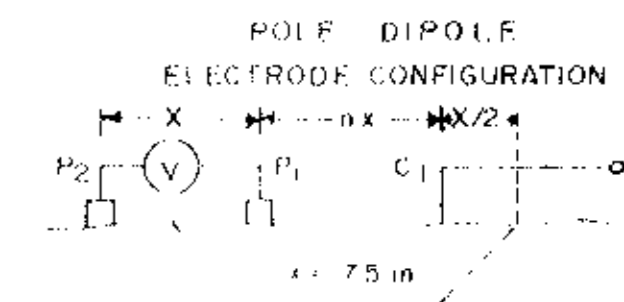
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INDUCED POLARIZATION AND RESISTIVITY SURVEY  
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION



# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO 7+50E



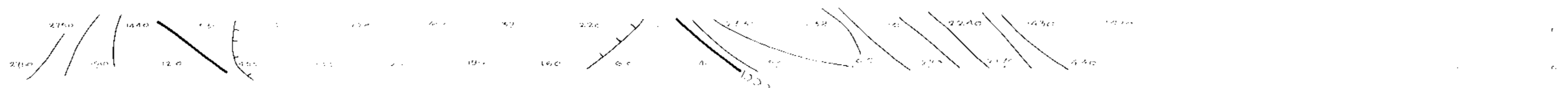
10+50S 9+00S 7+50 6+00S 4+50S 3+00S 1+50S BL 1+50N 3+00N 4+50N 6+00N

APPARENT CHARGEABILITY ( $\frac{mV}{V}$ )



10+50S 9+00S 7+50S 6+00S 4+50S 3+00S 1+50S BL 1+50N 3+00N 4+50N 6+00N

APPARENT RESISTIVITY ( $\Omega m$ )



APP. CHARGE.  $10 \frac{mV}{V}$   
APP. RES. 5  $\Omega m$

DATE

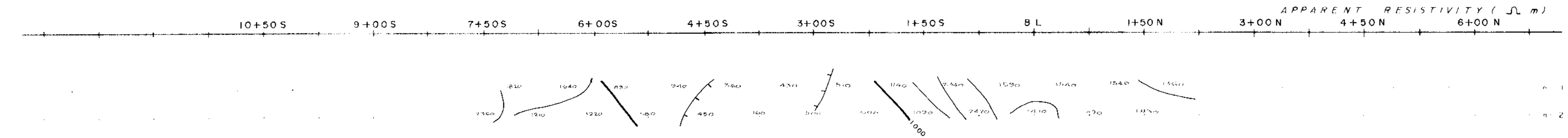
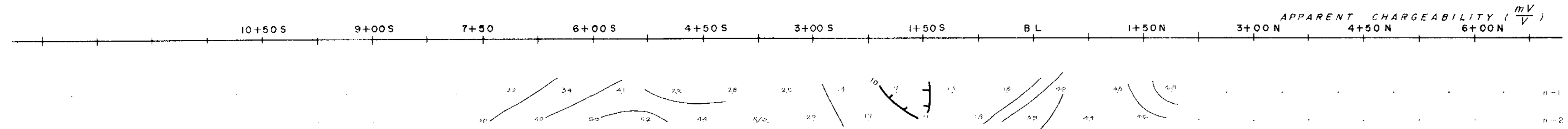
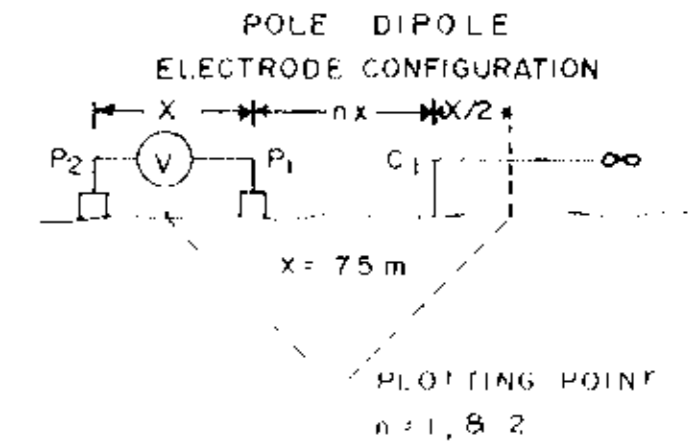
TRANSMITTER 2.5 KW TIME DOMAIN  
RECEIVER SCINTREX IP R B

6653

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

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO. 8+75 E



DATE SURVEYED .....

APP CHARG  $10 \frac{mV}{V}$

APP RES  $50 \Omega m$

APPROVED .....

DATE .....

TRANSMITTER 2.5 KW TIME DOMAIN

RECEIVER SCINTREX IP R 8

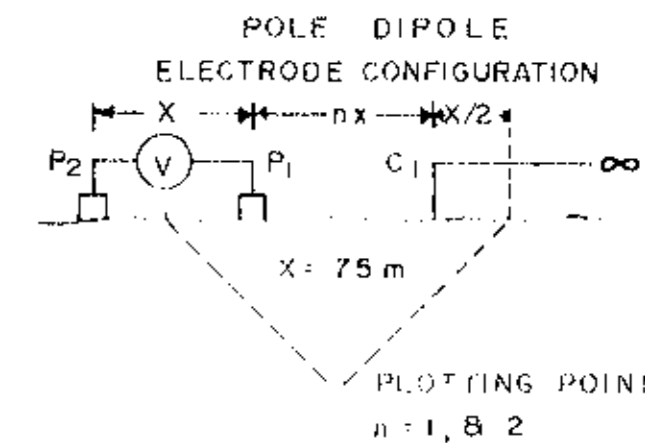
**6653**

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

8+75 E

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO. 10+00E



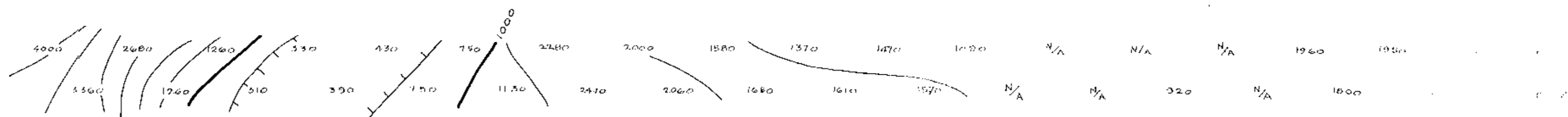
10+50S 9+00S 7+50S 6+00S 4+50S 3+00S 1+50S BL 1+50N 3+00N 4+50N 6+00N

APPARENT CHARGEABILITY ( $\frac{mV}{V}$ )



10+50S 9+00S 7+50S 6+00S 4+50S 3+00S 1+50S BL 1+50N 3+00N 4+50N 6+00N

APPARENT RESISTIVITY ( $\Omega m$ )



DATE SURVEYED JULY 10, 1977

APP CHARG  $10 \frac{mV}{V}$   
APP RES  $5 \Omega m$

APPROVED

DATE

TRANSMITTER 2.5 KW TIME DOMAIN  
RECEIVER SCINTREX IP R 8

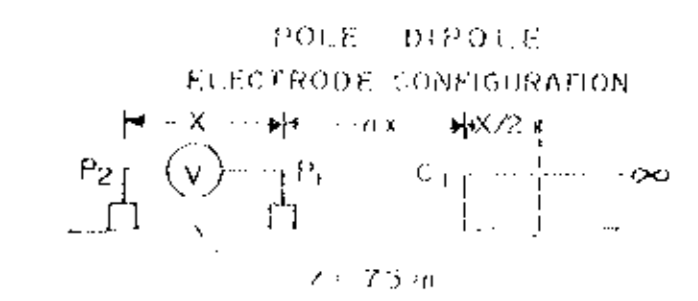
# 6653

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

10+00E

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO 12+50 E



LINE NO 12+50 E

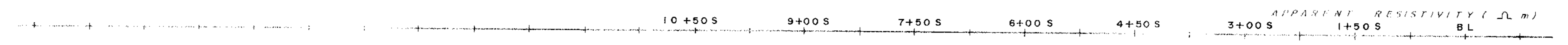
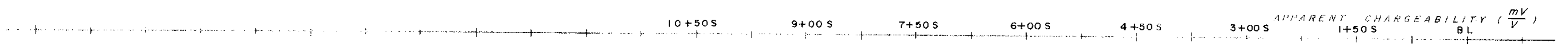
NO. OF SURVEYS

APP CHARG  $-10 \frac{mV}{V}$   
APP RES  $-500 \Omega m$

TRANSMITTER 2.5 KW TIME DOMAIN  
RECEIVER SCINTREX 1P R 8

# 6653

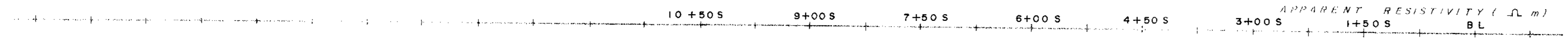
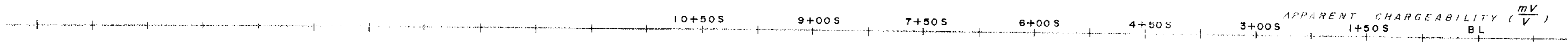
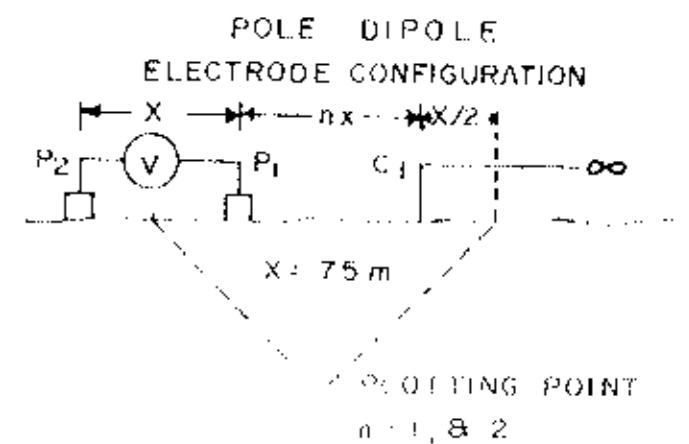
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
SURVEYED BY COMINCO LTD. EXPLORATION DIVISION



LINE NO 12+50 E

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO. 15+00 E



DATE SURVEYED \_\_\_\_\_

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_

TRANSMITTER - 2.5 KW TIME DOMAIN  
RECEIVER SCINTREX IP R 8

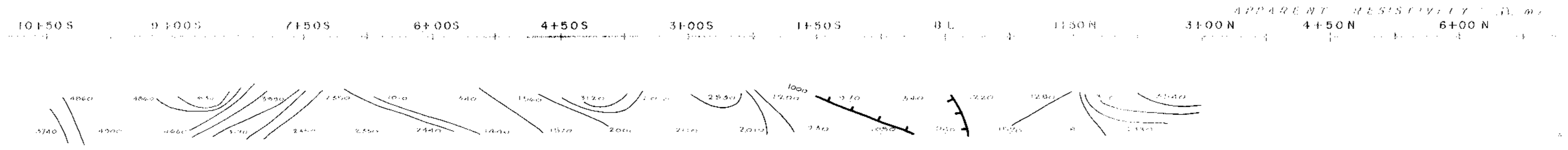
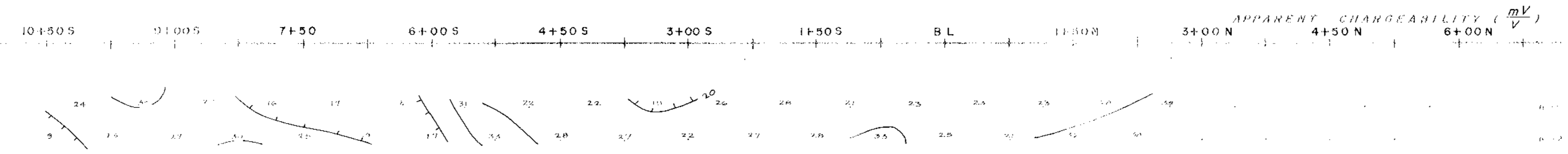
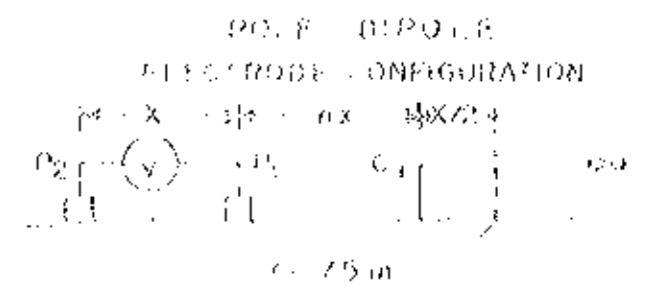
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INDUCED POLARIZATION AND RESISTIVITY SURVEY  
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE NO. 15+00 E

# COMINCO LTD. RED CLAIMS SUSTUT LAKE AREA OMINECA M.D., B.C.

LINE NO 17+50 E



10000  $\frac{mV}{V}$   
 10000  $\Omega \cdot m$   
 2.5 KW TIME DOMAIN  
 SCHNERX IP M. R.

# 6653

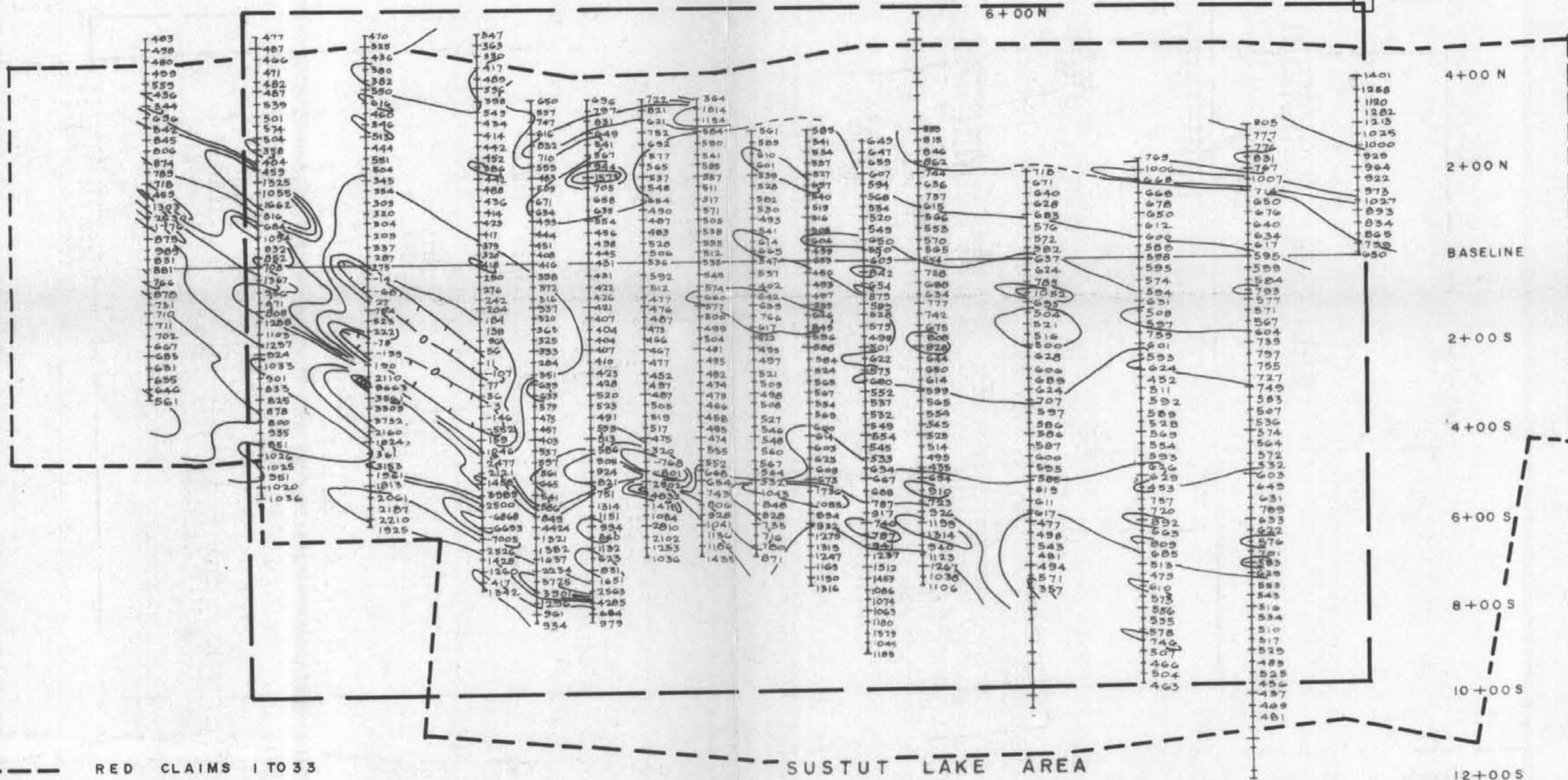
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
CONDUCTED BY COMINCO LTD. EXPLORATION DIV. 1976

17+50 E



LINE 7+50 W  
 LINE 5+00W  
 LINE 2+50W  
 LINE 0+00  
 LINE 1+25E  
 LINE 2+50E  
 LINE 3+75E  
 LINE 5+00E  
 LINE 6+25E  
 LINE 7+50E  
 LINE 8+75E  
 LINE 10+00E  
 LINE 12+50E  
 LINE 15+00E  
 LINE 17+50E  
 LINE 20+00E

LEGAL POST  
 08037



--- RED CLAIMS 1 TO 33  
 --- HAT 1 TO 15 UNITS

SUSTUT LAKE AREA  
 OMINCA M.D., B.C.

INSTRUMENT: SCINTREX MP 2 PROTON  
 PRECESSION MAGNETOMETER  
 (TOTAL FIELD MEASUREMENT)

BASELEVEL 58,000 GAMMAS

CONTOURS SHOWN: 200, 400, 600, 800, 1000, 2000.....



RED CLAIMS

6653



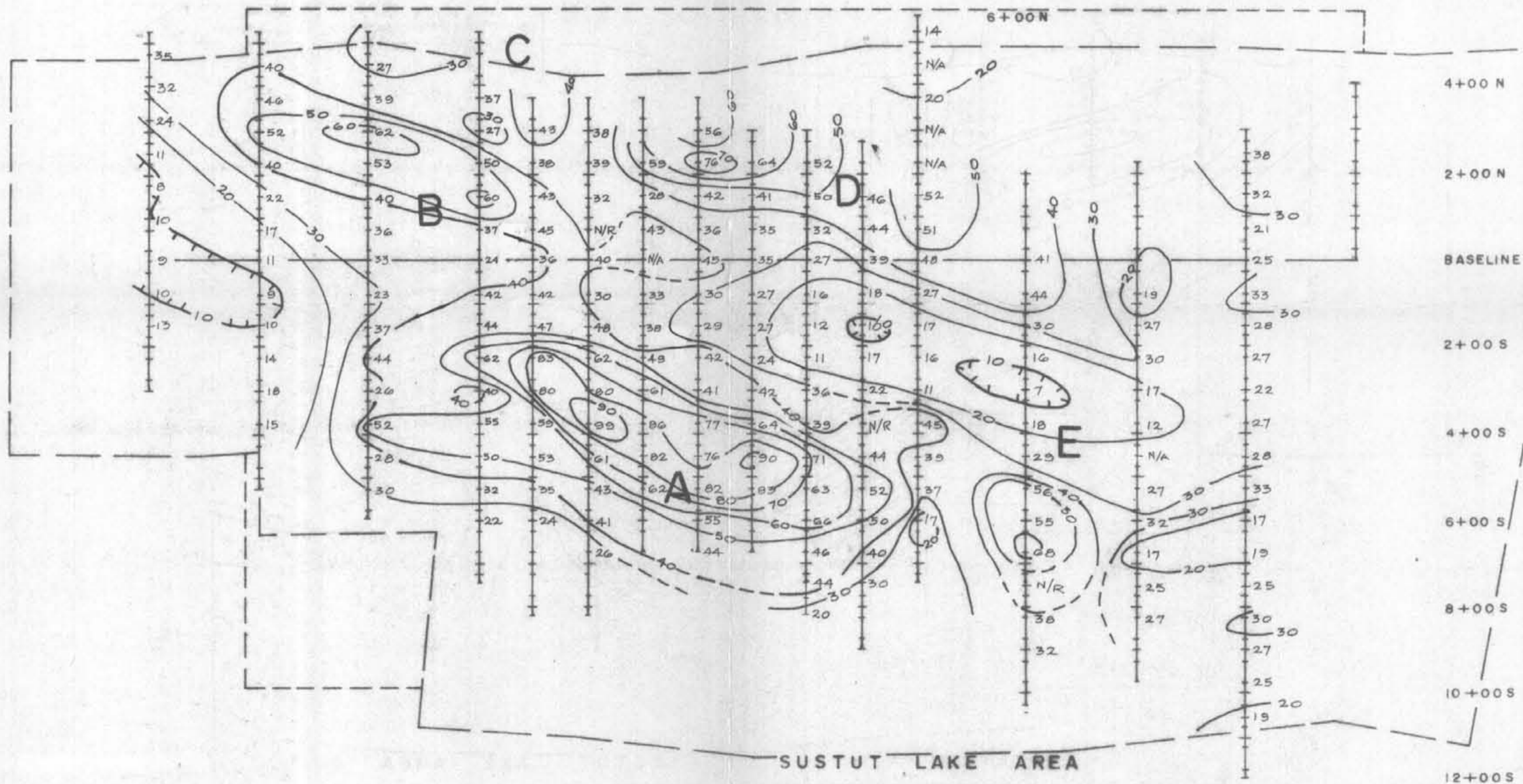
Drawn by	Traced by
Revised by	Date
Revised by	Date

MAGNETOMETER SURVEY

Scale 1: 10,000 Date SEPT., 1977 Plate 119-77-3



LINE 7+50 W  
 LINE 5+00W  
 LINE 2+50W  
 LINE 0+00  
 LINE 1+25E  
 LINE 2+50E  
 LINE 3+75E  
 LINE 5+00E  
 LINE 6+25E  
 LINE 7+50E  
 LINE 8+75E  
 LINE 10+00E  
 LINE 12+50E  
 LINE 15+00E  
 LINE 17+50E  
 LINE 20+00E



— RED CLAIMS 1 TO 33  
 - - - HAT 1 TO 15 UNITS  
 INSTRUMENTS:  
 TRANSMITTER—2.5 KW TIME DOMAIN  
 RECEIVER—SCINTREX IPR 8  
 CONTOUR INTERVAL 10 mV



SUSTUT LAKE AREA  
 OMINECA M. D., B.C.

RED CLAIMS

6653



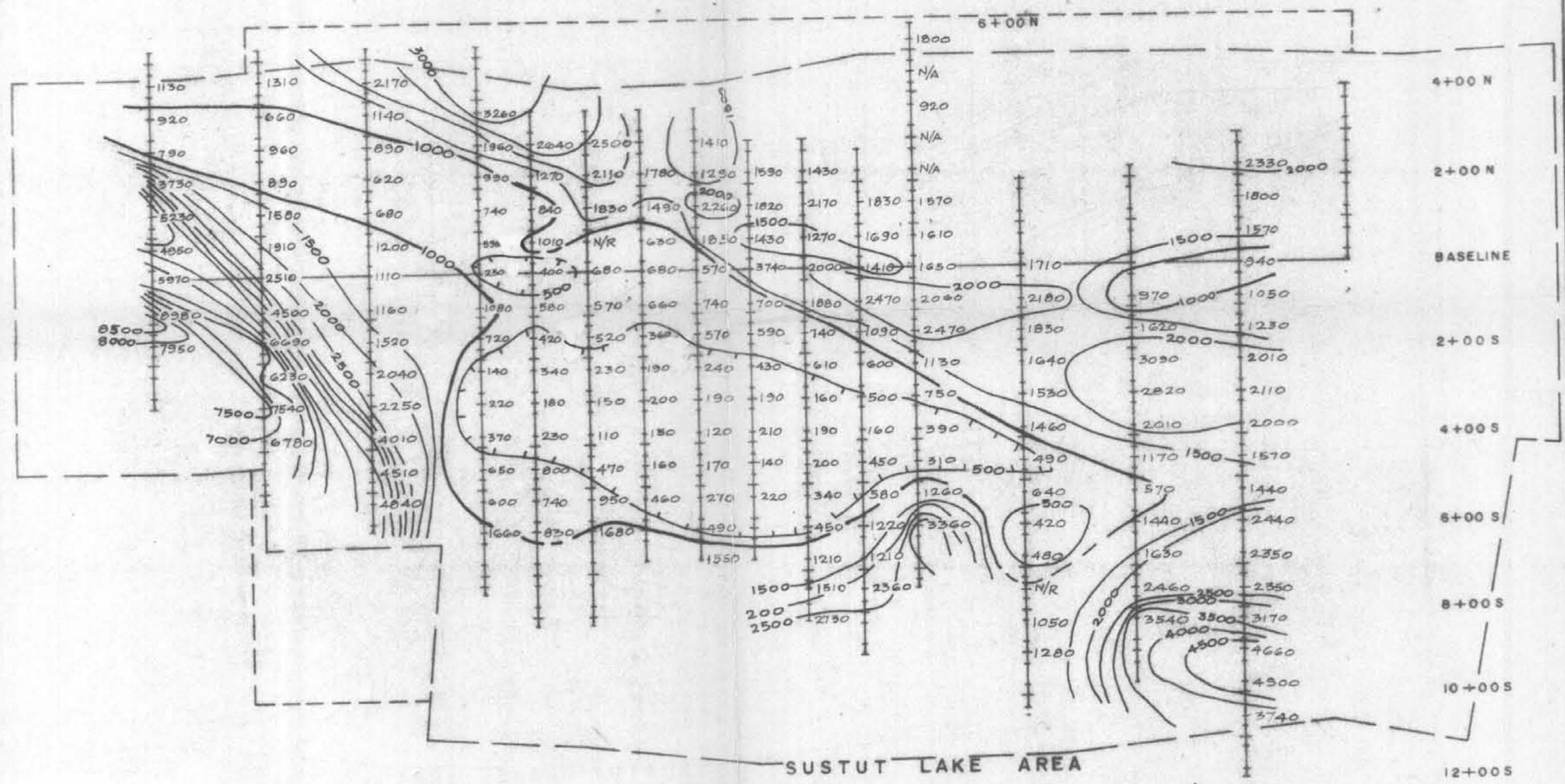
Drawn by	Traced by
Revised by Date	Revised by Date

APPARENT CHARGEABILITY  
 n = 2 SEPARATION

Scale 1:10,000 Date SEPT, 1977 Plate 119-77-6



LINE 7+50 W      LINE 5+00 W      LINE 2+50 W      LINE 0+00      LINE 1+25 E      LINE 2+50 E      LINE 3+75 E      LINE 5+00 E      LINE 6+25 E      LINE 7+50 E      LINE 8+75 E      LINE 10+00 E      LINE 12+50 E      LINE 15+00 E      LINE 17+50 E      LINE 20+00 E



— — — — — RED CLAIMS 1 TO 33  
 - - - - - HAT 1 TO 15 UNITS  
 INSTRUMENTS:  
 TRANSMITTER — 2.5 KW TIME DOMAIN  
 RECEIVER — SCINTREX IPR 8  
 CONTOUR INTERVAL 500 Ωm



SUSTUT LAKE AREA  
 OMINECA M.D., B.C.

RED CLAIMS

6653



Drawn by	Traced by
Revised by Date	Revised by Date

APPARENT RESISTIVITY  
 n = 2 SEPARATION

Scale 1: 10,000      Date SEPT., 1977      Plot 119-77-7