EXPLORATION

WESTERN DISTRICT

NTS: 82M/13

GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION AND MAGNETOMETER SURVEY

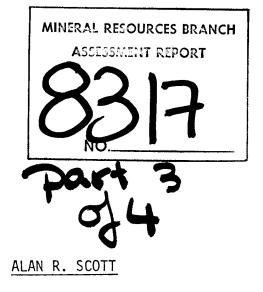
CK PROPERTY

NORTH STRAT GRID

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

Latitude: 51⁰55'N; Longitude: 119⁰35'W

Work Performed: Sept. 4-10, 1980 On Claims: Strat 1, 9, CK 87, 90



22 OCTOBER 1980

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APPENDIX I Certification

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PLATE 1	.92-80-1	Location Map
PLATE 1	92-80-2	Claims and grid Map
PLATE 1		Chargeability (IP)/apparent resistivity pseudosections
PLATE 1	92-80-10	Magnetic field contour plan
PLATE 1	92-80-11	Chargeability contour plan (n=1)
PLATE 1	192-80-12	Apparent resistivity contour plan (n=1)

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COMINCO LTD.

EXPLORATION NTS: 82M/13 WESTERN DISTRICT 22 October 1980

Geophysical Report

on

Induced Polarization and Magnetometer Survey

CK Property

North Strat Grid

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

INTRODUCTION

During the period September 4-10, 1980, a Cominco Geophysical crew conducted a multi-separation time domain induced polarization (IP) and total field magnetometer survey over the North Strat grid on the CK property.

The CK property is located some 50 kilometres, by road, north of Clearwater, B.C. Plate 80-1 shows the general location of the property and Plate 80-2, the location of the survey grid in relation to the claims.

This report presents the data from the surveys, describes the procedures used and discusses the results.

GEOPHYSICAL SURVEYS

Induced Polarization

A Huntec M-4 LOPO portable IP transmitter in combination with a Scintrex IPR-8 receiver, were used on the survey. Chargeability (IP) response was measured in the time domain using a 2 second current on/2 second current off alternating square wave signal. The plotted chargeability values are the M_{232} measurement window of from 650 to 1170 milliseconds following cessation of the current pulse. Units are in millivolts/volt.

The pole dipole electrode array was used on the survey with an "a" spacing of 50 meters and "n" separations of 1, 2, and 3. The current electrode was kept to the east of the potential dipole on all survey lines.

The apparent resistivity was calculated from the relation:

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

where V is the voltage across the measuring dipole during the current on (I) time and K is a constant dependant on the "a" spacing and "n" separation.

Magnetometer Survey

A Scintrex MP-2 total field proton precession magnetometer was used for the magnetics survey. Readings were corrected for diurnal drift by reference to an MBS-2 base station magnetometer.

DISCUSSION OF RESULTS

The chargeability and apparent resistivity survey results are presented in pseudo section format on Plates 192-80-3 to 9, and as contour plans on Plates 11 (chargeability) and 12 (resistivity). The total field magnetometer survey results are presented as Figure 10.

Chargeability (IP) anomalies have been categorized on the plans and sections as follows:

strong IP high (>40 mv/v at near separation)
mmmmm moderate IP high (>30 mv/v at near separation)
mmmmm weak IP high (>20-30 mv/v at near separation)
IP high at further separations (>20 mv/v)

Three IP high trends of greater than 20 mv/v are identified on the IP contour plan (Plate 11) as anomalies A, B, and C.

Anomaly A lies on the western side of the survey grid on lines 36S to ; 44S. The 15 mv/v contour on the west side of line 34S is believed to represent the northward extension of anomaly A. As discussed below, the 15 mv/v contour on line 325 is believed to be associated with anomaly B. Anomaly A is coincident with moderately high resistivity on lines 38S to 44S and moderatley low resistivities on line 36S.

Anomaly B lies in the central grid area on lines 34S to 40S. The response on lines 34 and 40 are both characterized by a central apparent low between high values. The shape of these responses on the pseudo sections is typical of the response to a body which is too thin with respect to the electrode spacing. Detail work with a 25 meter spread would most likely give a single anomaly centered at the location of the apparent low at the 50 meter spread. A similiar pattern of responses was obtained on line 32S at 275 W, and this lower amplitude anomaly outlined by the 15 mv/v contours is believed to represent the northward extension of anomaly B. The contours on the IP and resistivity plan have been biased to indicate this. Anomaly B is coincident with moderately low apparent resistivities.

Anomaly C lies in the northeast portion of the survey grid on lines 32S to 38S. The anomaly is coincident with high resistivities on lines 32S to 36S and the western portion of the anomaly on 38S. The eastern portion of anomaly C on line 38S is coincident with a pronounced resistivity low that extends from line 36S; 3750E to line 44S; 3425E.

Three magnetic field anomalies of greater than 58500 gammas are noted on the magnetic contour plan as anomalies I, II, and III. Anomaly I trends north-south from line 34S to 40S. The anomaly lies between IP anomalies A and B, and is coincident with a resistivity high. The 58400 gammas contour suggests anomaly I continues off the grid to

- 2 -

both the north and south. Anomaly II is an isolated magnetic high located on line 40S; 3350E. The anomaly is immediately adjacent to the east flank of anomaly B. Anomaly III is an isolated magnetic high on line 36S; 3650E. It lies within a north-south magnetic high trend, indicated by the 58400 contour, that extends across the entire survey area. This trend cuts across the trends of both the IP and resistivity contours.

CONCLUSION

The North Strat grid on the CK property was surveyed with multi-separation time domain IP and total field magnetics in early September, 1980. The survey outlined three anomalous IP trends, which are labelled A, B, and C on the IP contour plan (Plate II).

Magnetic anomalies, labelled I, II, and III on Plate 12, do not directly correlate to those IP anomalies.

Correlation of these geophysical anomalies to geochemistry data and geological information is required to determine if drill testing is warranted.

Respectfully Submitted:

len.

A.R. Scott Geophysicist Western District

Endorsed for Release by :

G. Harden, Manager Exploration. Western District

ARS:vmk

Distribution:

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

APPENDIX I

CERTIFICATION

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

- THAT I graduated from the University of British Columbia in 1970 with a B.Sc. in Geophysics;
- THAT 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.
- THAT I have been practising my profession for the past ten years.

Alan R. Scott, Geophysicist

23 October 1980

C A N A D A PROVINCE OF BRITISH COLUMBIA TO WIT:

STATUTORY DECLARATION

I, ROBIN LAWSON WOODS, of the District of North Vancouver, in the Province of British Columbia, DO SOLEMNLY DECLARE THAT: 1. I am the Supervisor, Exploration and Foreign Accounting for Cominco Ltd., 2300 - 200 Granville Street, Vancouver, British Columbia, and, as such have knowledge of the facts deposed to herein. 2. Attached to this Statutory Declaration, as Schedule A, is a statement of expenditures indicating the expenditures charged by Cominco Ltd. to the CK Property account for the period January 1, 1980 to October 31, 1980.

3. The statement of expenditures referred to in paragraph 2 is true and accurate to the best of my knowledge, information and belief.

4. This Statutory Declaration is made in support of an application for credit as assessment work pursuant to the Mineral Act of British Columbia.

AND I make this solemn declaration conscientiously believing it to be true 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 12fh day of November 1980

Commission for Affidavits Brit K Columbr r

Anthony Allen Zoobkoff A Commissioner for taking Affidavits for British Columbia.

Robin Lawson Woods

This is Schedule A referred to in the Statutory Declaration of ROBIN LAWSON WOODS declared before me this/2th day of November, 1980.

A Commissioner for Affidavits for British 'Columb

Anthony Allen Zoo5koff A Commissioner for taking A flidavits for British Columbia.

STATEMENTS OF EXPENDITURES

CK PROPERTY

KAMLOOPS M.D., B.C.

JANUARY 1, 1980 TO OCTOBER 31, 1980

Geology	\$ 59,850
Linecutting	2,559
Geophysics	13,273
Geochemistry	16,045
Diamond drilling	104,565
Transportation	11,681
Access	10,898
Camp costs	8,394
Tenure	11,988
Option payment	20,000
Communications	2,164
Administrative services	24,142
	\$285,559

Cominco Ltd. Vancouver Office <u>November 12, 1980</u> Copies: Mining Recorder (2) Senior Technician File (2)

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Robin Lawson Woods Supervisor, Exploration & Foreign Accounting

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

<u>C K PROPERTY</u>

KAMLOOPS, M.D., B.C.

STATEMENT OF EXPENDITURES

WORK PERFORMED JULY 5 - SEPT. 18,1980

TYPE OF WORK	DIRECT COST	CAMP COST	SUPERVISION & CORE LOGGING COSTS	TOTAL COSTS
Drilling .	\$ 104,565	\$ 5,950	\$ 37,600	\$ 148,115
Geochemistry	16,045	1,410	7,300	24,755
Road Const. & Acc. to Drill sites	, 10,898	1,034	4,950	16,882
Geophysics	15,832	-	-	15,832
	\$ 147,340	\$ 8,394	\$ 49,850	\$ 205,584

<u>C K PROPERTY</u>

WORK PERFORMED JULY 5 - SEPT. 18,1980

GROUPING	DRILLING	GEOCHEM.	ROAD	GEOPHYSICS	TOTAL
CK80-1	\$ -	\$ 1,637	\$ 4,000	\$ -	\$ 5,637
2	-	4,852	-	744	5,596
3		7,906	· -	930	8,836
4	-	7,021		10,044	17,065
5	40,896	_		-	40,896
6	29,586	1,733	2,176	3,525	37,020
7	72,700	1,052	-	-	73,752
••••	\$ 143,182	\$ 24,201	\$ 6,176	\$ 15,243	\$ 188,802

TOTAL VALUE OF WORK DECLARED

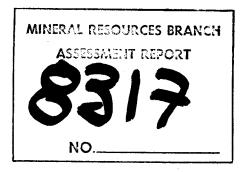
GR.Ck 80	1 - 7	\$ 188,802
-CK 79	-3 Suppl.	3,000
СК 79	-7	8,700
Cost Stat Assessmen to be Min	t Report	\$ 200,502

PAC	APPLIED:		WORK APPLIED	WORK & PAC APPLIED
Credit +	Applied			
\$ 37.000	\$ 304.00 1,264.00 3,735.00 9,504.00 7,156.00 14,448.00	CK 80-1 80-2 80-3 80-4 80-5 80-6 80-7	<pre>\$ 3,400.00 5,596.00 8,836.00 17,065.00 40,896.00 36,844.00 73,752.00</pre>	\$ 3,400.00 5,900.00 10,100.00 20,800.00 50,400.00 44,000.00 88,200.00
	\$ 36,411.00		\$ 186,389.00	\$ 222,800.00

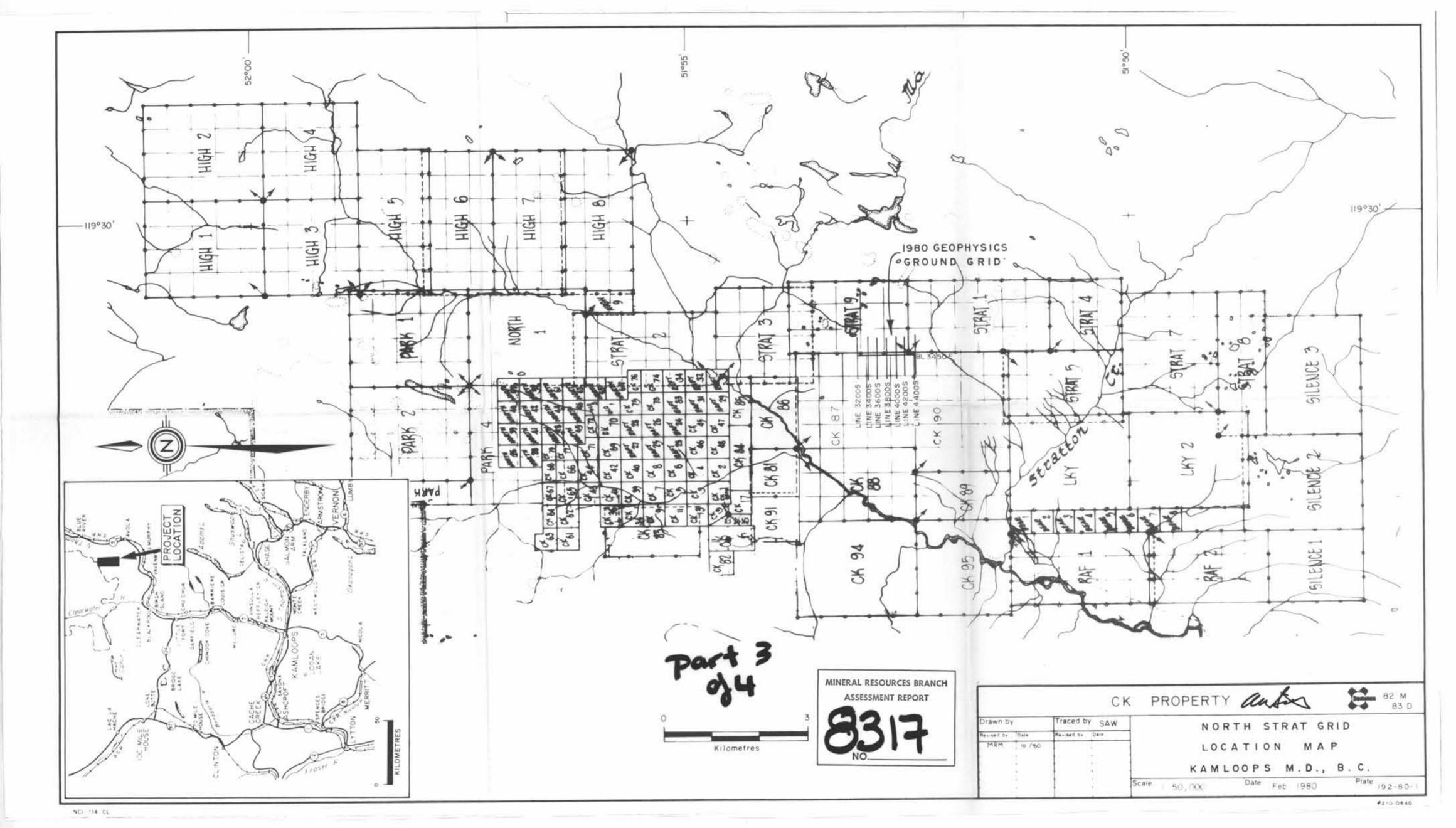
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	\$ -	36,411.00 37.00
	\$	36,374.00

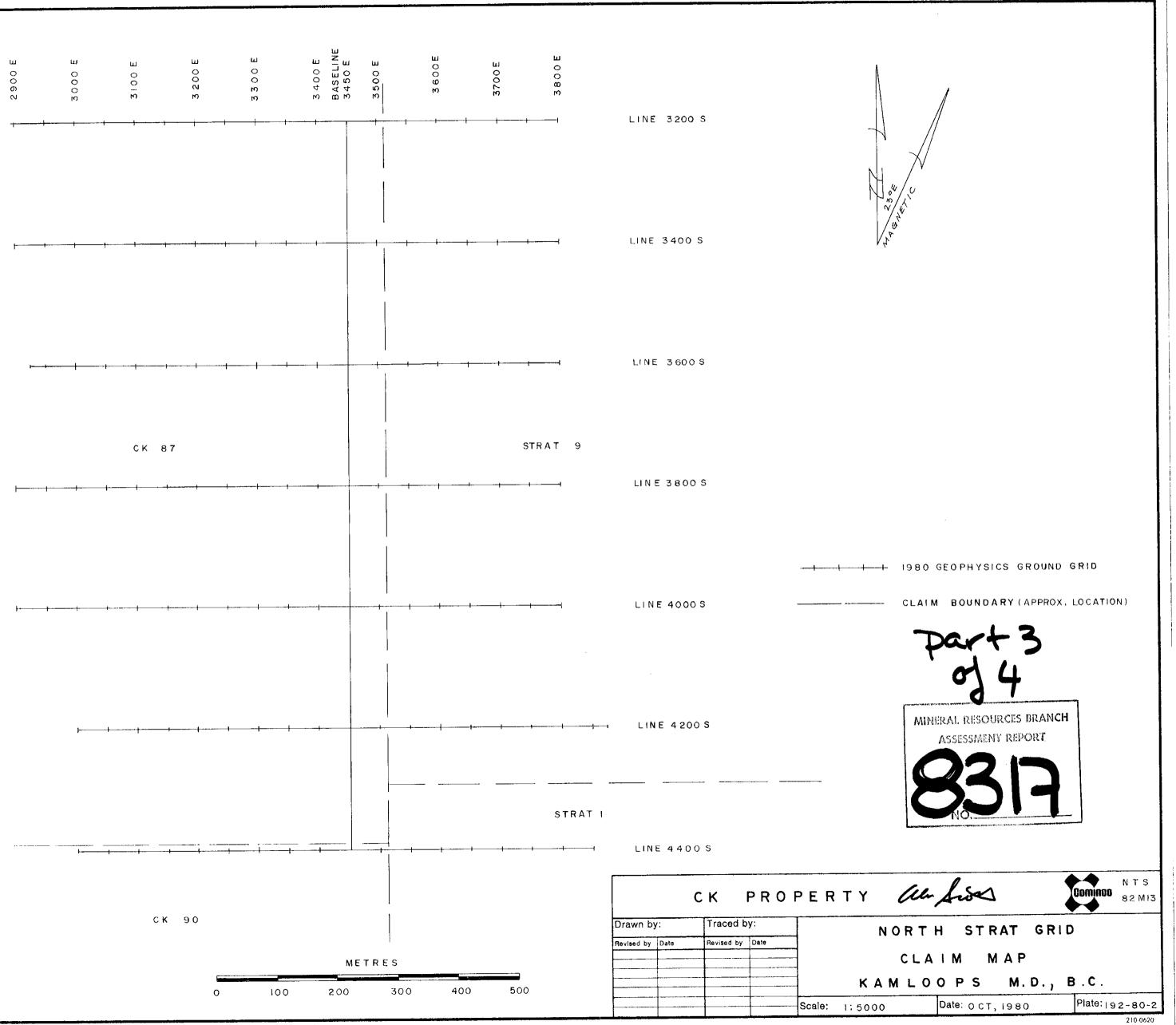
<u>Tenure Fees</u>

•	7 @ \$5.00 5% of Assessment	\$	35.00
	value	Ţ	1,140.00
		\$ 11	.175.00



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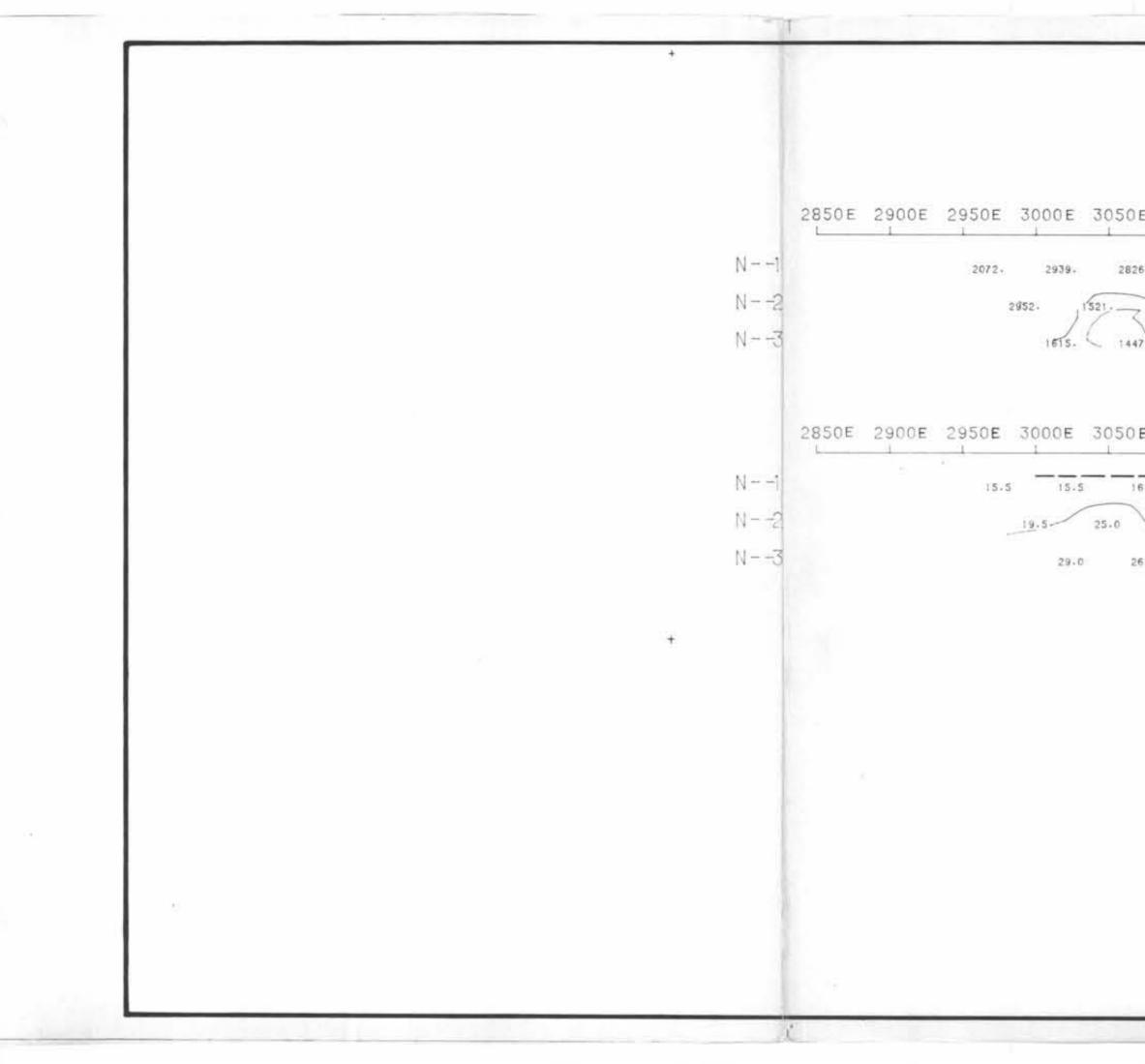




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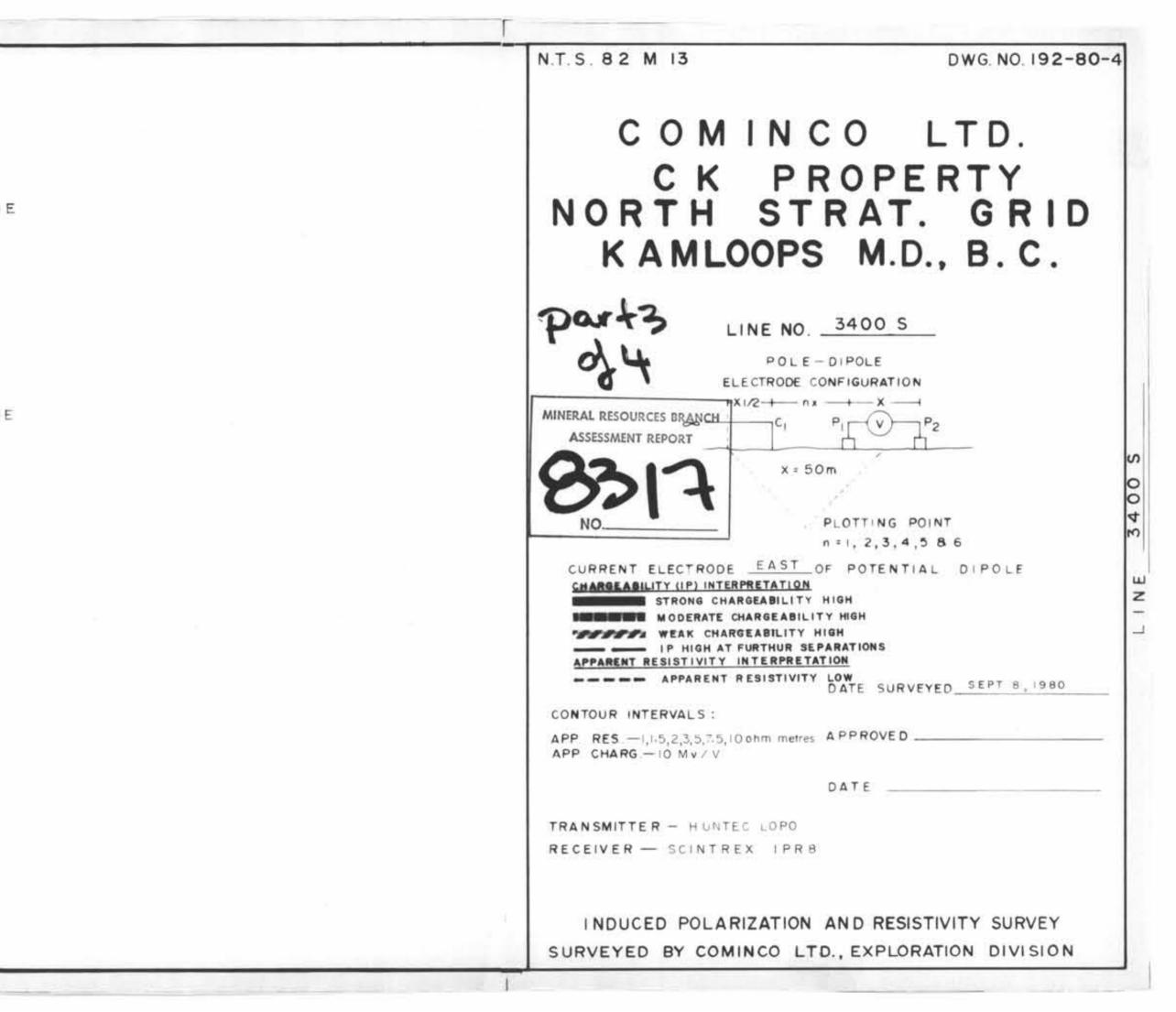
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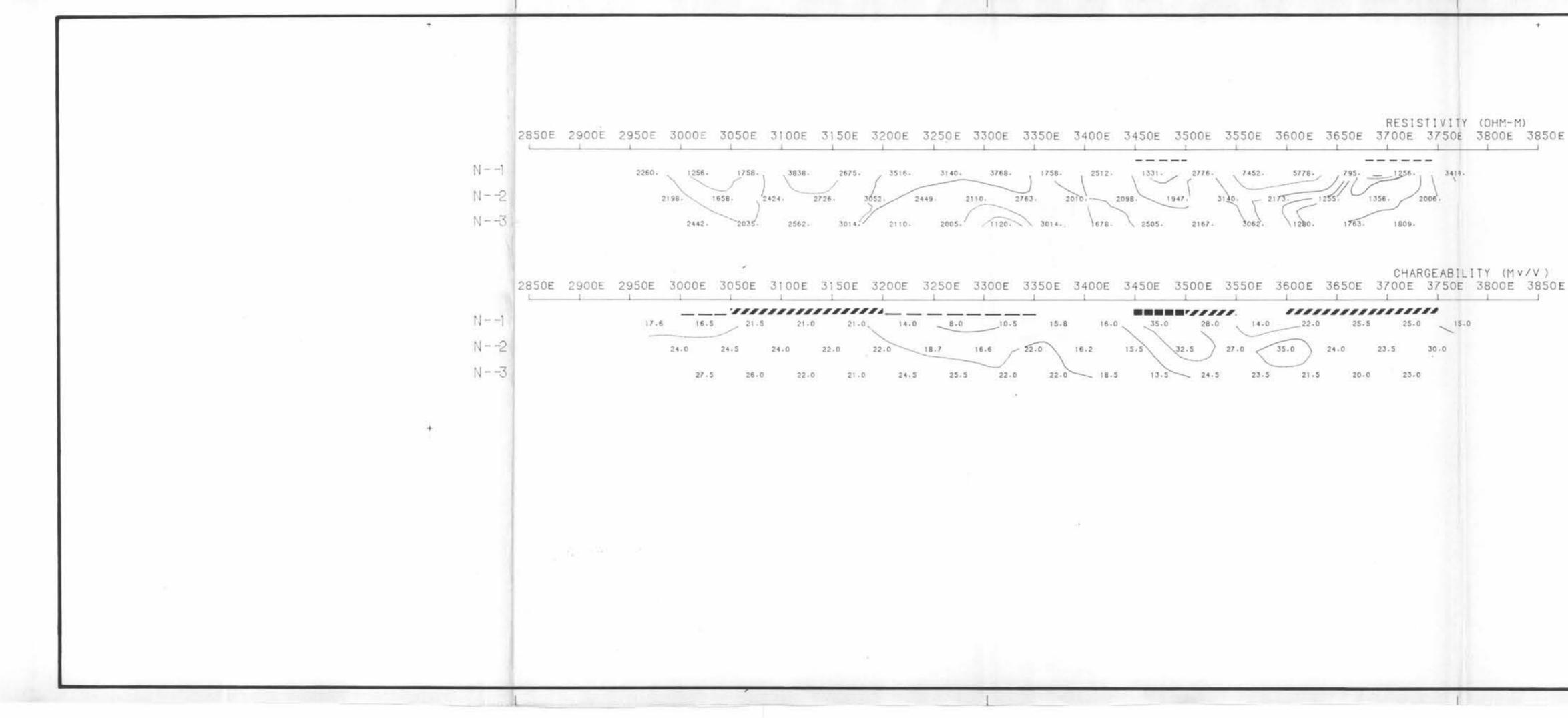


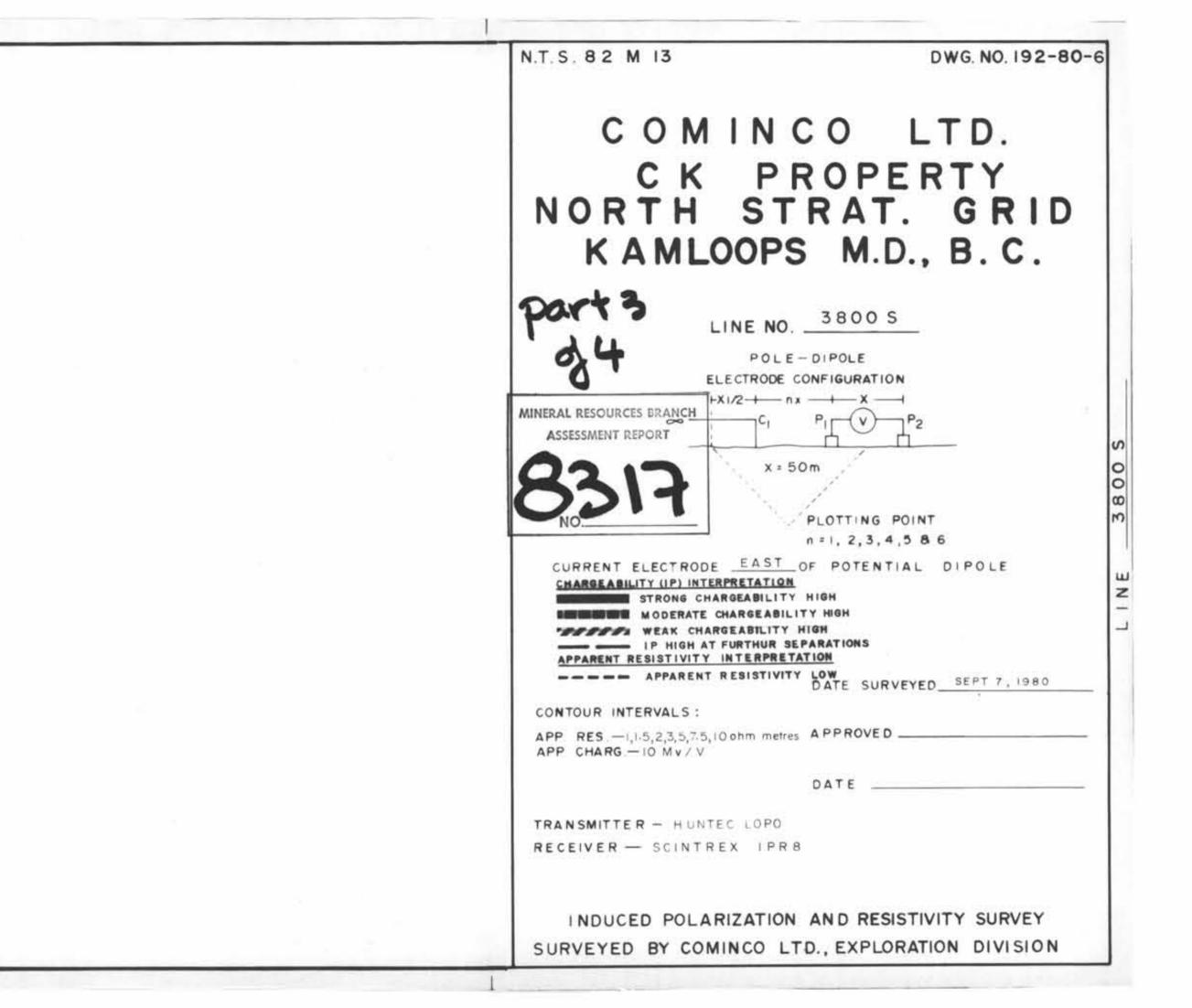


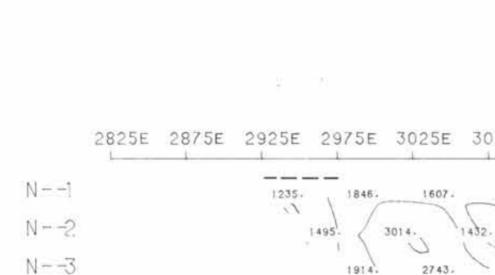
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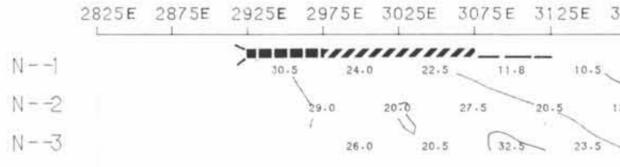
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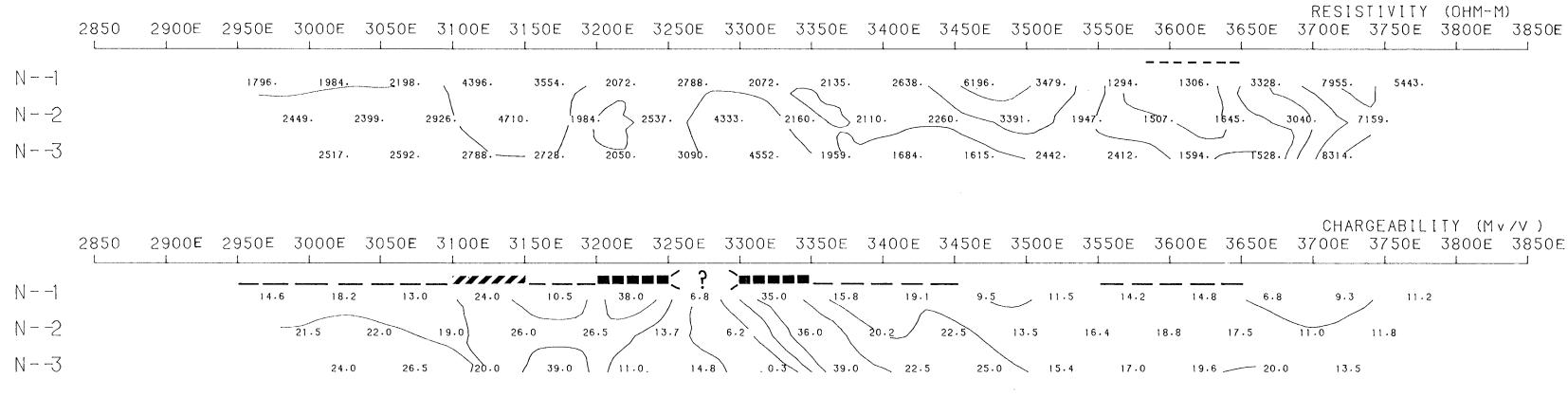
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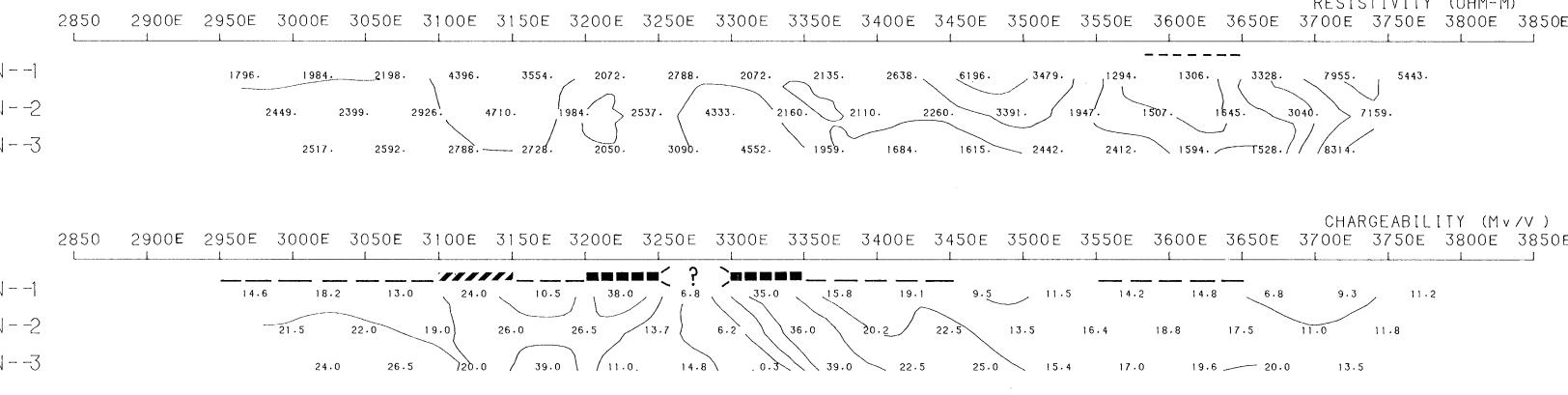
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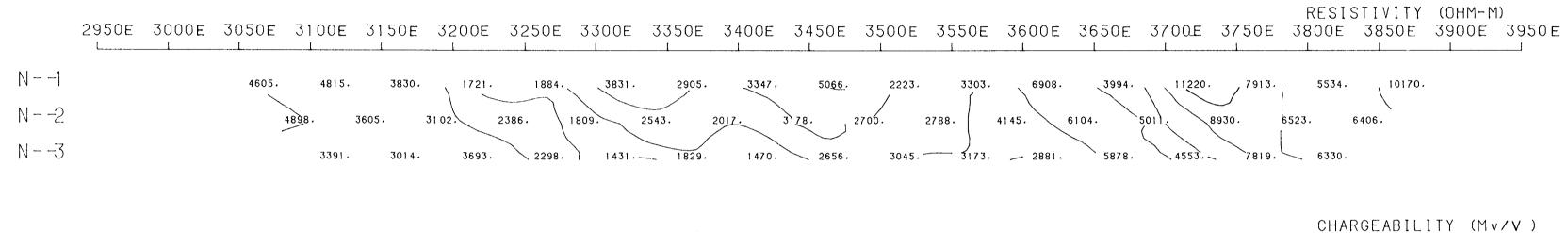
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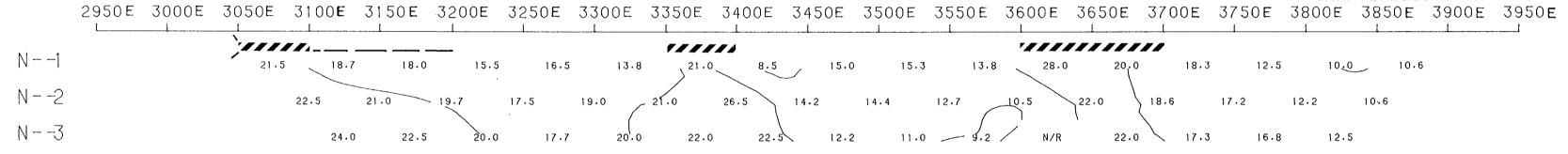
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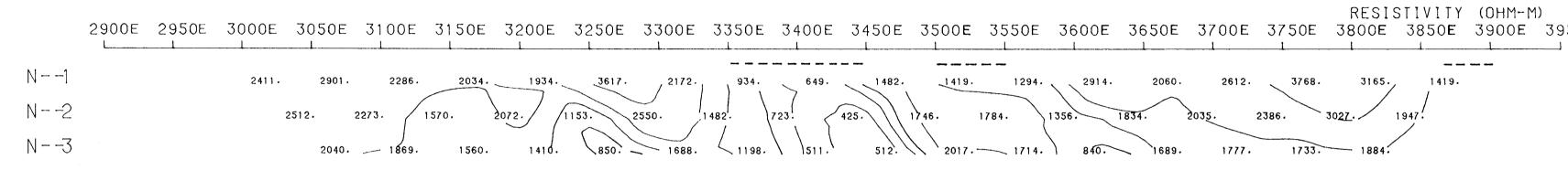
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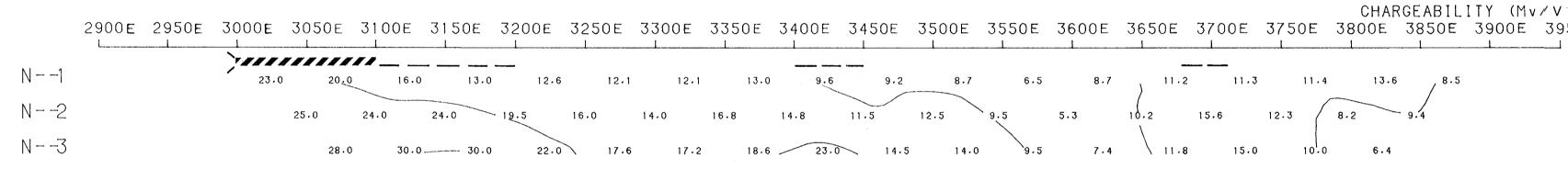
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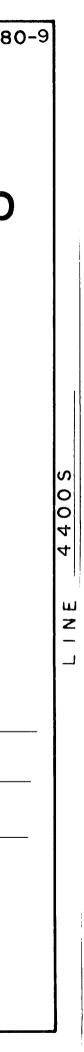
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APPARENT RESISTIVITY INTERPRETATION APPARENT RESISTIVITY LOW DATE SURVEYEDSEPT,6,1980 CONTOUR INTERVALS: APP. RES1,1-5,2,3,5,7-5,100hm metres APPROVEDAPP CHARG10 Mv / V DATE TRANSMITTER - HUNTEC LOPO RECEIVER - SCINTREX IPRB	WEAK CHARGEABILITY HIGH	
CONTOUR INTERVALS: APP. RES. —1,1:5,2,3,5,7:5,10 ohm metres APPROVED APP CHARG.— 10 M v / V DATE TRANSMITTER — HUNTEC LOPO RECEIVER — SCINTREX IPR 8	APPARENT RESISTIVITY INTERPRETATION	
APP RES. — 1,1.5,2,3,5,7.5,10 ohm metres APPROVED APP CHARG. — 10 Mv / V DATE TRANSMITTER — HUNTEC LOPO RECEIVER — SCINTREX IPR8		SURVEYED <u>SEPT</u> , 6, 1980
APP CHARG.—IO MV/V DATE TRANSMITTER — HUNTEC LOPO RECEIVER — SCINTREX IPRB		ROVE D
TRANSMITTER — HUNTEC LOPO RECEIVER — SCINTREX IPR8	APP CHARG - IO MV / V	
RECEIVER - SCINTREX IPR8	DAT	Ε
	TRANSMITTER - HUNTEC LOPO	
INDUCED DOLARIZATION AND RESISTIVITY SURVEY	RECEIVER - SCINTREX IPR8	
INDUCED POLARIZATION AND RESISTIVITY SURVEY		
	INDUCED POLARIZATION AND	RESISTIVITY SURVEY
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION	SURVEYED BY COMINCO LTD., E	XPLORATION DIVISION

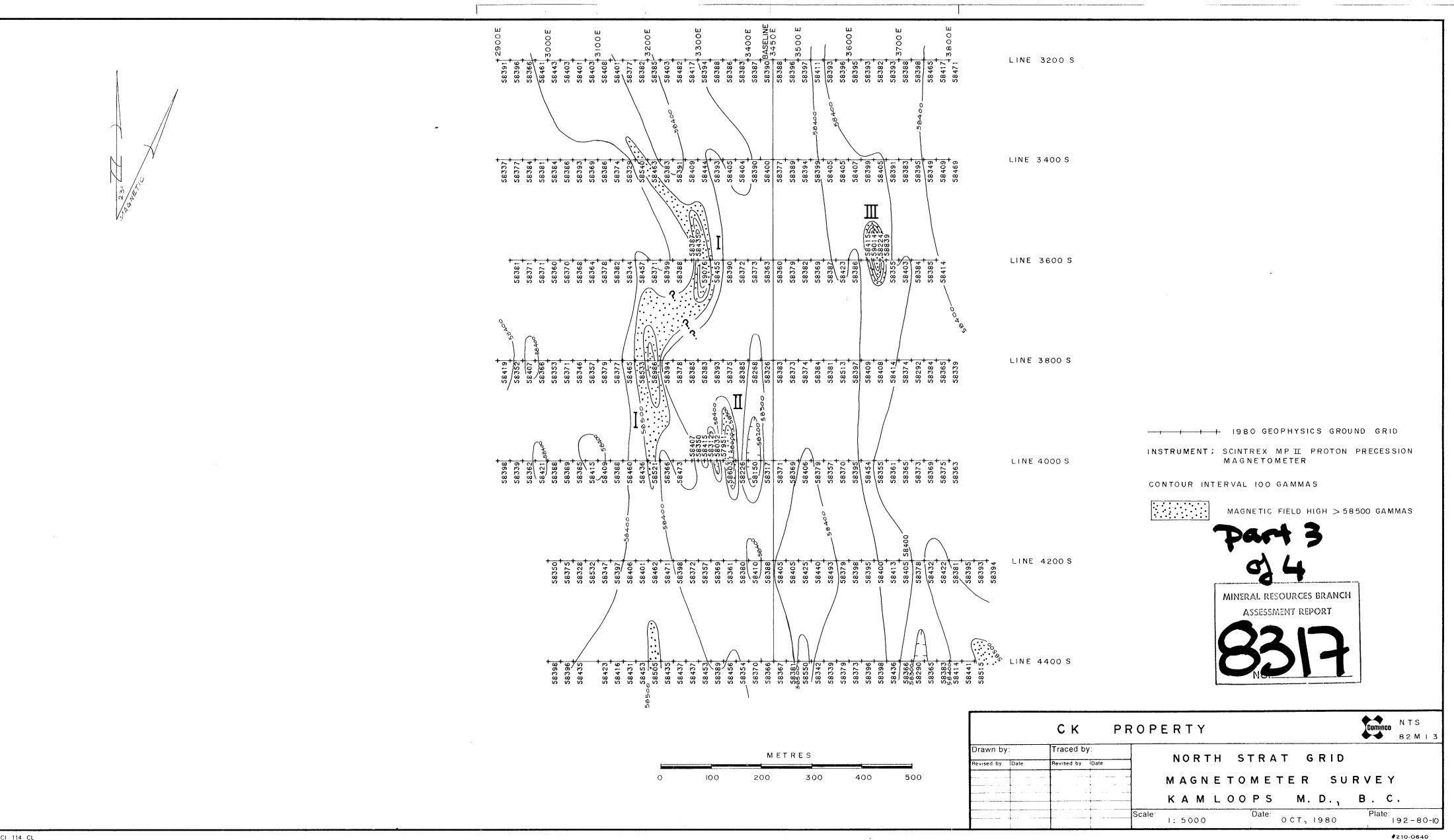


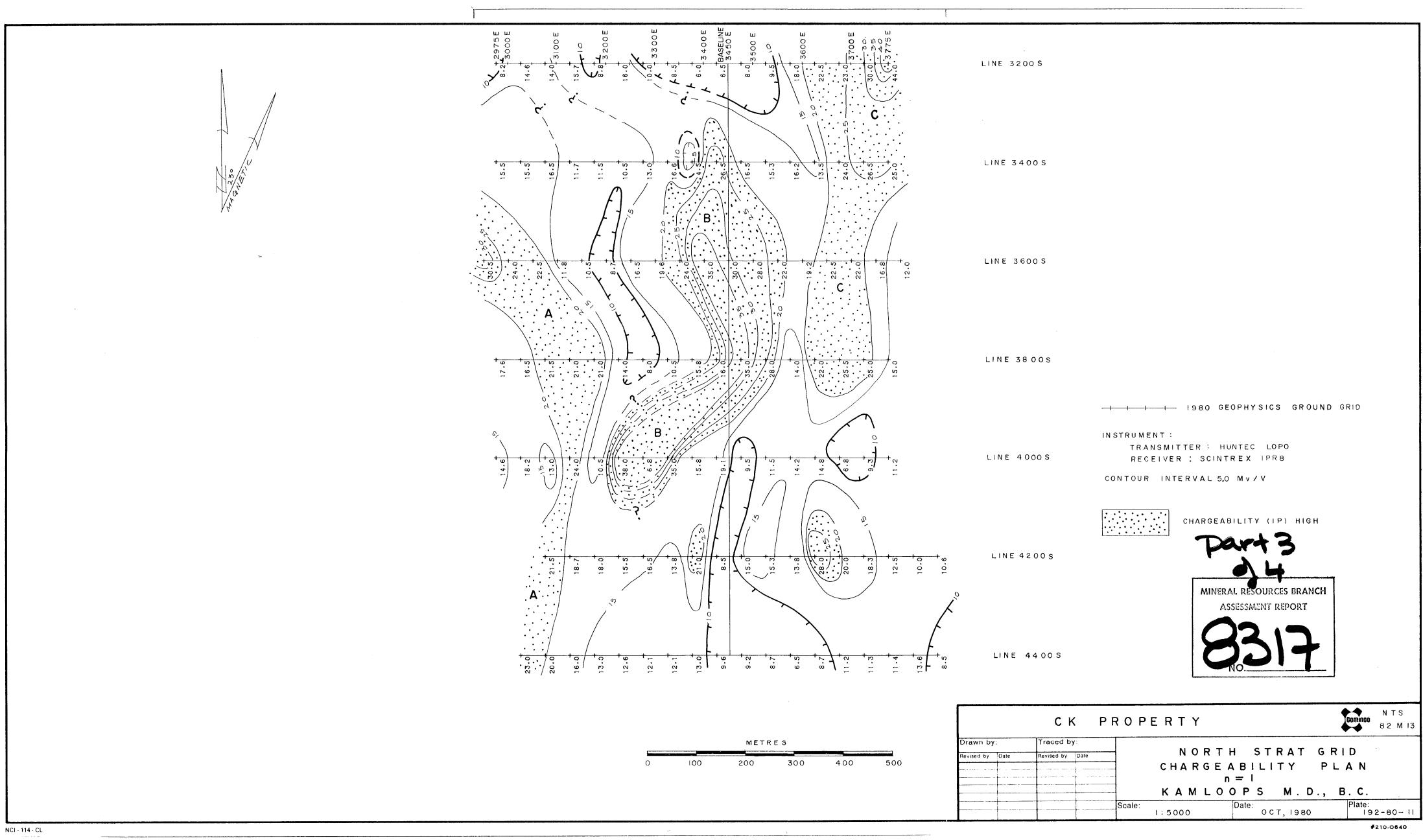


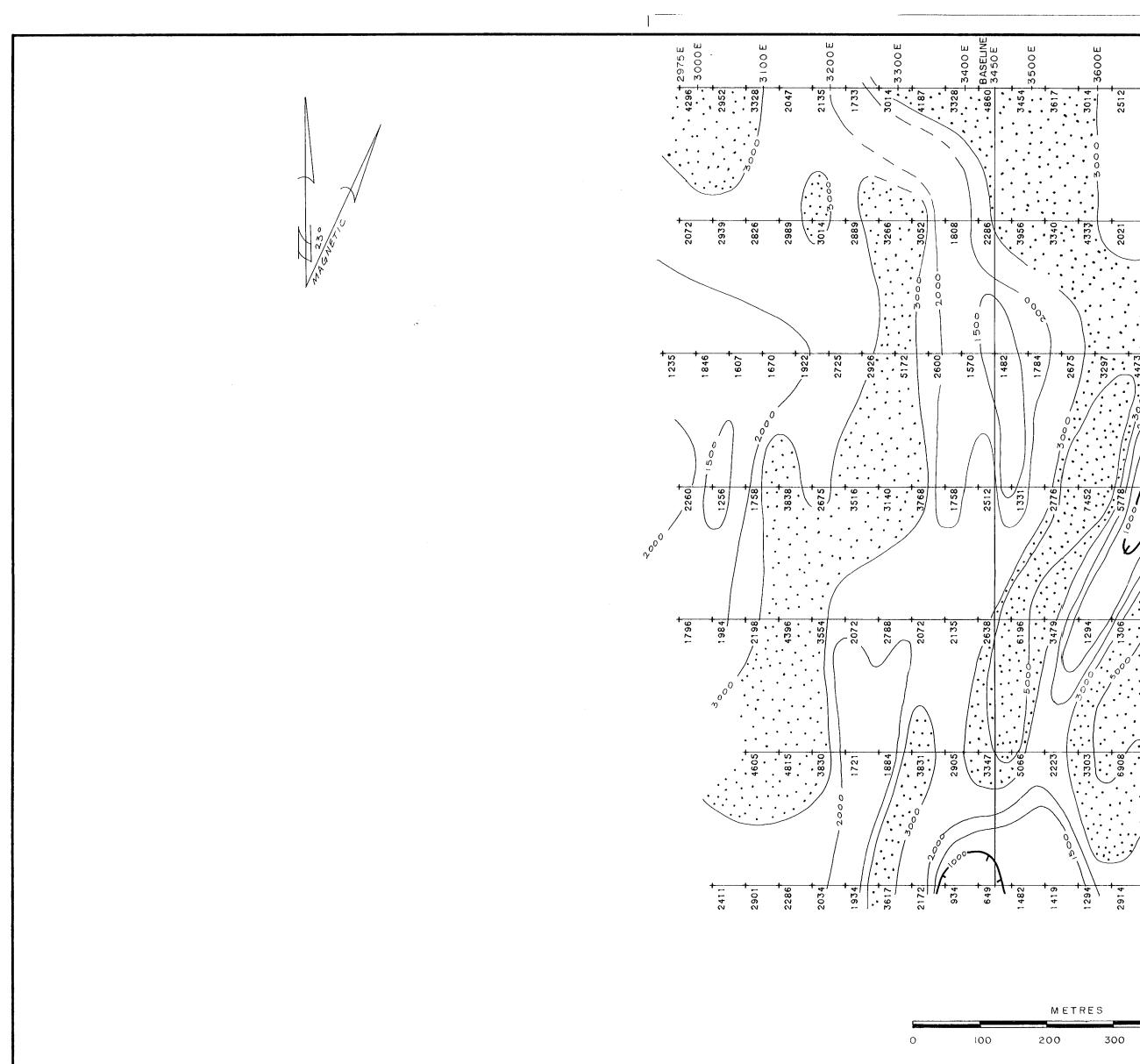


	N.T. S. 82 M 13 DWG. NO. 19	2-80
50E	COMINCO LTD. CK PROPERTY NORTH STRAT. GRI KAMLOOPS M.D., B.C.	
) 50e .	DATES ANDER DEPORT DATE NO. <u>4400 S</u> POLE - DIPOLE ELECTRODE CONFIGURATION HX1/2 - nx - X - 1 MINERAL RESOURCES BRANCH C1 P1 V P2	
	ASSESSMENT REPORT	
	CONTOUR INTERVALS :	8 0
	APP. RES	- <u></u>
	TRANSMITTER - HUNTEC LOPO RECEIVER - SCINTREX IPR8	
	INDUCED POLARIZATION AND RESISTIVITY SURVEY SURVEYED BY COMINCO LTD., EXPLORATION DIVISIO	









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3340 	LINE 3400S	
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2612 2914 2914 2914 2060 2060 2060 2060 2060 2060 2060 206	LINE 4400 S	REPORT
	CK PROPERTY	Cominco NTS 82M13
WEIRES	RESISTIV n = 1 KAMLOOPS	M.D., B.C.
	Scale: I:5000 Date:	OCT, 1980 Plate 192-80-12
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