

COMINCO LTD.

EXPLORATION  
N.T.S. 82M/13

WESTERN DISTRICT

GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION AND MAGNETICS SURVEYS

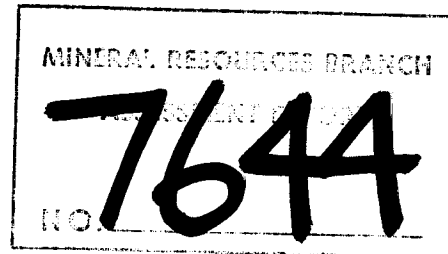
CK PROPERTY

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

Latitude:  $51^{\circ}55'N$ ; Longitude:  $119^{\circ}35'W$

Work Performed: May 19-23  
June 13-July 3  
Sept 14-Oct 2

On Claims: CK 6, 7, 8, 34, 39, 40, 42, 45,  
46, 63, 65, 69-73, 75, 76, 78,  
87-90  
NORTH 1; RAFT 23-28; ULO 1-4  
PARK 1



November 1979

ALAN R. SCOTT

PART 1 of 3

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COMINCO LTD.

EXPLORATION  
N.T.S. 82M/13

WESTERN DISTRICT

GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION AND MAGNETICS SURVEYS

CK PROPERTY

INTRODUCTION

The CK Property is located some 50 kilometers by road north-east of Clearwater, B.C. Plate 157-79-1 shows the general location of the property. Plates 157-79-2, 3, and 4 show the location of the survey lines relative to the claims.

Geophysical surveys were carried out in three separate stages on the CK property during the 1979 field season. The first survey (May 19-23) consisted of 2.1 line kilometers of detail induced polarization (IP) over the "main boulder area". The second survey (June 13-July 3) consisted of 3.8 line kilometers of magnetics and reconnaissance IP on the Autumn grid and 28.8 line kilometers on the Mist grid.

The above surveys were conducted by COMINCO geophysical crews. The third survey (Sept 14-Oct 2) was done under contract by Peter E. Walcott & Associates Ltd. in the "Raft Synform" area, and consisted of 6.5 line kilometers of IP.

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

LOCATION AND

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### LOCATION AND ACCESS

Road access to the CK property can be gained by turning north off highway number 5, three kilometers east of Clearwater onto a well maintained logging road which follows the Raft River valley. The survey grids are in the vicinity of the junction of McCloskey Creek and Raft River, some 50 road kilometers northeast of Clearwater.

### G E O L O G Y

The CK property is underlain by highly metamorphosed sedimentary rocks of the Shuswap Complex. Dominant rock types are biotite gneiss and pegmatite along with amphibolite, calc silicate, marble, and lamprophyre and diabase dykes.

Exploration interest in the area was aroused by the presence of mineralized (Zn-Pb) boulders. The geology has been described in more detail elsewhere (Murrel 1979).

### G E O P H Y S I C A L S U R V E Y S

Magnetics: A Scintrex MP-2 total field proton precession magnetometer was used for the magnetics survey. The instrument has a scale sensitivity (digital readout) of 1 gamma. The data was corrected for diurnal variation using the standard base and sub-base station looping method. Tie-in to the 1978 survey data was accomplished by repeating stations.

Magnetic surveys

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Magnetic surveys were conducted over the Mist and Autumn grids. The values are plotted on Plates 157-79-5 and 6, respectively.

Induced Polarization; Detail Survey: ARScott, geophysicist, was the receiver operator on the detail IP survey.

A Huntex Mk IV LOPO portable IP transmitter, in combination with a Scintrex IPR-8 receiver, was used on the detail survey. Chargeability (IP) response was measured in the time domain employing a 2 second current on / 2 second current off alternating square wave signal. The chargeability values plotted are the  $M_{232}$  values, and units are millivolts per volt. A more detailed description of the IPR-8 receiver can be found in the operator's manual.

The dipole-dipole electrode array was used on the detail survey, with an "a" spacing of 25 meters and "n" separation normally of 1 and 2 only. The current dipole was maintained to the west of the potential dipole.

The apparent resistivity data is given in units of ohm meters. The values were calculated from the relation:

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

where V is the voltage drop across the potential dipole due to a transmitted current I, and K is a geometric factor dependent upon the array used, the "a" spacing, and the "n" separation.

Induced Polarization; Reconnaissance Survey: GJNiemyer, geophysical technician, was the receiver operator on the

COMINCO reconnaissance

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COMINCO reconnaissance IP surveys.

A Hunttec 7.5 Kw motor generator/IP transmitter, in combination with a Scintrex IPR-8 receiver, was used for these recce surveys. Measurement parameters were the same as for the previously described detail survey, except that the pole dipole electrode array was used, with an "a" spacing of 50 meters and "n" separation of 1, 2, 3, and 4.

GMacMillan was the receiver operator for the Walcott (Raft Synform) IP survey. A Hunttec 7.5 Kw transmitter with a Hunttec MK III receiver was used, with a delay time ( $t_d$ ) of 240 msec and a basic integrating time ( $t_p$ ) of 60 msec. The MK III values were "converted" to IPR-8 equivalent by multiplying the total MK III chargeability  $.6 (M_1+2M_2+4M_3+8M_4)$  by 1.47. The array and spacings were the same as for the COMINCO recce survey.

The data from these surveys is plotted in standard pseudo-section format. This is a schematic form of data presentation and no direct depth to target or target geometry is implied by it.

## DISCUSSION OF RESULTS




### Detail Survey: Main Boulder Grid

A detail IP survey was done over the "main boulder area" in 1979. This area was previously surveyed at a 50 meter electrode separation on lines 100 meters apart in 1978. Owing to the presumed steep dips and narrow width of the source of the anomalies detected, detail survey at a 25 meter electrode separation, and at a 50 meter line

interval, was

.....5/

interval, was undertaken, to better define target location for drill testing. The results of the detail work are plotted on pseudosections 157-79-7 to 12. Chargeability anomalies are coded as follows:

-  strong (greater than 40 mv/v and well defined)
-  moderate (greater than 40 mv/v)
-  weak (20-40 mv/v)

Resistivity lows, defined herein as less than 500 ohm meters, are indicated by a dashed line.

Several strong coincident chargeability highs/apparent resistivity lows are indicated on the sections. The strongest coincident anomalies are:

- line 100N, 375E and 450E
- line 250N, 300E
- line 300N, 300E
- line 400N, 50E




#### Reconnaissance Survey: Mist Grid

The Mist Grid was surveyed with a 50 meter electrode spacing on lines 100 meters apart. The survey is a continuation to the north of work done in 1978, and consisted of line 600N to 2600N. The results are plotted on pseudosections 157-79-13 to 33.

Chargeability anomalies

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Chargeability anomalies are coded on the sections as follows:

-  strong (greater than 40 mv/v and well defined)
-  moderate (greater than 40 mv/v)
-  weak (20-40 mv/v)

Resistivity lows, defined as less than 500 ohm meters, are indicated by a dashed line.

Several strong and moderately strong chargeability anomalies were detected on the Mist Grid survey. As graphite and pyrrhotite are common in some of the rock types underlying the CK property (notably, portions of the biotite gneiss unit), it is not possible to assign a priority rating to these anomalies from an amplitude of response perspective alone. Detailed correlation to geochemistry data and geological information is required. Some of the main geophysical features are briefly described below.

Strong and moderately strong chargeability anomalies were detected in the southwest portion of the survey area on lines 600N to 1200N. These anomalies lie in a north to northwest trend, and are centered at the following locations:

line 600N; 925, 1100, 1225E  
line 700N; 925, 1125E  
line 800N; 950, 1125E  
line 900N; 825, 975E  
line 1000N; 600, 825E  
line 1100N; 550E  
line 1200N; 600, 750E

A north northwest

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A north northeast trend of strong and moderately strong chargeability anomalies was detected on the eastern portion of survey lines 600N to 2600N. These anomalies are approximately centered at the following locations, and often consist of very broad or multiple source responses:

line	600N; 1650E
"	700N; 1625E
"	800N; 1625, 1775E
"	900N; 1575E
"	1000N; 1625E
"	1100N; 1750E
"	1200N; 1800E
"	1300N; 1875E
"	1400N; 1925E
"	1500N; 1900E
"	1600N; 2000E
"	1700N; 1625, 1725, 1925, 2050E
"	1800N; 1625, 1775, 2100
"	1900N; 1825, 2150E
"	2000N; 1875; 2200E
"	2100N; 1975, 2200E
"	2200N; 1875, 2300E
"	2300N; 2350E
"	2400N; 2025, 2400E
"	2500N; 2075, 2325E
"	2600N; 2100, 2300, 2750E

The magnetometer survey results for the Mist grid are plotted in contour plan form on Plate 157-79-5. The magnetic trends correlate well to the previously mentioned IP trends. There is a definite northeasterly to north trend to the contours in the northern portion of the Mist grid, and a northwesterly trend in the southwestern portion of the grid.

A series of narrow subparallel magnetic highs were detected on the eastern portion of all the survey lines, particularly lines 1500N to 2600N. In general, they are spatially

coincident with

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coincident with the chargeability anomalies previously discussed.

The magnetic field highs in the southeastern portion of the grid tend to be more patchy and do not correlate as well from line to line (as in the north and eastern portion of the grid). A similar pattern was obtained for the chargeability anomalies. This may be partly due to the rather oblique angle of the survey lines to the apparent geological strike in that area.

#### Reconnaissance Survey: Autumn Grid

The Autumn Grid was surveyed with a 50 meter electrode spacing on lines 100 meters apart. Lines surveyed were 4100S to 4500S, and the results are plotted on pseudosections 157-79-34 to 38.

Chargeability anomalies are classified as described for the Mist Grid. No resistivity lows of less than 500 ohm meters were detected on the Autumn Grid survey.

The strongest chargeability anomaly of the Autumn survey was 40 mv/v which plots at 1025E on line 4300S. It is coincident with a weak resistivity low.

The magnetic field values are plotted in contour plan form on Plate 157-79-6. The strongest highs of the survey were at 1075E on line 4100S and at 900E on line 4500S. They rise some 400 and 500 gammas, respectively, above local background.

Recon. Survey: Raft

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Reconnaissance Survey: Raft Synform Grid

The Raft Synform Grid was surveyed, under contract, by P.E. Walcott & Associates Ltd. The electrode spacing was 50 meters and lines were spaced 100 meters apart. Lines 4500N to 5100N were surveyed, and the results are plotted on pseudosections 157-79-39 to 45.

Chargeability anomalies and apparent resistivity lows are defined as described for the Mist Grid, and are indicated on the sections.

The highest chargeability of the Raft Synform Grid was obtained at n=3 on the westernmost portion of line 5100N. It is coincident with a resistivity low of 297 ohm meters. The associated n=1 value plots at 3325E.

A strong chargeability high of 56.5 mv/v, coincident with a resistivity low of 361 ohm meters, plots at 2875E on line 4500N.

CONCLUSIONS

Portions of the CK claims were surveyed with multi-separation time domain IP and total field magnetics in the 1979 field season. Work done consisted of detail IP on the Main Boulder Grid, reconnaissance IP on the Mist, Autumn and Raft Synform grids, and magnetics on the Mist and Autumn grids.

Chargeability (IP) anomalies detected on the survey have been classified as either strong, moderate or weak on the accompanying pseudosections. Apparent resistivity lows of


less than 500

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less than 500 ohm meters have also been noted. Some of the stronger geophysical responses are noted in the previous section. Due to the common presence of graphite and pyrrhotite in the rock types that occur on the CK property, numerous anomalies are present which are not necessarily related to economically interesting mineralization. Hence detailed correlation of these geophysical results to geological and geochemical information is required prior to any drill testing.

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Respectfully submitted:

  
\_\_\_\_\_  
ALAN R. SCOTT  
Geophysicist

Endorsed for release:

  
\_\_\_\_\_  
G. HARDEN  
Manager, Western District

ARS/tlp  
5/12/79

Distribution:

Mining Recorder - 2  
Western District- 1  
Geophysics File - 1

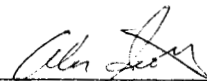
APPENDIX I

IN THE MATTER OF THE B.C. MINERAL ACT  
AND IN THE MATTER OF A GEOPHYSICAL PROGRAMME  
CARRIED OUT ON PORTIONS OF THE CK, RAFT, ULO, NORTH  
AND PARK 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 R. 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 above-  
noted claims;
3. That the said expenditures were incurred for the purpose  
of mineral exploration of the above-noted claims between  
the 19th of May and the 2nd of October 1979.



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ALAN R. SCOTT  
Geophysicist

ARS/tlp  
5/12/79

APPENDIX II

STATEMENT OF EXPENDITURES

(IP and magnetics survey; linecutting)  
CK Property

I. DETAIL SURVEY, May 18-23)

Salaries:

ARScott	May 20-22	3 days @	\$150.00	\$	450.00
NTHopkins	" 19-22	4 " "	\$125.00		500.00
G Radway	" 19-22	4 " "	\$ 81.00		324.00

Charges per operating day

(towards report, drafting, supervision)

3 days IP survey @ \$175/day 525.00

Miscellaneous (travel expenses, gas, consumables) 272.00

Camp costs: 14 man days @ \$15 210.00

Equipment rentals & charges

Portable IP system 3 days @ \$65.00 195.00

Truck rental, May 17-23 221.00 \$ 2,697.00

II. COMINCO RECONNAISSANCE SURVEY,  
June 13-16, 18-23, 25-30; July 1-3

Salaries:

GJNiemeyer	19 days @	\$105.00	\$1995.00
RPrefontaine	19 " "	\$ 81.00	1539.00
ICummings	19 " "	\$ 81.00	1539.00
JBell	19 " "	\$ 81.00	1539.00
DSaunders	19 " "	\$ 81.00	1539.00
SKirstiuk	12 " "	\$ 81.00	972.00

Charges per operating day

(towards report, drafting, supervision)

17 days IP survey @ \$175/day \$2975.00

Miscellaneous (travel exp., gas, cons.) 808.47

Camp costs: 120 man days @ \$15 1800.00

Equipment rentals and charges

7.5 Kw IP system 19 days @ \$251 4769.00

Linecutting

Per contract with Martinson 6827.00

Supervision of linecutting (Murrel,  
2 days @ \$172.31) 344.62

Truck rental, 3 days @ \$20.97 62.90

Gas 30.00 26,739.99

Total carried forward....\$29,436.99

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Total brought forward. . . \$29,436.99

III. WALCOTT RECONNAISSANCE SURVEY,  
Sept 14-Oct 2

13 days IP survey per contract (Invoice No. 1457)	\$8437.94	
Linecutting, 10 kms @ \$300	3000.00	
Gas & fuels	27.00	
Domicile, 70 man days @ \$20/day	1400.00	
Drafting, 2 days @ \$90	180.00	
Supervision (Murrel), 1 day @\$172	172.00	
Report preparation (ARScott), 2 days @ \$150.00	<u>300.00</u>	<u>13,516.94</u>

GRAND TOTAL. . . . . \$42,953.93

ARS/tlp  
5/12/79

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

CK OPTION

KAMLOOPS M.D., B.C.

CLAIMS	UNITS	RECORD NUMBERS	PRESENT GROUPING	GEOCHEM		GEOPHYSICS		DRILLING		TOTAL
				MAY 9 - SEPT 30/79 NO. SAMPLES	VALUE	JUNE 13 - OCT 2/79 LENGTH	VALUE	JUNE 1 - SEPT 1/79 LENGTH	VALUE	
CK 3	1	127074N	CK 79-5 Supp.	-	-	-	\$ 2,368.00	607.4 m	\$ 39,633.90	\$ 42,001.90
CK 4	1	127075N	CK 79-3 Supp.	-	-	-	-	311.6 m	20,332.44	20,332.44
CK 6	1	127077N	CK 79-3 Supp.	-	-	1,150 m	1,015.05	-	-	1,015.05
CK 7	1	127078N	CK 79-3 Supp.	-	-	1,250 m	1,103.32	-	-	1,103.32
CK 8	1	127079N	CK 79-3 Supp.	-	-	1,800 m	1,588.78	-	-	1,588.78
CK 11	1	127080N	-	-	-	-	-	130.6 m	8,521.88	8,521.88
CK 34	1	127225P	CK 79-3 Supp.	-	-	210 m	185.36	-	-	185.36
CK 39	1	127230P	CK 79-4 Supp.	-	-	440 m	388.37	-	-	388.37
CK 40	1	127231P	CK 79-3 Supp.	-	-	1,170 m	1,032.71	-	-	1,032.71
CK 42	1	127233P	CK 79-4 Supp.	-	-	360 m	317.76	-	-	317.76
CK 45	1	127236P	CK 79-5 Supp.	11	89.23	1,350 m	1,191.58	-	-	1,280.81
CK 46	1	127237P	CK 79-5 Supp.	-	-	1,590 m	1,403.42	-	-	1,403.42
CK 47	1	127238P	CK 79-4 Supp.	3	24.33	-	-	-	-	24.33
CK 48	1	127239P	CK 79-3 Supp.	-	-	-	-	272.1 m	17,754.99	17,754.99
CK 63	1	128600M	CK 79-4 Supp.	-	-	350 m	308.93	-	-	308.93
CK 69	1	128606M	-	-	-	370 m	326.58	-	-	326.58
CK 70	1	128607M	-	-	-	230 m	203.01	-	-	203.01
CK 71	1	128608M	-	-	-	20 m	17.65	-	-	17.65
CK 72	1	128609M	-	-	-	1,490 m	1,315.16	-	-	1,315.16
CK 73	1	128610M	CK 79-4 Supp.	-	-	600 m	529.59	-	-	529.59
CK 75	1	128612M	CK 79-4 Supp.	-	-	1,170 m	1,032.71	-	-	1,032.71
CK 76	1	128613M	-	-	-	110 m	97.09	-	-	97.09
CK 78	1	128671M	-	-	-	240 m	211.84	-	-	211.84
CK 83	8	1031	-	-	-	-	-	42.0 m	2,740.57	2,740.57
CK 84	6	1032	CK 79-4 Supp.	-	-	-	-	1,051.9 m	68,638.29	68,638.29
CK 87	20	1060	CK 79-3 Supp.	12	97.34	160 m	141.22	-	-	238.56
CK 88	15	1361	-	121	981.49	3,080 m	2,718.58	-	-	3,700.07
CK 89	8	1362	-	25	202.79	270 m	238.32	-	-	441.11



CLAIMS	UNITS	RECORD NUMBERS	PRESENT GROUPING	GEOCHEM		GEOPHYSICS		DRILLING		TOTAL
				MAY 9 - SEPT 30/79	NO. SAMPLES	VALUE	JUNE 13 - OCT 2/79	LENGTH	VALUE	
CK 90	20	1363	CK 79-12	-	-	540 m	\$ 476.63	-	-	\$ 476.63
CK 95	16	1511	CK 79-14	298	2,417.22	-	-	-	-	2,417.22
NORTH 1	20	1512	CK 79-8	531	4,306.20	5,780 m	11,774.27	-	-	16,081.47
NORTH 46	1	128302H	CK 79-4 Supp.	-	-	-	-	136.3 m	8,893.81	8,893.81
RAFT 23	1	127286P	CK 79-5 Supp.	-	-	260 m	229.49	-	-	229.49
RAFT 24	1	127287P	CK 79-5 Supp.	14	113.56	1,100 m	970.92	-	-	1,084.48
RAFT 25	1	127288P	CK 79-5 Supp.	-	-	330 m	291.28	-	-	291.28
RAFT 26	1	127289P	CK 79-5 Supp.	-	-	1,550 m	1,368.12	-	-	1,368.12
RAFT 27	1	127290P	CK 79-3 Supp.	-	-	330 m	291.28	-	-	291.28
RAFT 28	1	127291P	CK 79-3 Supp.	-	-	1,510 m	1,332.81	-	-	1,332.81
RAFT 29	1	127292P	CK 79-5 Supp.	18	146.01	-	-	-	-	146.01
RAFT 30	1	127293P	CK 79-5 Supp.	5	40.56	-	-	-	-	40.56
RAFT 31	1	127294P	CK 79-4 Supp.	17	137.90	-	-	-	-	137.90
RAFT 32	1	127295P	CK 79-5 Supp.	5	40.56	-	-	-	-	40.56
RAFT 33	1	127296P	CK 79-4 Supp.	17	137.90	-	-	-	-	137.90
RAFT 34	1	127297P	CK 79-5 Supp.	5	40.56	-	-	-	-	40.56
ULO 1	1	128674M	-	-	-	1,120 m	988.57	-	-	988.57
ULO 2	1	128675M	-	-	-	1,150 m	1,015.05	-	-	1,015.05
ULO 3	1	128676M	-	-	-	1,160 m	1,023.88	-	-	1,023.88
ULO 4	1	128677M	-	-	-	1,800 m	1,588.78	216.5 m	14,127.00	15,715.78
STRAT 1	18	1542	CK 79-12	380	3,082.37	-	-	-	-	3,082.37
STRAT 2	18	1551	-	373	3,025.59	-	-	-	-	3,025.59
STRAT 4	9	1553	CK 79-13	230	1,865.64	-	-	-	-	1,865.64
STRAT 5	15	1554	CK 79-13	304	2,465.89	-	-	-	-	2,465.89
STRAT 7	20	1555	CK 79-11	375	3,041.81	-	-	-	-	3,041.81
STRAT 8	12	1543	CK 79-11	330	2,676.79	-	-	-	-	2,676.79
PARK 1	20	1557	CK 79-7	459	3,723.17	1,800 m	3,867.82	-	-	7,590.99
PARK 2	20	1558	CK 79-10	516	4,185.53	-	-	-	-	4,185.53
PARK 3	5	1559	CK 79-9	107	867.94	-	-	-	-	867.94
PARK 4	20	1560	CK 79-10	329	2,668.68	-	-	-	-	2,668.68
PARK 5	20	1561	CK 79-9	245	1,987.32	-	-	-	-	1,987.32
RAF 1	18	1549	CK 79-14	395	3,204.04	-	-	-	-	3,204.04
RAF 2	15	1550	-	200	1,622.30	-	-	-	-	1,622.30
HIGH 1	20	1702	CK 79-6	476	3,036.88	-	-	-	-	3,036.88
HIGH 2	20	1703	CK 79-6	478	3,877.29	-	-	-	-	3,877.29
HIGH 3	16	1704	CK 79-7	439	2,800.82	-	-	-	-	2,800.82
HIGH 4	16	1705	-	396	3,212.15	-	-	-	-	3,212.15

CLAIMS	UNITS	RECORD NUMBERS	PRESENT GROUPING	GEOCHEM		GEOPHYSICS		DRILLING		TOTAL
				MAY 9 - SEPT 30/79 NO. SAMPLES	VALUE	JUNE 13 - OCT 2/79 LENGTH	VALUE	JUNE 1 - SEPT 1/79 LENGTH	VALUE	
HIGH 5	18	1706	-	354	\$ 2,258.52	-	-	-	-	\$ 2,258.52
HIGH 6	18	1707	-	287	1,999.01	-	-	-	-	1,999.01
HIGH 7	18	1708	-	228	1,849.43	-	-	-	-	1,849.43
HIGH 8	18	1709	CK 79-8	20	162.23	-	-	-	-	162.23
SUBTOTAL				5,634	\$ 43,173.91					
TOTAL				8,003	\$ 62,390.05	35,840 m	\$ 42,953.93	2,768.4 m	\$ 180,642.88	\$285,986.86

*John Doe*

29 October 1979

SSS:hmr

APPENDIX III

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

I, ALAN R. SCOTT, of 4013 West 14th Avenue, in the City of Vancouver, in the Province of British Columbia, do hereby certify that:

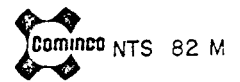
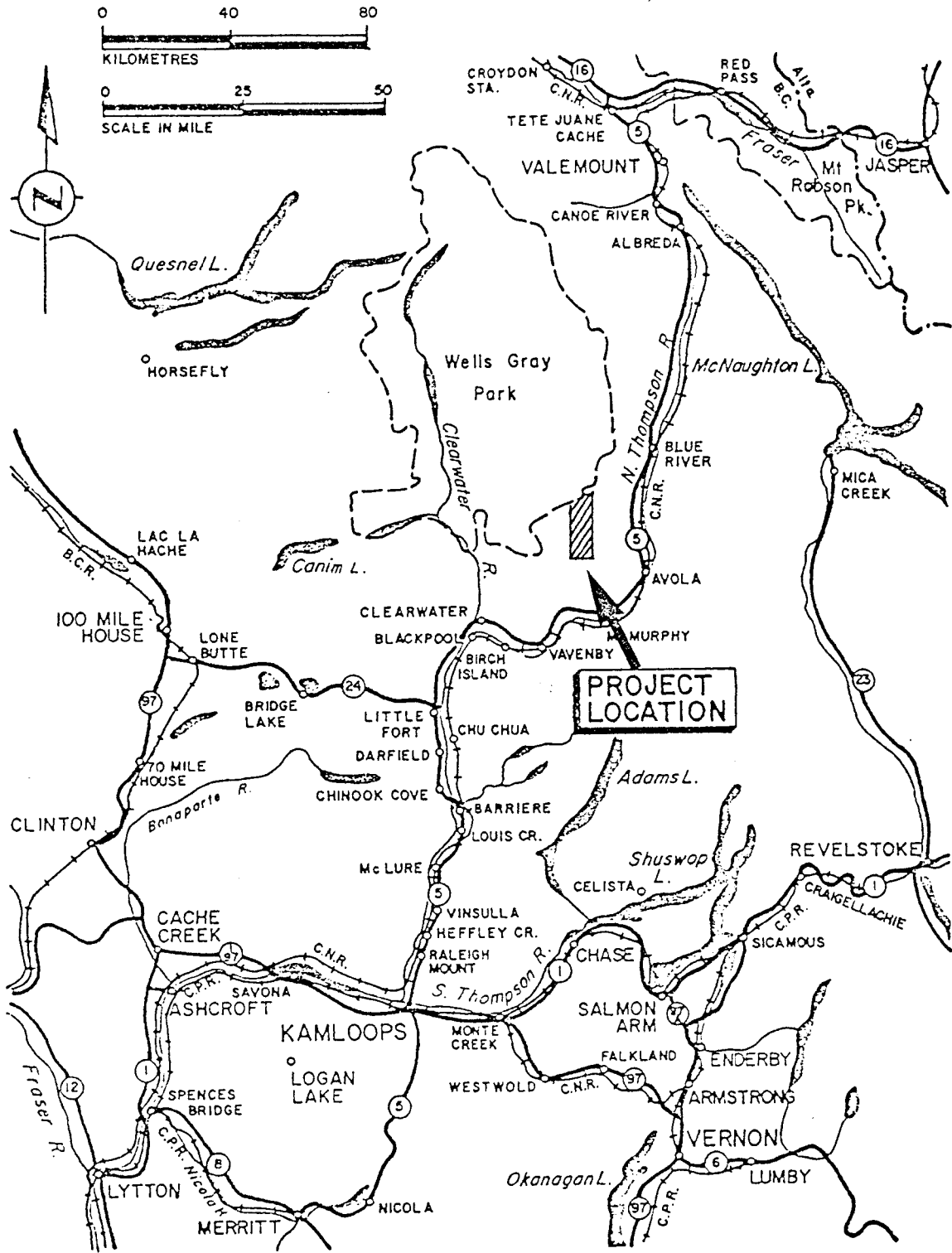
1. I graduated from the University of British Columbia in 1970 with a B.Sc. in Geophysics;
2. I am a member of the Association of Professional Engineers of the Province of Saskatchewan, the Society of Exploration Geophysicists of America, and the British Columbia Geophysical Society;
3. I have been practising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



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ALAN R. SCOTT

ARS/tlp  
5/12/79

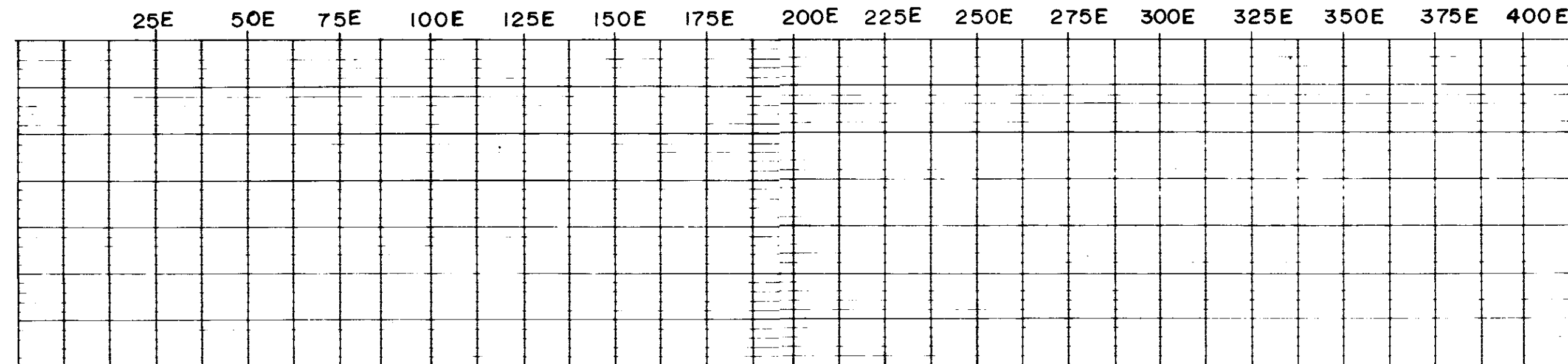
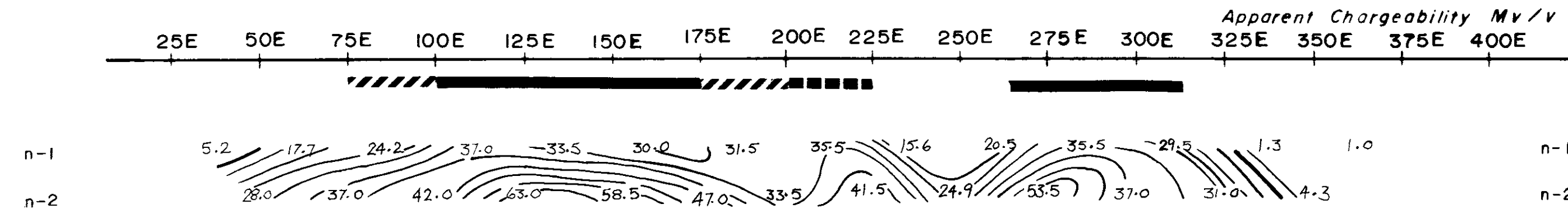
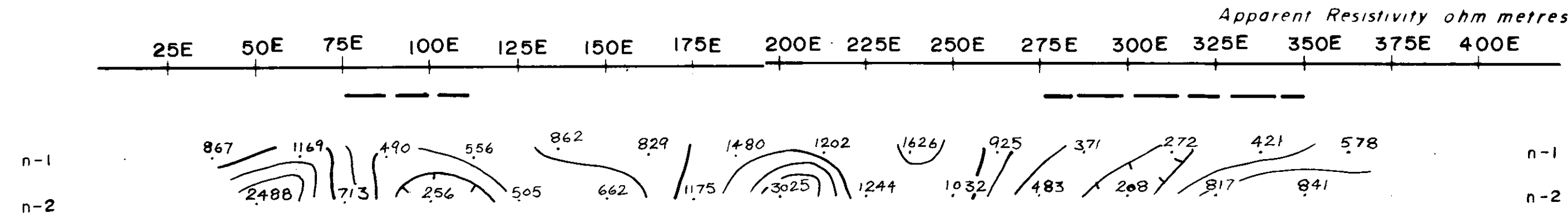


Drawn by: MRM		Traced by:	
Revised by	Date	Revised by	Date

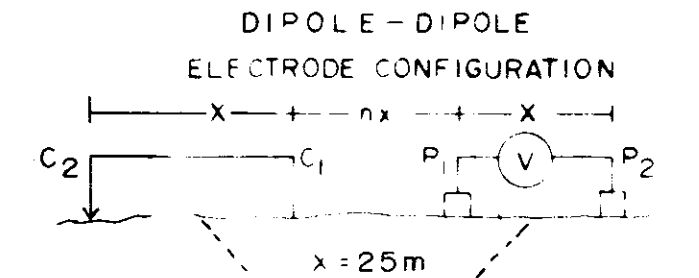
# CK PROPERTY LOCATION MAP

Scale: 1" = 30 miles      Date: November 29, 1979      Plate: 157-79-1

# COMINCO LTD. C.K. PROPERTY DETAIL - MAIN BOULDER AREA KAMLOOPS M.D., B.C.



LINE NO. 3+00N



CURRENT DIPOLE WEST OF POTENTIAL DIPOLE

**CHARGEABILITY (IP) INTERPRETATION**

STRONG CHARGEABILITY HIGH

MODERATE CHARGEABILITY HIGH

WEAK CHARGEABILITY HIGH

**APPARENT RESISTIVITY INTERPRETATION**

APPARENT RESISTIVITY LOW

DATE SURVEYED MAY 22, 1979

CONTOUR INTERVALS:

APP RES 1,1.5,2,3,5,7.5,10

APP CHARG - 5.0Mv/v

APPROVED

TRANSMITTER - HUNTEC MK IV LOPC

RECEIVER - SCINTREX IPR-8

MINERAL RESOURCES BRANCH  
DATE  
REPORT

**7644**  
**PT. 183**

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

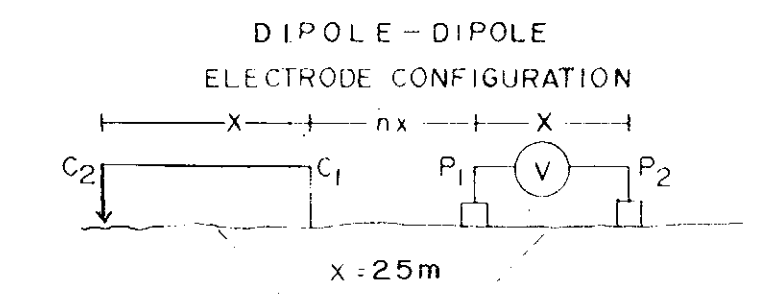
LINE 3+00N





# COMINCO LTD. C.K. PROPERTY DETAIL-MAIN BOULDER AREA KAMLOOPS M.D., B.C.

LINE NO. 3+50N



PLOTTING POINT  
n = 1, 2, 3

CURRENT DIPOLE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IPI) INTERPRETATION:**
- STRONG CHARGEABILITY HIGH
  - MODERATE CHARGEABILITY HIGH
  - WEAK CHARGEABILITY HIGH
- APPARENT RESISTIVITY INTERPRETATION:**
- APPARENT RESISTIVITY LOW

DATE SURVEYED MAY 21, 1979

CONTOUR INTERVALS:

APP RES -- 1,1.5,2,3,5,7.5,10  
APP CHARG -- 50mV/V

TRANSMITTER -- HUNTEC MK IV LOPO  
RECEIVER -- SCINTREX IPR 8

APPROVED

MINERAL RESOURCES BRANCH  
DATA RESPONSIBILITY REPORT

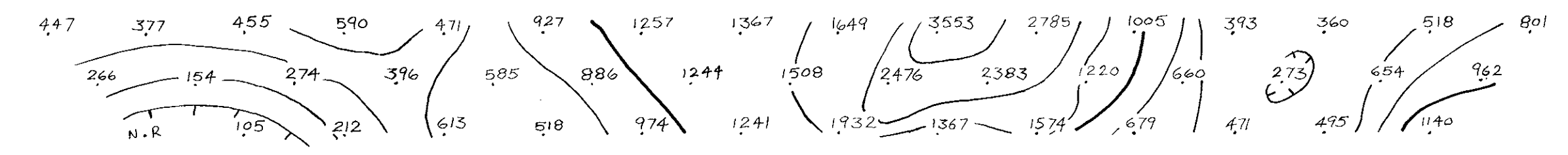
**7644**

**PT. 183**

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

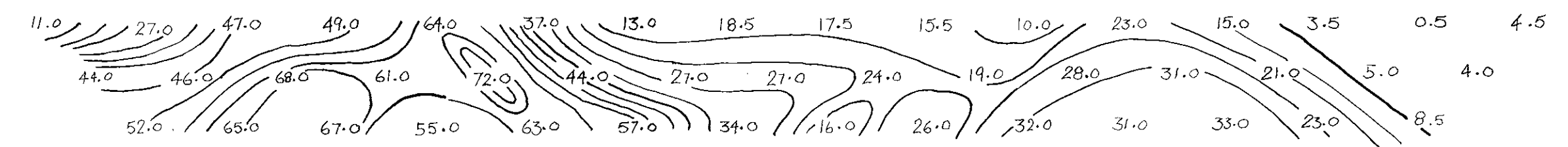
Apparent Resistivity ohm metres

125W 100W 75W 50W 25W BL 25E 50E 75E 100E 125E 150E 175E 200E 225E 275E 300E 325E 350E 375E 400E 425E 450E

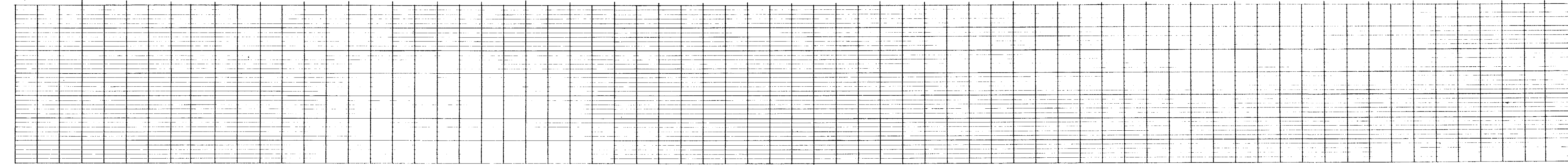


Apparent Chargeability Mv/V

125W 100W 75W 50W 25W BL 25E 50E 75E 100E 125E 150E 175E 200E 225E 275E 300E 325E 350E 375E 400E 425E 450E



125W 100W 75W 50W 25W BL 25E 50E 75E 100E 125E 150E 175E 200E 225E 275E 300E 325E 350E 375E 400E 425E 450E



LINE 3+50N

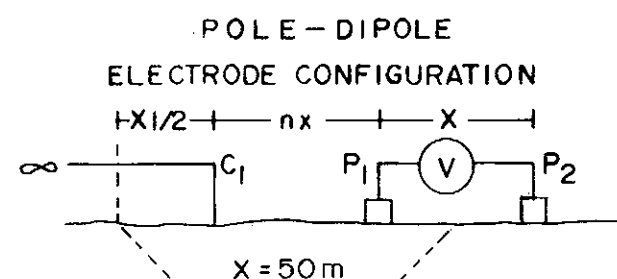






# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 6 + 00N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

■ STRONG CHARGEABILITY HIGH  
 ▨ MODERATE CHARGEABILITY HIGH  
 ▩ WEAK CHARGEABILITY HIGH

APPARENT RESISTIVITY INTERPRETATION

— APPARENT RESISTIVITY LOW

DATE SURVEYED: JUNE 17, 1979

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0 mV/V

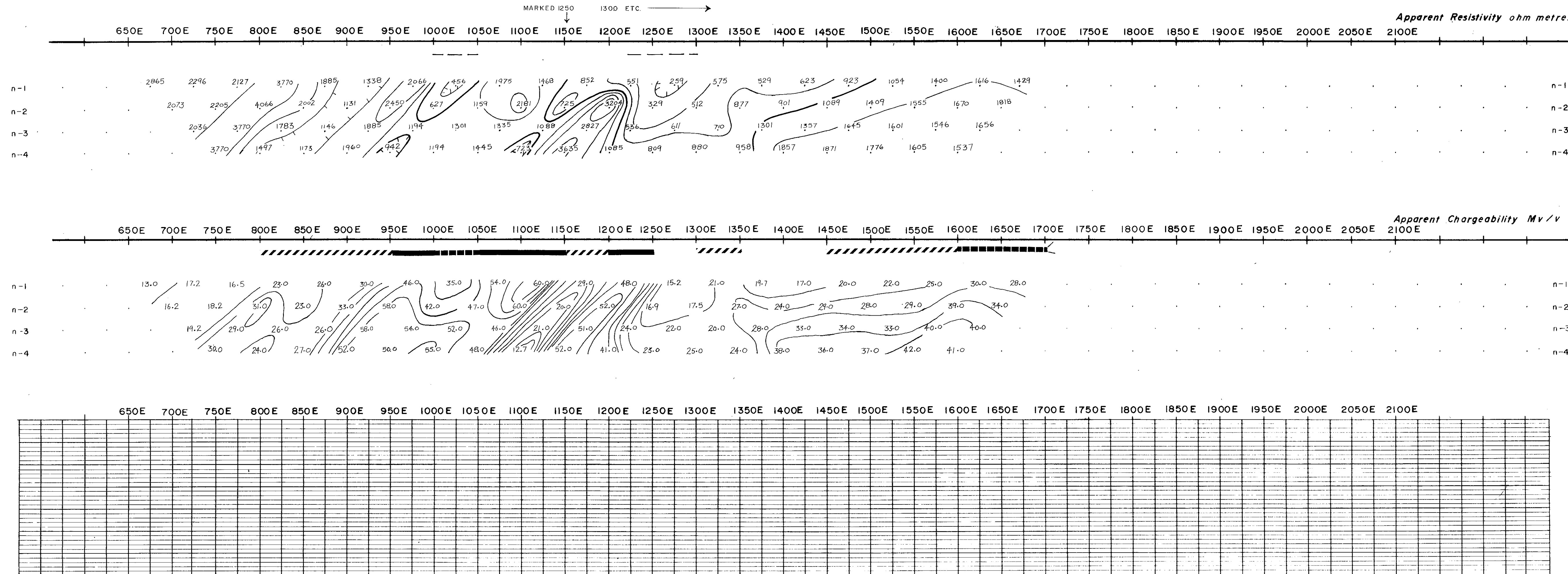
APPROVED: *GA*

TRANSMITTER — HUNTEC 7.5 Kw  
RECEIVER — IPR 8

MINERAL RESOURCES BRANCH  
DATE

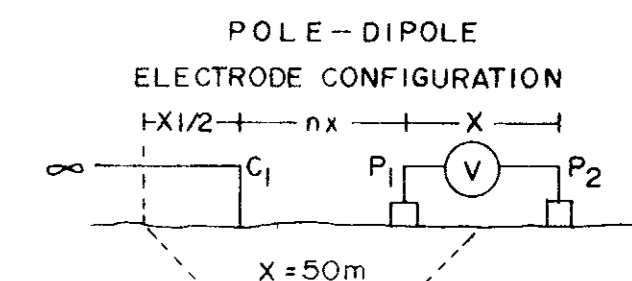
7644  
N. PT. 1823

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



# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 7+00N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
 CHARGEABILITY (IP) INTERPRETATION  
 ■ STRONG CHARGEABILITY HIGH  
 ■ MODERATE CHARGEABILITY HIGH  
 ■ WEAK CHARGEABILITY HIGH  
 APPARENT RESISTIVITY INTERPRETATION  
 — APPARENT RESISTIVITY LOW

DATE SURVEYED JUL 7, 1979

CONTOUR INTERVALS:  
 APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
 APP. CHARG. — 5.0 CM/VV

APPROVED *AS*

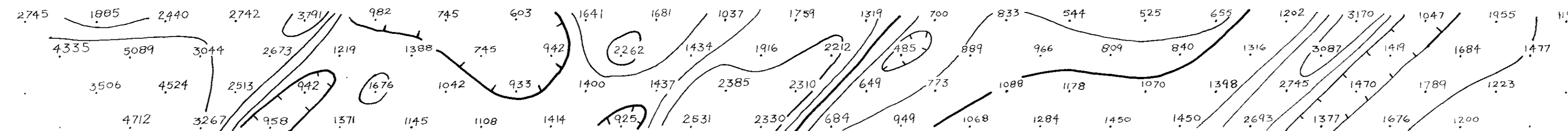
TRANSMITTER — HUNTEC 7.5 KW  
 RECEIVER — IPR 8

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**7644**  
 NO.  
**PT. 1873**

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

200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E

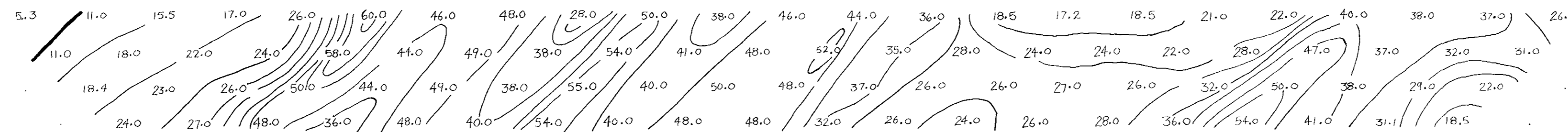
Apparent Resistivity ohm metres



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

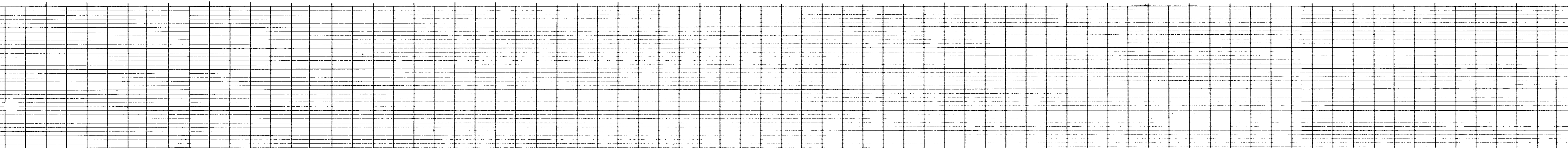
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Apparent Chargeability Mv/v



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

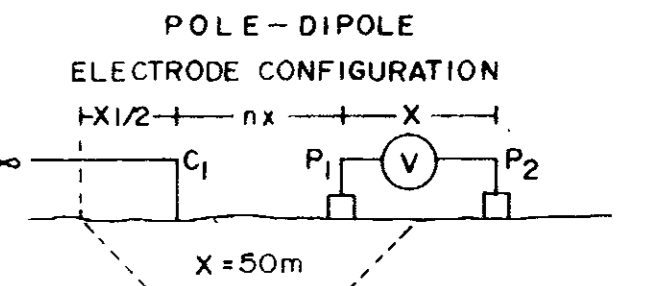
200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E



LINE 7+00N

# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 8+00N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH
- ▨ MODERATE CHARGEABILITY HIGH
- ▧ WEAK CHARGEABILITY HIGH
- ▩ APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 18, 1979

CONTOUR INTERVALS :  
APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0M/V

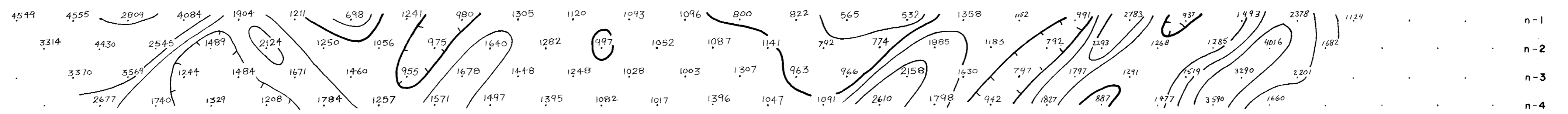
APPROVED CA

TRANSMITTER — HUNTEC 7.5 Kw  
RECEIVER — IPR 8

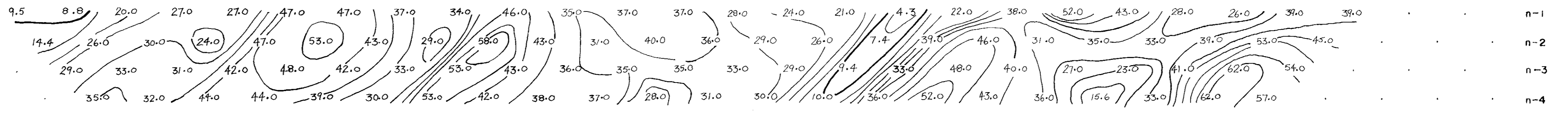
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**7644**  
**PT. 183**

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

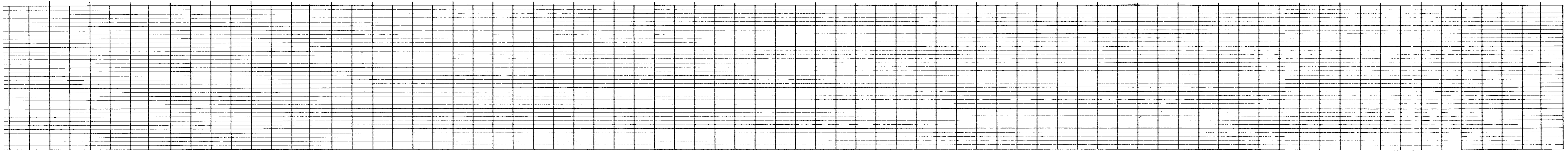
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200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E



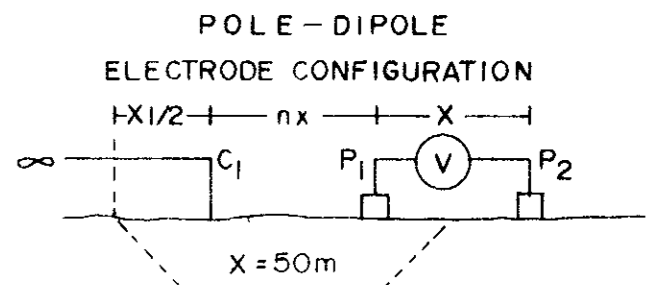
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# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 9 + 0 ON



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

■ STRONG CHARGEABILITY HIGH

▨ MODERATE CHARGEABILITY HIGH

▧ WEAK CHARGEABILITY HIGH

APPARENT RESISTIVITY INTERPRETATION

— APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 18, 1979

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10

APP. CHARG. — 5.0 mV/V

APPROVED

MINERAL RESOURCES BRANCH

DATE

7644

NO.

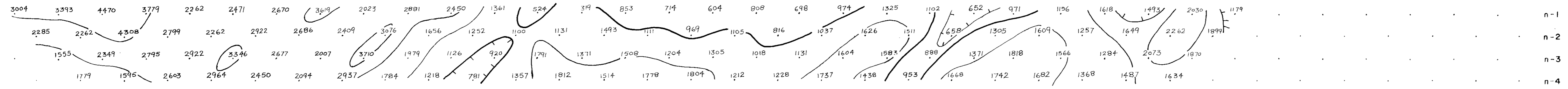
TRANSMITTER — HUNTEC 7.5 KW

RECEIVER — IPR 8

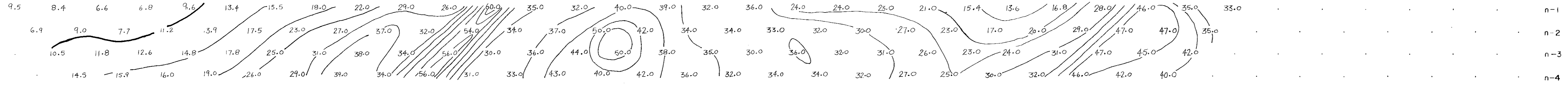
INDUCED POLARIZATION AND RESISTIVITY SURVEY

SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

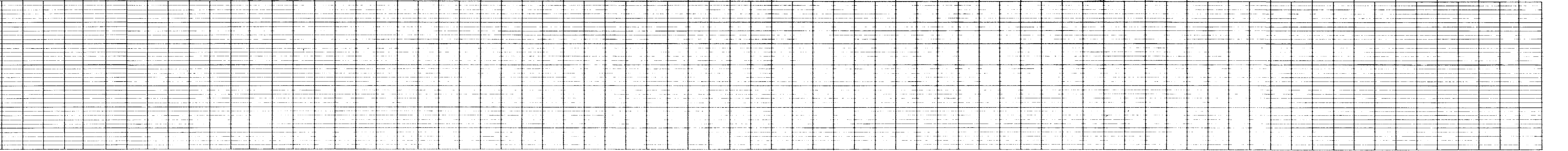
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200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E



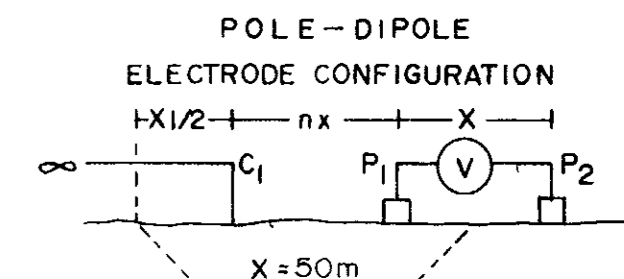
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LINE 9 + 0 ON

# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 10 + 00N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
 CHARGEABILITY (IP) INTERPRETATION  
 ■ STRONG CHARGEABILITY HIGH  
 ▒ MODERATE CHARGEABILITY HIGH  
 ▨ WEAK CHARGEABILITY HIGH  
 — APPARENT RESISTIVITY INTERPRETATION  
 — — APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 19, 1979

CONTOUR INTERVALS :  
 APP. RES. — 1,1.5,2,3,5,7.5,10  
 APP. CHARG. — 5.0mV/V

APPROVED [Signature]

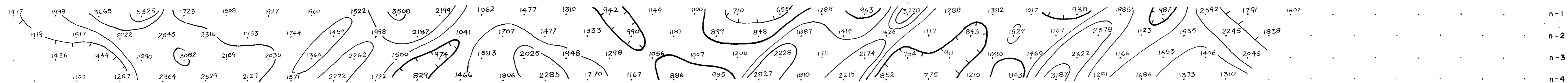
TRANSMITTER — HUNTEC 7.5 KW  
 RECEIVER — IPR 8

MINERAL RESOURCES BRANCH  
 DATE 1979  
7644  
PT. 1003.

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

200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E

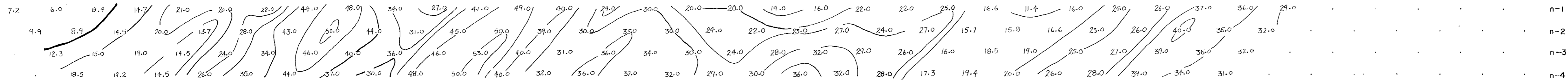
Apparent Resistivity ohm metres



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

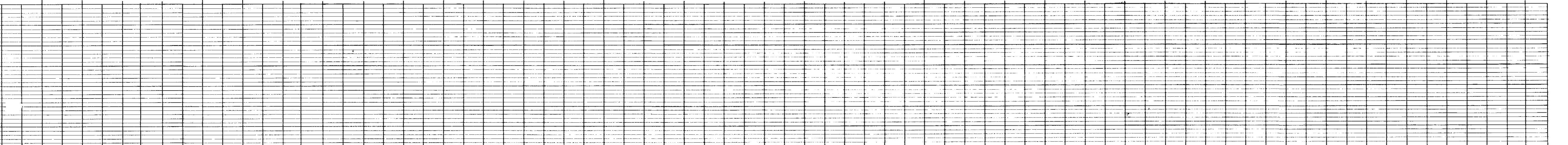
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Apparent Chargeability Mv/V



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

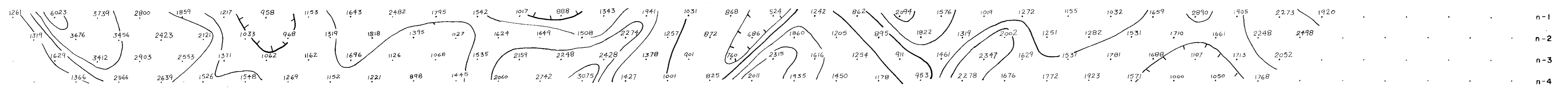
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LINE 10 + 00N

200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E

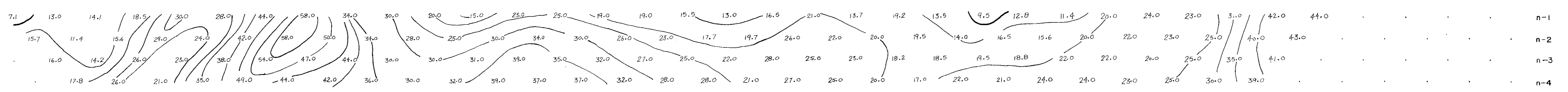
Apparent Resistivity ohm metres



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

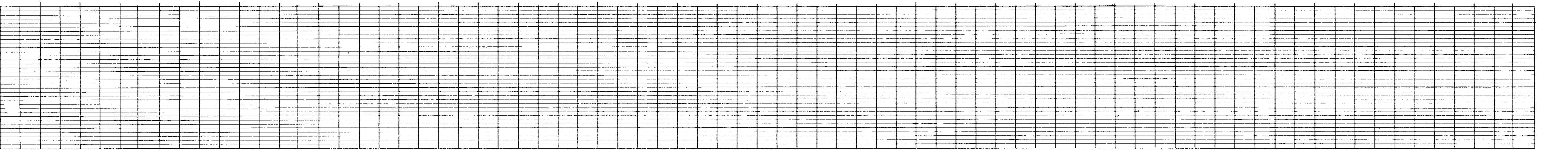
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Apparent Chargeability Mv/v



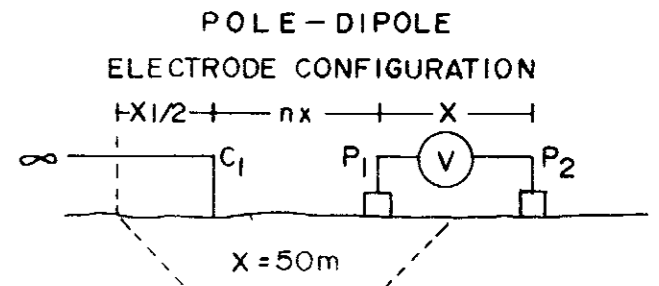
n-1  
n-2  
n-3  
n-4

200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E



**COMINCO LTD.**  
**C.K. PROPERTY**  
**MIST GRID**  
**KAMLOOPS M.D., B.C.**

LINE NO. 11 + 00N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
 CHARGEABILITY (IP) INTERPRETATION  
 ■ STRONG CHARGEABILITY HIGH  
 ▨ MODERATE CHARGEABILITY HIGH  
 ▩ WEAK CHARGEABILITY HIGH  
 — APPARENT RESISTIVITY INTERPRETATION  
 — APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 20, 1979

CONTOUR INTERVALS :  
 APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
 APP. CHARG. — 5.0 Mv/v

APPROVED *[Signature]*

TRANSMITTER — HUNTEC 7.5 KW  
 RECEIVER — IPR 8

MINERAL RESOURCES BRANCH  
 DATE  
 7644  
 NO.  
 PT. 1873

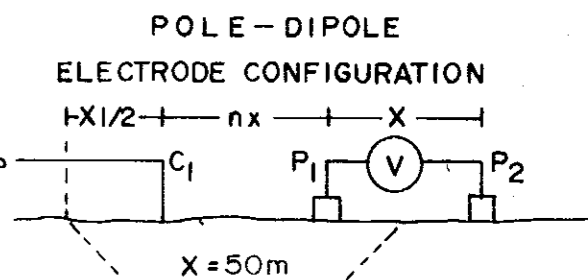
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
 SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 11 + 00N



# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 12+00N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
CHARGEABILITY (IP) INTERPRETATION

- ██████████ STRONG CHARGEABILITY HIGH
- ▨▨▨▨▨▨▨ MODERATE CHARGEABILITY HIGH
- ▤▤▤▤▤▤▤ WEAK CHARGEABILITY HIGH

APPARENT RESISTIVITY INTERPRETATION

- — — — — APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 21, 1979

CONTOUR INTERVALS:  
APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0mV/V

APPROVED *[Signature]*

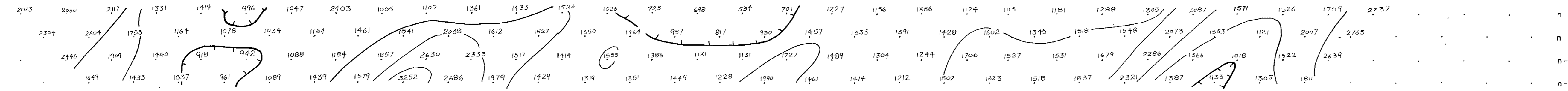
TRANSMITTER — HUNTEC 7.5 KW  
RECEIVER — IPR 8

MINERAL RESOURCES BRANCH  
DATE  
**7644**  
PT. 1083

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

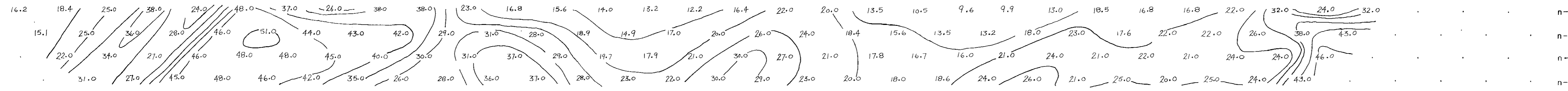
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Apparent Resistivity ohm metres

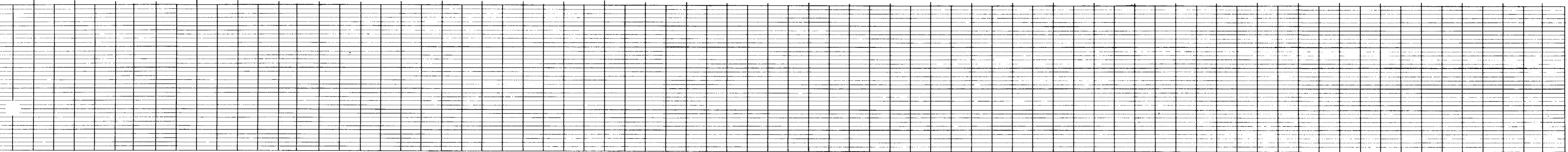


200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E

Apparent Chargeability Mv/v



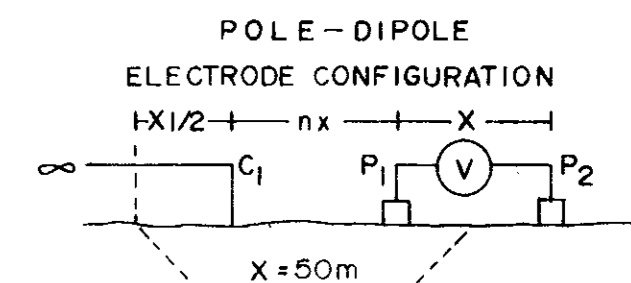
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LINE 12+00N

# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 13 ± 0.0N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH
- ▨ MODERATE CHARGEABILITY HIGH
- ▧ WEAK CHARGEABILITY HIGH
- ▬ APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 22, 1979

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0Mv/V

APPROVED [Signature]

TRANSMITTER — HUNTEC 7.5 Kw

RECEIVER — IPR 8

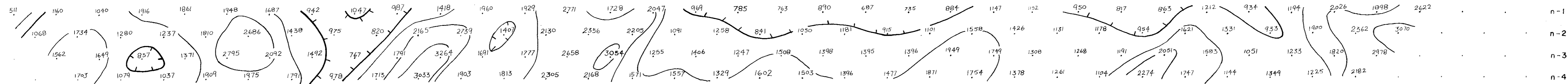
MINERAL RESOURCES BRANCH  
DATE  
ASSESSMENT REPORT  
**7644**  
NO.

**PT. 183**

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

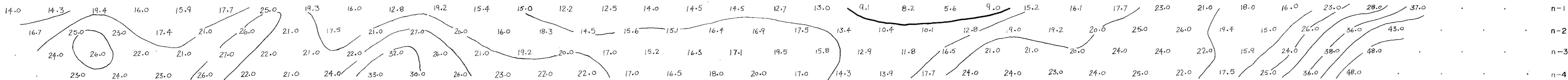
200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E

Apparent Resistivity ohm metres

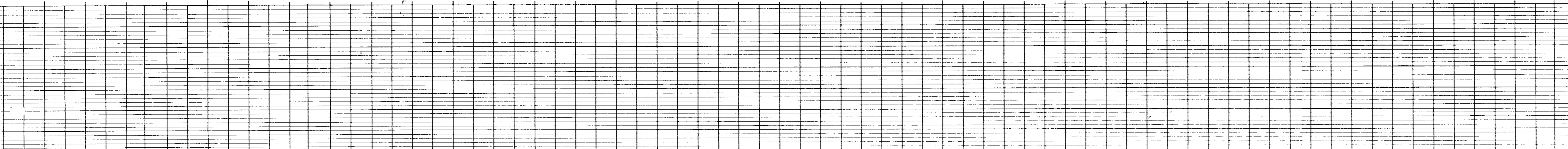


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Apparent Chargeability Mv/v



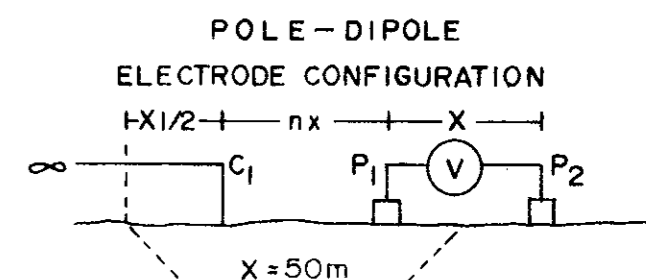
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LINE 13 ± 0.0N

# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 14 + 00N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
CHARGEABILITY (IP) INTERPRETATION

- ██████████ STRONG CHARGEABILITY HIGH
- ▨▨▨▨▨▨▨▨ MODERATE CHARGEABILITY HIGH
- ▤▤▤▤▤▤▤▤ WEAK CHARGEABILITY HIGH

APPARENT RESISTIVITY INTERPRETATION  
— — — — — APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 24, 1979

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0mV/V

APPROVED *[Signature]*

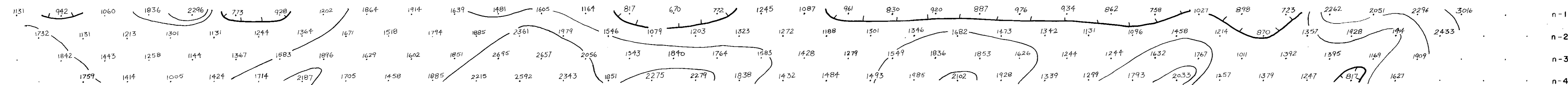
MINERAL RESOURCES BRANCH  
DATE  
ASSESSMENT REPORT  
**7644**  
N.

TRANSMITTER — HUNTEC 7.5 KW  
RECEIVER — IPR 8

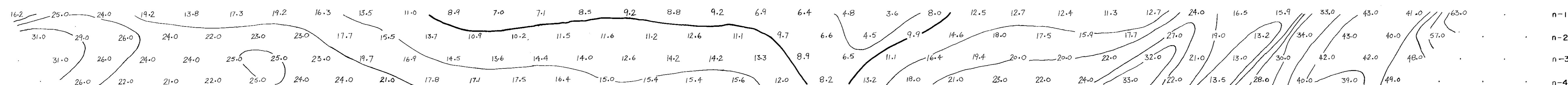
**PT. 183**

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

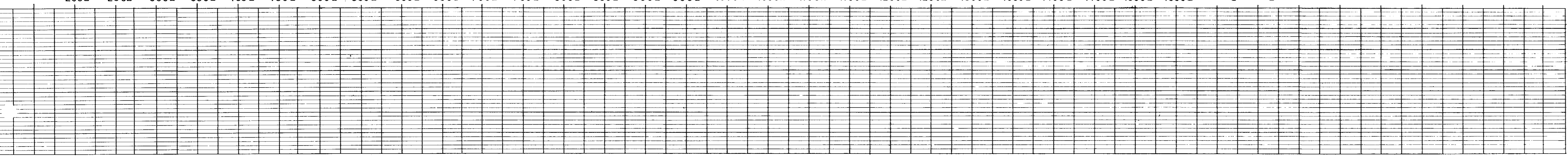
200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E



200E 250E 300E 350E 400E 450E 500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E



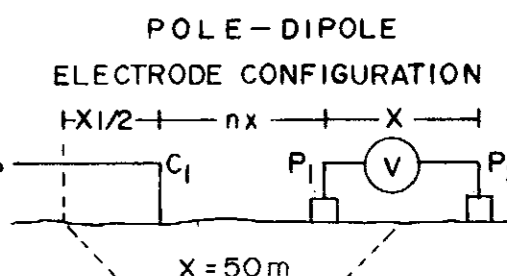
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LINE 14+00N

# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 15 + 00N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
**CHARGEABILITY (IP) INTERPRETATION**  
 ■■■■■ STRONG CHARGEABILITY HIGH  
 ■■■■■ MODERATE CHARGEABILITY HIGH  
 ■■■■■ WEAK CHARGEABILITY HIGH  
**APPARENT RESISTIVITY INTERPRETATION**  
 ——— APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 25, 1979

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0 MV/V

APPROVED *[Signature]*

MINERAL RESOURCES BRANCH  
DATE

**7644**  
NO.

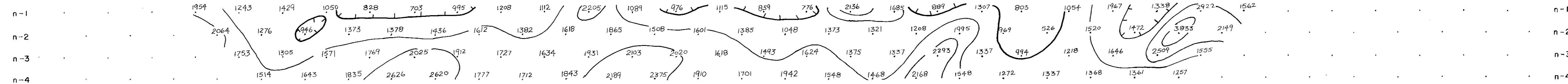
**PT. 103**

TRANSMITTER — HUNTEC 7.5 KW  
RECEIVER — IPR 8

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

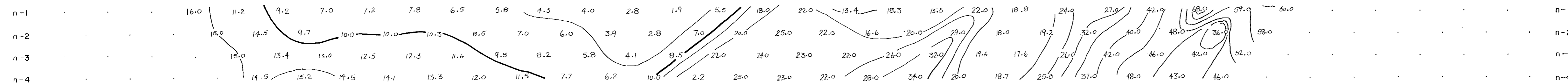
Apparent Resistivity ohm metres

700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E

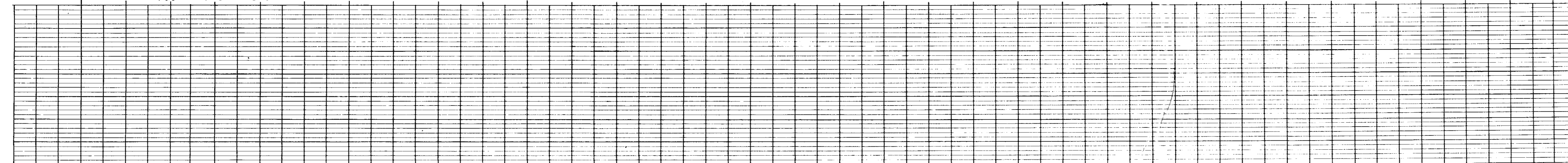


Apparent Chargeability Mv/v

700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E



700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E

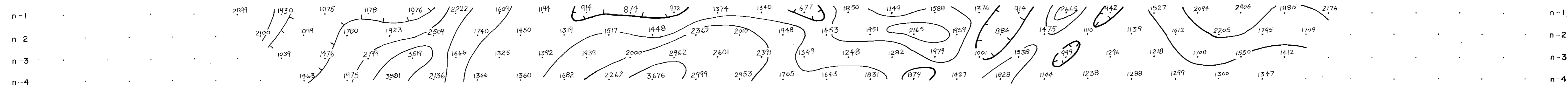


LINE 15 + 00N

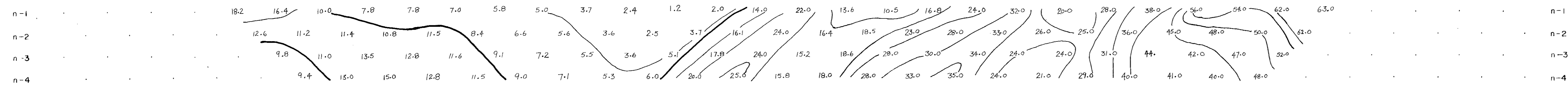


# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

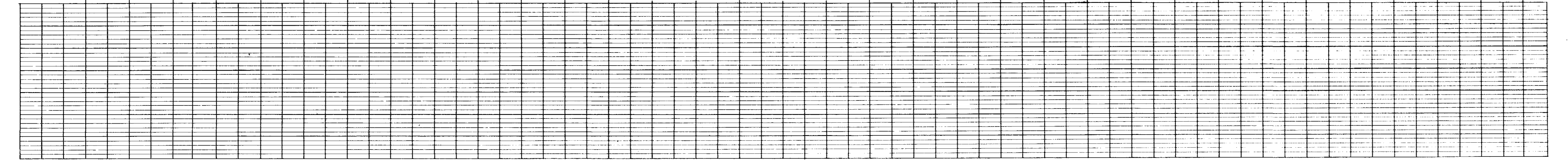
750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E



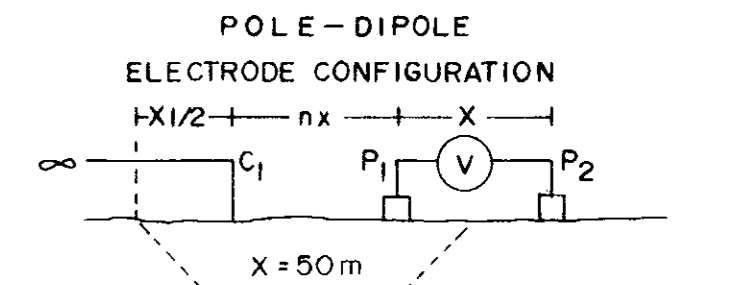
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750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E



LINE NO. 16+00N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
CHARGEABILITY (IP) INTERPRETATION

STRONG CHARGEABILITY HIGH  
MODERATE CHARGEABILITY HIGH  
WEAK CHARGEABILITY HIGH

APPARENT RESISTIVITY INTERPRETATION

APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 25, 1979

CONTOUR INTERVALS:  
APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0 Mv/V

APPROVED *[Signature]*

TRANSMITTER — HUNTEC 7.5 KW  
RECEIVER — IPR 8

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**7644**  
N. **PT. 183**

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

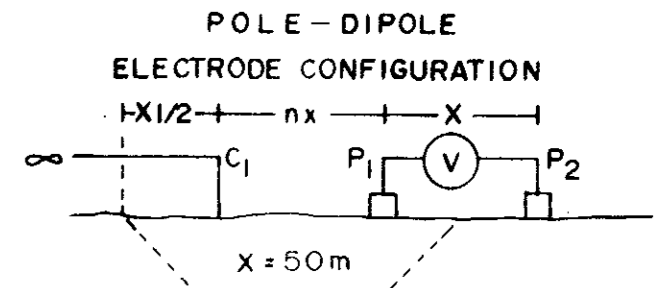
LINE 16+00N





# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 19+00N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE  
 CHARGEABILITY (IP) INTERPRETATION  
 ■ STRONG CHARGEABILITY HIGH  
 ▨ MODERATE CHARGEABILITY HIGH  
 ▧ WEAK CHARGEABILITY HIGH  
 APPARENT RESISTIVITY INTERPRETATION  
 — APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 27, 1979

CONTOUR INTERVALS:  
 APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
 APP. CHARG. — 5.0 MV/V

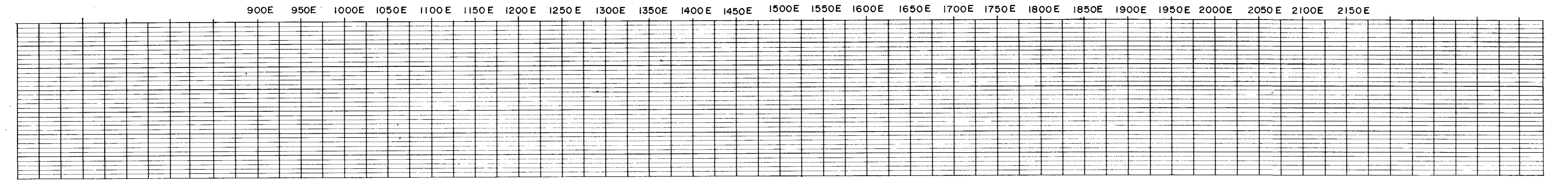
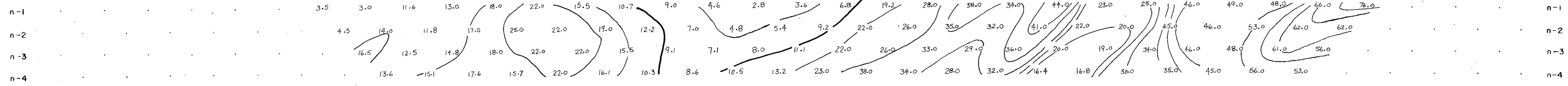
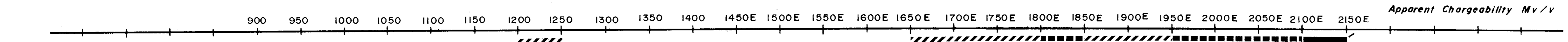
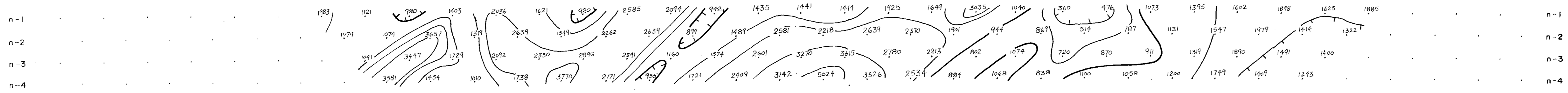
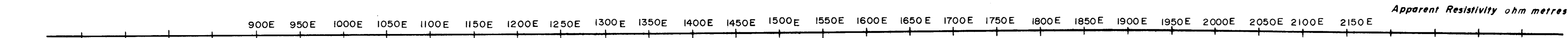
APPROVED *RA*

TRANSMITTER — HUNTEC 7.5 Kw  
 RECEIVER — IPR 8

MINERAL RESOURCES BRANCH  
 DATE  
 ASSESSMENT REPORT  
**7644**  
 NO.

**PT. 1073**

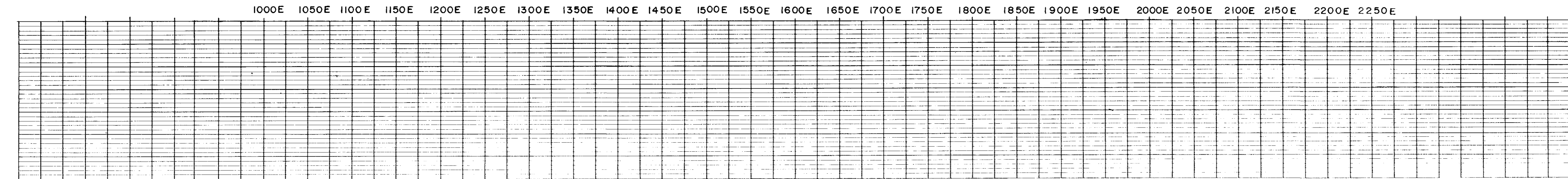
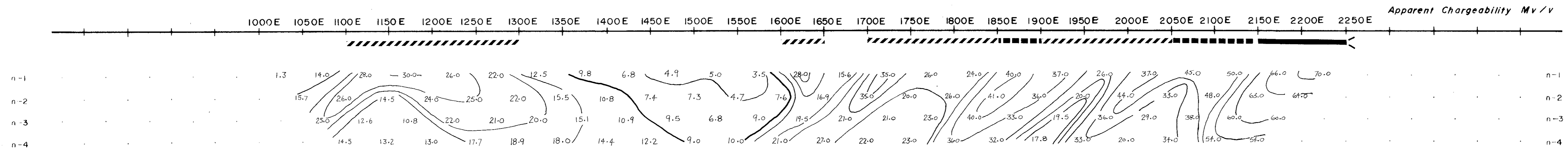
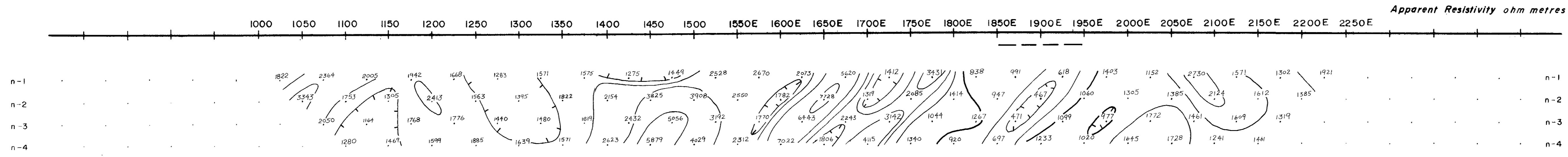
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
 SURVEYED BY COMINCO LTD., EXPLORATION DIVISION



LINE 19+00N

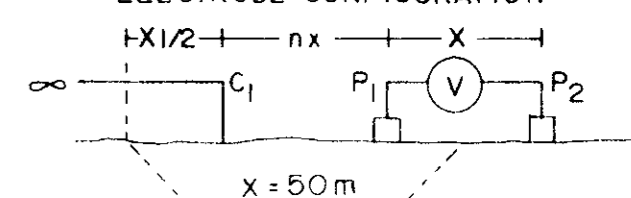


# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.



LINE NO. 20+00N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n=1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY INTERPRETATION
- STRONG CHARGEABILITY HIGH
- MODERATE CHARGEABILITY HIGH
- WEAK CHARGEABILITY HIGH
- APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY LOW

DATE SURVEYED: JUNE 27, 1979

CONTOUR INTERVALS :  
APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0 Mv/V

APPROVED *CA*

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

**7644**  
N

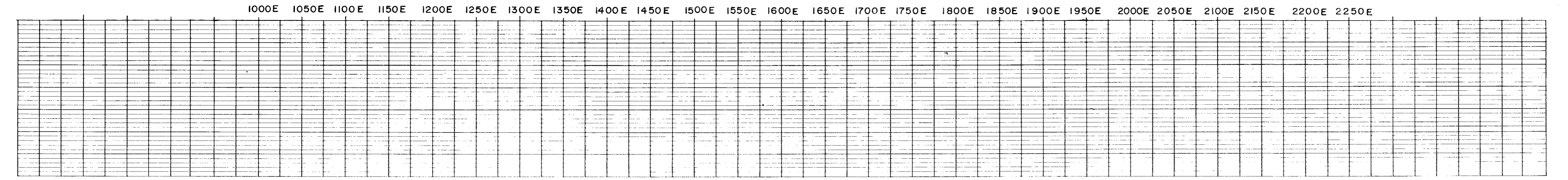
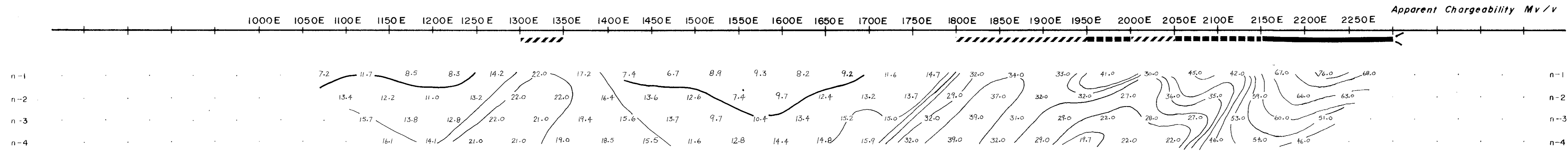
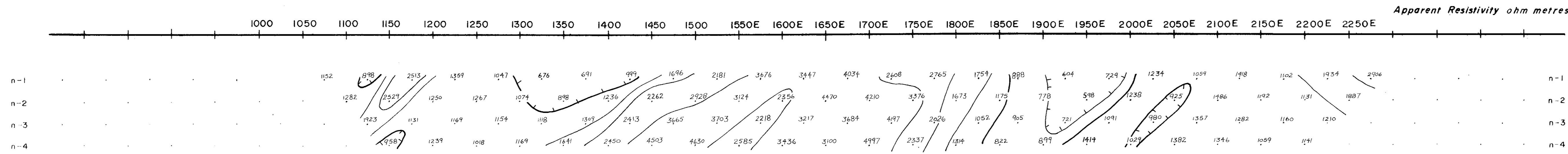
**PT. 103**

TRANSMITTER — HUNTEC 7.5 Kw  
RECEIVER — IPR 8

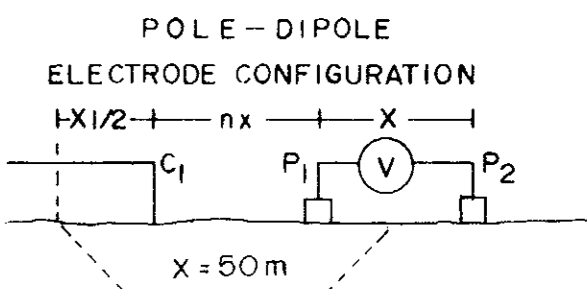
INDUCED POLARIZATION AND RESISTIVITY SURVEY  
SURVEYED BY COMINCO LTD., EXPLORATION DIVISION

LINE 20+00N

# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.



LINE NO. 21+00N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION
- STRONG CHARGEABILITY HIGH
  - ▨ MODERATE CHARGEABILITY HIGH
  - ▧ WEAK CHARGEABILITY HIGH
- APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 28, 1979

CONTOUR INTERVALS:  
 APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
 APP. CHARG. — 5.0 Mv/v

APPROVED *[Signature]*

MINERAL RESOURCES BRANCH  
 DATE ASSESSMENT REPORT

**7644**  
**PT. 183**

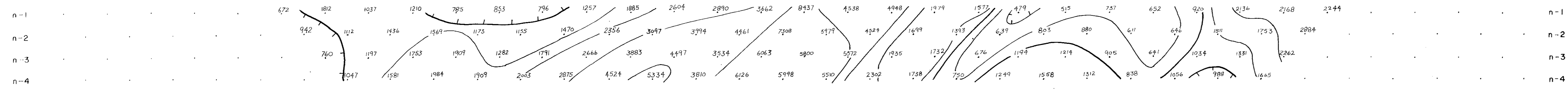
TRANSMITTER — HUNTEC 7.5 KW.  
 RECEIVER — IPR 8

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

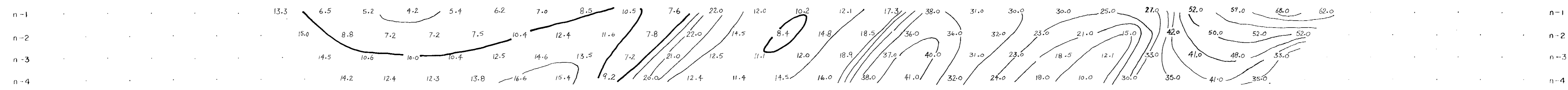
LINE 21+00N

# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

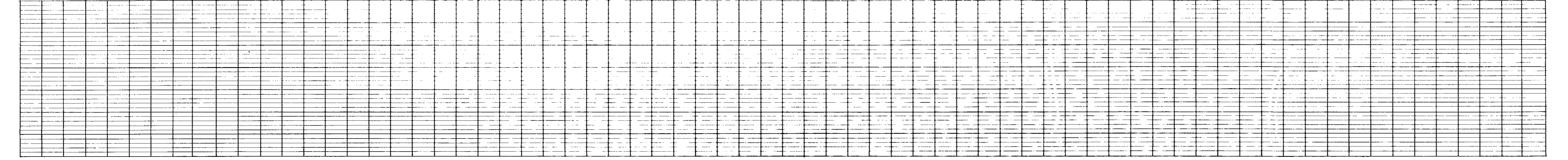
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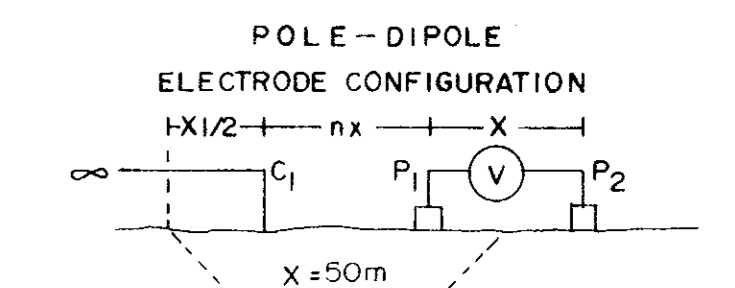
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1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E



LINE NO. 22+0.0N



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

CHARGEABILITY (IP) INTERPRETATION:  
 [Solid black] STRONG CHARGEABILITY HIGH  
 [Hatched] MODERATE CHARGEABILITY HIGH  
 [Dotted] WEAK CHARGEABILITY HIGH  
 APPARENT RESISTIVITY INTERPRETATION:  
 [Dashed line] APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 28, 1979

CONTOUR INTERVALS:  
APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0 Mv/V

APPROVED *[Signature]*

TRANSMITTER — HUNTEC 7.5 Kw  
RECEIVER — IPR 8

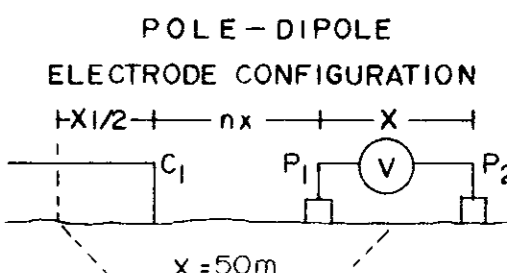
MINERAL RESOURCES BRANCH  
DATE  
ASSESSMENT REPORT  
**7644**  
NO  
**PT. 183**

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

LINE 22+0.0N

# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 23+0.0N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

**CHARGEABILITY (IP) INTERPRETATION**  
 ■ STRONG CHARGEABILITY HIGH  
 ▨ MODERATE CHARGEABILITY HIGH  
 ▧ WEAK CHARGEABILITY HIGH  
**APPARENT RESISTIVITY INTERPRETATION**  
 - - - - - APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 29, 1979

CONTOUR INTERVALS:

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0 Mv/V

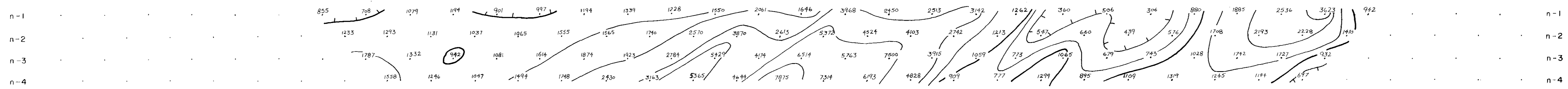
APPROVED *CA*

TRANSMITTER — HUNTEC 7.5 Kw  
RECEIVER — IPR 8

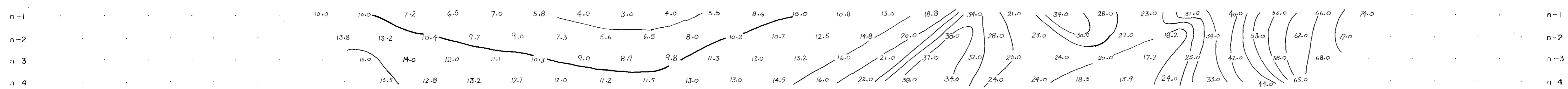
MINERAL RESOURCES BRANCH  
 DATA REPORT  
 NO. **7644**  
 PT. 183

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

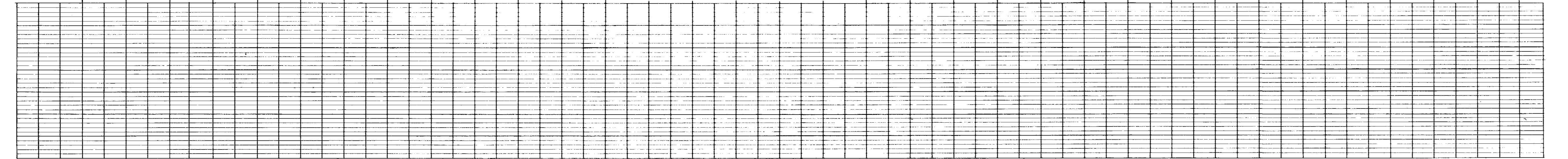
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1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E



1100E 1150E 1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E

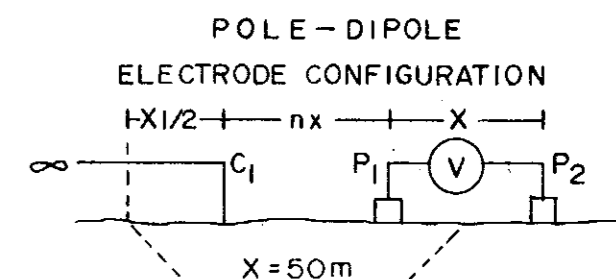


LINE 23+0.0N



# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 24+00N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

**CHARGEABILITY (IP) INTERPRETATION**  
 [Solid black bar] STRONG CHARGEABILITY HIGH  
 [Dotted bar] MODERATE CHARGEABILITY HIGH  
 [Horizontal line bar] WEAK CHARGEABILITY HIGH  
**APPARENT RESISTIVITY INTERPRETATION**  
 [Thick solid bar] APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 29, 1979

CONTOUR INTERVALS:  
 APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
 APP. CHARG. — 5.0 Mv/V

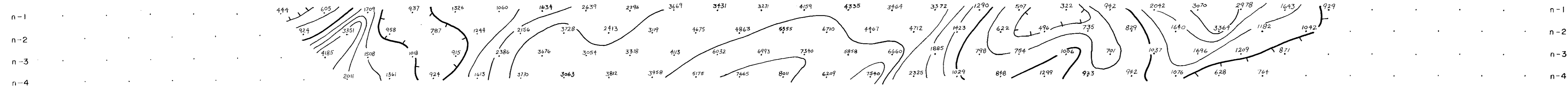
APPROVED *[Signature]*

TRANSMITTER — HUNTEC 7.5 Kw  
 RECEIVER — IPR 8

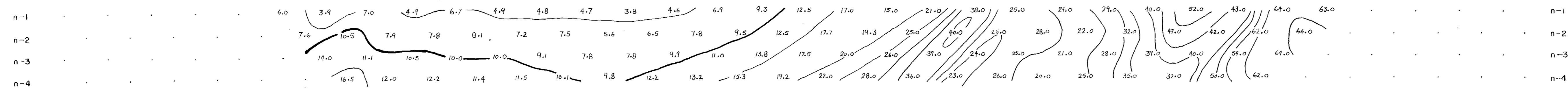
DATE \_\_\_\_\_  
 MINERAL RESOURCES BRANCH  
 7644  
 PT. 183

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

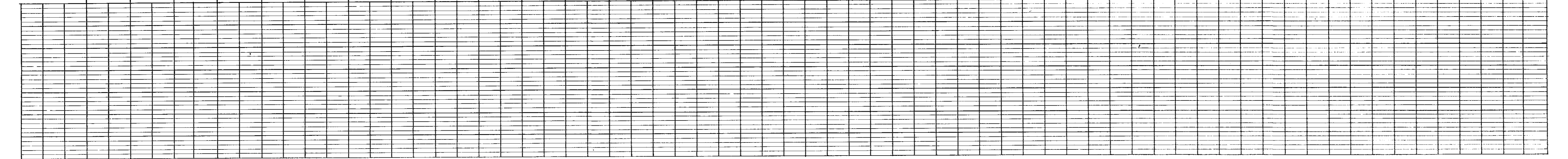
1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E 2450E



1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E 2450E



1200E 1250E 1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E 2450E



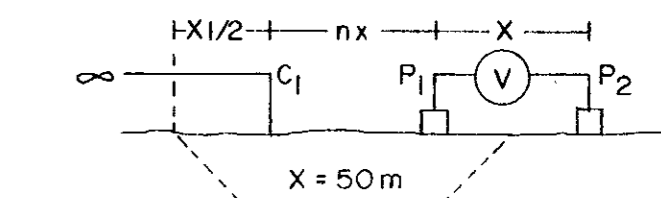
LINE 24+00N



# COMINCO LTD. C.K. PROPERTY MIST GRID KAMLOOPS M.D., B.C.

LINE NO. 26+00N

POLE-DIPOLE  
ELECTRODE CONFIGURATION



X = 50 m

PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION**
- STRONG CHARGEABILITY HIGH
  - ▨ MODERATE CHARGEABILITY HIGH
  - ▧ WEAK CHARGEABILITY HIGH
- APPARENT RESISTIVITY INTERPRETATION**
- APPARENT RESISTIVITY LOW

DATE SURVEYED JULY 1, 1979

CONTOUR INTERVALS:  
APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0 MV/V

APPROVED *[Signature]*

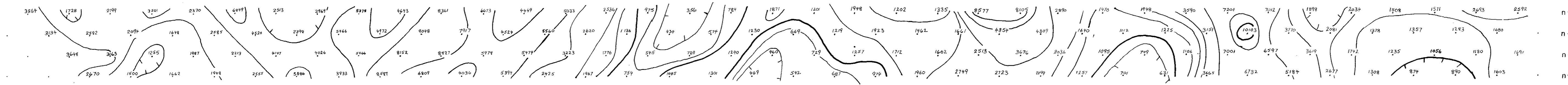
MINERAL RESOURCES BRANCH  
DATE ASSESSMENT REPORT  
**7644**  
NO.

TRANSMITTER — HUNTEC 7.5 KW  
RECEIVER — IPR 8

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

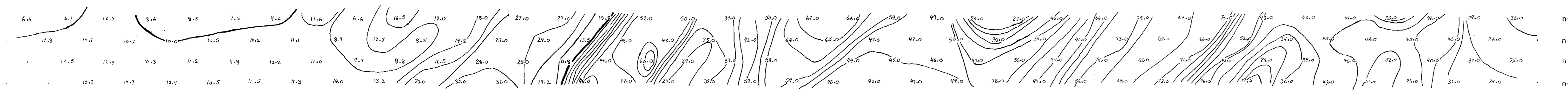
1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E 2450E 2500E 2550E 2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E

Apparent Resistivity ohm metres

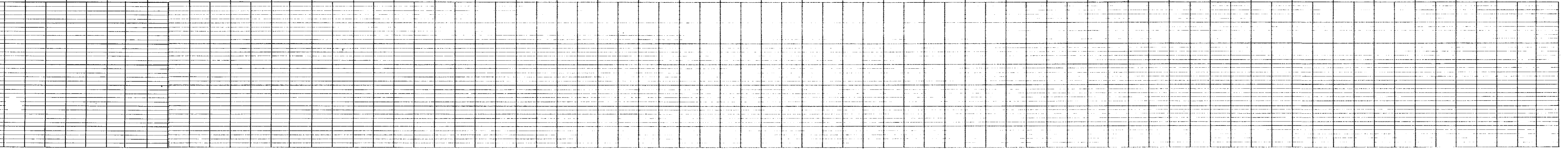


Apparent Chargeability Mv/v

1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E 2450E 2500E 2550E 2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E



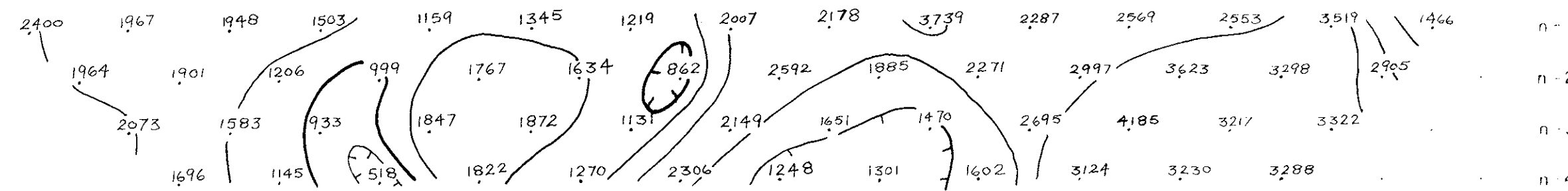
1300E 1350E 1400E 1450E 1500E 1550E 1600E 1650E 1700E 1750E 1800E 1850E 1900E 1950E 2000E 2050E 2100E 2150E 2200E 2250E 2300E 2350E 2400E 2450E 2500E 2550E 2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E



LINE 26+00N

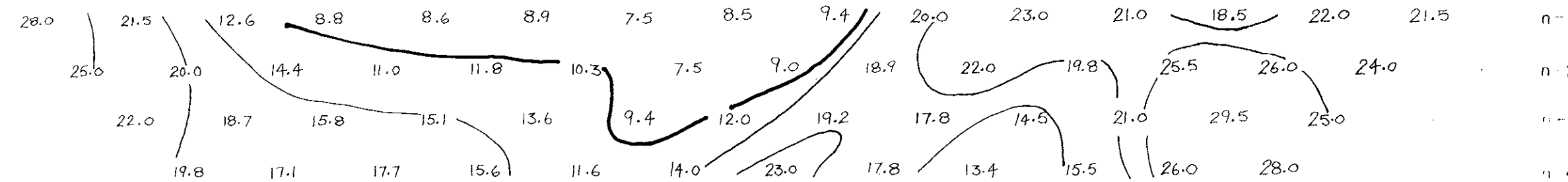
Apparent Resistivity ohm metres

500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E

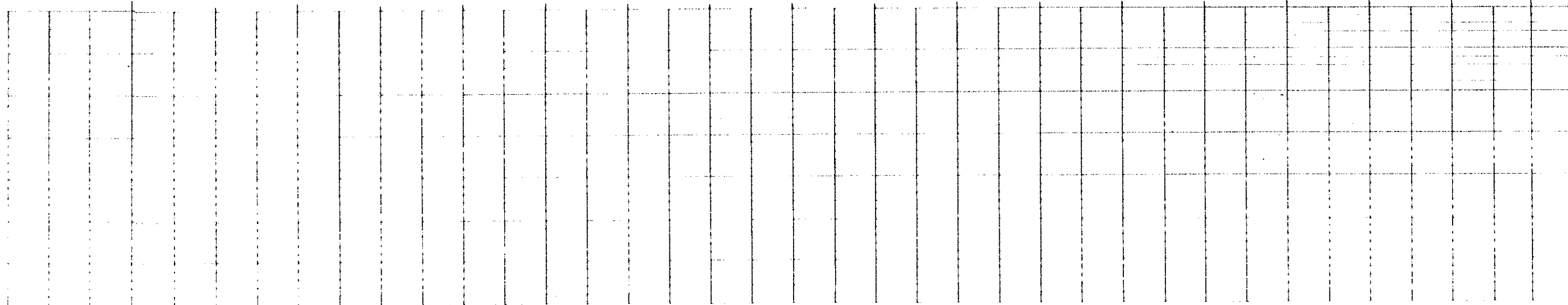


Apparent Chargeability Mv/v

500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E



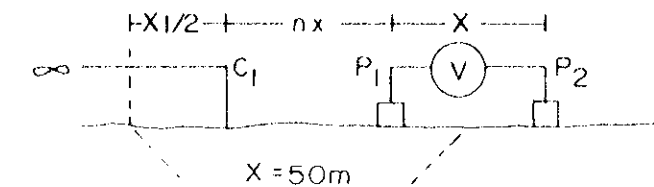
500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E



COMINCO LTD.  
 C.K. PROPERTY  
 AUTUMN GRID  
 KAMLOOPS M.D., B.C.

LINE NO. 41+00 S.

POLE-DIPOLE  
ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (C.A.) INTERPRETATION
- STRONG CHARGEABILITY HIGH
  - MODERATE CHARGEABILITY HIGH
  - WEAK CHARGEABILITY HIGH
- APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 14, 1979

CONTOUR INTERVALS:

APP RES - 1, 1.5, 2, 3, 5, 7.5, 10  
APP CHARG - 5.0 Mv/v

APPROVED *AS*

TRANSMITTER - HUNTEC 7.5kw  
RECEIVER - IPR 8

MINERAL RESOURCES BRANCH  
DATE ASSESSMENT REPORT

**7644**  
N. **PT. 103**

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

LINE 41+00 S





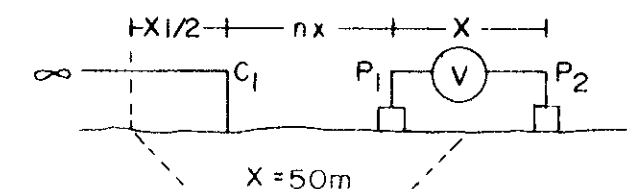


# COMINCO LTD. C.K. PROPERTY AUTUMN GRID KAMLOOPS M.D., B.C.

LINE NO. 44+00S

POLE-DIPOLE

ELECTRODE CONFIGURATION



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

CHARGEABILITY (IP) INTERPRETATION

- STRONG CHARGEABILITY HIGH
- MODERATE CHARGEABILITY HIGH
- WEAK CHARGEABILITY HIGH

APPARENT RESISTIVITY INTERPRETATION

- APPARENT RESISTIVITY LOW

DATE SURVEYED JUNE 15, 1979

CONTOUR INTERVALS :

APP. RES. — 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG. — 5.0 Mv/V

APPROVED CA

MINERAL RESOURCES BRANCH  
DATE

**7644**  
NO.

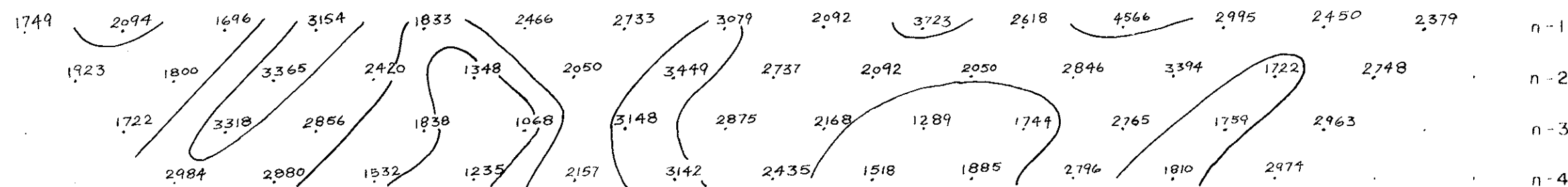
**PT. 1023**

TRANSMITTER — HUNTEC 7.5KW  
RECEIVER — IPR 8

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

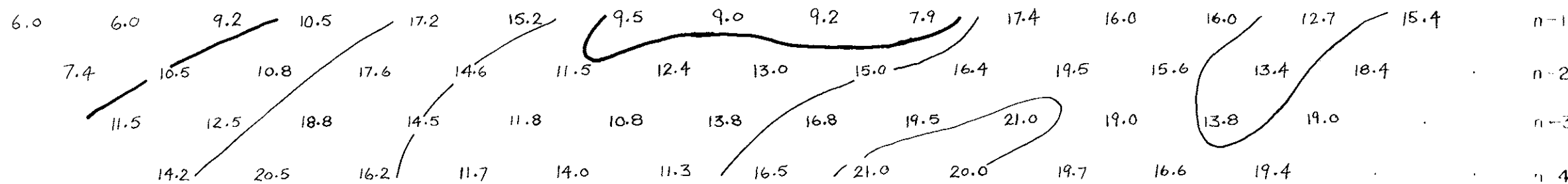
Apparent Resistivity ohm metres

500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E

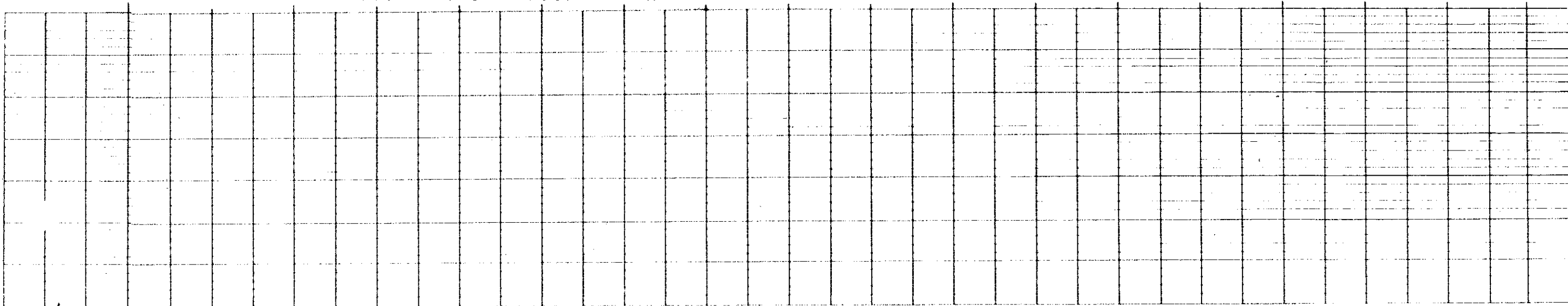


Apparent Chargeability Mv/v

500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E



500E 550E 600E 650E 700E 750E 800E 850E 900E 950E 1000E 1050E 1100E 1150E 1200E 1250E



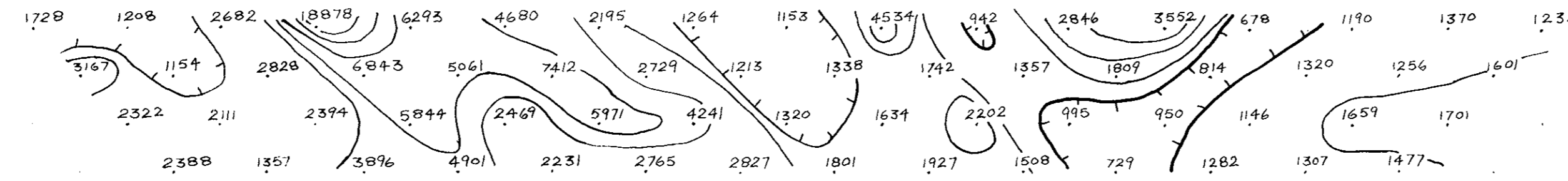
LINE 44+00S





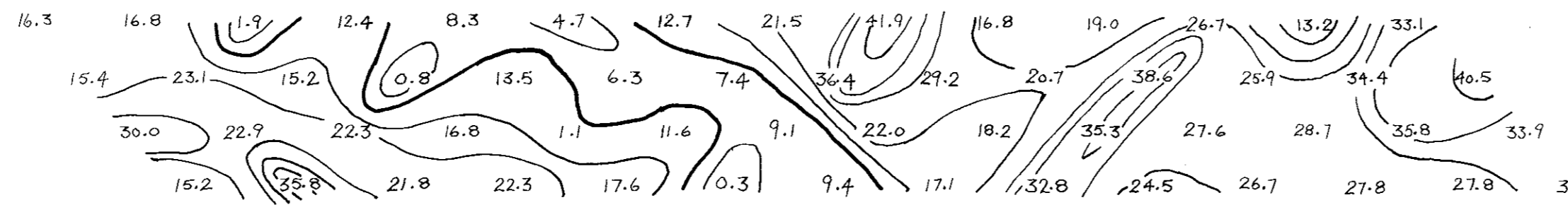
Apparent Resistivity ohm metres

2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E 3200E 3250E 3300E 3350E 3400E 3450E

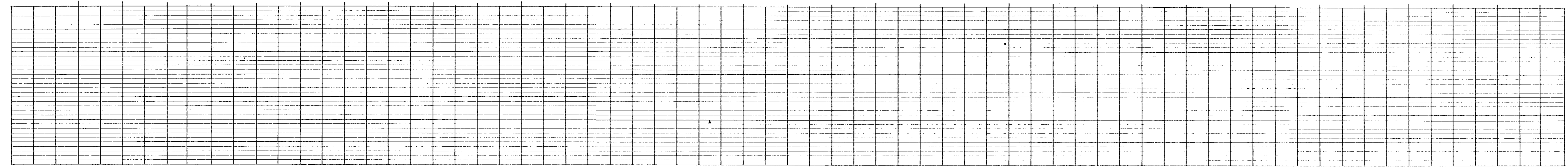


Apparent Chargeability Mv/v

2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E 3200E 3250E 3300E 3350E 3400E 3450E



2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E 3200E 3250E 3300E 3350E 3400E 3450E

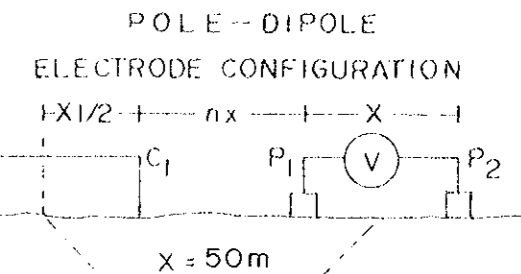


N.T.S. 82-M-13

DWG. NO. 157-79-40

COMINCO LTD.  
 C.K. PROPERTY  
 RAFT SYNFORM GRID  
 KAMLOOPS M.D., B.C.

LINE NO. 46±00N



PLOTTING POINT  
n = 1, 2, 3, 4

CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (IP) INTERPRETATION:  
 [Solid black bar] STRONG CHARGEABILITY HIGH  
 [Dashed bar] MODERATE CHARGEABILITY HIGH  
 [Dotted bar] WEAK CHARGEABILITY HIGH  
 APPARENT RESISTIVITY INTERPRETATION:  
 [Thin solid line] APPARENT RESISTIVITY LOW

DATE SURVEYED SEPTEMBER 18, 1979

CONTOUR INTERVALS:

APP. RES. --- 1, 1.5, 2, 3, 5, 7.5, 10  
APP. CHARG --- 5.0 Mv/v

APPROVED [Signature]

TRANSMITTER --- HUNTEC 75 KW  
RECEIVER --- HUNTEC MK III

MINERAL RESOURCES BRANCH  
 DATE OF REPORT  
 NO. 7644  
 PT. 183

INDUCED POLARIZATION AND RESISTIVITY SURVEY  
SURVEYED BY PETER E. WALCOTT & ASSOC. LTD.

LINE 46±00N

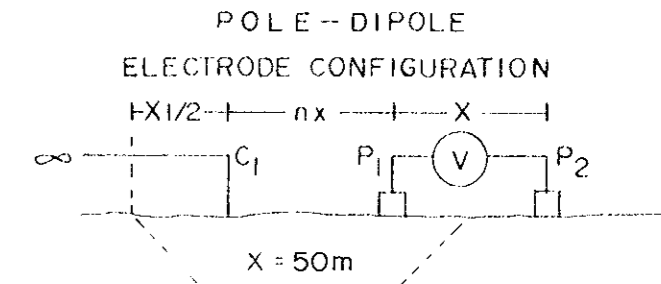




# COMINCO LTD.

## C.K. PROPERTY RAFT SYNFORM GRID KAMLOOPS M.D., B.C.

LINE NO. 48+00N



CURRENT ELECTRODE WEST OF POTENTIAL DIPOLE

- CHARGEABILITY (%) INTERPRETATION
- STRONG CHARGEABILITY HIGH
  - MODERATE CHARGEABILITY HIGH
  - WEAK CHARGEABILITY HIGH
- APPARENT RESISTIVITY INTERPRETATION
- APPARENT RESISTIVITY HIGH

DATE SURVEYED SEPTEMBER 22, 1979

CONTOUR INTERVALS:

APP RES — 1, 1.5, 2, 3, 5, 7.5, 10  
APP CHARG — 5.0 mV/V

APPROVED *[Signature]*

MINERAL RESOURCES BRANCH

**7644**

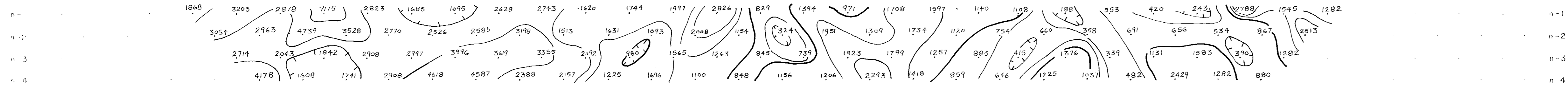
N°

TRANSMITTER — HUNTEC 7.5KW  
RECEIVER — HUNTEC MK III

INDUCED POLARIZATION AND RESISTIVITY SURVEY  
SURVEYED BY PETER E. WALCOTT & ASSOC. LTD.

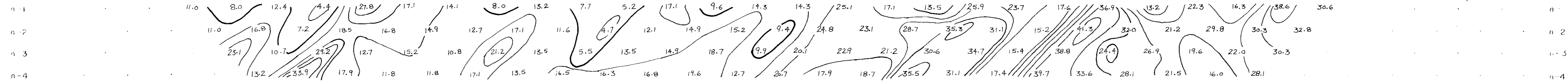
Apparent Resistivity ohm metres

2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E 3200E 3250E 3300E 3350E 3400E 3450E 3500E 3550E 3600E 3650E 3700E 3750E 3800E 3850E 3900E 3950E 4000E

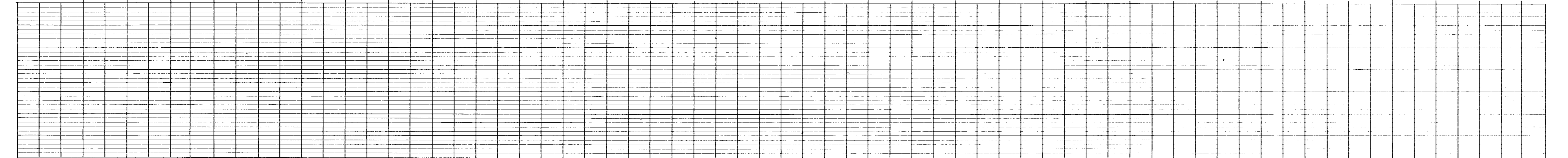


Apparent Chargeability Mv/V

2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E 3200E 3250E 3300E 3350E 3400E 3450E 3500E 3550E 3600E 3650E 3700E 3750E 3800E 3850E 3900E 3950E 4000E



2600E 2650E 2700E 2750E 2800E 2850E 2900E 2950E 3000E 3050E 3100E 3150E 3200E 3250E 3300E 3350E 3400E 3450E 3500E 3550E 3600E 3650E 3700E 3750E 3800E 3850E 3900E 3950E 4000E



LINE 48+00N

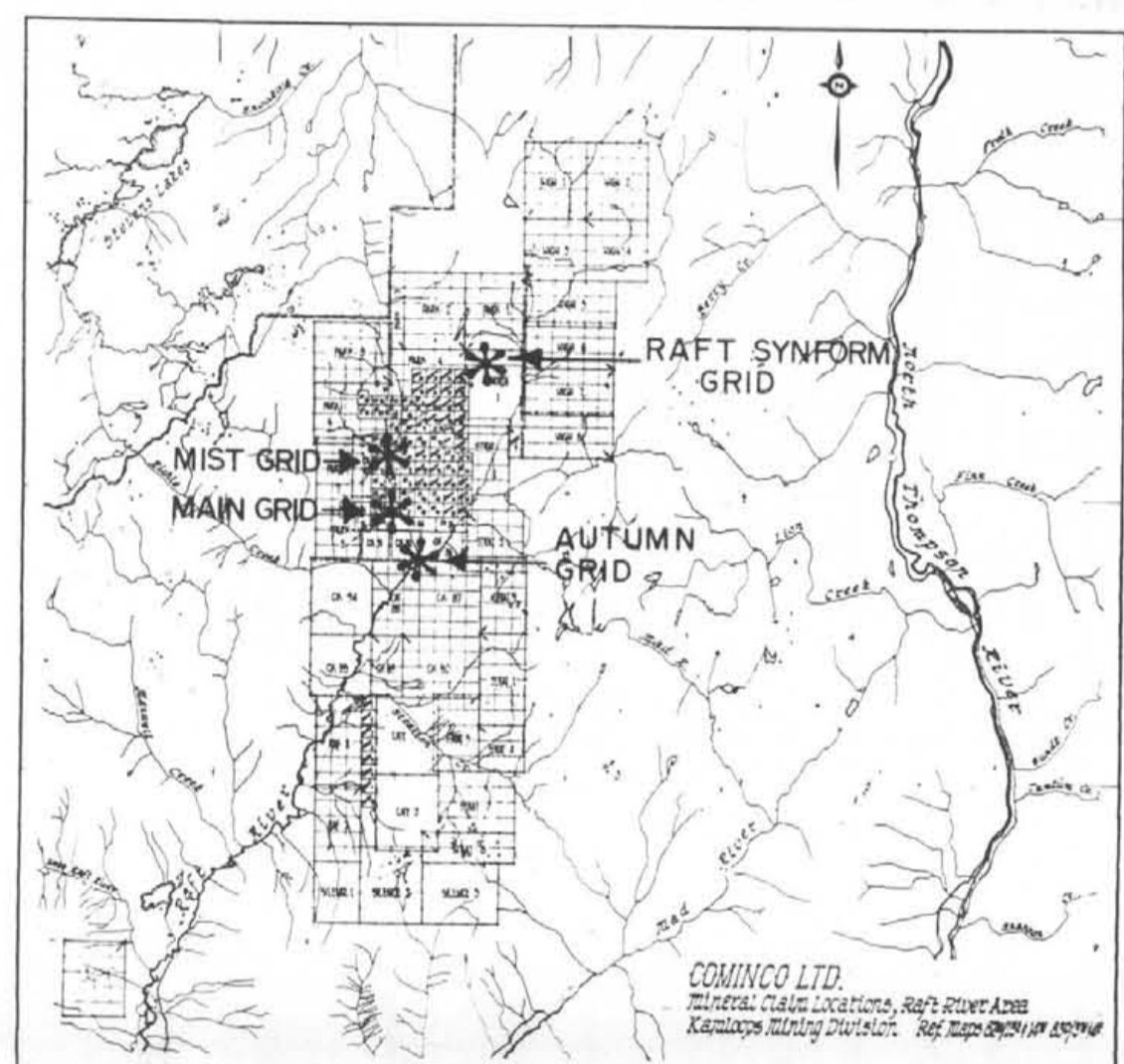
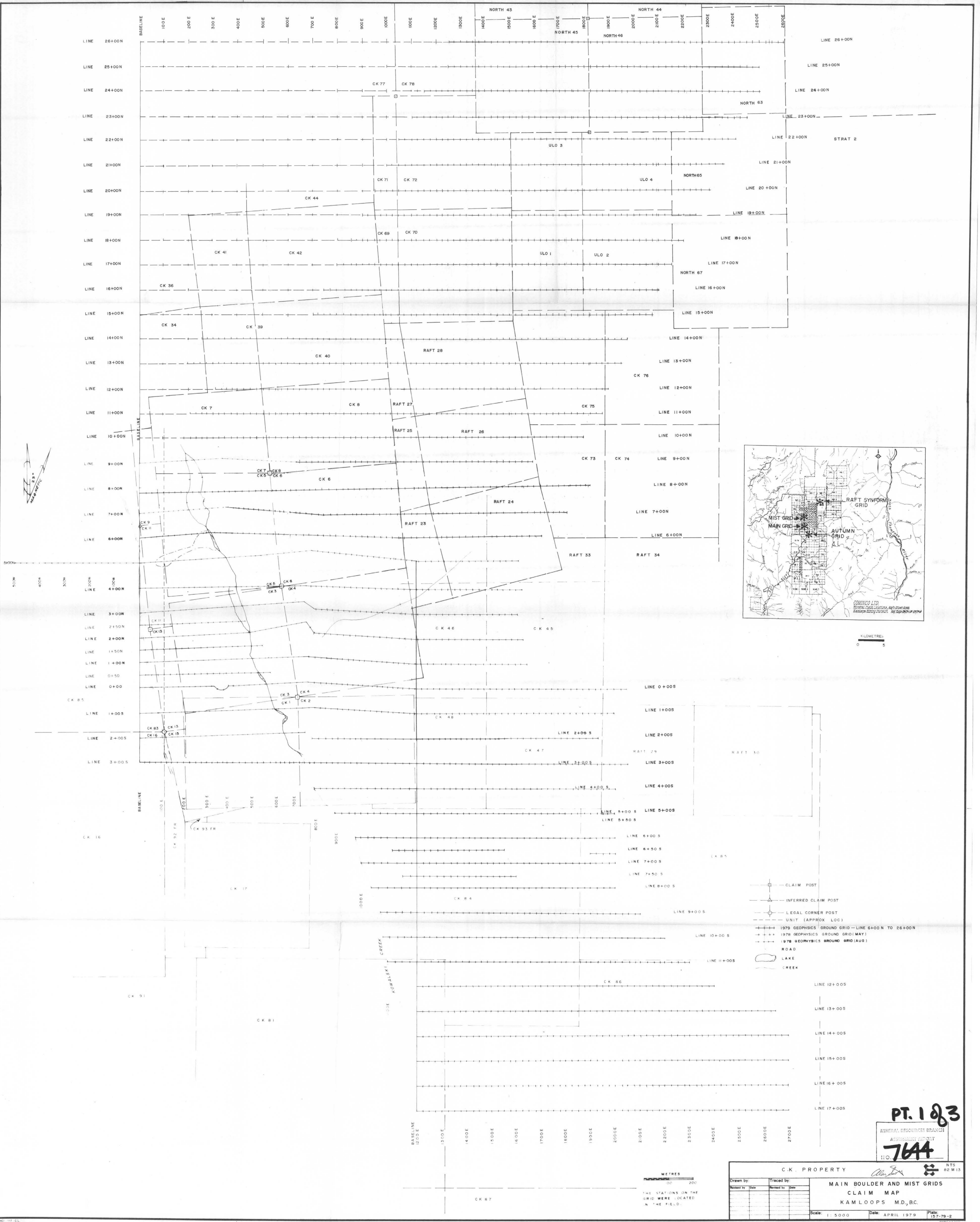










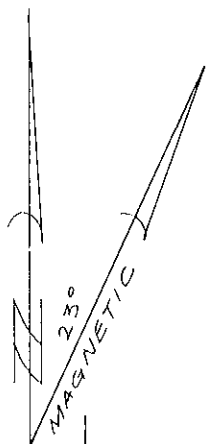


- CLAIM POST
- △ INFERRED CLAIM POST
- LEGAL CORNER POST
- UNIT (APPROX. LOC)
- 1979 GEOPHYSICS GROUND GRID—LINE 6+00N TO 26+00N
- 1978 GEOPHYSICS GROUND GRID (MAY)
- 1978 GEOPHYSICS GROUND GRID (AUG)
- ROAD
- LAKE
- CREEK

**PT. 183**

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
NO. **7644**

C.K. PROPERTY		NTS 02 M 13	
MAIN BOULDER AND MIST GRIDS CLAIM MAP KAMLOOPS M.D., B.C.			
Drawn by:	Traced by:	Scale:	Date:
Checked by:	Reviewed by:	1:5000	APRIL 1979
1:41 STATIONS ON THE GRID WERE LOCATED IN THE FIELD.		Plate: 157-79-2	



BASELINE

CK 91

CK 81

CK 88

LINE 41+00 S

LINE 42+00 S

LINE 43+00 S

CK 86

LINE 44+00 S

CK 87

LINE 45+00 S

550 E

600 E

700 E

800 E

900 E

950 E

1000 E

1100 E

1200 E

1300 E

1350 E

1979 GEOPHYSICS GROUND GRID

CLAIM BOUNDARY (APPROXIMATE LOCATION)

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

**7644**

METRES

0 100 200

**Pt. 183**

C K PROPERTY

*Alan Jones*

NTS  
82 M 13

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

AUTUMN GRID

CLAIM MAP

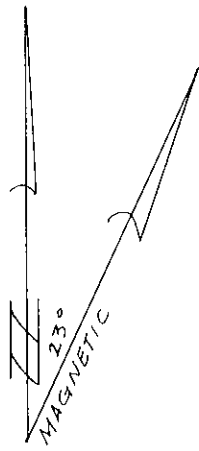
KAMLOOPS M.D., B.C.

Scale: 1:5000

Date: NOV, 1979

Plate: 157-79-3





LINE 51+00 N

LINE 50+00 N

PARK 2

LINE 49+00 N

LINE 48+00 N

PARK 4

LINE 47+00 N

LINE 46+00 N

LINE 45+00 N

PARK 1

NORTH 1

2600 E

2700 E

2800 E

2900 E

3000 E

3100 E

3200 E

3300 E

3400 E

3500 E

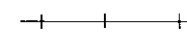
3600 E

3700 E

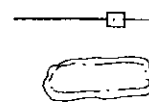
3800 E

3900 E

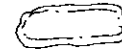
4000 E



1979 GEOPHYSICS GROUND GRID



CLAIM BOUNDARY (APPROXIMATE LOCATION)



LAKE

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

**7644**

NO METRES

0 100 200

**PL 183**

CK PROPERTY

*Alan Lee*

NTS  
COMINGO 82M13

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

RAFT SYNFORM GRID

CLAIM MAP

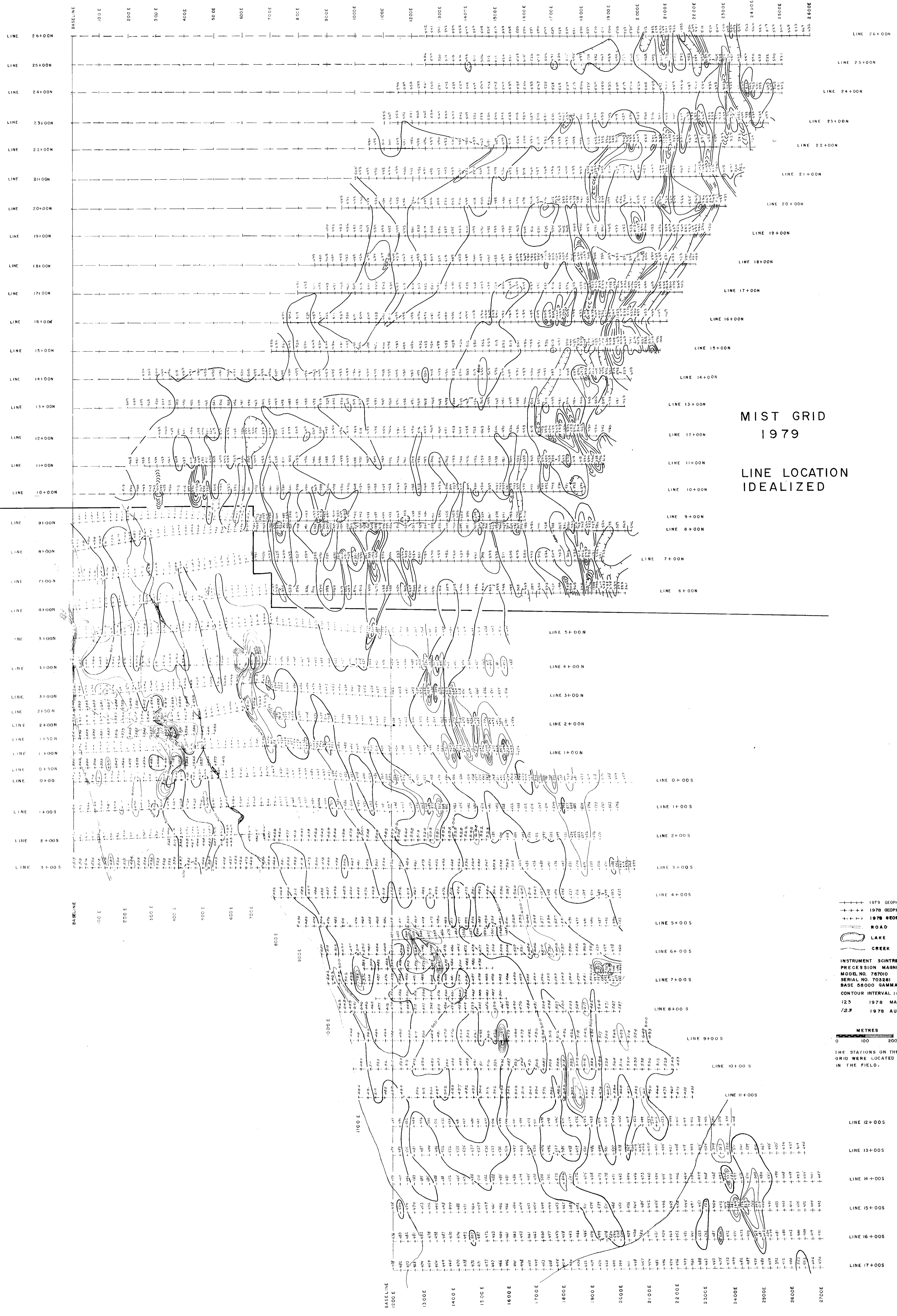
KAMLOOPS M.D., B.C.

Scale: 1:5000

Date: NOV 1979

Plate: 157-79-4

1:25000  
MAGNETIC



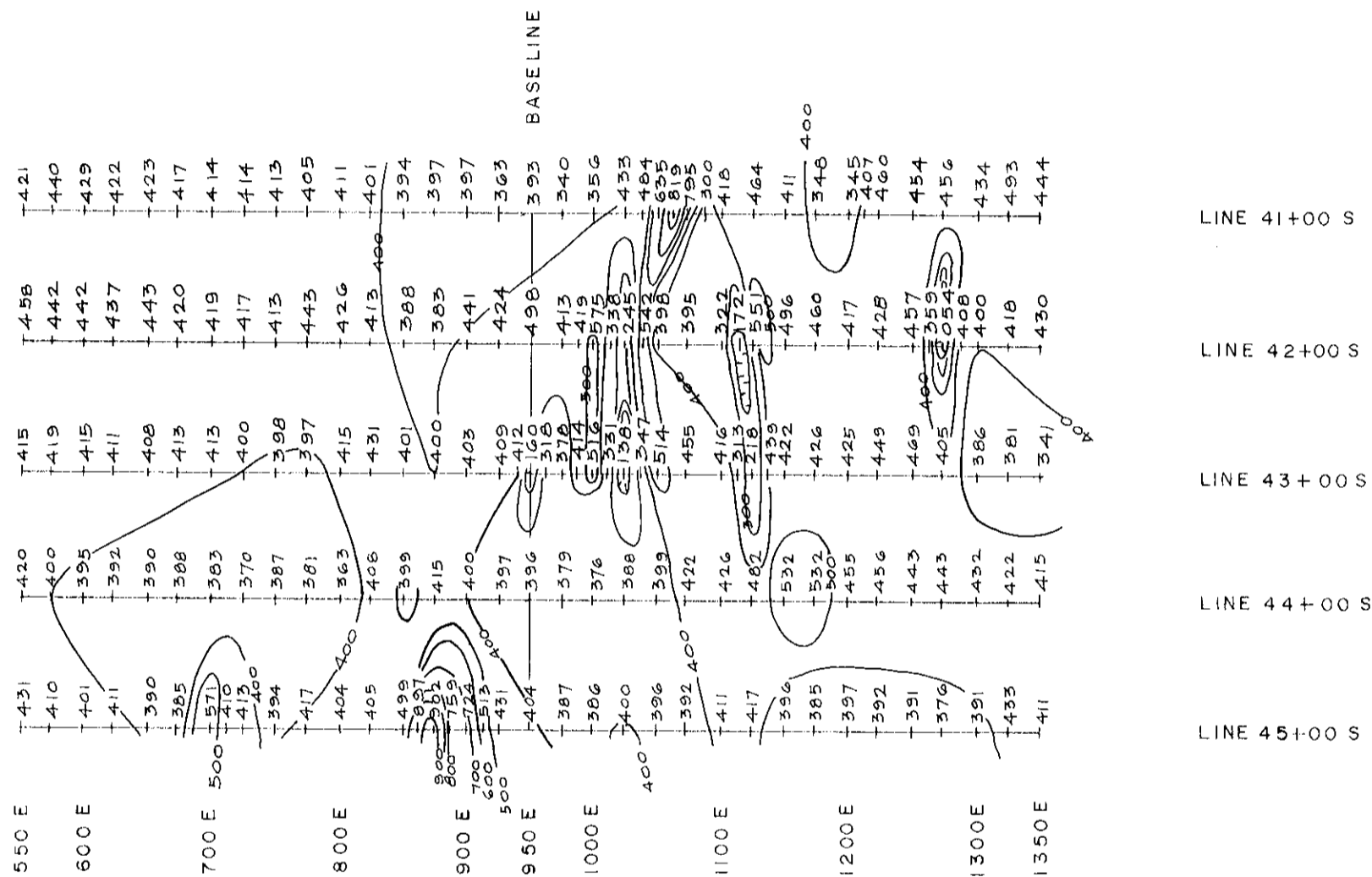
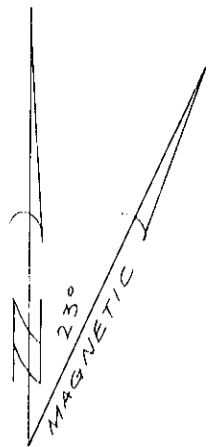
MIST GRID  
1979  
LINE LOCATION  
IDEALIZED

+---+ 1979 GEOPHYSICS GROUND GRID  
 +++ 1978 GEOPHYSICS GROUND GRID (MAY)  
 +---+ 1978 GEOPHYSICS GROUND GRID (AUG)  
 ROAD  
 LAKE  
 CREEK  
 INSTRUMENT SCINTREX MP II PROTON  
 PRECISION MAGNETOMETER  
 MODEL NO. 767010  
 SERIAL NO. 703281  
 BASE 50000 GAMMAS  
 CONTOUR INTERVAL 100 GAMMAS  
 125 1978 MAY READINGS  
 /25 1978 AUG. READINGS  
 METRES  
 0 100 200  
 THE STATIONS ON THE  
 GRID WERE LOCATED  
 IN THE FIELD.

MINERAL RESOURCES BRANCH  
 7644  
 PE 193

C. K. PROPERTY		MAGNETOMETER SURVEY	
Drawn by:	Traced by:	KAMLOOPS M.D., B.C.	
Revised by:	Revised by:	Scale: 1:5000	Date: SEPT. 1978
			Plate: 157-79-5





1979 GEOPHYSICS GROUND GRID

INSTRUMENT: SCINTREX MP II PROTON PRECESSION  
MAGNETOMETER  
MODEL NO 767010  
SERIAL NO 709300

BASE 58000 GAMMAS  
CONTOUR INTERVAL 100 GAMMAS

MINERAL RESOURCES BRANCH  
ASSIGNMENT REPORT  
**7644**  
METRES  
0 100 200

**PE 183**

C K PROPERTY *Alan Smith*

AUTUMN GRID  
MAGNETOMETER SURVEY  
KAMLOOPS M.D., B.C.

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

Scale: 1:5000 Date: NOV, 1979 Plate 157 (9) 6

Cominco NTS 82 M 13