

DATE RECEIVED
NOV 23 1995

PACIFIC GEOPHYSICAL LIMITED

REPORT ON THE

INDUCED POLARIZATION AND RESISTIVITY SURVEY
AND MAGNETIC SURVEY

ON THE
CARIBOO GOLD PROPERTY
J1, CASCA 1-4 CLAIMS
CARIBOO MINING DIVISION, BRITISH COLUMBIA

FOR
NOBLE METAL GROUP INC.

FILMED

LATITUDE : 52 47' N LONGITUDE : 121 30' W
N.T.S. 93A/13E/14W

PROPERTY OWNER: NOBLE METAL GROUP INC.
PROPERTY OPERATOR: NOBLE METAL GROUP INC.

BY
PAUL A. CARTWRIGHT, P.Geo.
Geophysicist

DATED: SEPT. 29, 1995

24,085

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORTS

SUMMARY

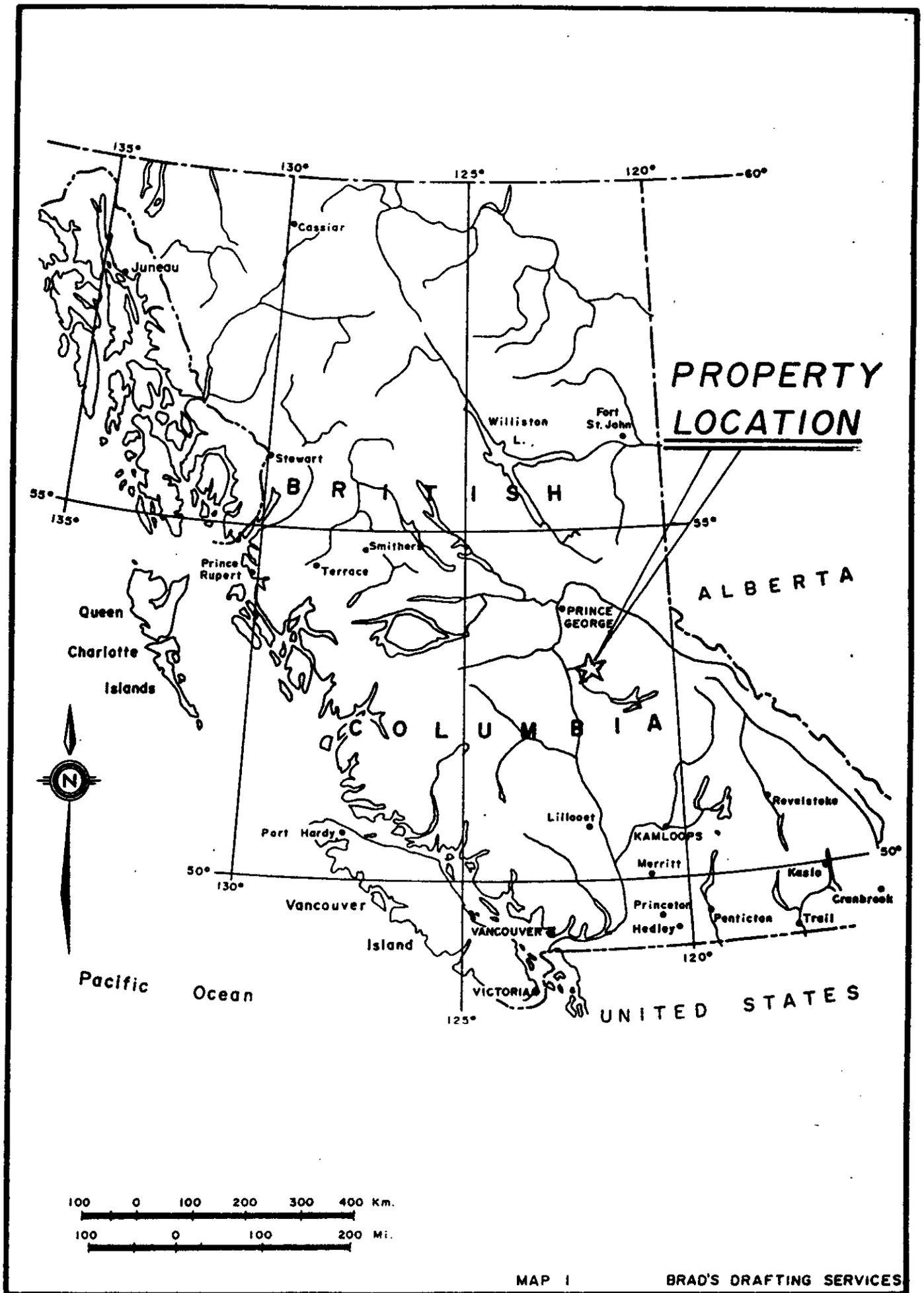
Induced Polarization(IP) and resistivity, and total field magnetic surveys have been carried out on the Cariboo Gold Property (J1, CASCA 1-4 Claims), Cariboo M.D., B.C. A number of anomalous IP Zones are outlined by the data, in some cases coincident with areas of interesting magnetic response. One IP zone, in particular, is thought to be caused by semi-massive to massive sulphides, while others are more likely caused by disseminated metallic mineralization. Drilling is recommended to test the sources of several of the anomalous IP Zones. Additional geophysical surveying has also been recommended to further define the remaining anomalous IP responses, prior to drilling.

TABLE OF CONTENTS

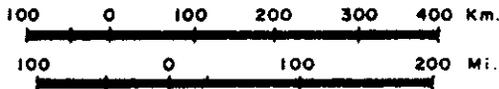
PART A	REPORT	PAGE
1.	Introduction	1
2.	Instrument Specifications	2
3.	Property Geology	2
4.	Description of Claims	4
5.	Presentation of Data	4
6.	Discussion of Results	5
7.	Conclusions and Recommendations	6
8.	Personnel	7
9.	Statement of Cost	8
10.	Certificate : Paul A. Cartwright, P.Geo..	9

PART B ILLUSTRATIONS

Location Map.	Map 1
Claim Map	Fig. 2
Geophysical Compilation Map	File:Magnobl
IP Pseudosection Data Plots	9 Sections



**PROPERTY
LOCATION**



1. INTRODUCTION

Induced Polarization (IP) and resistivity, and total field magnetic surveys have been completed on the Cariboo Gold Property on behalf of Noble Metal Group Inc. by Pacific Geophysical Ltd.

The Cariboo Gold Property is located approximately 21 kilometres north-northeast of the Community of Likely, British Columbia. Access to the property is via the Keithley Creek logging road from Likely.

The area has been sporadically explored for both placer and lode gold since the 1860's. Noble Metal Group Inc. is presently preparing a placer mine for production on a section of Keithley Creek, located immediately southwest of the present geophysical grid.

The objective of the present geophysical surveys was to test for the presence of metallic sulphide mineralization, possibly associated with economic gold concentrations.

Geophysical field operations commenced on Sept. 7, 1995, under the direction of Marc Beaupre, senior geophysical technician. Paul Cartwright, P.Geo., geophysicist, took over the project from Mr. Beaupre on Sept. 11, 1995 until its completion on Sept. 14, 1995. A total of 7.815 l.km. of IP and resistivity data, and 6.815 l.km. of magnetic data were surveyed.

2. INSTRUMENT SPECIFICATIONS

An EDA Model IP-6 six channel time domain IP/resistivity receiver using "mode 3 (Td=80ms,M1-M10=4X80ms,3X160ms,3X320ms)", together with a Phoenix Model IPT-1 transmitter and 2.0 kw motor-generator, that produced a two second on/two second off square wave signal of alternating polarity, were used to make all the IP and resistivity measurements. IP effects were recorded as chargeability in milliseconds while apparent resistivity values were normalized in units of ohm-meters. Dipole-dipole array was utilized to make all of the measurements, and, with two exceptions, used an interelectrode distance of 25 metres recording five separations at each station. Much of Line 200N was also surveyed using 12.5 metre dipole lengths and 6 separations, while a short section of Line 300N was also evaluated using 5 metre dipole lengths and 6 separations.

Total field ground magnetometer measurements were made using a GEM Systems Model GSM-19 magnetometer. An EDA Model PPM375 recording base station was used to correct the diurnal variations.

3. PROPERTY GEOLOGY

The following geological description has been provided by the staff of Noble Metal Group Inc.;

" The Cariboo Mountain Belt has been subdivided into four distinct terranes, each one bounded by two major thrust faults.

The Cariboo Gold Property is located within the Barkerville Terrane which is bounded to the east by the northeast dipping Pleasant Valley thrust and to the west by the southwest dipping Eureka thrust. The terrane is characterised by continental shelf clastics, carbonates and volcanics, more specifically grit with black quartz grains and black siltite. The rocks have been metamorphosed and vary from chlorite to sillimanite grade, although in the vicinity of the Cariboo Gold Property, the rocks are of chlorite grade. The Cariboo Gold Property is underlain by metasedimentary rocks of the Cariboo Group, principally the Snowshoe Formation; the rocks are considered to range in age from Hydrynian to Palaeozoic. The Snowshoe Formation is the youngest known of the Cariboo Group. The Formation is composed predominantly of clastic rocks with subsidiary limestone. Micaceous quartzites are the commonest type of arenaceous rock, while the argillaceous rocks are mostly phyllites with fine siltstones. The calcareous rocks of the Snowshoe Formation are important because of gold-bearing pyritic replacement of certain beds.

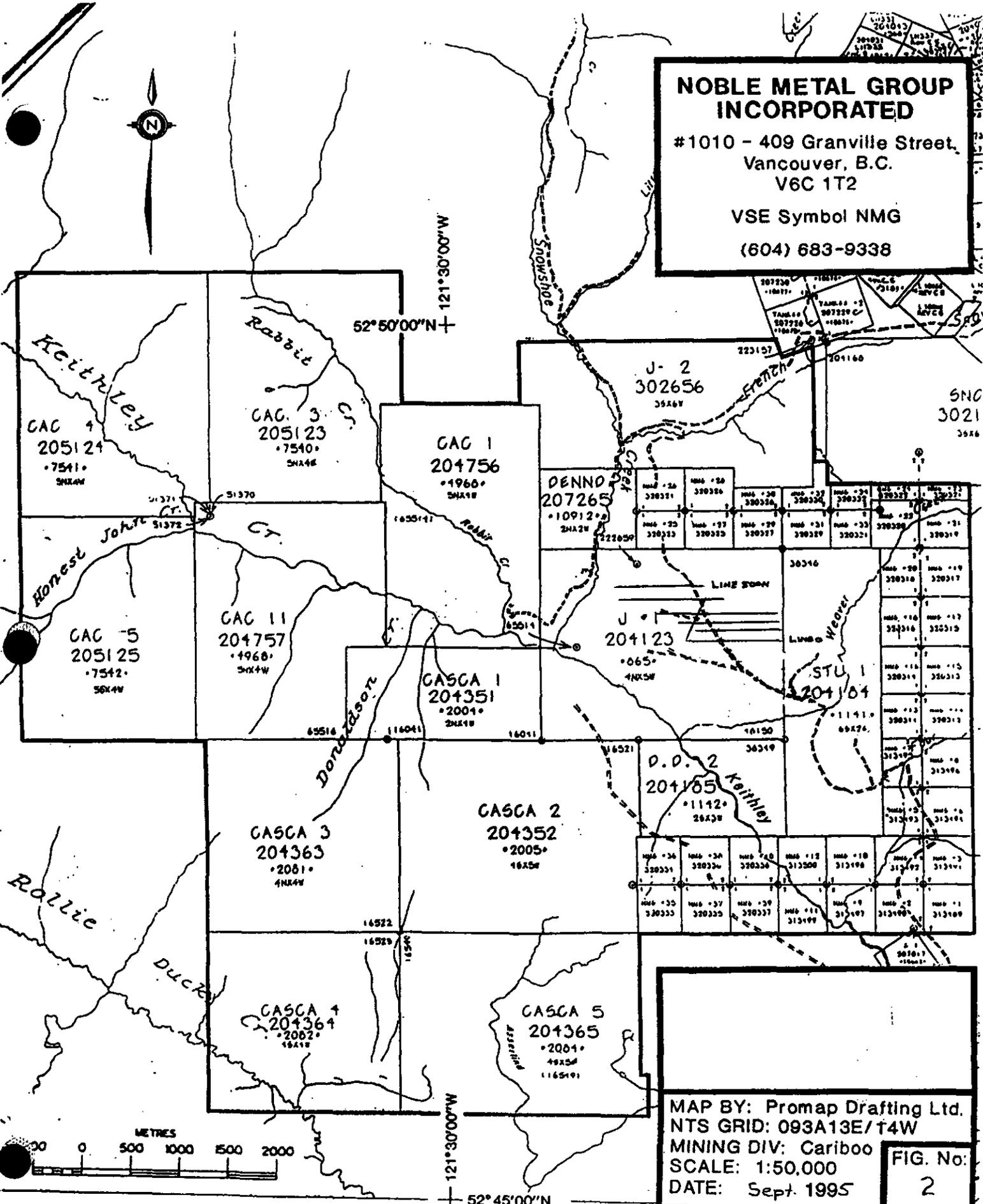
In the Cariboo area, gold mineralization occurs as follows:

1. As auriferous pyrite in quartz veins
2. As pyritic replacement ore in limestone

The Barkerville Terrane is cut by several generations of quartz veins the majority of which are barren. It is reported that some mineralized veins carry up to 25% pyrite with up to 70 grammes per ton of gold (Aldrick 1983).

The replacement ore consists of massive pyrite lenses, with

**NOBLE METAL GROUP
INCORPORATED**
 #1010 - 409 Granville Street,
 Vancouver, B.C.
 V6C 1T2
 VSE Symbol NMG
 (604) 683-9338



MAP BY: Promap Drafting Ltd.
 NTS GRID: 093A13E/T4W
 MINING DIV: Cariboo
 SCALE: 1:50,000
 DATE: Sept. 1995

FIG. No:
 2

the finest sulphides containing the highest gold values. Structural control would appear to be important as the lenses are localized in the crests or troughs of the minor folds, in steeply dipping limbs of the main folds and in flat lying tabular lenses where the limestones have flattened (Aldrick). It has been suggested that the veins have developed outward from the replacement ore.

4. DESCRIPTION OF CLAIMS

The geophysical work is being applied towards the following claims:

<u>Claim Name</u>	<u>Units</u>	<u>Anniversary Date</u>	<u>Old Record No.</u>	<u>Tenure No.</u>
J 1	20	Oct.12, 1999	865	204123
CASCA 1	8	Oct. 2, 1999	2004	204351
CASCA 2	20	Oct. 2, 1995	2005	204352
CASCA 3	16	Oct.23, 1996	2081	204363
CASCA 4	16	Oct.23, 1995	2082	204364

The mineral claims are located in the Cariboo Mining Division, Province of British Columbia.

5. PRESENTATION OF DATA

The IP and resistivity results are shown on the following data plots in pseudo-section format.

<u>Line</u>	<u>Electrode Int.</u>	<u>Reading Int.</u> (outermost electrodes)
500N	25 metres	925W-0
400N	25 metres	950W-300E
300N	25 metres	1200W-100E
300N	5 metres	815W-725W
200N	25 metres	950W-75E
200N	12.5 metres	950W-0
100N	25 metres	700W-200E
0	25 metres	900W-100E
100E	25 metres	200N-275S

Also included with this report is Map File:Magnobl, a 1:5000 scale geophysical compilation plan map, which illustrates the interpreted IP anomalies and IP Zones, as well as the posted and contoured magnetics. These IP anomalies are indicated by bars in the manner shown on the plan map legend, as well as on the pseudo-sections. These bars represent the surface projections of the anomalous responses interpreted from the transmitter and receiver electrode locations when the anomalous values were measured, and should not be taken as representing the exact limits of the causative source.

6. DISCUSSION OF RESULTS

A number of zones of anomalous Induced Polarization (IP) effects are interpreted in the data recorded on the Cariboo Gold Property geophysical grid. These zones are illustrated on Plan Map File:Magnobl, and are discussed separately in the following paragraphs.

IP Zone A - The source of this response is best outlined by the IP and resistivity data measured on Line 300N, in the vicinity of Station 765W. Data was recorded over this part of Line 300N using 5 metre dipole lengths, as well as the usual 25 metre dipole lengths. The shorter measurement intervals allows a much more precise estimate of the physical properties of the causative source. It would appear that the source is buried between 5 and 10 metres subsurface, and is probably in the order of 10 to 15 metres in width. Highly anomalous IP values, together with very much lower than normal resistivity measurements are strongly suggestive of a near-massive to massive sulphide source. Data recorded on Line 100E, between Stations 37.5S and 0.0, point to a north-northwesterly strike. However, IP data recorded further west on Line 300N indicate the source of the zone may be extensively folded in the region between Line 400N and Line 300N.

IP Zone B - This is the largest anomalous IP zone seen in the data, extending across the entire grid in a north-south direction. Much

of the eastern margin of the zone appears to be marked by a distinct zone of low resistivity values, often unaccompanied by any anomalous IP values, that is thought to be a regional fault structure. IP effects within IP Zone B vary from highly anomalous to only weakly anomalous. However, resistivity readings are generally of moderate intensity. This signature indicates that the cause of IP Zone B is probably varying concentrations of disseminated metallic mineralization. There is some indication that shallow westerly dips may be present. Higher than background magnetic readings correlate with several areas of high magnitude IP effects. One such area occurs close to the eastern edge of the zone, on Line 400N, while another is noted in the data measured on Line 300N, near the western side of the zone. In both cases depths to the tops of the causative sources are less than 25 metres beneath the surface.

IP Zone C - A roughly tabular target approximately 50 to 100 metres in width, buried less than 25 metres deep, and possibly extending 25 to 50 metres vertically, is interpreted to be the source of IP Zone C. It is best outlined in the data from the eastern portion of Line 0. The zone is currently undefined towards the south. Slightly higher than normal magnetic values are noted to be coincident with the moderately anomalous IP effects and slightly lower than background resistivity values that constitute the zone.

IP Zone D - This weakly anomalous feature is marked on the extreme

eastern ends of Lines 300N and 200N. The source is thought to dip towards the west at a shallow angle. At the present time the zone is open towards the north, east and south.

IP Zone E - A relatively narrow, resistive source, such as a v. weakly mineralized quartz vein could possibly be the cause of IP Zone E; however, it is difficult to ascertain this without more detailed data. At present, the northern extent of the zone is unknown as well.

7. CONCLUSIONS AND RECOMMENDATIONS

Induced Polarization (IP) and resistivity surveying carried out on the Cariboo Gold Property has detected a number of anomalous IP zones, which are listed below in order of priority for further work.

IP Zone A - Drilling is definitely recommended to test the source of what appears to be a semi-massive to massive sulphide target, as outlined by very high magnitude IP effects and much lower than normal resistivity values. A diamond drill collared on Line 300N, Station 745W, and drilling toward 245 deg. true at -45 deg. from the horizontal is suggested.

IP Zone B - Two distinct areas of higher magnitude IP effects and higher than usual magnetic values are evident within the general outline of this very large IP Zone. Both of these areas are recommended as drill targets. It is suggested that one diamond

drill hole be located on Line 300N, Station 685W, drilling at 080 deg. true at -45 deg. from the horizontal, while a second hole be positioned on Line 400N, Station 100E, drilling at 080 deg. true at -45 deg. from the horizontal.

IP Zone C - Drilling is recommended to test this possibly tabular target. A diamond drill hole collared on Line 0, Station 85W is suggested, drilling towards 080 deg. true at -75 deg. from the horizontal.

IP Zone D - Additional IP/resistivity and magnetic surveying is recommended to better outline the northern, eastern, and southern extent of this zone. Drilling priorities could then be established.

IP Zone E - Detailed IP surveying using 12.5 metre or less dipole lengths is recommended to better ascertain the significance of this zone. Additional surveying is also required to map the northern extension of IP Zone E.

Pacific Geophysical Ltd.

Paul A. Cartwright



Paul A. Cartwright, P. Geo.

Dated: September 29, 1995

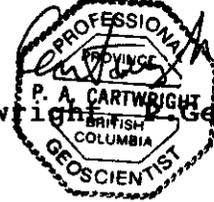
8. PERSONNEL

The personnel employed during the data acquisition and reporting stages of the Cariboo Gold Property IP/resistivity, and magnetometer surveys are listed below.

<u>Name</u>	<u>Occupation</u>	<u>Address</u>	<u>Date Employed</u>
M. Beaupre	Geoph. Techn.	4508 W13th Ave., Vancouver	Sept 7-10/95
P. Cartwright	Geophysicist	4508 W13th Ave., Vancouver	Sept 11-14/95 Sept 26-29/95
D. Helliwell	Geophysicist	4659 Simpson Ave., Vancouver	Sept 7-15/95
B. Page	Geoph. Assis.	5792 Dunbar St., Vancouver	"
M. Major	Geoph. Assis.	425 East 11th Ave., Vancouver	"

PACIFIC GEOPHYSICAL LTD.

Paul A. Cartwright
 Paul A. Cartwright P. Geo.



Dated: Sept. 29, 1995

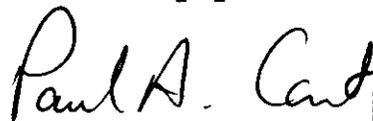
9. STATEMENT OF COST

Noble Metal Group Inc.
 J1, CASCA 1-4 Claims
 Cariboo M.D., B.C.
 NTS 93A/14W

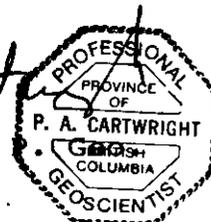
IP/resistivity, magnetics

Data Acquisition	\$12000.03
Mob-demob	\$ 2500.00
Data Processing, Interpretation & Reporting	\$ 1300.00
	<hr/>
	\$15800.03
GST 7%	\$ 1106.00
	<hr/>
Total	\$16906.03

Pacific Geophysical Ltd.



Paul A. Cartwright,



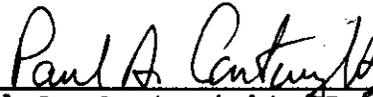
Dated: Sept. 29, 1995

10. CERTIFICATE

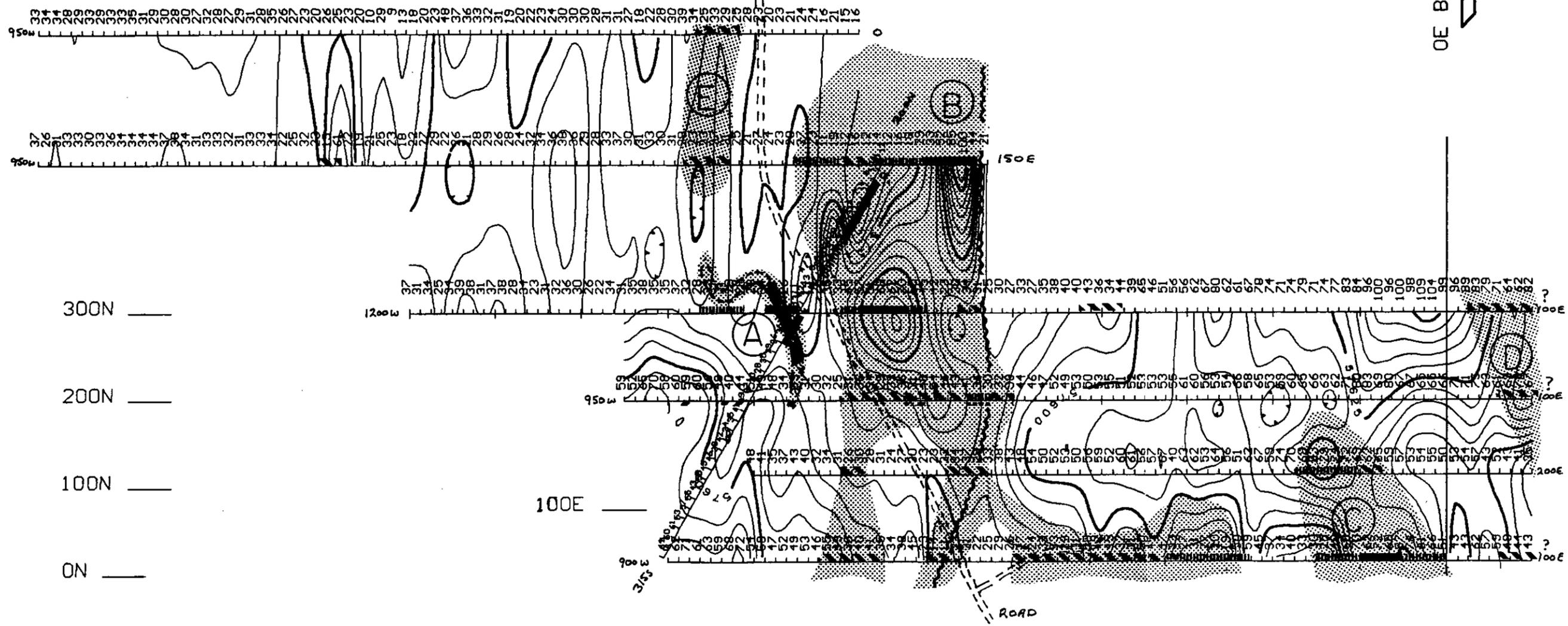
I, Paul A. Cartwright, of the City of Vancouver, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 4508 West 13th Avenue, Vancouver, British Columbia.
2. I am a graduate of the University of British Columbia, with a B.Sc. degree (1970).
3. I am a member of the Society of Exploration Geophysicists, and the European Society of Exploration Geophysicists.
4. I have been practising my profession for 25 years.
5. I am a Professional Geoscientist registered in the Province of British Columbia. I am a Professional Geophysicist licensed in the Province of Alberta.

Dated at Vancouver, British Columbia this 29th day of Sept., 1995.


Paul A. Cartwright, P.


500N
400N
300N
200N
100N
ON



OE BASELINE



IP - Instrument : ELREC-6
 - Classif. of IP Anomalies
 Strong
 Moderate
 Weak
 - Outline Of Anomalous IP Zone

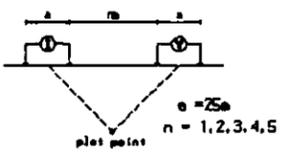
MAG - Instrument : GSM-19
 - Field : TOTAL
 - Datum : 57550 nT
 - Contour Int.: 5.0 nT

NOBLE METAL GROUP INC.
 GEOPHYSICAL COMPILATION MAP
 Induced Polarization Zones/Contoured Mag. Values
 CARIBOO GOLD PROPERTY, Cariboo M.D., B.C.
 J-1, CASCA 1, CASCA 2, CASCA 3, CASCA 4 Claims

SCALE = 1 : 5000 DATE : Sept 1995
 SURVEY BY : PAC/MRB/DH NTS : 93A/13E/14W
 FILE: Magnobl
 Pacific Geophysical Ltd.

Line 500 N

Dipole-Dipole Array



RESISTIVITY
(ohm)

OBS. CHARGEABILITY
(micro)

METAL FACTOR
(microsec)

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operators : PAC

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

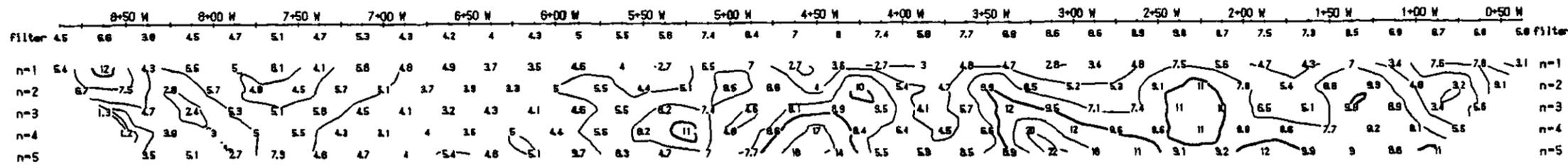
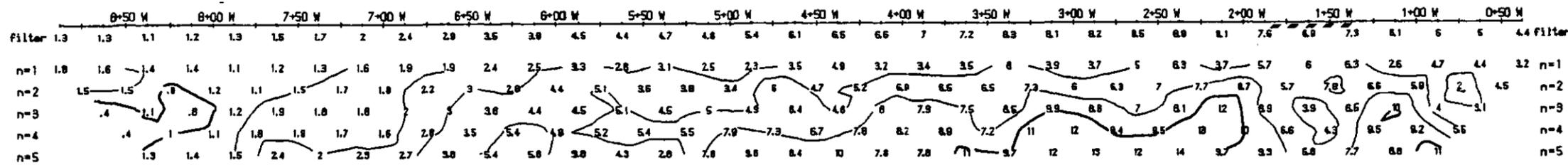
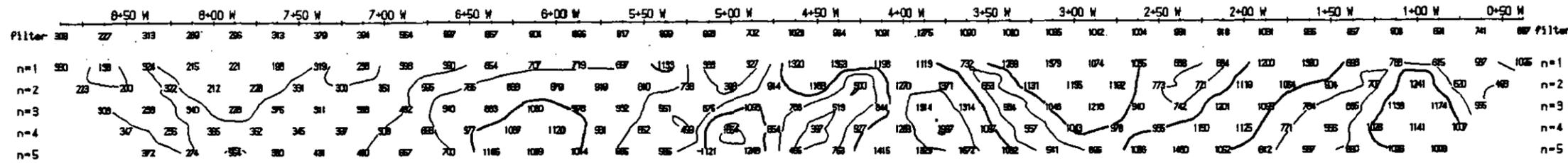
NOBLE METAL GROUP INC.

INDUCED POLARIZATION SURVEY

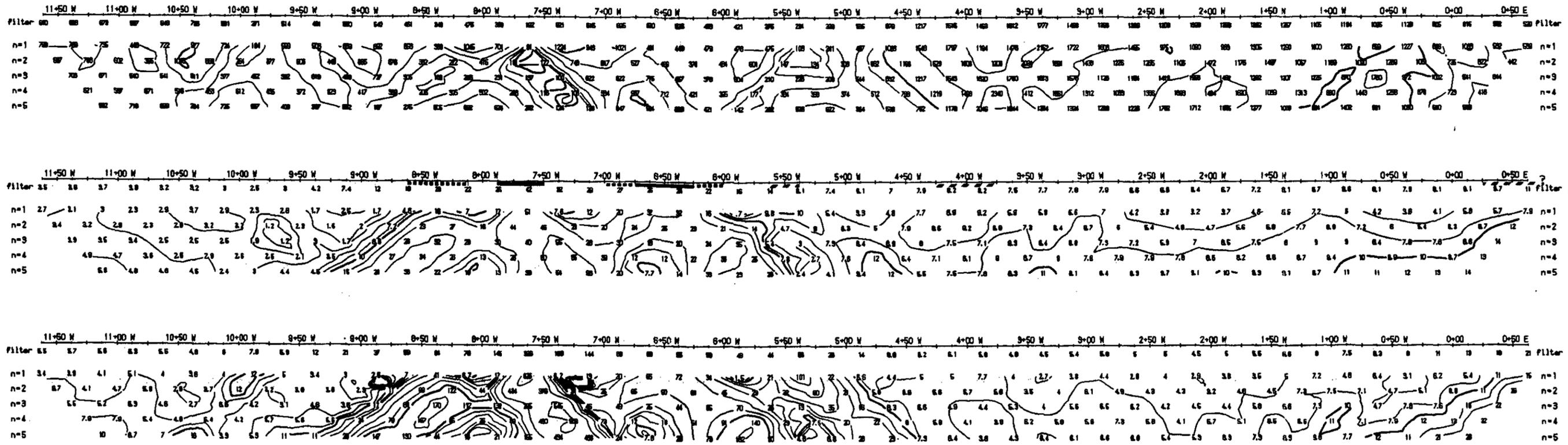
Line 500 N
11, STUI, CASCA 2-4 Cls, Cariboo N.D., B.C.

Date: Sept 85
Interpretation by: PAC
Scale 1:3000

Pacific Geophysical



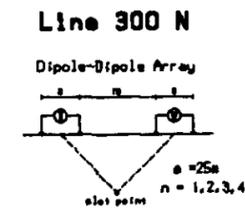
Geophysical Software for the Earth Sciences, Toronto, Canada



RESISTIVITY
(ohm-m)

OBS. CHARGEABILITY
(micro)

METAL FACTOR
(micro/msec = 10000)



Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operators : NRB

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

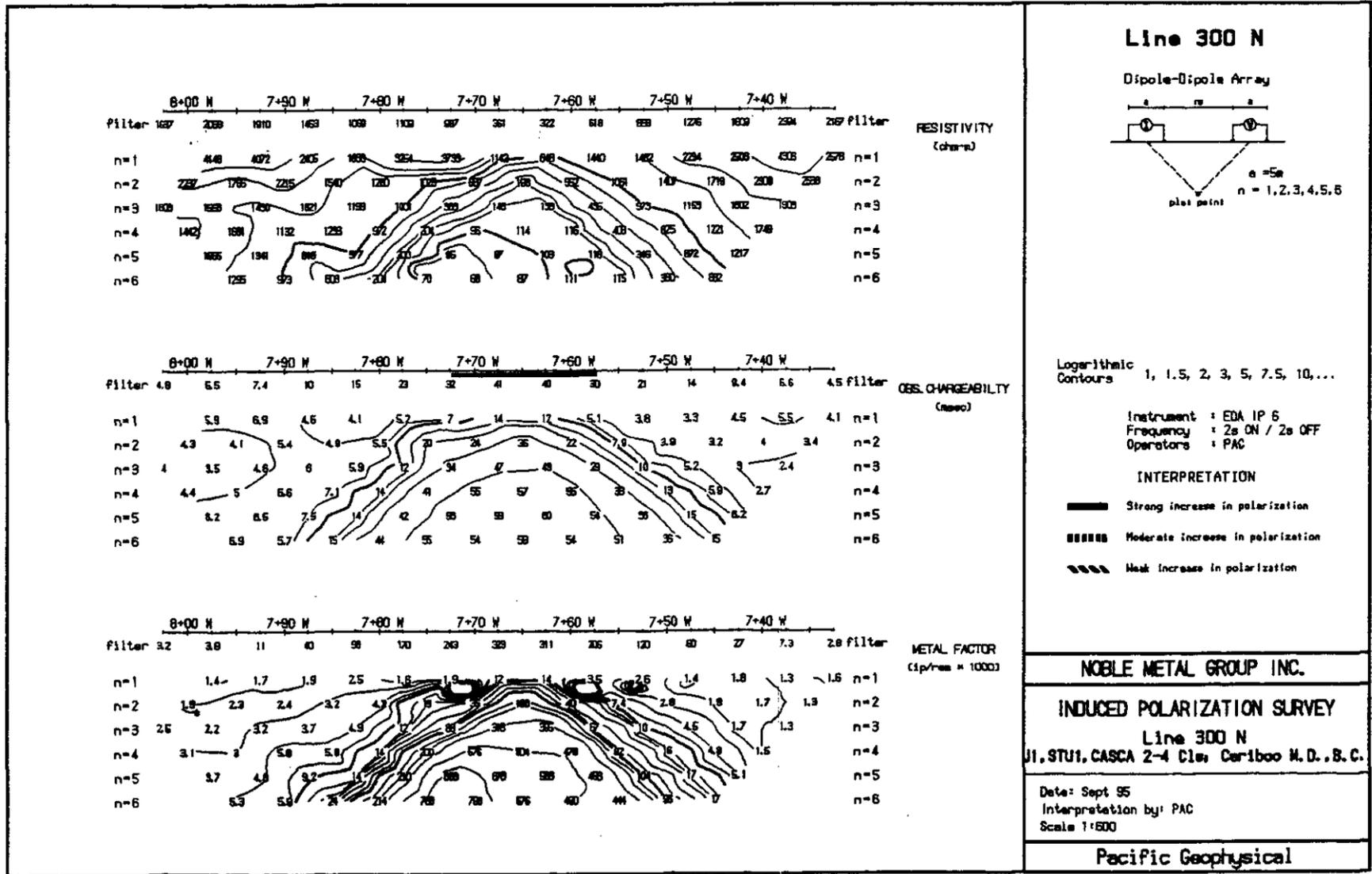
NOBLE METAL GROUP INC.

INDUCED POLARIZATION SURVEY

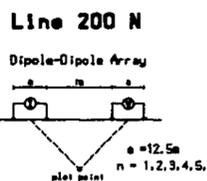
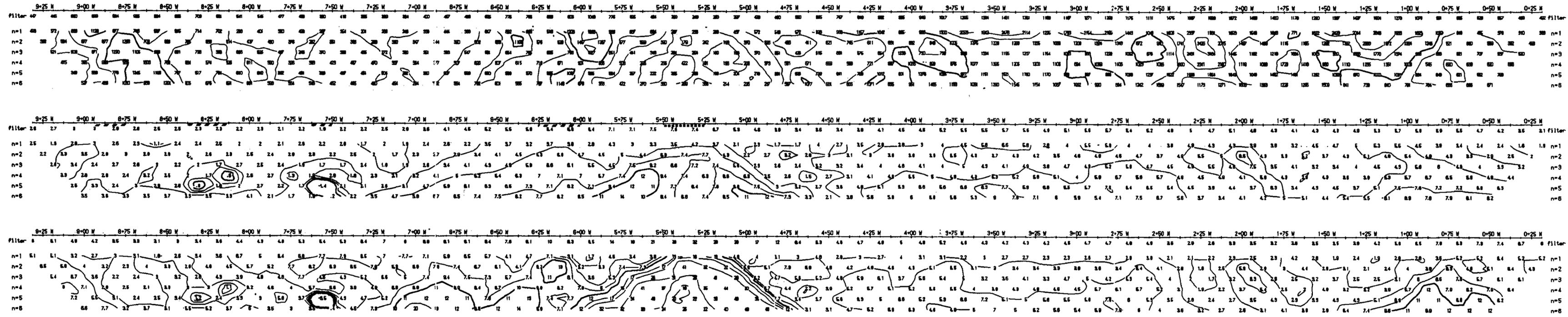
Line 300 N
J1, STUI, CASCA 2-4 Cies Cariboo N.D., B.C.

Date: Sept 95
Interpretation by: PAC
Scale 1:3000

Pacific Geophysical



RESURF (1.0) Software for the Earth Sciences, Toronto, Canada



Logarithmic Contours: 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: EDA IP 6
 Frequency: 20 OH / 20 OFF
 Operators: MFB

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization

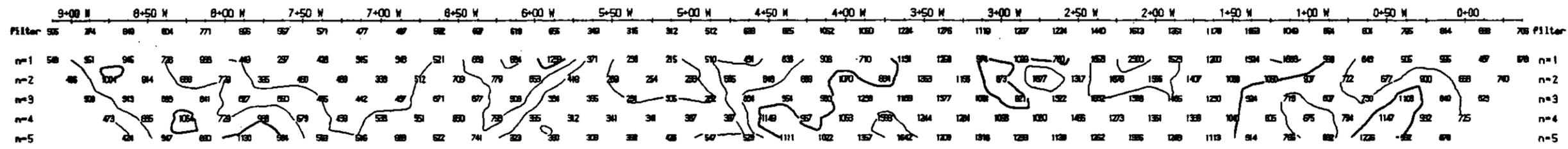
NOBLE METAL GROUP INC.

INDUCED POLARIZATION SURVEY

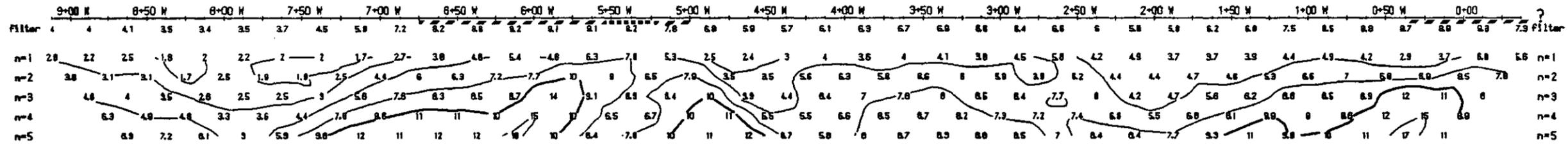
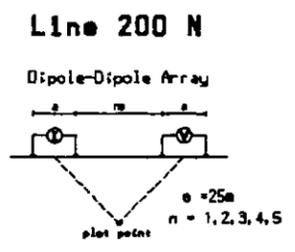
Line 200 N
 J1, STU1, CASCA 2-4 Cls, Cariboo M.D., B.C.

Date: Sept 95
 Interpretation by: PAC
 Scale: 1:1500

Pacific Geophysical



RESISTIVITY
(Ohm-m)



OBS. CHARGEABILITY
(%)

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

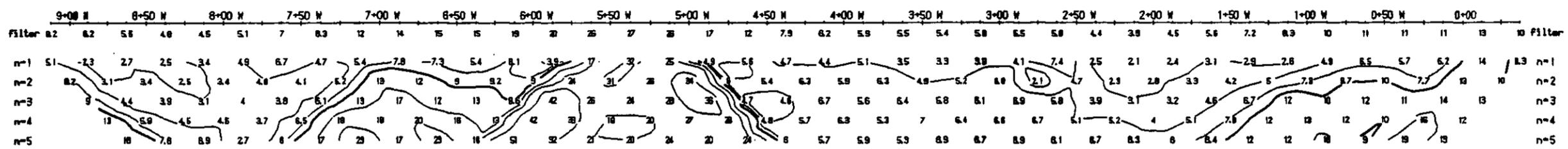
Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operators : NRB

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization



METAL FACTOR
(1p/ma x 1000)

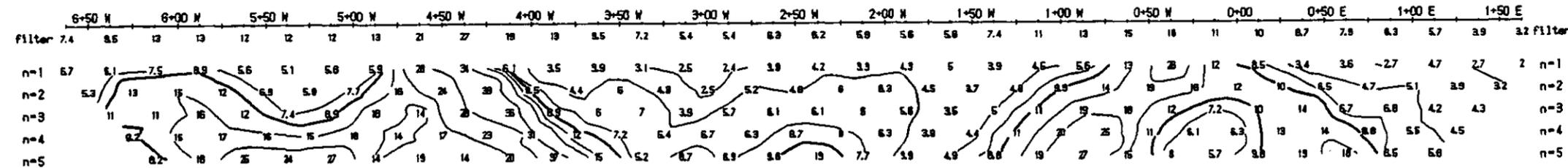
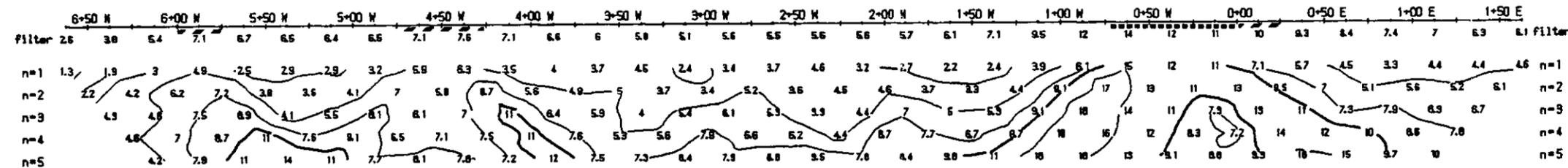
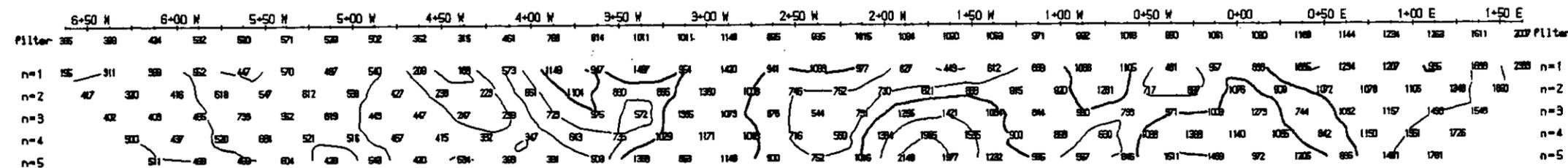
NOBLE METAL GROUP INC.

INDUCED POLARIZATION SURVEY

Line 200 N
J1, STUI, CASCA 2-4 Cls, Cariboo N.D., B.C.

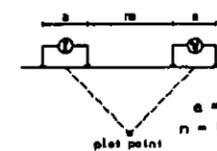
Date: Sept 95
Interpretation by: PAC
Scale 1:3000

Pacific Geophysical



Line 100 N

Dipole-Dipole Array



RESISTIVITY (ohm-m)

OBS. CHARGEABILITY (percent)

METAL FACTOR (percent)

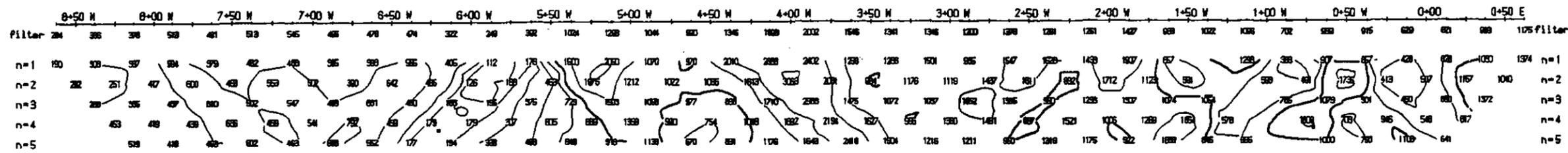
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operators : PAC

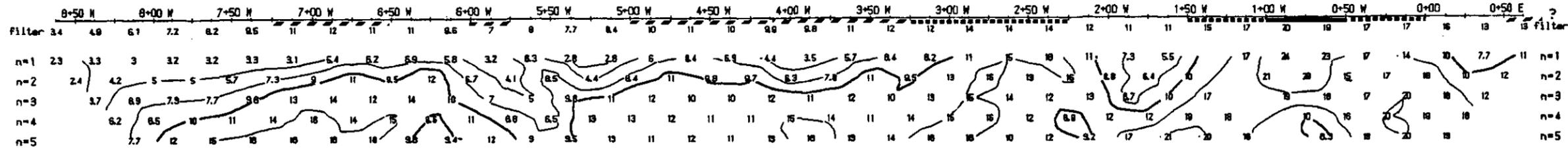
INTERPRETATION
 ■■■■■ Strong increase in polarization
 ■■■■■ Moderate increase in polarization
 ~~~~~ Weak increase in polarization

**NOBLE METAL GROUP INC.**  
**INDUCED POLARIZATION SURVEY**  
 Line 100 N  
 11, STU1, CASCA 2-4 Clm, Cariboo N.D., B.C.  
 Date: Sept 95  
 Interpretation by: PAC  
 Scale 1:3000  
**Pacific Geophysical**

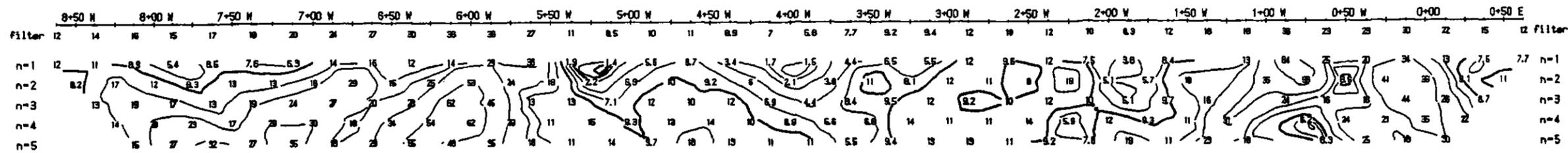
Geophysical (10) Software for the Earth Sciences, Toronto, Canada



RESISTIVITY  
(ohm-m)



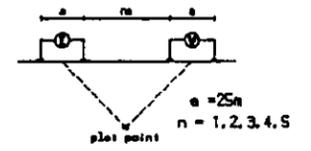
OBS. CHARGEABILITY  
(%)



METAL FACTOR  
(cp/res = 1000)

Line 0

Dipole-Dipole Array



Logarithmic  
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6  
Frequency : 2s ON / 2s OFF  
Operators : PAC

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

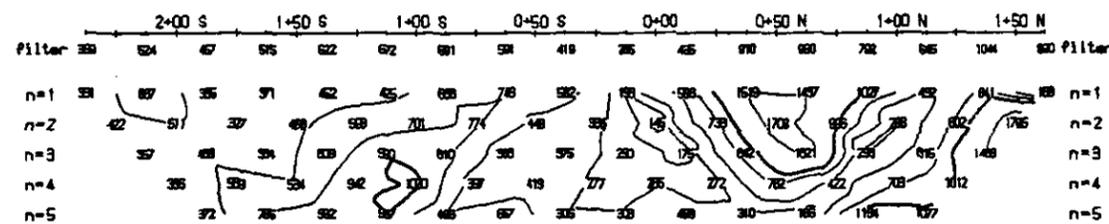
NOBLE METAL GROUP INC.

INDUCED POLARIZATION SURVEY

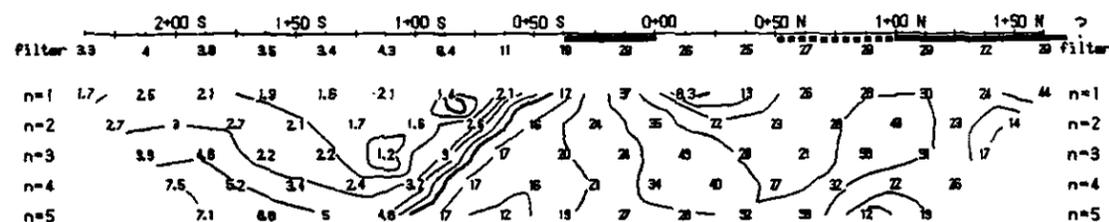
Line 0  
JL STUI, CASCA 2-4 Cls, Cariboo N.D., B.C.

Date: Sept 95  
Interpretation by: PAC  
Scale 1:3000

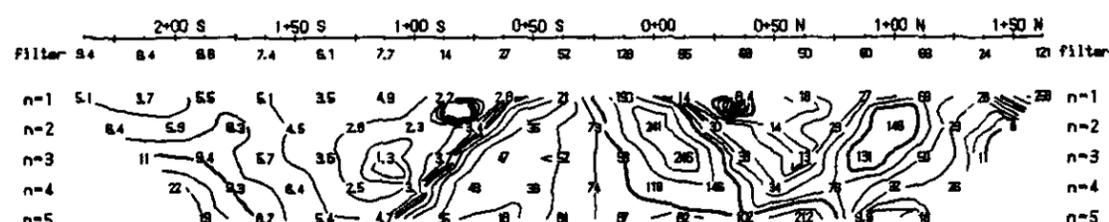
Pacific Geophysical



RESISTIVITY  
(ohm-m)



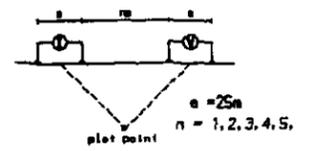
OBS. CHARGEABILITY  
(%)



METAL FACTOR  
( $\mu p/m$  = 1000)

**Line 100 E**

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6  
Frequency : 2s ON / 2s OFF  
Operators : PAC

**INTERPRETATION**

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

NOBLE METAL GROUP INC.

**INDUCED POLARIZATION SURVEY**

Line 100 E  
11, STU1, CASCA 2-4C1e, Cariboo N.D..B.C..

Date: Sept 95  
Interpretation by: PAC  
Scale 1:3000

Pacific Geophysical

ESDP 1127 Software for the Earth Sciences, Toronto, Canada