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FILE NO:	

HAIDA PROPERTY
VOLUME III

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,014
Part 3 of 3

APPENDIX VI
PACIFIC GEOPHYSICS LTD. 1989 REPORT

PACIFIC GEOPHYSICAL LTD.

REPORT ON THE

INDUCED POLARIZATION AND RESISTIVITY SURVEY,
MAGNETIC SURVEYS, AND VLF-EM SURVEYS

ON THE

HAIDA GOLD PROJECT
MAIN GRID, EAST GRID, WEST GRID
KAMLOOPS MINING DIVISION, BRITISH COLUMBIA

FOR

TECK EXPLORATIONS LTD.

LATITUDE : 51°31'N LONGITUDE : 120°24'W

N.T.S. 92P 8/9

BY

GRANT D. LOCKHART, B.Sc.
Geophysicist

AND

PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: DECEMBER 22, 1989

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PART B ILLUSTRATIONS

Location and Claim Map FIGURE 1

MAIN GRID

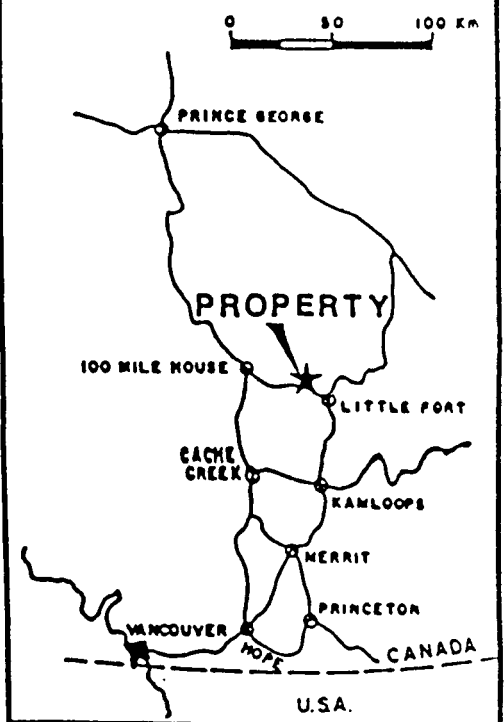
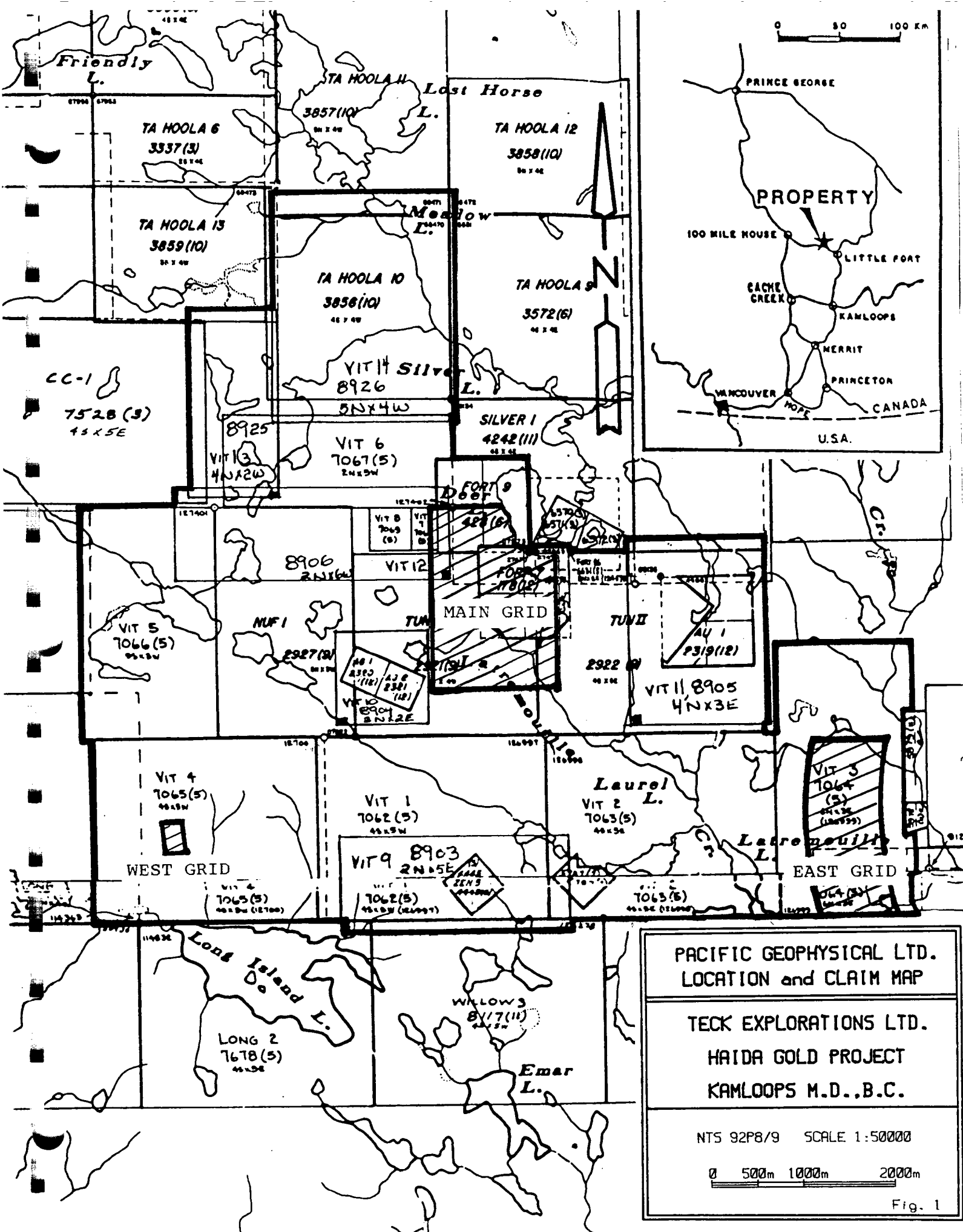
IP Pseudosection Data Plots	15 Sections
Contoured Magnetics and IP Interpretation 1:5000 Scale Plan Map	C/MAIN.EXT
Posted Profile Magnetics 1:2500 Scale Plan Map	PMAIN.EXT
VLF-EM Profile 1:5000 Scale Plan Map	VPPMAIN.EXT
VLF-EM Posted Profile 1:2500 Scale Plan Map	VPMAIN.EXT
VLF-EM Contoured Fraser Filter 1:5000 Scale Plan Map	C/VFMAIN.EXT

EAST GRID

Contoured Magnetics 1:5000 Scale Plan Map . . C/MEAST.EXT
VLF-EM Profile 1:5000 Scale Plan Map VPEAST.EXT
VLF-EM Contoured Fraser Filter
1:5000 Scale Plan Map C/VFEAST.EXT

WEST GRID

Contoured Magnetics 1:2500 Scale Plan Map . . C/MWEST.EXT
VLF-EM Profile 1:2500 Scale Plan Map VPWEST.EXT
VLF-EM Contoured Fraser Filter
1:2500 Scale Plan Map C/VFWEST.EXT



PACIFIC GEOPHYSICAL LTD.
 LOCATION and CLAIM MAP

TECK EXPLORATIONS LTD.
 HAIDA GOLD PROJECT
 KAMLOOPS M.D., B.C.

NTS 92P8/9 SCALE 1:50000

0 500m 1000m 2000m

Fig. 1

1. INTRODUCTION

Total field magnetometer and Very Low Frequency Electro-Magnetic (VLF-EM) surveys have been carried out on the Haida Gold Project's Main Grid, East Grid and West Grid on behalf of Teck Explorations Ltd. In addition, an Induced Polarization (IP) and resistivity survey has been completed on the Main Grid.

The Haida Gold property is located approximately 16 kilometers northwest of Little Fort, British Columbia. All grids are accessible via Highway 24. The Taweel Forestry road leads northwest to the Main Grid, from Highway 24, the southwestern corner of the East Grid reaches Highway 24, and an old mining road, walked from Highway 24, leads to the West Grid.

Previous work has included numerous small pits and adits dating back to the 1930's. Recent work has included soil geochemistry, magnetometer, VLF-EM and IP geophysical surveying, as well as trenching and percussion and diamond drilling.

The objective of the present geophysical surveying was; first, on the Main Grid, to infill 1988 geophysical lines and thereby evaluate the Grid area for magnetite-pyrrhotite skarn mineralization known to have interesting Cu and Au values; second, to test the source of the East Grid's aero-magnetic anomaly for possible Au mineralization; and third, to evaluate the West Grid for the source of elevated polymetallic values

found in soils.

An EDA Model Omni Plus combined total field magnetometer-VLF-EM system together with an EDA Model Omni 4 base station magnetometer were used to make all magnetometer and VLF-EM measurements, employing a 25 meter station interval over the three geophysical survey grid areas. The Main Grid was surveyed using the NSS Annapolis, Md. (21.4 kHz) VLF-EM broadcasting station, while the East and West grids were surveyed using the NLK Seattle, Wash. (24.8 kHz) VLF-EM broadcasting station.

An EDA Model IP-6 six channel time domain IP and resistivity receiver using "mode 2 (TD = 120 ms, tp = 90 ms)", together with a Phoenix Model IPT-1 transmitter, that produced a two second on/two second off signal, were used to make the Main Grid IP and resistivity measurements. IP effects were recorded as chargeability in milliseconds while apparent resistivity values were normalized in units of ohm-meters. Pole-dipole array was utilized to make all of the measurements using an interelectrode distance of 50 meters recording four separations at each station.

IP fieldwork took place during the period October 19, 1989 to October 28, 1989, under the direction of Martin St. Pierre, geophysicist. Magnetometer and VLF-EM fieldwork was undertaken by Grant D. Lockhart, geophysicist, during the period October 28, 1989 to November 6, 1989. Certificates of qualification are

included in this report.

2. DESCRIPTION OF CLAIMS

The Haida Gold property is composed of 19 contiguous claims, totalling 230 units. Details are as follows:

Claim No.	Units	Record No.	Expiry Date
NUF 1	15	2927	9 September 1999
TUN 1	16	2921	8 September 1999
TUN 2	20	2922	8 September 1999
FORT 7	4	178	30 December 1995
FORT 9	4	428	25 June 1999
VIT 1	20	7062	29 May 1999
VIT 2	20	7063	29 May 1997
VIT 3	18	7064	29 May 1997
VIT 4	20	7065	29 May 1999
VIT 5	15	7066	29 May 1998
VIT 6	10	7067	29 May 1999
VIT 7	1	7068	29 May 1998
VIT 8	1	7069	29 May 1997
VIT 9	10	8903	30 September 1990
VIT 10	4	8904	2 October 1990
VIT 11	12	8905	3 October 1990
VIT 12	12	8906	2 October 1990
VIT 13	8	8925	25 October 1990
VIT 14	20	8926	26 October 1990

Electrum Resources Limited is the owner of these claims. Vital Pacific Resources Limited has an option and Teck Explorations Ltd. is the current operator of the claims.

3. PROPERTY GEOLOGY

The following summary of the property geology has been

provided by Tor Bruland, consulting geologist for Teck Explorations Ltd.

"The property is mainly underlain by NW-SE trending upper-Triassic to lower Jurassic Nicola Group volcanics and sediments. The sequence, which is dominated by fine grained argillite, chert, tuff and limestone in the SW and andesite and volcanoclastics in the NE, dips steeply to the SW. The limestone, 0.5 - 2m thick, can be up to 10 m in thickness.

This sequence has been intruded by four intrusive episodes forming the Thuya Batholith in the south, and several granodiorite, diorite and gabbro stocks throughout the property. The age of the intrusives is uncertain but is believed to be coeval to the Nicola volcanics. The area has been through several episodes of faulting, creating a mosaic of fault blocks. The ages of the faulting are pre to post intrusive.

The best known mineralization on the property to date is hosted by a diopside-garnet skarn at the contact between diorite and limestone. The magnetite-pyrrhotite rich parts of the skarns host Cu and Au mineralization.

Additional mineralization is located in a 1 to 2m wide manganese stained diorite intrusive breccia hosted by limestone

and argillite/tuff. This is a polymetallic mineralization with galena, sphalerite and arsenopyrite."

4. PRESENTATION OF DATA

a) Main Grid

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

Line	Electrode Interval	Reading Interval (Outermost Electrodes)
1100W	50 meters	1500S - 1000S, 750S - 500N (1750m)
1000W	50 meters	1500S - 900S (600m)
900W	50 meters	1500S - 500N (2000m)
800W	50 meters	1500S - 750S (750m)
700W	50 meters	1500S - 500N (2000m)
600W	50 meters	1500S - 750S (750m)
500W	50 meters	1500S - 500N (2000m)
400W	50 meters	1500S - 750S (750m)
300W	50 meters	1500S - 500N (2000m)
200W	50 meters	1500S - 750S (750m)
100W	50 meters	1525S - 475N (2000m)
0	50 meters	1500S - 750S (750m)
100E	50 meters	1500S - 400N (1900m)
200E	50 meters	1500S - 850S (650m)
300E	50 meters	1500S - 200N (1700m)

The total field magnetometer measurements are presented in the form of a contoured 1:5000 scale plan map (C/MAIN.EXT), that includes the IP interpretation, selected VLF-EM conductors, and reinterpreted 1988 IP data. The strong, moderate, and weak IP anomalies are indicated by bars, in the manner shown on the plan map legend, as well as on the pseudosections. These bars

represent the surface projection of the anomalous zones interpreted from the transmitter and receiver electrode locations when the anomalous values were measured.

Also enclosed in this report is PMAIN.EXT, a 1:2500 scale posted profile plan map of the magnetometer measurements.

Line profiles of the VLF-EM inphase and quadrature data are shown on plan map VPPMAIN.EXT at a scale of 1:5000 while the posted line profiles are shown on VPMAIN.EXT at a scale of 1:2500. In addition, contoured Fraser filter values are shown on plan map C/VFMAIN.EXT at a scale of 1:5000.

b) East Grid

The total field magnetometer measurements are presented in the form of a contoured plan map (C/MEAST.EXT) at a scale of 1:5000.

Line profiles of the VLF-EM inphase and quadrature data, and the contoured inphase Fraser filter values are presented on plan maps VPEAST.EXT and C/VFEAST.EXT, respectively, at a scale of 1:5000.

c) West Grid

The total field magnetometer values are presented in the form of a contoured plan map (C/MEAST.EXT) at a scale of 1:2500.

Line profiles of the VLF-EM inphase and quadrature data and the contoured inphase Fraser filter values are presented on plan maps VPWEST.EXT and C/VPWEST.EXT, respectively, at a scale of 1:2500.

5. DISCUSSION OF RESULTS

The interpretation of the present geophysical survey results from Main, East, and West Grids follows:

a) Main Geophysical Grid

Nine zones of anomalous IP effects are interpreted to be present in the data and are illustrated on plan map C/MAIN.EXT.

IP Zone A outlines an extensive area of elevated IP effect. Four interesting areas, where locally strong magnetic responses have coincident anomalous VLF-EM and IP conductivity results, are present within IP Zone A. Signatures of this type may be indicative of locally massive sulphides such as pyrrhotite, together with poddy magnetite mineralization. These areas are indicated on plan map C/MAIN.EXT by the VLF-EM conductor axes

$V_1-V_2-V_3$, V_4 , V_5-V_6 , and V_7 . Typically, the high magnitude magnetometer and VLF responses indicate narrow features compared to the broadly anomalous IP chargeability and IP conductivity responses. The 50 meter IP interelectrode spacing appears to be too large an array to resolve narrow pyrrhotite veins.

IP Zone A_1 and A_2 are characterized by moderate magnitude chargeability values and higher-than-background resistivity values. The VLF-EM conductor that does overlie IP Zone A_1 is interpreted to be a near surface effect, possibly caused by a swamp, whereas the source of both IP Zone A_1 and A_2 appears to be buried in excess of 50 meters subsurface.

IP Zone B outlines a relatively narrow feature that strikes northwest across the south-western part of the geophysical grid. Moderate to strong amplitude near surface IP values sometimes display the characteristic IP "pant-leg" shape that indicates a narrow source relative to the 50 meter dipole length. Strong magnetic and VLF-EM responses are coincident with the high magnitude chargeability values. A possible source of IP Zone B may be the ultra-mafic rocks exposed by recent trenching. Metallic sulphide material may also be contributing to the anomalous IP effects. Swampy ground is the probable cause for the VLF-EM response.

IP Zone C is characterized by high magnitude near surface chargeability values with coincident moderately strong VLF-EM responses. The VLF-EM signature is inconsistent with the background level conductivity observed in the resistivity data and it is thought to be the result of a terrain effect where a true crossover can be observed on hill tops. IP Zone C remains open to the south and west and its source is unknown.

IP Zones D, E, F and G are outlined by weak to strong magnitude IP values. IP Zone D is poorly constrained to the south. IP Zone E remains open to the southeast. The sources of these IP trends are unknown.

b) East Geophysical Grid

A highly magnetic response characterizes the southwestern part of the East geophysical grid. It has been interpreted to be caused by a strongly magnetic ultra mafic rock unit which is known to be present. All of the higher magnitude VLF-EM responses are almost certainly due to the presence of observed swamps, the most notable of which strikes north-south across the western portion of the geophysical grid in the vicinity of Station 3150E between Line 3000S to Line 1900S. Other apparent swamp responses occur near Station 3250E on Line 3200S, Station 3750E on Line 3500S, and Station 3400E on Line 1900S. In

addition to the swamp induced VLF-EM responses, the other VLF-EM features appear to be terrain related.

c) West Geophysical Grid

A low amplitude magnetic trend is interpreted to strike northwest across the East geophysical grid, and appears to be associated with a moderately anomalous VLF-EM feature. Such a signature may indicate a mineralized fault structure. It is also noted that the northwestern portion of the VLF-EM trend may be accentuated by terrain effect.

6. SUMMARY AND RECOMMENDATIONS

A geophysical surveying program, including induced polarization and resistivity, total field magnetometer, and very low frequency electro-magnetics, has been completed on the Haida Gold Project by Pacific Geophysical Ltd. on behalf of Teck Explorations Ltd. Summary and recommendations of the geophysical surveying from the Main, East and West Grids follow:

a) Main Geophysical Grid

Nine zones of anomalous IP effects are interpreted to be present in the data and they are illustrated on plan map

C/MAIN.EXT.

Four areas of coincident anomalous magnetic and VLF-EM are incorporated in IP Zone A. Detail IP is recommended to resolve the extensions of the narrow pyrrhotite veins found in the vicinity of the VLF-EM conductors V_1 , V_2 and V_3 . This detailing should start from the main zone and progress outward in an attempt to follow the trend of mineralization beneath the deepening cover. One line of detailed IP across V_4 and additional lines around V_7 is recommended to further evaluate these areas for sulphide potential. The area surrounding the VLF-EM conductors V_5 and V_6 appears to have been adequately tested by previous operators.

The IP response of both IP Zone A_1 and A_2 indicate sources buried in excess of 50 meters. Considering the absence of an anomalous magnetic signature, a low drilling priority should be given to these zones at the present time.

IP Zone B is characterized by anomalously high amplitude IP and magnetic values. It is the writers' understanding that this zone will be tested by percussion drilling.

IP Zone C is characterized by a strong IP signature with no anomalous magnetic responses. Should other information prove

encouraging, further IP surveying should be considered to close IP Zone C to the south and west.

The numerous other IP zones lack anomalous magnetometer and VLF-EM responses and, therefore, should be considered as low priority for other work at this present time.

Should the Haida Gold property be evaluated for a porphyry system, IP surveying on a larger scale would be required in order to cover the property and define any large scale sulphide-bearing zones. The "big picture" philosophy requires that the IP array be opened up to, for example, 100 meter electrode spacings and 200 meter spaced lines.

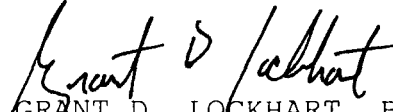
b) East Geophysical Grid

A high magnitude magnetic trend, lacking an anomalous VLF-EM response, is coincident with an aero-magnetic anomaly. An ultra-mafic containing little sulphides has been mapped in the area and it is the probable source of the magnetometer response. Unless there is other encouraging information, no further work is recommended.

c) West Geophysical Grid

A low amplitude magnetic trend is associated with a moderately anomalous VLF-EM response. This feature may be indicative of a mineralized fault structure - the source of elevated polymetallic values in soils. Detail IP is recommended, prior to drilling, in order to determine whether the VLF-EM conductor source is metallic or ionic.

PACIFIC GEOPHYSICAL LTD.


GRANT D. LOCKHART, B.Sc.
Geophysicist


PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: December 22, 1989

7. PERSONNEL:

IP FIELD CREW:

M. St. Pierre, 8621 Tulsy Crescent East, Surrey, B.C.

G. Sutton, 224 - 744 West Hastings St., Vancouver, B.C.

M. Cormier, 5512 Kings Road, Vancouver, B.C.

H. Munson, 224 - 744 West Hastings St., Vancouver, B.C.

MAGNETOMETER AND VLF-EM FIELD CREW:

G. Lockhart, 301 - 2232 West 5th Avenue, Vancouver, B.C.

DRAFTSMEN:

M. St. Pierre, 8621 Tulsy Crescent East, Surrey, B.C.

G. Lockhart, 301 - 2232 West 5th Avenue, Vancouver, B.C.

CONSULTANTS:

G. Lockhart, 301 - 2232 West 5th Avenue, Vancouver, B.C.

P. Cartwright, 4238 West 11th Avenue, Vancouver, B.C.

PACIFIC GEOPHYSICAL LTD.



PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: December 22, 1989

8. STATEMENT OF COST

A. Induced Polarization and Resistivity Survey

Crew: M. St. Pierre, G. Sutton, M. Cormier, H. Manson
Period: October 19, 1989 to October 28, 1989

9½ Operating Days @ \$1,375.00 (20.35 km)	\$13,062.50
Mobilization - Demobilization	<u>2,500.00</u>
	\$15,562.50

B. Total Field Magnetometer and VLF-EM Survey

Crew: G. Lockhart
Period: October 28, 1989 to November 6, 1989

Data Acquisition 46.9 1.km @ \$160.00	\$ 7,504.00
Data Plotting 46.9 1.km @ \$ 25.00	<u>1,172.50</u>
	\$ 8,676.50

C. Interpretation, Report Preparation, and Report Reproduction Costs

\$ 2,000.00

\$26,239.00

PACIFIC GEOPHYSICAL LTD.

Paul A. Cartwright

PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: December 22, 1989

9. CERTIFICATE

I, Grant D. Lockhart, of the City of Vancouver, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 301, 2232 West 5th Avenue, Vancouver, B.C.
2. I am a graduate of the University of British Columbia, with a B.Sc. Degree (1987).
3. I am a member of the Society of Exploration Geophysicists, and the Canadian Society of Exploration Geophysicists.
4. I have been practising my profession for 2.5 years.
5. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Teck Explorations Ltd., Electrum Resources Ltd. or Vital Pacific Resources Ltd., or any affiliates.
6. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED AT VANCOUVER, BRITISH COLUMBIA this 22nd day of December, 1989.



GRANT D. LOCKHART, B.Sc.

10. CERTIFICATE

I, Martin St. Pierre, of the City of Surrey, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 8621 Tulsy Crescent East, Surrey, British Columbia.
2. I am a graduate of McGill University, Montreal, Quebec with a B.Sc. Degree (1984).
3. I have been practicing my profession for five years.
4. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Teck Explorations Ltd., Electrum Resources Ltd., or Vital Pacific Resources Ltd. or any affiliates.
5. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED at Vancouver, British Columbia this 22nd day of December 1989.

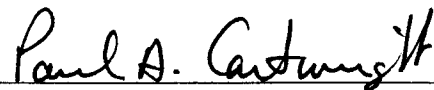
Martin St. Pierre per *MS*
MARTIN ST. PIERRE, B.Sc.

11. CERTIFICATE

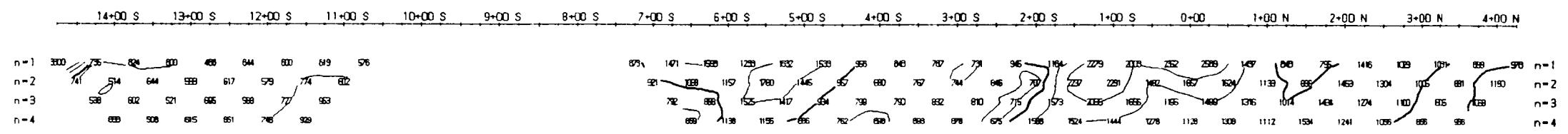
I, Paul A. Cartwright, of the City of Vancouver, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 4234 West 11th 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, the European Association of Exploration Geophysicists and the Canadian Society of Exploration Geophysicists.
4. I have been practicing my profession for 19 years.
5. I am a Professional Geophysicist licensed in the Province of Alberta.
6. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Teck Explorations Ltd., Electrum Resources Ltd., or Vital Pacific Resources Ltd. or any affiliates.
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DATED at Vancouver, British Columbia this 22nd day of December 1989.

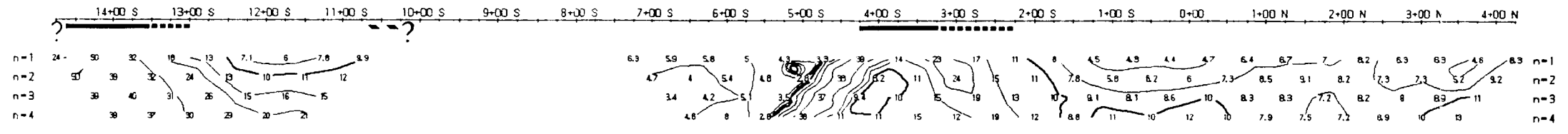
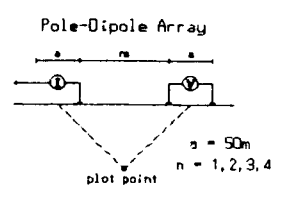


PAUL A. CARTWRIGHT, P.Geoph



RESISTIVITY
(ohm-m)

Line 1100 W



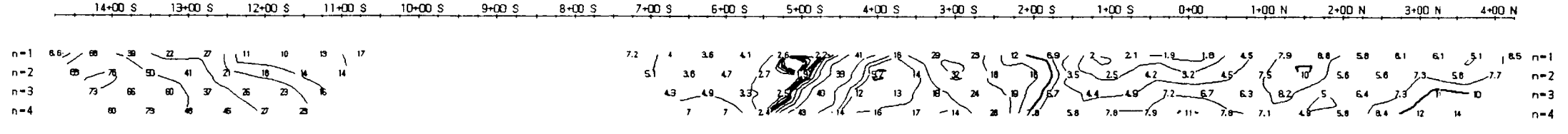
OBS. CHARGEABILITY
(msec)

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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : W St.P

INTERPRETATION

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



METAL FACTOR
(ip/res * 1000)

TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

Date: October 1989 NTS: 92P8/9
Interpretation by: PAC/W St.P

Pacific Geophysical

RESIST (Ge) Software for the Earth Sciences, Toronto, Canada

14+00 S 13+00 S 12+00 S 11+00 S 10+00 S

n=1	660	644	746	466	608	630	1585	687	900	668	568	n=1
n=2	640	705	518	624	722	1095	806	686	601	686	n=2	
n=3	728	514	597	638	1054	721	623	585	617	n=3		
n=4		504	586	578	916	778	688	628	572	n=4		

RESISTIVITY
(ohm.m)

14+00 S 13+00 S 12+00 S 11+00 S 10+00 S

n=1	44	34	20	13	7.5	4.7	6.9	5.8	9.3	12	6.5	n=1
n=2	41	35	22	14	9.4	7.2	8.1	11	9.3	8.5	n=2	
n=3	34	32	22	16	12	11	14	11	8	n=3		
n=4		28	31	23	15	18	17	12	6.8	n=4		

OBS. CHARGEABILITY
(msec)

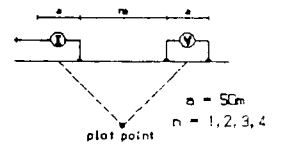
14+00 S 13+00 S 12+00 S 11+00 S 10+00 S

n=1	67	54	27	27	12	7.6	5.4	6.3	16	16	12	n=1
n=2	68	48	42	22	13	7	10	16	15	15	12	n=2
n=3		63	36	25	12	15	17	15	15	13	n=3	
n=4		57	51	40	18	24	20	20	12	n=4		

METAL FACTOR
(ip/res = 1000)

Line 1000 W

Pole-Dipole Array



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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

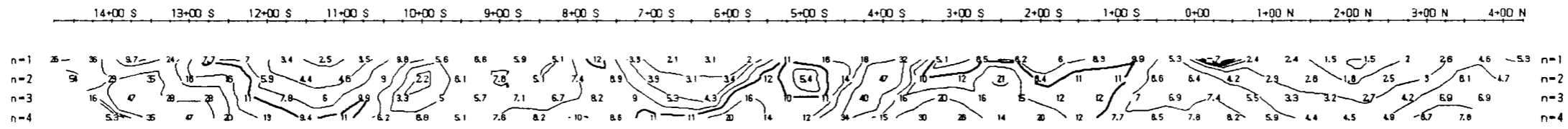
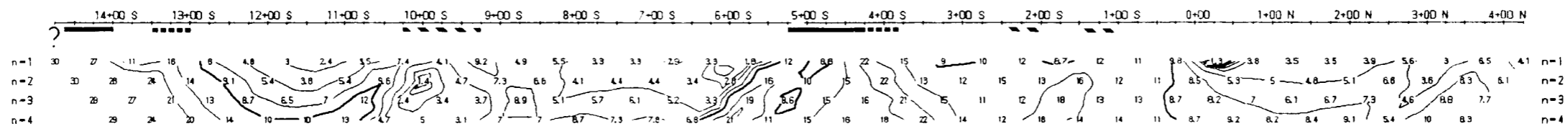
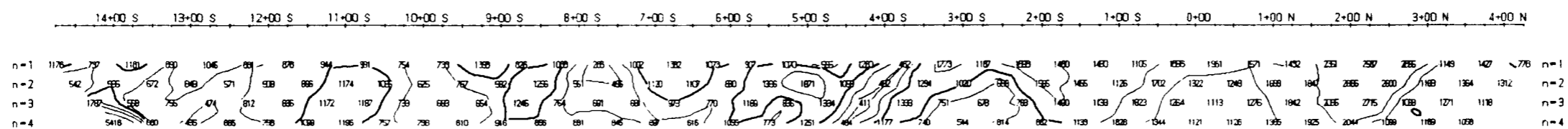
TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

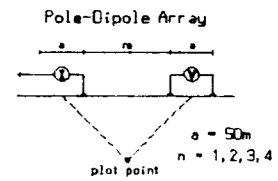
HAIDA GOLD PROPERTY

Date: October 1989 NTS: 92Pa/9
Interpretation by: PAC/M St.P

Pacific Geophysical



Line 900 W



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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

TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

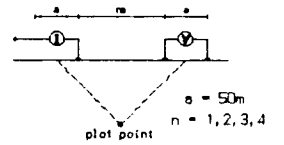
HAIDA GOLD PROPERTY

Date: October 1989 NTS: 92PB/9
Interpretation by: PAC/M St.P

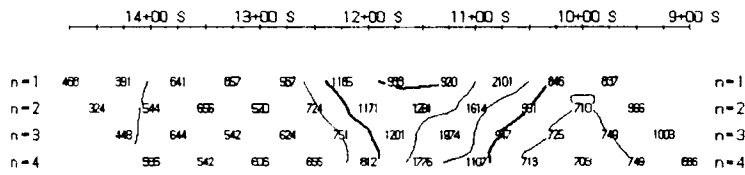
Pacific Geophysical

Line 800 W

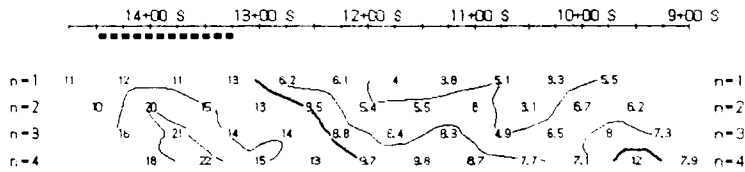
Pole-Dipole Array



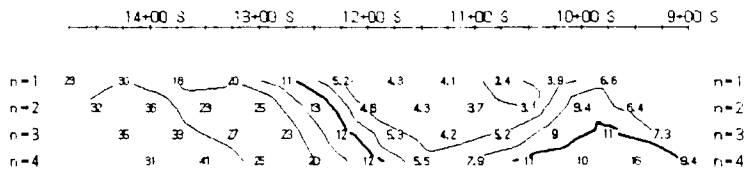
RESISTIVITY
(ohm.m)



OBS. CHARGEABILITY
(msec)



METAL FACTOR
(ip/res * 1000)



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

- ████████ Strong increase in polarization
- Moderate increase in polarization
- ▨▨▨▨ Weak increase in polarization

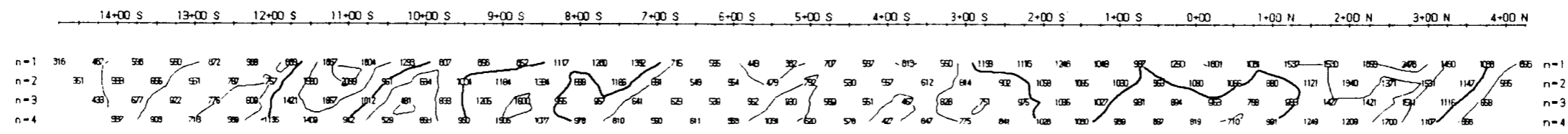
TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

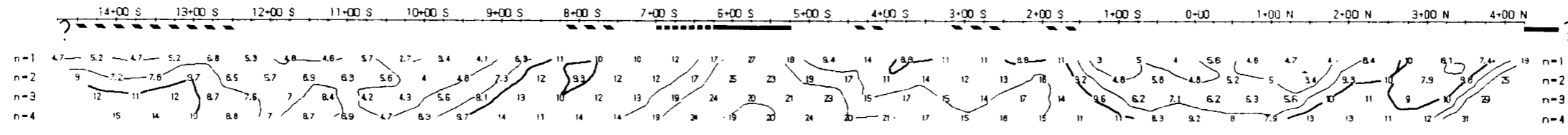
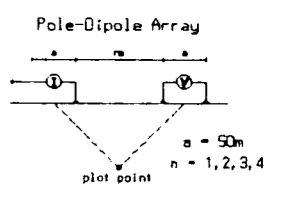
Date: October 1989 NTS: 92F8/9
Interpretation by: PAC/M St.P

Pacific Geophysical



RESISTIVITY
(ohm-m)

Line 700 W



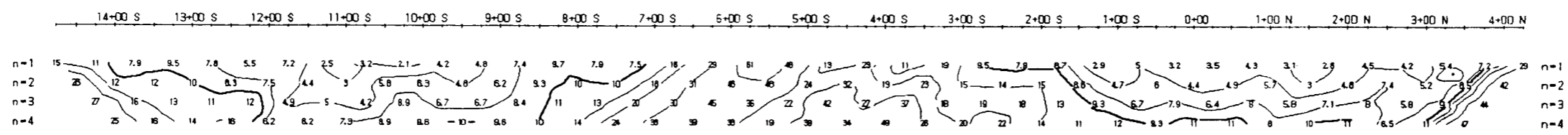
OBS. CHARGEABILITY
(msec)

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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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



METAL FACTOR
(ip/res * 1000)

TECK EXPLORATIONS LTD.

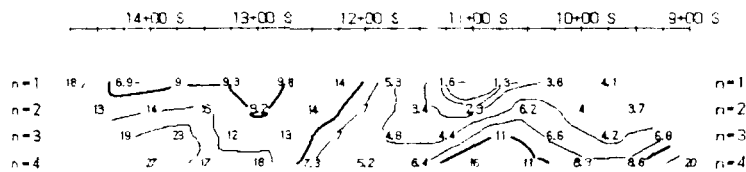
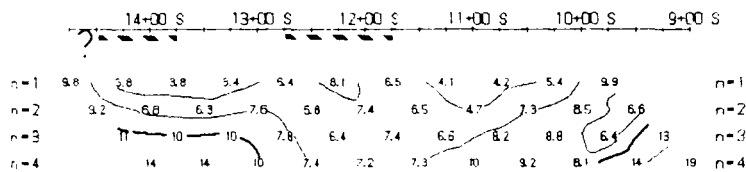
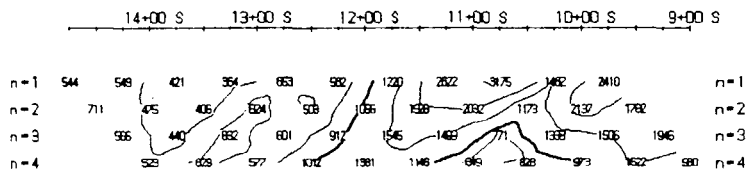
INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

Date: October 1989 NTS: 92P8/9
Interpretation by: PAC/M St.P

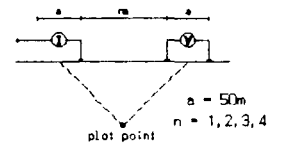
Pacific Geophysical

RESIST (Geo) Software for the Earth Sciences, Toronto, Canada



Line 600 W

Pole-Dipole Array



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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

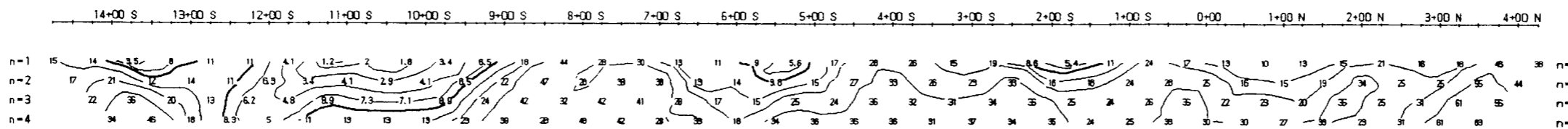
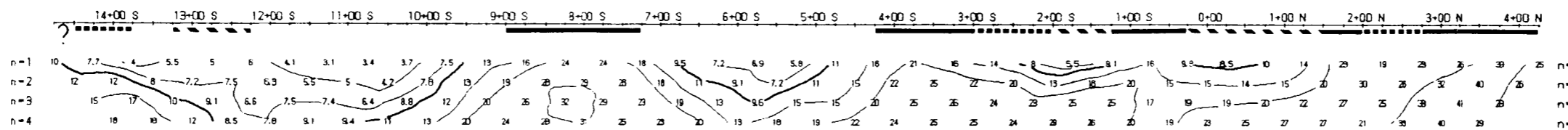
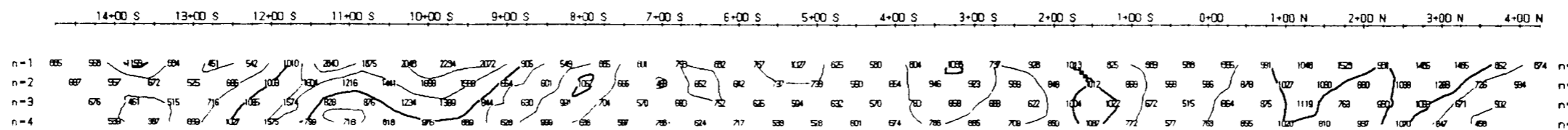
TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

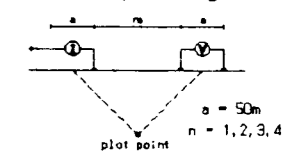
Date: October 1989 NTS: 92P8/9
Interpretation by: PAC/M St.P

Pacific Geophysical



Line 500 W

Pole-Dipole Array



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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

TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

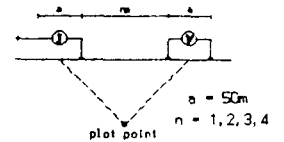
HAIDA GOLD PROPERTY

Date: October 1989 NTS: 92P8/9
Interpretation by: PAC/M St.P

Pacific Geophysical

Line 400 W

Pole-Dipole Array



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

Instrument : EDA IP 6
 Frequency : 2s ON / 2s OFF
 Operator : M St.P

INTERPRETATION

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

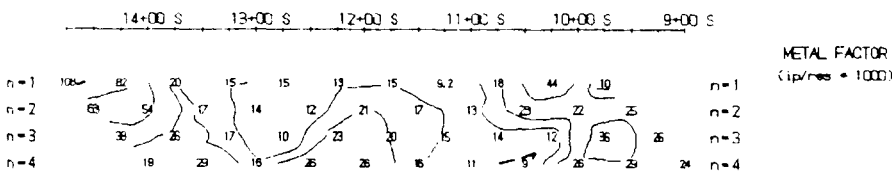
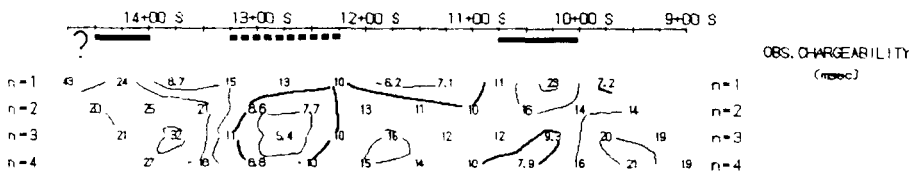
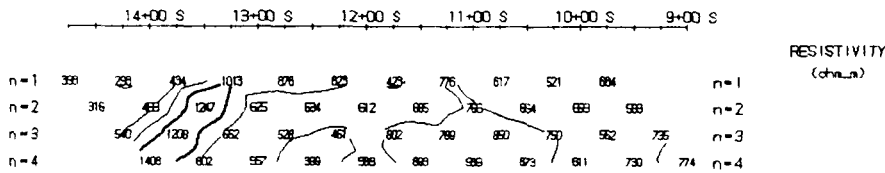
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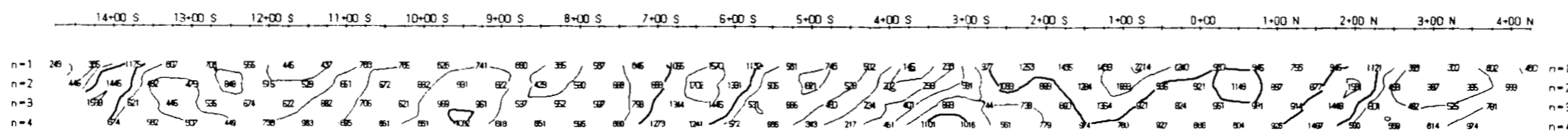
INDUCED POLARIZATION SURVEY

Haida Gold Property

Date: October 1989 NTS: 92P8/9
 Interpretation by: PAC/M St.P

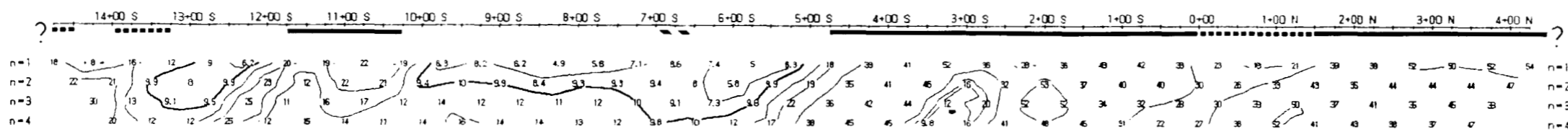
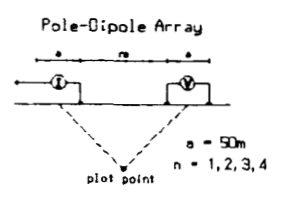
Pacific Geophysical





RESISTIVITY
(ohm.m)

Line 300 W



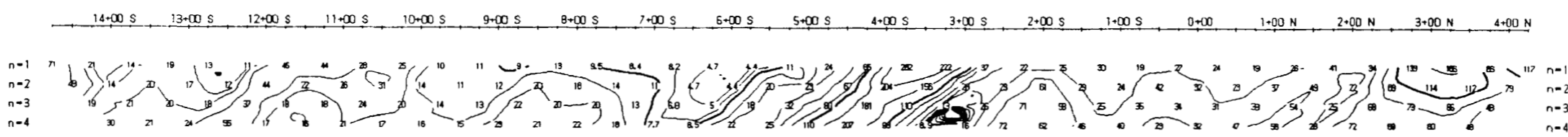
OBS. CHARGEABILITY
(%)

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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

- Strong increase in polarization
- ▒ Moderate increase in polarization
- ▓ Weak increase in polarization



METAL FACTOR
(ip/res * 1000)

TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

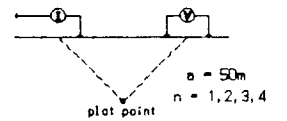
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Interpretation by: PAC/M St.P

Pacific Geophysical

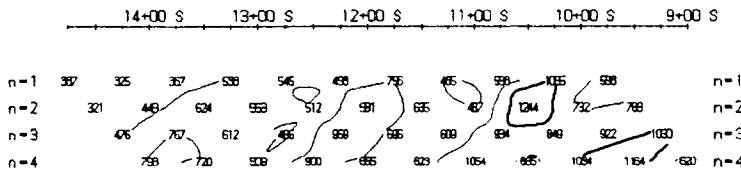
ST08P1 (Rev. 1) Software for the Earth Sciences, Toronto, Canada

Line 200 W

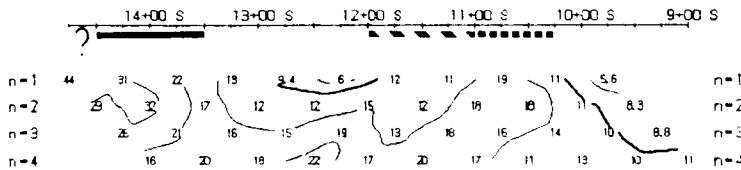
Pole-Dipole Array



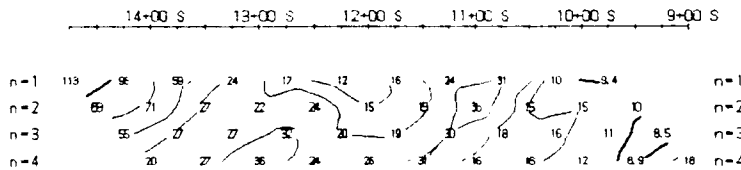
RESISTIVITY
(ohm.m)



OBS. CHARGEABILITY
(msec)



METAL FACTOR
(ip/res * 1000)



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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

TECK EXPLORATIONS LTD.

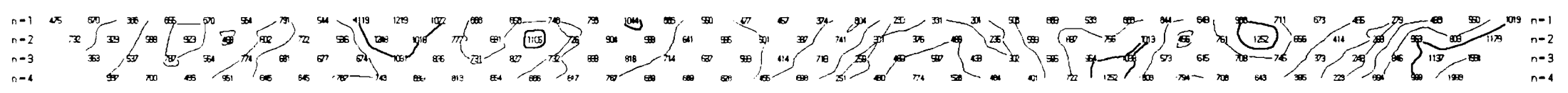
INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

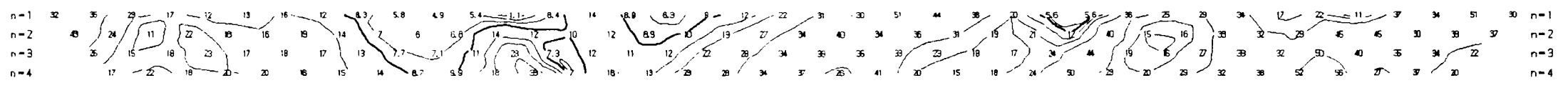
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Interpretation by: PAC/M St.P

Pacific Geophysical

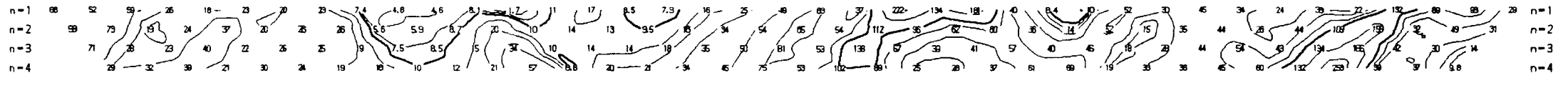
15+00 S 14+00 S 13+00 S 12+00 S 11+00 S 10+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N



15+00 S 14+00 S 13+00 S 12+00 S 11+00 S 10+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N

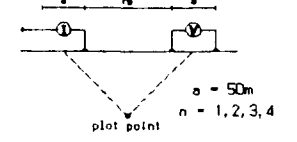


15+00 S 14+00 S 13+00 S 12+00 S 11+00 S 10+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N



Line 100 W

Pole-Dipole Array



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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

TECK EXPLORATIONS LTD.

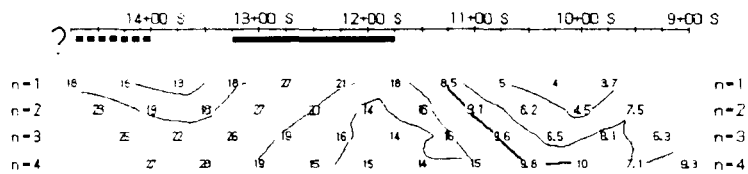
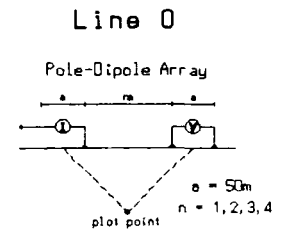
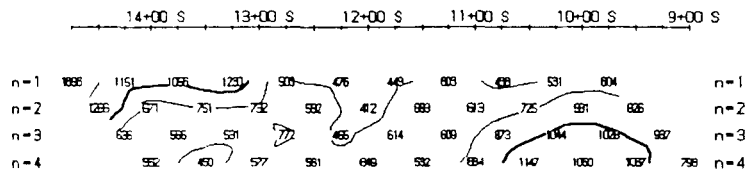
INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

Date: October 1989 NTS: 92P8/9
Interpretation by: PAC/M St.P

Pacific Geophysical

8008-1 (G) Software for the Earth Sciences, Toronto, Canada

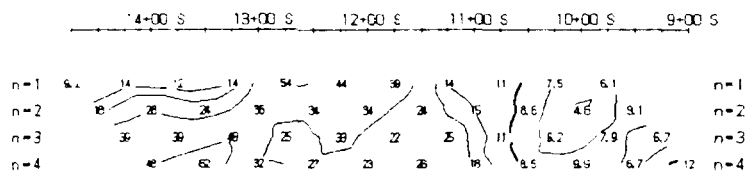


Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

- ████████ Strong increase in polarization
- Moderate increase in polarization
- ▨▨▨▨ Weak increase in polarization



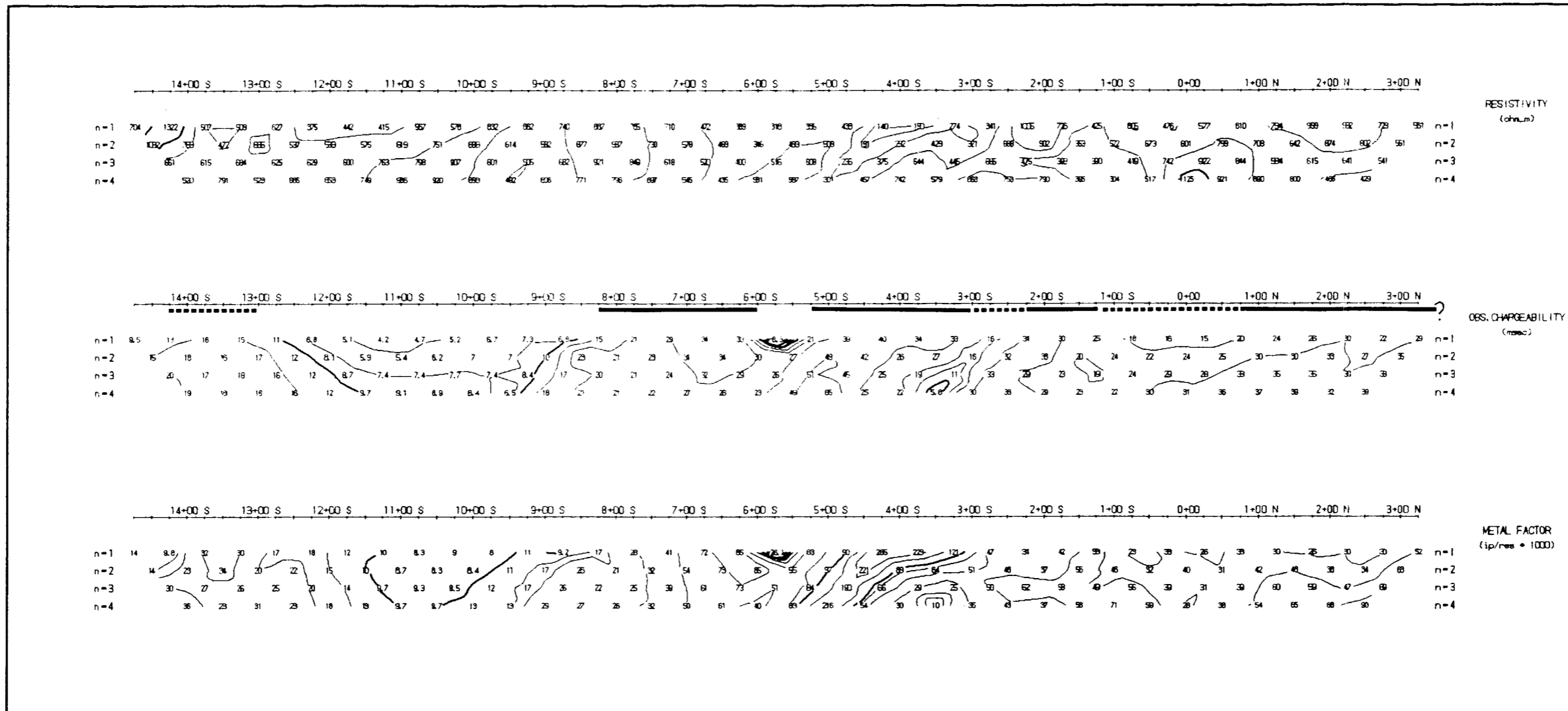
TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

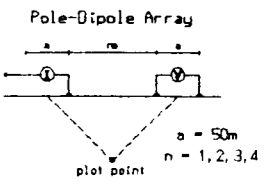
HAIDA GOLD PROPERTY

Date: October 1989 NTS: 92P8/9
Interpretation by: PAC/M St.P

Pacific Geophysical



Line 100 E



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M. St. P.

INTERPRETATION

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

TECK EXPLORATIONS LTD.

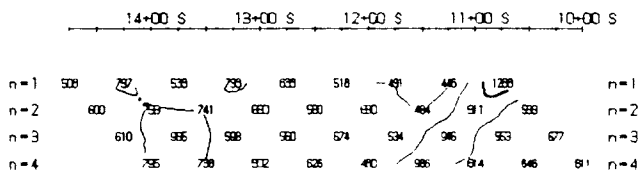
INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

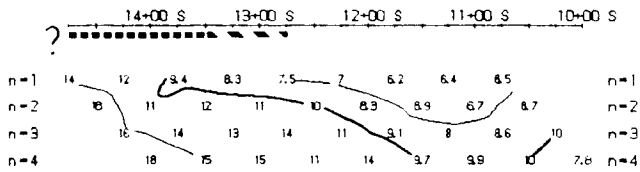
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Interpretation by: PAC/M St. P.

Pacific Geophysical

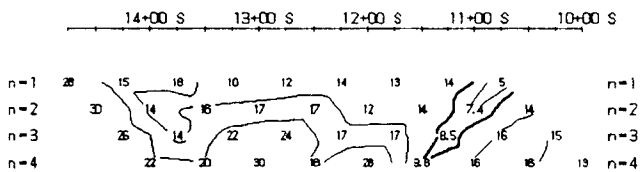
21001 (67) Software for the Earth Sciences, Toronto, Canada



RESISTIVITY
(ohm.m)



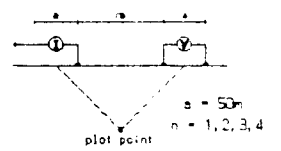
OBS. CHARGEABILITY
(msec)



METAL FACTOR
(ip/res * 1000)

Line 200 E

Pole-Dipole Array



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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

TECK EXPLORATIONS LTD.

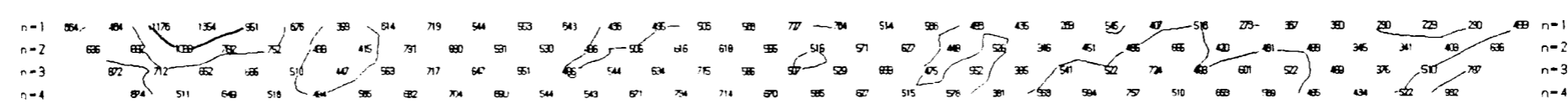
INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

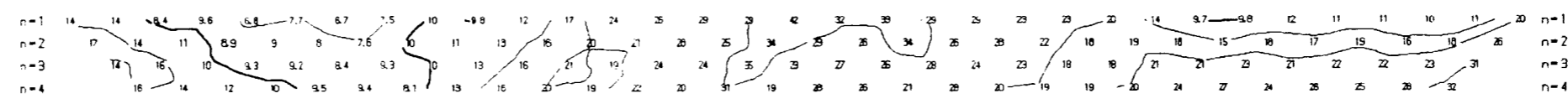
Date: October 1989 NTS: 92PB/9
Interpretation by: PAC/M St.P

Pacific Geophysical

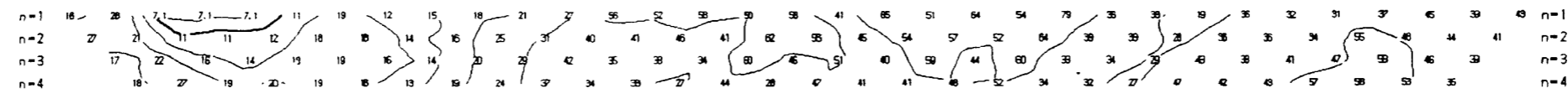
14+00 S 13+00 S 12+00 S 11+00 S 10+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N



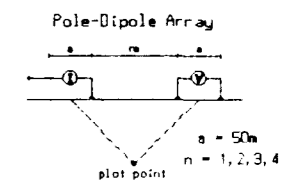
14+00 S 13+00 S 12+00 S 11+00 S 10+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N



14+00 S 13+00 S 12+00 S 11+00 S 10+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N



Line 300 E



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operator : M St.P

INTERPRETATION

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

TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

HAIDA GOLD PROPERTY

Date: October 1989 NTS: 92P8/9
Interpretation by: PAC/M St.P

Pacific Geophysical

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APPENDIX VII
PACIFIC GEOPHYSICS LTD. 1990 REPORT

PACIFIC GEOPHYSICAL LTD.

REPORT ON THE

CONTINUATION OF THE

INDUCED POLARIZATION AND RESISTIVITY SURVEY,
AND MAGNETIC SURVEY

ON THE

HAIDA GOLD PROJECT, MAIN GRID
KAMLOOPS MINING DIVISION, BRITISH COLUMBIA

FOR

TECK EXPLORATIONS LTD.

LATITUDE : 51°31'N LONGITUDE : 120°24'W

N.T.S. 92P 8/9

BY

GRANT D. LOCKHART, B.Sc.
Geophysicist

AND

PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: APRIL 11, 1990

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PART B ILLUSTRATIONS

Location and Claim Map	FIGURE 1
IP Pseudosection Data Plots	11 Sections
Contoured Magnetics and IP Interpretation 1:5000 Scale Plan Map	MHAIDA.EXT
Posted Profile Magnetics 1:2500 Scale Plan Map	PMAIN90.EXT

1. INTRODUCTION

Further geophysical surveying, including Induced Polarization (IP), resistivity, and total field magnetometer surveys, has been completed on the Haida Gold Project's Main Grid on behalf of Teck Explorations Ltd. by Pacific Geophysical Ltd.

The Haida Gold property is located approximately 16 Kilometers northwest of Little Fort, British Columbia. The Main geophysical grid is accessible via the Taweel Forestry Road that leads northwest from Highway 24.

Previous work has included numerous pits and adits dating back to the 1930's. Recent work has included soil geochemistry, magnetometer, VLF-Em and IP and resistivity surveying as well as trenching and percussion and diamond drilling. The reader is referred to a report by the same authors dated December 22, 1989, which describes the results of geophysical surveys carried out to that date.

The objective of the present geophysical surveying was to extend the Main Grid's geophysical coverage westward in order to evaluate the grid area for a possible porphyry system.

An EDA Model IP-6 six channel time domain IP and resistivity receiver using "mod 2 (TD = 120ms, tp = 90 ms)", together with a

Phoenix Model IPT-1 transmitter, that produced a two second on/two second off signal, were used to make all the Main Grid IP and resistivity measurements. IP effects were recorded as chargeability in milliseconds while apparent resistivity values were normalized in units of ohm-meters. Pole-dipole array was utilized to make all of the measurements using an interelectrode distance of 50 meters recording four separations at each station.

An EDA Model Omni IV total field magnetometer together with an EDA Model Omni IV base station magnetometer were used to make all magnetic measurements, employing a 25 meter station interval over the Main geophysical grid area.

IP field work took place during the period February 16, 1990 to March 5, 1990, under the direction of Martin St. Pierre, geophysicist and Grant D. Lockhart, geophysicist. Magnetometer field work was undertaken by Grant D. Lockhart, geophysicist, on March 1, 1990 and on March 5, 1990. Certificates of qualification are included in this report.

2. DESCRIPTION OF CLAIMS

The Haida Gold property is composed of 19 contiguous claims, totalling 230 units. Details are as follows:

Claim No.	Units	Record No.	Expiry Date
NUF 1	15	2927	9 September 1999
TUN 1	16	2921	8 September 1999
TUN 2	20	2922	8 September 1999
FORT 7	4	178	30 December 1995
FORT 9	4	428	25 June 1999
VIT 1	20	7062	29 May 1999
VIT 2	20	7063	29 May 1997
VIT 3	18	7064	29 May 1997
VIT 4	20	7065	29 May 1999
VIT 5	15	7066	29 May 1998
VIT 6	10	7067	29 May 1999
VIT 7	1	7068	29 May 1998
VIT 8	1	7069	29 May 1997
VIT 9	10	8903	30 September 1990
VIT 10	4	8904	2 October 1990
VIT 11	12	8905	3 October 1990
VIT 12	12	8906	2 October 1990
VIT 13	8	8925	25 October 1990
VIT 14	20	8926	26 October 1990

Electrum Resources Limited is the owner of these claims. Vital Pacific Resources Limited has an option and Teck Explorations Ltd. is the current operator of the claims.

3. PROPERTY GEOLOGY

The following summary of the property geology has been provided by Thor Bruland, consulting geologist for Teck Explorations Ltd.

"The property is mainly underlain by NW-SE trending upper-Triassic to lower Jurassic Nicola Group volcanics and sediments. The sequence, which is dominated by fine grained argillite, chert, tuff and limestone in the SW and andesite and volcanoclastics in

the NE, dips steeply to the SW. The limestone, 0.5 - 2m thick, can be up to 10 m in thickness.

This sequence has been intruded by four intrusive episodes forming the Thuya Batholith in the south, and several granodiorite, diorite and gabbro stocks throughout the property. The age of the intrusives is uncertain but is believed to be coeval to the Nicola volcanics. The area has been through several episodes of faulting, creating a mosaic of fault blocks. The ages of the faulting are pre to post intrusive.

The best known mineralization on the property to date is hosted by a diopside-garnet skarn at the contact between diorite and limestone. The magnetite-pyrrhotite rich parts of the skarns host Cu and Au mineralization.

Additional mineralization is located in a 1 to 2m wide manganese stained diorite intrusive breccia hosted by limestone and argillite/tuff. This is a polymetallic mineralization with galena, sphalerite and arsenopyrite."

4. PRESENTATION OF DATA

The 1990 induced polarization and resistivity results are shown on the following data plots in pseudo-section format. The last four lines are plotted using 1990 and 1989 data.

Line	Electrode Interval	Reading Interval (Outermost Electrodes)	
		1990 Survey	1989 Survey
2500W	50 meters	1000S - 2100N	
2300W	50 meters	1000S - 2100N	
2100W	50 meters	1000S - 2100N	
1900W	50 meters	1000S - 2150N	
1700W	50 meters	1000S - 2100N	
1500W	50 meters	1000S - 750N	
1300W	50 meters	1000S - 1800N	
1100W	50 meters	300N - 2100N	1500S - 500N
900W	50 meters	300N - 2100N	1500S - 500N
700W	50 meters	300N - 2100N	1500S - 500N
500W	50 meters	300N - 1400N	1500S - 500N

Total 1990 26.2 l.km.

The compiled total field magnetometer measurements from the 1990 (present survey), 1989 and 1988 geophysical surveys, are presented in the form of a contoured 1:5000 scale plan map (MHAIDA.EXT), which also includes the IP interpretation of the 1990 and 1989 IP data, as well as re-interpreted 1988 IP data. The strong, moderate, and weak 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 projection of the anomalous zones interpreted from the transmitter and receiver electrode locations when the anomalous values were measured.

Also enclosed in this report is PMAIN90.EXT, a 1:2500 scale posted profile plan map of the magnetometer measurements from the present geophysical survey only.

5. DISCUSSION OF RESULTS

Fifteen zones of anomalous IP effects are interpreted to be

present within the geophysical grid area which is shown on plan map MHAIDA.EXT. This plan map also displays the contoured magnetometer data for the entire grid, as well as selected VLF-Em conductors detected by surveying carried out on the eastern portion of the grid during 1989 and 1988. The 1990 diamond drill locations are also noted on plan MHAIDA.EXT. The reader is referred to a previous report by the same authors dated December 22, 1989, which describes the results of the earlier geophysical surveys carried out over the eastern part of the property. IP Zones A through to G were discussed in the previous report. The present report renames the original IP Zone G to IP Zone C, while a newly outlined anomalous IP trend is now called IP Zone G.

Results of both the previously detected IP zones and the IP zones more recently outlined on the western part of grid are discussed below.

IP Zone A

This feature is now interpreted to strike across the entire grid. For purposes of discussion, Zone A has been further subdivided into the following parts i) Northwest, ii) North-Central, iii) South-Central, iv) Northeast, and v) Southeast.

The northwestern portion is characterized by broad, very high magnitude IP (chargeability) anomalies, together with much lower than background apparent resistivity values. Two diamond drill

holes test the center of the zone in the vicinity of Line 1000W. In both instances, substantial amounts of graphite and pyrite are reported to have been intersected.

VLF-Em conductors V4, V5, and V6 are contained within the North-Central part of IP Zone A, together with anomalous magnetics. It is the authors' understanding that these VLF-Em responses mark previously discovered skarn mineralization.

VLF-Em conductors V1, V2 and V3 are enclosed within the South-Central part of IP Zone A. Very anomalous magnetic readings are noted associated with the VLF-Em conductors. Three diamond drill holes drilled as part of the most recent drill program have further evaluated the sources of the geophysical anomalies present. All these holes encountered significant amounts of magnetite, pyrrhotite and pyrite together with some copper mineralization. The pyrrhotite and magnetite apparently caused the very anomalous magnetic signature noted, while the VLF-Em conductors are probably due to the pyrrhotite, and to a lesser degree, pyrite. All of the above minerals could be expected to contribute to the anomalous IP effects forming the South Central portion of IP Zone A.

Four diamond drill holes have tested the Northeast part of IP Zone A. One of these holes, 90-21, further evaluated the source of VLF-Em Conductor V7, together with a closely associated magnetic anomaly. Skarn mineralization containing pyrrhotite and

magnetite was intersected, along with disseminated pyrite. The other three holes tested areas of anomalous IP effects. Pyrite was encountered throughout all these holes, together with more sporadic intersections of pyrrhotite and minor chalcopyrite.

Another three holes have been drilled to test the Southeast part of IP Zone A. In every case pyrite is noted throughout the core, together with some pyrrhotite mineralization.

IP Zone A1, A2

IP Zone A1 has been diamond drilled, and pyrite encountered throughout the hole. A trace of chalcopyrite is also noted in the logs. IP Zone A2 has not been drill tested.

IP Zone B

This anomalous IP Zone is made up of a series of narrow IP responses, which closely overlies a lenticular zone of much higher than background magnetic values. Diamond drillhole 90-27 has been collared so as to intersect the common source of both the anomalous IP effects and the high magnetics. Substantial concentrations of magnetite, with lesser amounts of pyrite were encountered.

IP Zone C, C1

Large amplitude IP effects constitute this zone, together with moderately low to very low apparent resistivity measurements. Such a signature is similar to that seen in the Northwest part of IP Zone A, where graphite and pyrite was intersected in drill holes.

IP Zone D, E

Both of these zones are open toward the south. In general, both trends are made up of moderately to strongly anomalous IP effects, coincident with moderate magnitude resistivity values.

IP Zone F

A narrow band of weakly anomalous IP effects form this Zone. There does not appear to be any VLF-Em conductors or magnetic anomalies associated with the IP Zone.

IP Zone G

This short strike length trend is best outlined by the data collected in the vicinity of Station 325N, Line 1900W and Station 225N, Line 1700W. In both instances, high magnitude IP effects can be seen, coincident with quite high magnitude resistivity

measurements. It is probable that disseminated metallic mineralization is the cause of these anomalous signatures.

IP Zone H, I, J

These anomalous IP zones are similar to IP Zone G discussed previously; however, Zones H, I and J are composed of somewhat lower magnitude IP effects, coupled with moderately high apparent resistivity values. Disseminated metallic mineralization is the most likely cause of these anomalies.

IP Zone J1, K

Quite anomalous chargeability values make up IP zone J1 and IP Zone K, while moderate resistivity values are noted correlating with the higher than background IP effects. Relatively high percentages of disseminated metallic sulphides are the probable cause of these anomalous IP trends.

6. SUMMARY AND RECOMMENDATIONS

Induced polarization and resistivity survey coverage, and magnetic survey coverage on the Haida Gold Project, Main Grid has been extended westward. In addition, an extensive diamond drill program has been carried out to evaluate the sources of many of the geophysical anomalies outlined by the present survey, as well as surveys carried out in 1989 and 1988.

Fifteen anomalous IP zones are interpreted in the combined data set.

IP Zone A is a very large zone of anomalous IP effects that strikes across the entire grid. It has been subdivided into five sub-zones for purposes of discussion; four of which have been drill tested during the present program. Drill results indicate that the source of the Northwest part of Zone A is primarily graphite with some pyrite, while pyrite and, to a much lesser degree, pyrrhotite, are the primary causes of the northeast and southeast parts of Zone A. Some copper mineralization was also encountered in the holes drilled in the eastern end of the grid. By far the most concentrated mineralization discovered was in the South Central area of IP Zone A, where VLF-Em Conductors V1, V2 and V3, and very anomalous magnetometer measurements are noted. Massive to semi-massive magnetite together with some pyrrhotite and pyrite, and lesser concentrations of chalcopyrite appear to cause the various geophysical responses.

IP Zone B was drill tested and substantial concentrations of magnetite, with lesser amounts of pyrite, are indicated to be the sources of the magnetic and IP anomalies respectively.

The anomalies that comprise IP Zone C and C1 are similar to those making up the northwest part of IP Zone A, where graphite was intersected.

IP Zones D and E require additional surveying to fully delineate their southern extensions.

IP Zone F is low in magnitude. As there are not any interesting magnetic or VLF-Em anomalies associated with IP Zone F, no further work is recommended.


IP Zones G, H, I and J may be indicative of zones of disseminated metallic sulphides. However, due to the limited strike lengths involved, drill testing should be considered on a lower priority basis.

IP Zones J1 and K are probably caused by increased concentrations of metallic sulphides, and not by graphite. Therefore it is recommended that additional IP surveying be completed to more fully outline these trends.

On a more general note, the central and eastern portions of the grid appear to offer the most potential for discovering economic mineralization, in that the drilling in this area has intersected some interesting copper mineralization, without encountering graphite. It would appear that all of the anomalous induced polarization responses recorded in this area are due to metallic mineralization. Therefore, if the geological setting is deemed appropriate, it would be recommended that reconnaissance induced polarization surveying be completed to extend the grid boundaries towards the south and east, in an attempt to outline

sulphide rich areas.

PACIFIC GEOPHYSICAL LTD.


GRANT D. LOCKHART, B.Sc.
Geophysicist


PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: April 11, 1990

7. PERSONNEL:

IP FIELD CREW:

M. St. Pierre, 8621 Tulsy Crescent East, Surrey, B.C.

G. Lockhart, 301-2232 West 5th Avenue, Vancouver, B.C.

M. J. Cormier, 5512 Kings Road, Vancouver, B.C.

M. R. Cormier, 666 West Keith Road Upper Level,
North Vancouver, B.C.

S. Cormier, 666 West Keith Road Upper Level,
North Vancouver, B.C.

MAGNETOMETER

G. Lockhart, 301 - 2232 West 5th Avenue, Vancouver, B.C.

DRAFTSMEN:

M. St. Pierre, 8621 Tulsy Crescent East, Surrey, B.C.

G. Lockhart, 301 - 2232 West 5th Avenue, Vancouver, B.C.

CONSULTANTS:

G. Lockhart, 301 - 2232 West 5th Avenue, Vancouver, B.C.

P. Cartwright, 4238 West 11th Avenue, Vancouver, B.C.

PACIFIC GEOPHYSICAL LTD.

Paul A. Cartwright
PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: April 11, 1990

8. STATEMENT OF COST

A. Induced Polarization and Resistivity Survey

Crew: M.St.Pierre, G.Lockhart, M.J.Cormier,
M.R.Cormier,
Period: February 16, 1990 to February 23, 1990

Crew: M.St.Pierre, G.Lockhart, M.Cormier, S.Cormier
Period: February 24, 1990 to February 28, 1990

Crew: M.St.Pierre, M.Cormier, S.Cormier, S.Spencer
Period: March 1, 1990

Crew: M.St.Pierre, G.Lockhart, M.Cormier, S.Cormier
Period: March 2, 1990 to March 4, 1990

Crew: M.St.Pierre, P.Cartwright, M.Cormier, S.Cormier
Period: March 5, 1990

17 Operating Days IP @ \$1,100.00	\$18,700.00
1 Standby Day @ \$800.00	800.00
Mobilization - Demobilization	2,000.00
19 Days Snow Machine and Sled Rental (incl. oil)	703.00
Fuel for above	24.30
	<hr/>
	\$22,227.30

B. Total Field Magnetometer Survey

Crew: G. Lockhart
Period: March 1, 1990 and March 5, 1990

Data Acquisition 27.4 1.km @ \$100.00 2,740.00

C. Interpretation, Report Preparation, and
Report Reproduction Costs 2,557.55

\$27,524.85

PACIFIC GEOPHYSICAL LTD.



PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: April 11, 1990

9. CERTIFICATE

I, Martin St. Pierre, of the City of Surrey, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 8621 Tulsy Crescent East, Surrey, British Columbia.
2. I am a graduate of McGill University, Montreal, Quebec with a B.Sc. Degree (1984).
3. I have been practicing my profession for six years.
4. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Teck Explorations Ltd., Electrum Resources Ltd., or Vital Pacific Resources Ltd. or any affiliates.
5. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED at Vancouver, British Columbia this 11th day of April 1990.



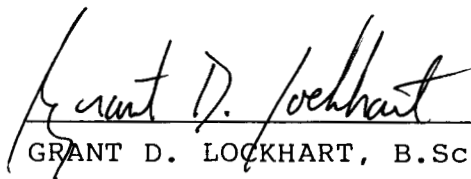
MARTIN ST. PIERRE, B.Sc.

10. CERTIFICATE

I, Grant D. Lockhart, of the City of Vancouver, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 301, 2232 West 5th Avenue, Vancouver, B.C.
2. I am a graduate of the University of British Columbia, with a B.Sc. Degree (1987).
3. I am a member of the Society of Exploration Geophysicists, and the Canadian Society of Exploration Geophysicists.
4. I have been practising my profession for three years.
5. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Teck Explorations Ltd., Electrum Resources Ltd. or Vital Pacific Resources Ltd., or any affiliates.
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DATED AT VANCOUVER, BRITISH COLUMBIA this 11th day of April 1990.

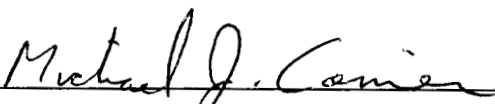

GRANT D. LOCKHART, B.Sc.

11. CERTIFICATE

I, Michael J. Cormier, of the City of Vancouver, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 5512 Kings Road, Vancouver, B.C.
2. I am a graduate of the McGill University, Montreal, Quebec with a B.Sc. Degree (1981).
3. I have been practising my profession for 9 years.
4. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Teck Explorations Ltd., Electrum Resources Ltd., or Vital Pacific Resources Ltd., or any affiliates.
5. The statements made in this report are based on a study of published geological literature and unpublished private reports.
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DATED AT VANCOUVER, BRITISH COLUMBIA this 11th day of April 1990.




MICHAEL J. CORMIER, B.Sc.

12. CERTIFICATE

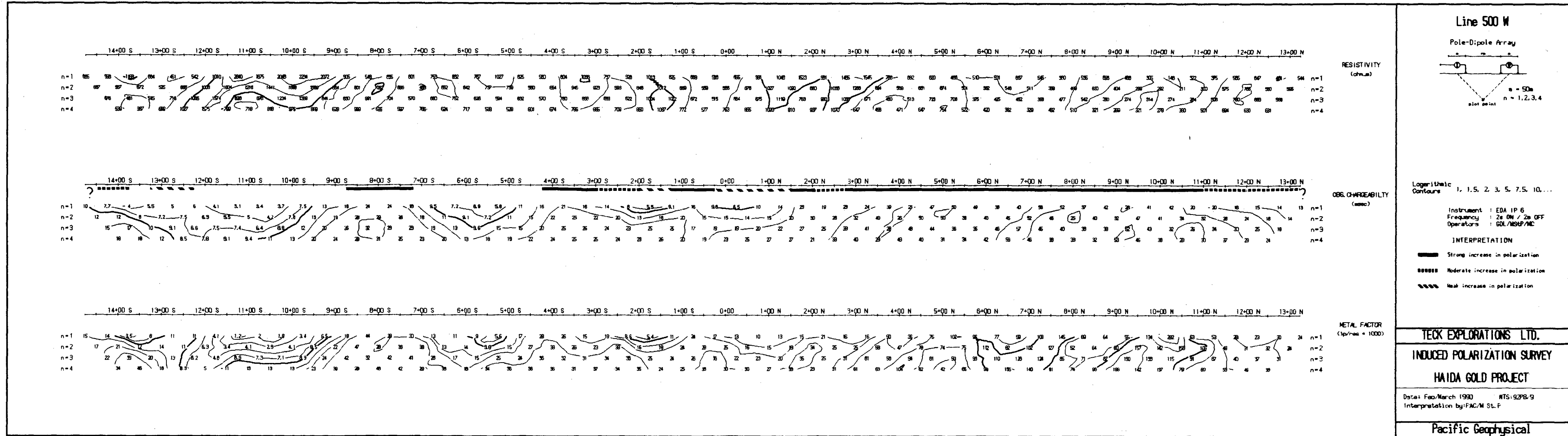
I, Paul A. Cartwright, of the City of Vancouver, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 4234 West 11th 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, the European Association of Exploration Geophysicists and the Canadian Society of Exploration Geophysicists.
4. I have been practicing my profession for 20 years.
5. I am a Professional Geophysicist licensed in the Province of Alberta.
6. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Teck Explorations Ltd., Electrum Resources Ltd. or Vital Pacific Resources Ltd., or any affiliates.
7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

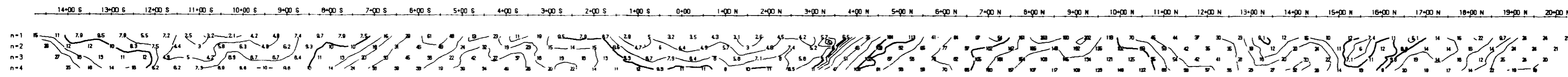
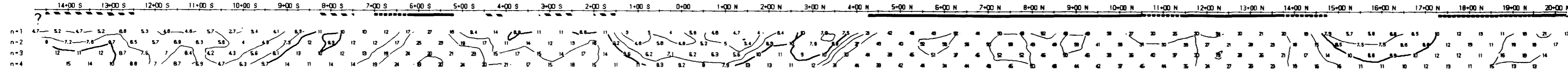
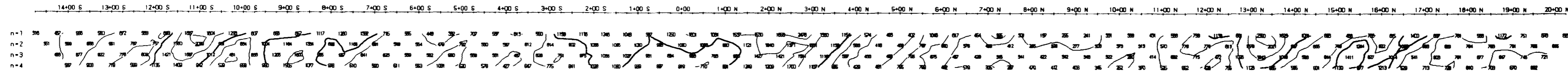
DATED at Vancouver, British Columbia this 11th day of April 1990.



PAUL A. CARTWRIGHT, P.Geoph

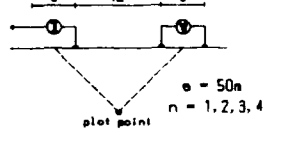


20014 part 3



Line 700 W

Pole-Dipole Array



RESISTIVITY
(ohm-m)

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

Instrument : EDA IP 6
Frequency : 28 OH / 2s OFF
Operators : GEL/MSLP/WC

INTERPRETATION

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

METAL FACTOR
(sp/ram = 1000)

TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

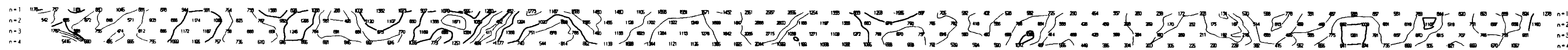
HAIDA GOLD PROJECT

Date: Feb/March 1990 NTS:92P8/9
Interpretation by: PAC/M St.P

Pacific Geophysical

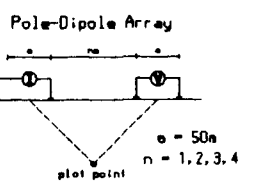
20014 part 3

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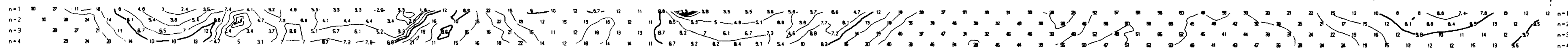


RESISTIVITY
(ohm-m)

Line 900 W



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OBS. CHARGEABILITY
(%)

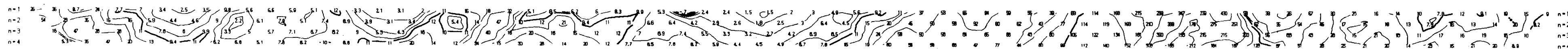
Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6
Frequency : 2a ON / 2a OFF
Operators : GDL/MSJP/MC

INTERPRETATION

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

14+00 S 13+00 S 12+00 S 11+00 S 10+00 S 9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N 8+00 N 9+00 N 10+00 N 11+00 N 12+00 N 13+00 N 14+00 N 15+00 N 16+00 N 17+00 N 18+00 N 19+00 N 20+00 N



METAL FACTOR
(1p/ma = 1000)

TECK EXPLORATIONS LTD.

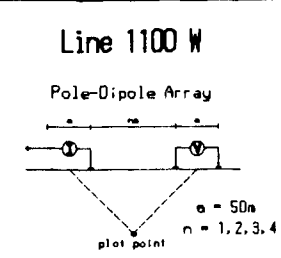
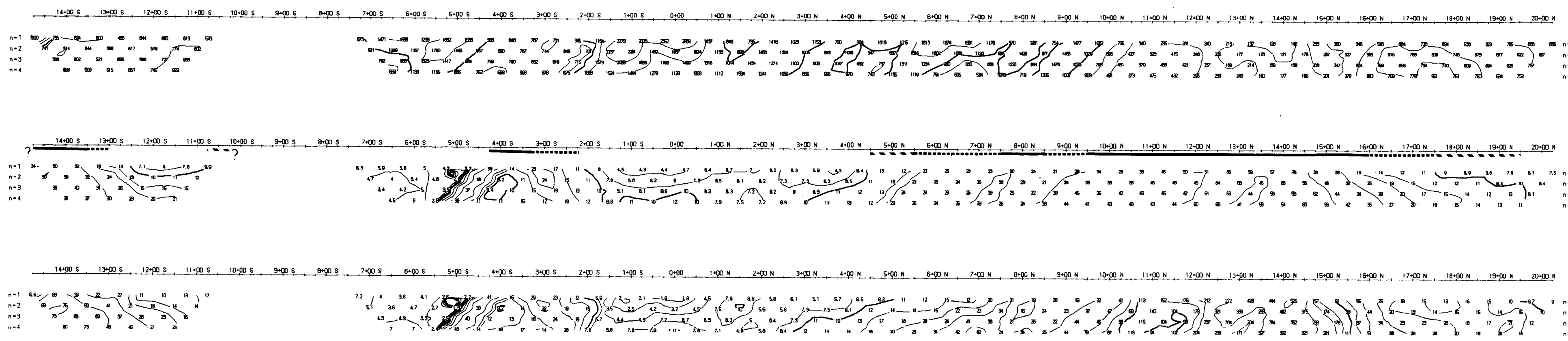
INDUCED POLARIZATION SURVEY

HAIDA GOLD PROJECT

Date: Feb/March 1990 NTS:92PB/9
Interpretation by: PAC/M ST.P

Pacific Geophysical

20014 part 3



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operators : GDL/MSP/WC

INTERPRETATION

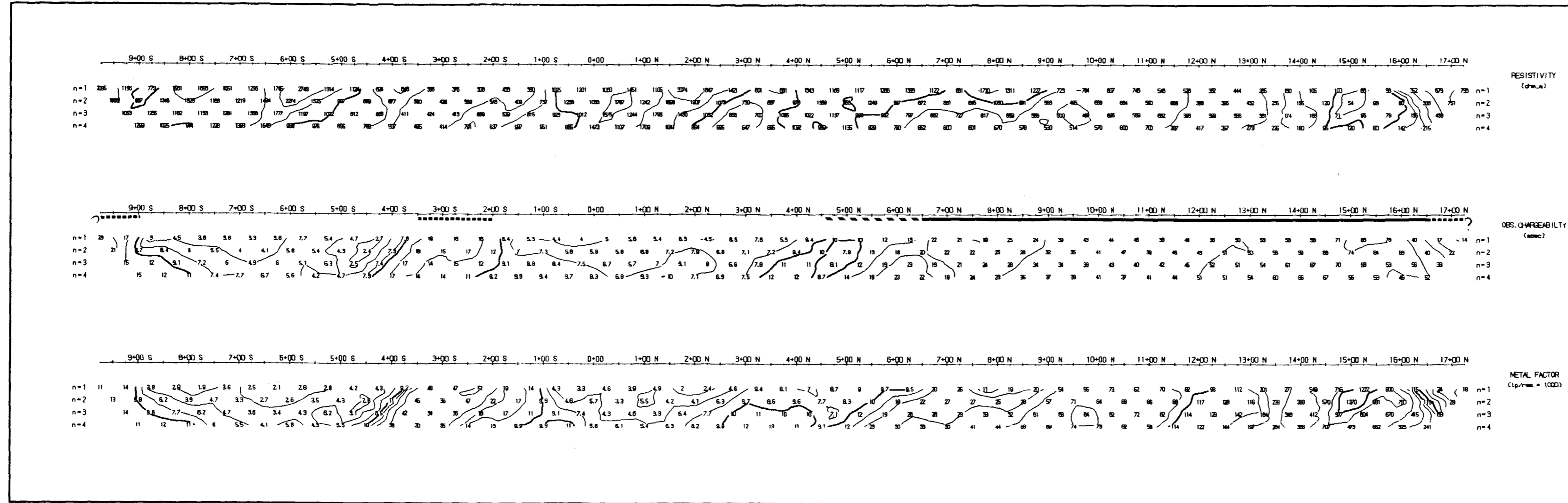
- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

TECK EXPLORATIONS LTD.
INDUCED POLARIZATION SURVEY
HAIDA GOLD PROJECT

Date: Feb/March 1990 NTS:92P8/9
Interpretation by: PAC/M ST.P

Pacific Geophysical

20014 part 3



Line 1300 W
 Pole-Dipole Array

RESISTIVITY (ohm.m)

OBS. CHARGEABILITY (msec)

METAL FACTOR (Ip/Im = 1000)

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

Instrument : EDA IP 6
 Frequency : 2c ON / 2c OFF
 Operators : GDL/MSLP/MC

INTERPRETATION

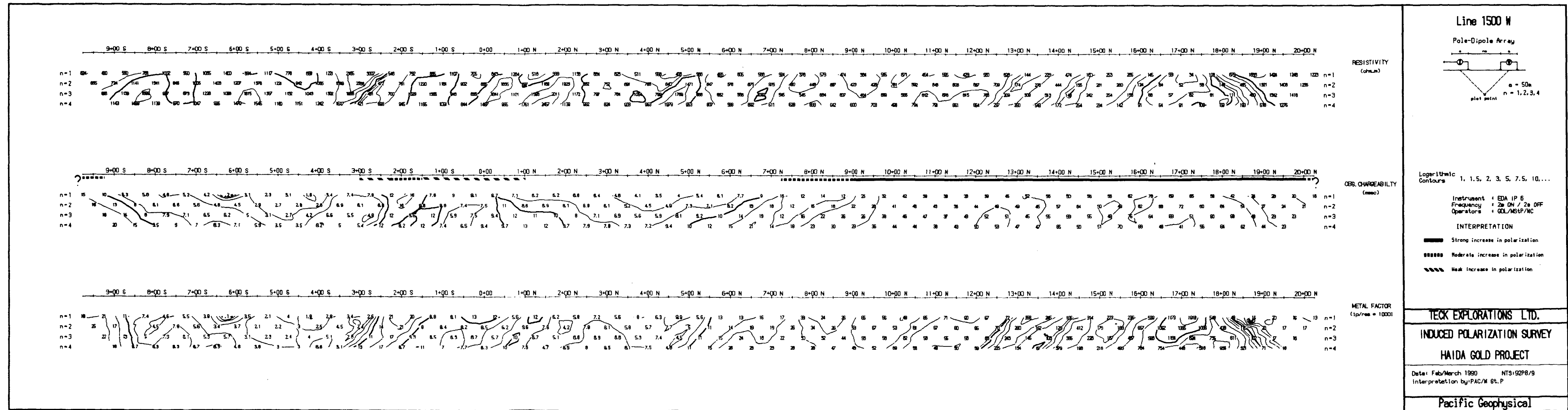
- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

TECK EXPLORATIONS LTD.
 INDUCED POLARIZATION SURVEY
 HAIDA GOLD PROJECT

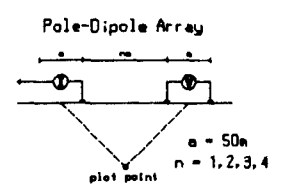
Date: Feb/March 1990 NTS:SQPB/S
 Interpretation by: PAC/W St.P

Pacific Geophysical

20014 part 3



Line 1500 W



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

Instrument : EDA IP 6
 Frequency : 2s ON / 2s OFF
 Operators : GOL/MS/P/HC

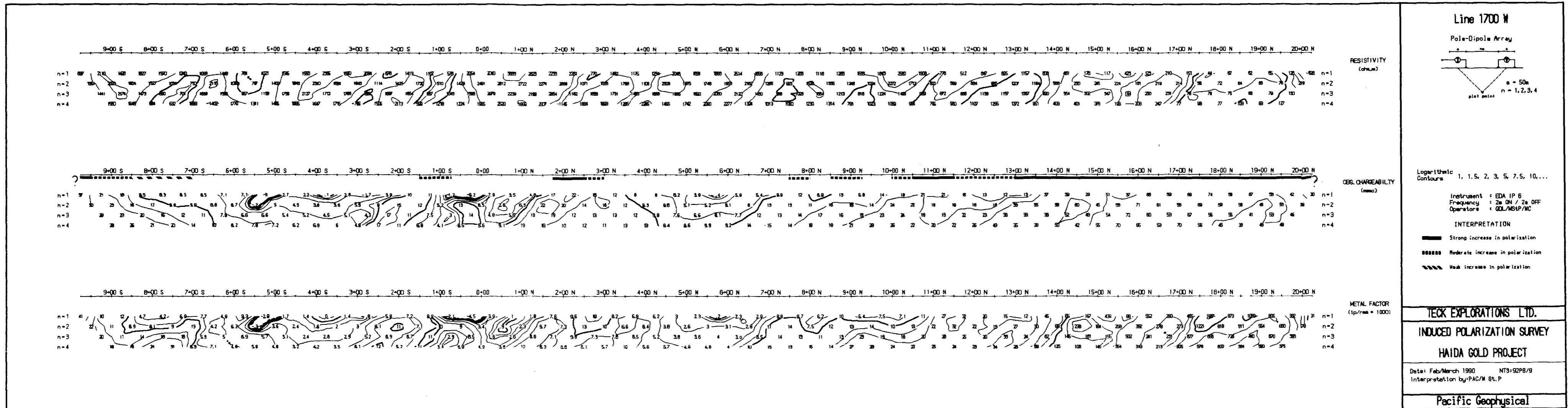
INTERPRETATION
 ■■■■■ Strong increase in polarization
 ■■■■■ Moderate increase in polarization
 ■■■■■ Weak increase in polarization

METAL FACTOR (tp/res = 1000)

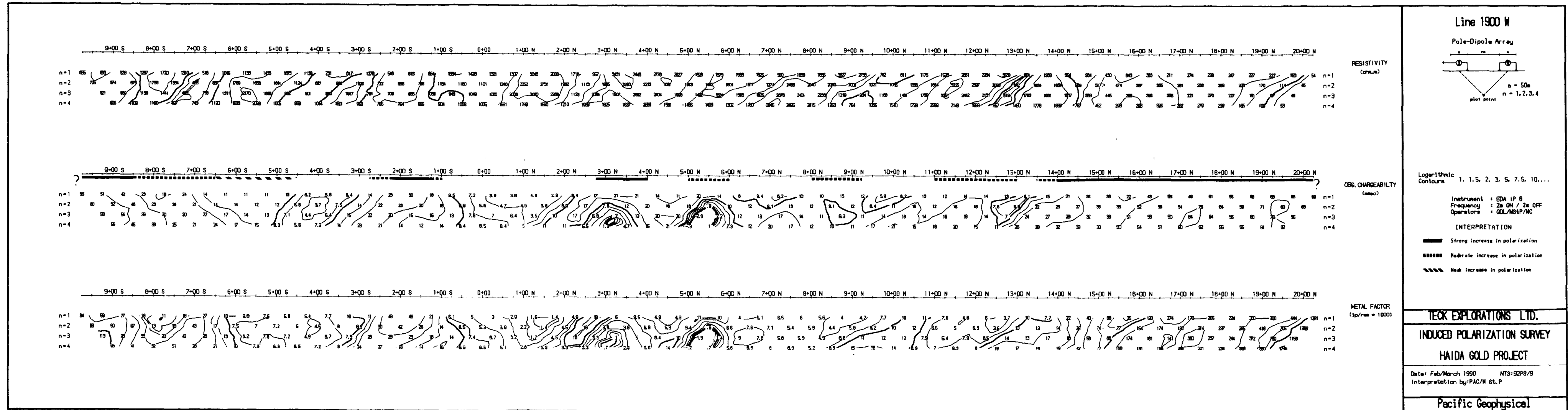
TECK EXPLORATIONS LTD.
INDUCED POLARIZATION SURVEY
HAIDA GOLD PROJECT
 Date: Feb/March 1990 NTS192P8/9
 Interpretation by PAC/M St.P

Pacific Geophysical

20014 part 3

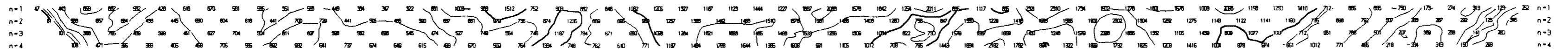


20014 part 3



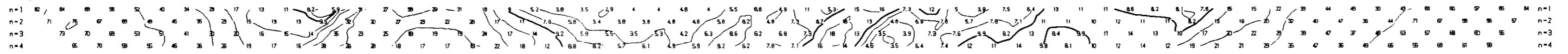
20014 part 3

9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N 8+00 N 9+00 N 10+00 N 11+00 N 12+00 N 13+00 N 14+00 N 15+00 N 16+00 N 17+00 N 18+00 N 19+00 N 20+00 N



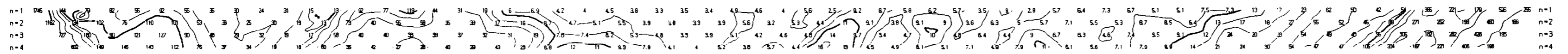
RESISTIVITY
(ohm.m)

9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N 8+00 N 9+00 N 10+00 N 11+00 N 12+00 N 13+00 N 14+00 N 15+00 N 16+00 N 17+00 N 18+00 N 19+00 N 20+00 N



Obs. CHARGEABILITY
(msec)

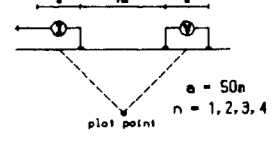
9+00 S 8+00 S 7+00 S 6+00 S 5+00 S 4+00 S 3+00 S 2+00 S 1+00 S 0+00 1+00 N 2+00 N 3+00 N 4+00 N 5+00 N 6+00 N 7+00 N 8+00 N 9+00 N 10+00 N 11+00 N 12+00 N 13+00 N 14+00 N 15+00 N 16+00 N 17+00 N 18+00 N 19+00 N 20+00 N



METAL FACTOR
(ip/res = 1000)

Line 2100 W

Pole-Dipole Array



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

Instrument : EDA IP 6
Frequency : 2s ON / 2s OFF
Operators : GOL/MS/P/MC

INTERPRETATION

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

TECK EXPLORATIONS LTD.

INDUCED POLARIZATION SURVEY

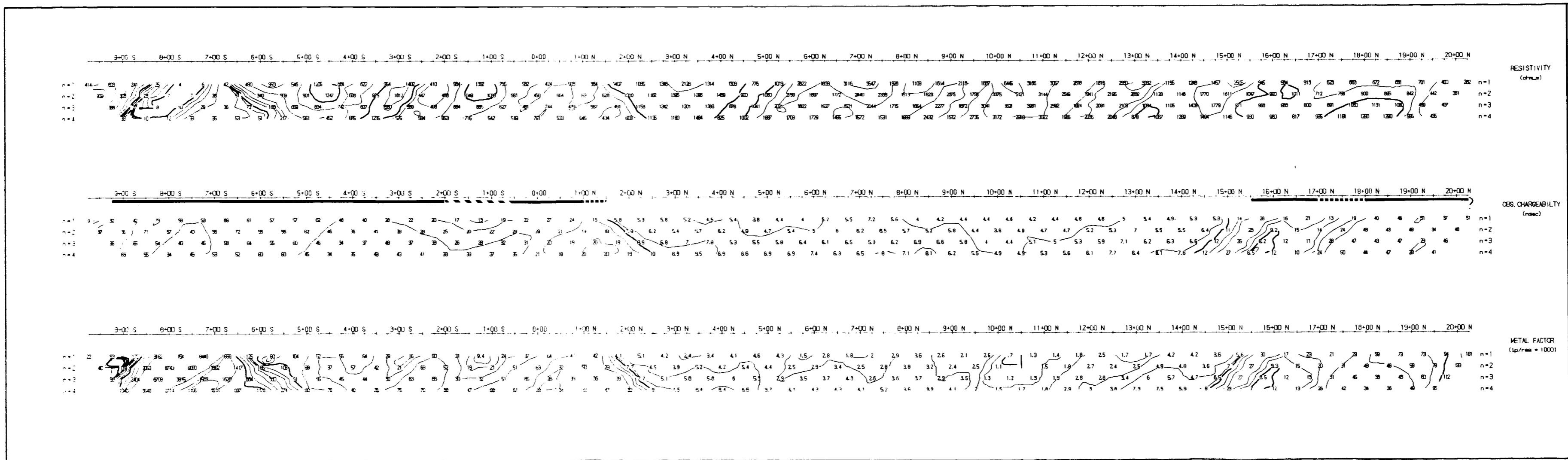
HAIDA GOLD PROJECT

Date: Feb/March 1990 NTS:92P8/9
Interpretation by: PAC/M St. P

Pacific Geophysical

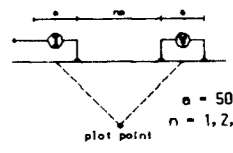
20014 part 3

RESIST 1.07 Software for the Earth Sciences Toronto, Canada



Line 2500 W

Pole-Dipole Array



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

Instrument : EDA IP 6
 Frequency : 2a ON / 2a OFF
 Operators : GDL/MSJP/NC

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

**TECK EXPLORATIONS LTD.**

**INDUCED POLARIZATION SURVEY**

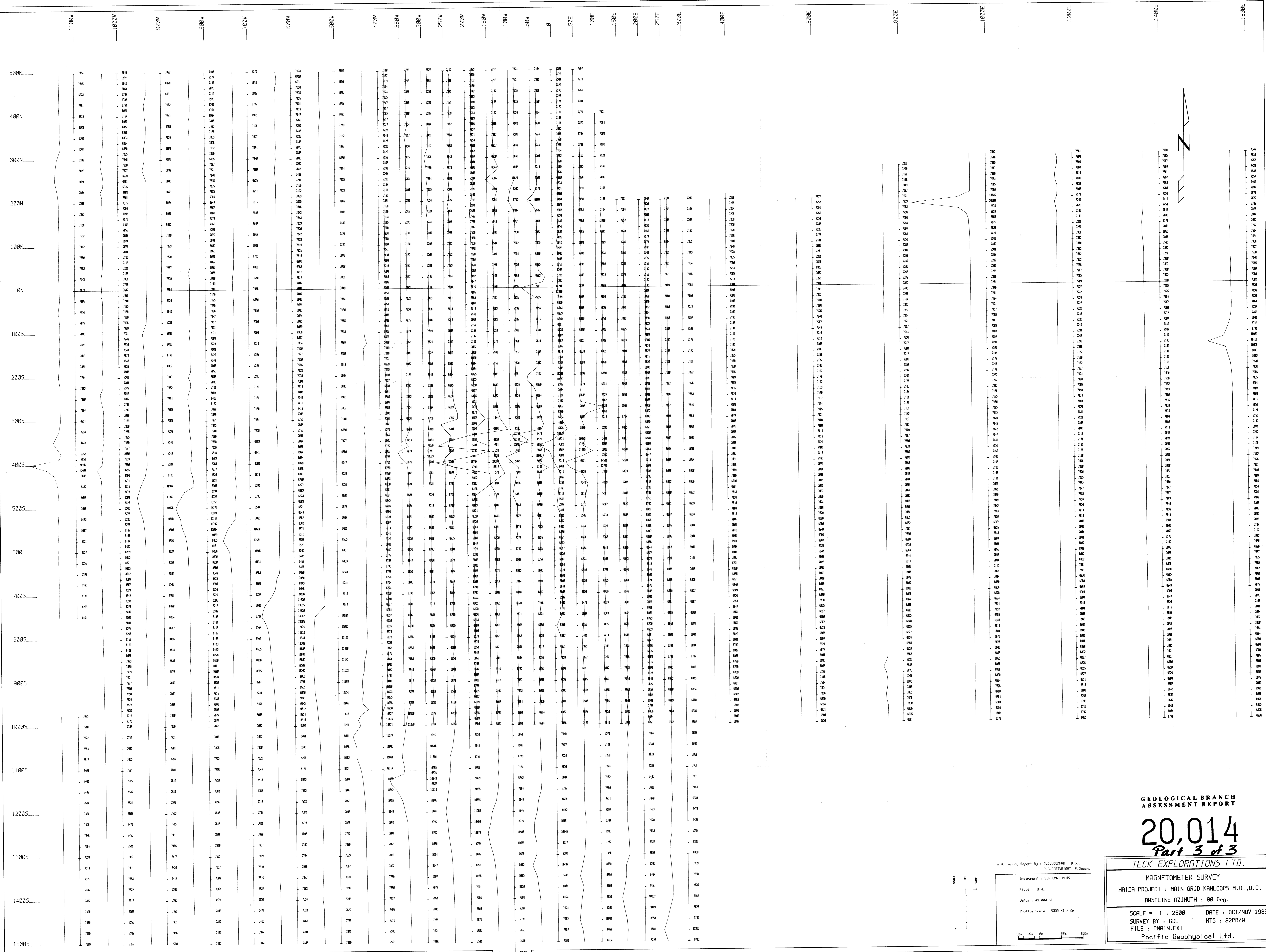
**HAIDA GOLD PROJECT**

Date: Feb/March 1990 NTS: 92P8/9  
 Interpretation by: PAC/W St.P

**Pacific Geophysical**

20014  
 part 3





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

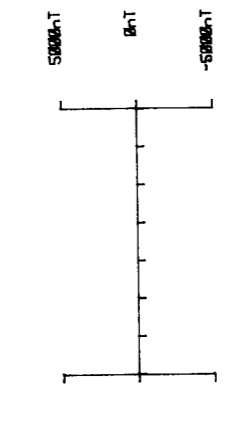
**20,014**  
Part 3 of 3

TECK EXPLORATIONS LTD.

MAGNETOMETER SURVEY  
HAIDA PROJECT: MAIN GRID KAMLOOPS M.D.B.C.  
BASELINE AZIMUTH: 90 Deg.

SCALE = 1 : 2500 DATE: OCT/NOV 1989  
SURVEY BY: GDJ NTS: 92PB/9  
FILE: PMAIN.EXT  
Pacific Geophysical Ltd.

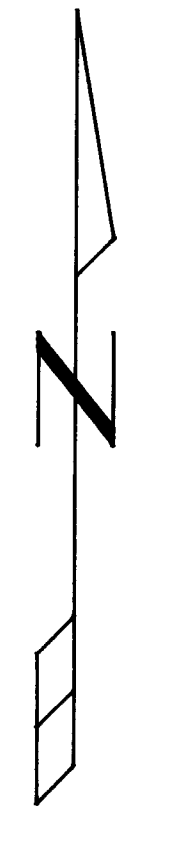
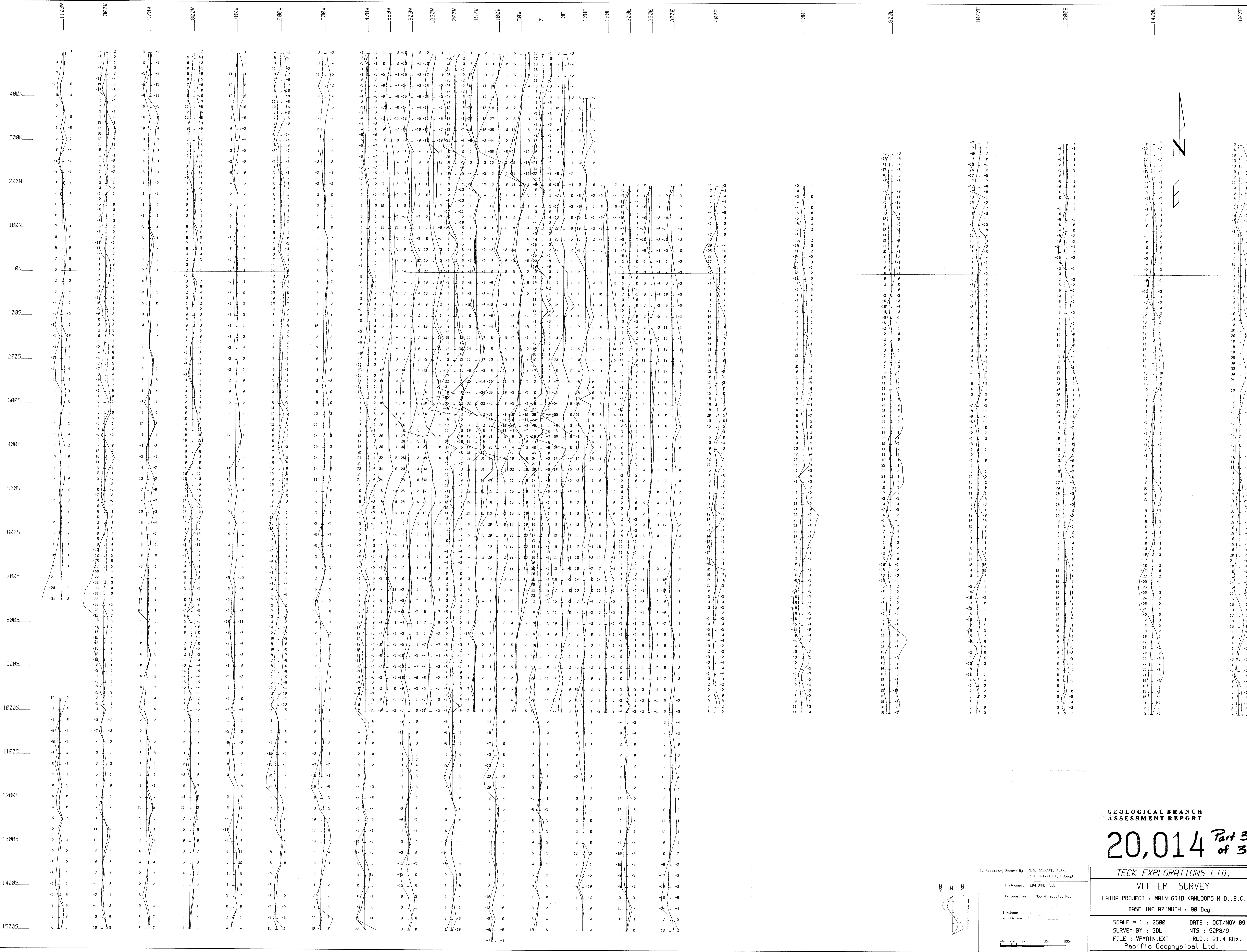
To Accompany Report By: G.D. LOCKHART, B.Sc.,  
P.A. CARTWRIGHT, P.Geoph.  
Instrument: EOR DMI PLUS  
Field: TOTAL  
Datum: 49,000 nT  
Profile Scale: 5000 nT / Cm











GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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TECK EXPLORATIONS LTD.

VLF-EM SURVEY

HAIDA PROJECT: MAIN GRID KAMLOOPS M.D., B.C.

BASELINE AZIMUTH: 90 Deg.

SCALE = 1 : 2500 DATE: OCT/NOV 89

SURVEY BY: GDL NTS: 92PB/9

FILE: VPMIN.EXT FREQ: 21.4 KHz.

Pacific Geophysical Ltd.

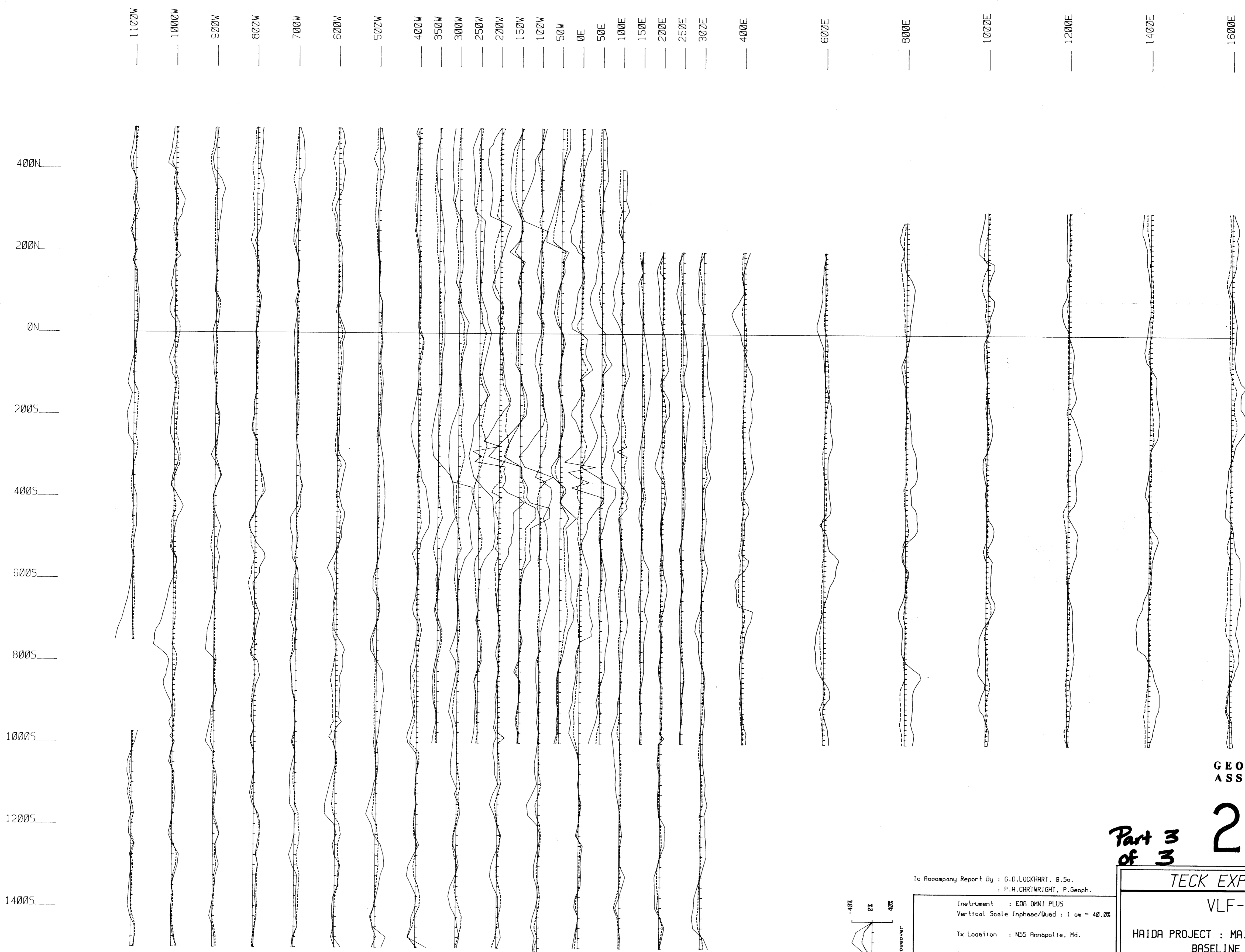
To accompany Report By: G.D. LOCKHART, B.Sc.  
P.A. CARTWRIGHT, P. Geoph.

Instrument: EBR DMU PLUS  
Tx Location: NSS Kamloops, B.C.

Impedance: \_\_\_\_\_  
Quadrature: \_\_\_\_\_

Scale: 1:2500  
0m 25m 50m 100m





**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

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of 3* **20,014**

To Accompany Report By : G.D. LOCKHART, B.Sc.  
: P.A. CARTWRIGHT, P. Geoph.

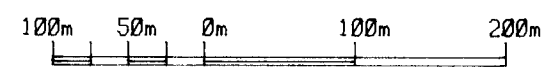
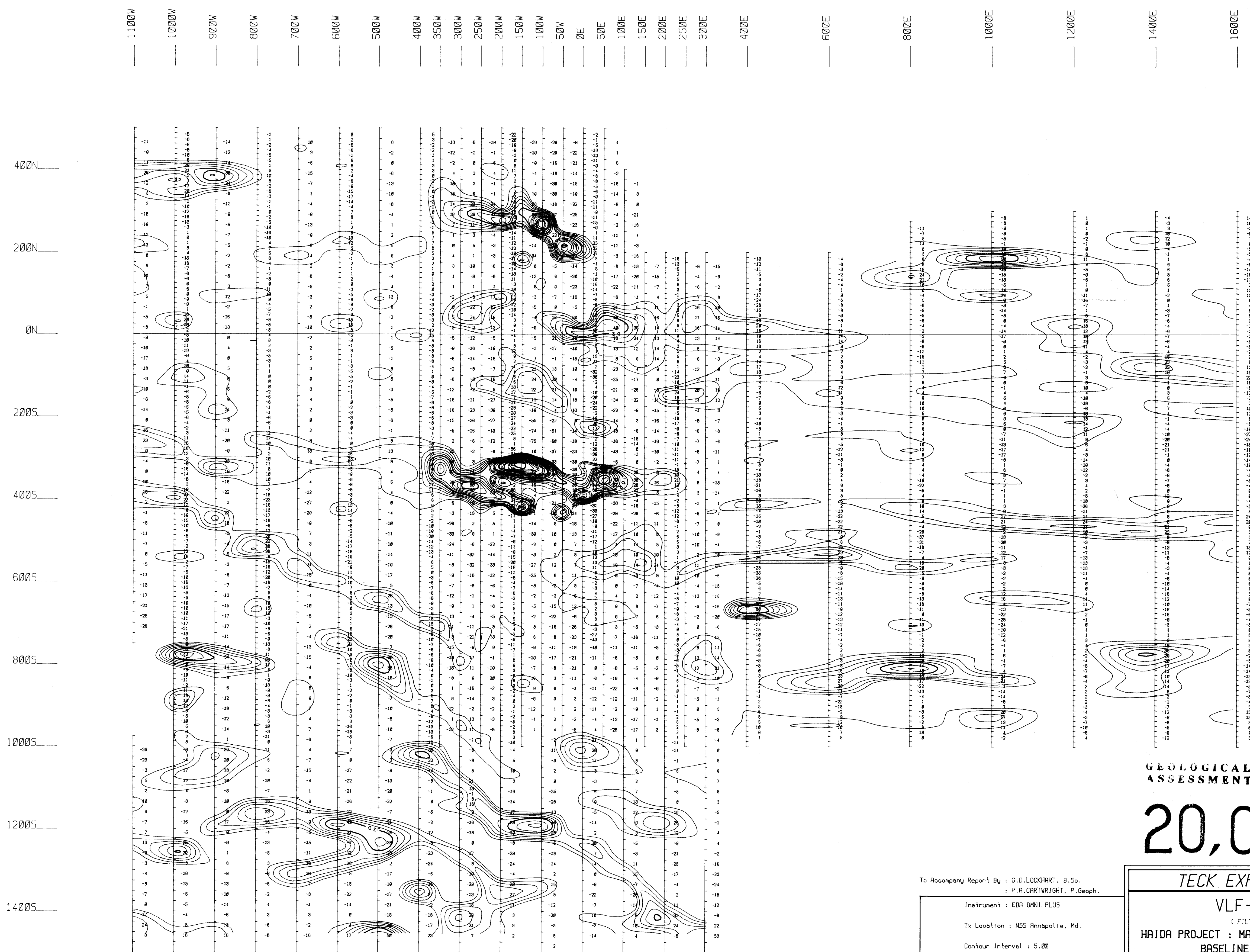
Instrument : EDA OMNI PLUS  
Vertical Scale Inphase/Quad : 1 cm = 40.0%

Tx Location : N55 Annapolis, Md.

In-phase : \_\_\_\_\_  
Quadrature : \_\_\_\_\_

Prepar. Crossover

|                                                                             |                     |
|-----------------------------------------------------------------------------|---------------------|
| <b>TECK EXPLORATIONS LTD.</b>                                               |                     |
| <b>VLF-EM SURVEY</b>                                                        |                     |
| HAIDA PROJECT : MAIN GRID KAMLOOPS M.D., B.C.<br>BASELINE AZIMUTH : 90 Deg. |                     |
| SCALE = 1: 5000                                                             | DATE : OCT/NOV 1989 |
| SURVEY BY : GDL                                                             | NTS : 92P8/9        |
| FILE : VPPMAIN.EXT                                                          | FREQ. : 21.4 KHz.   |
| Pacific Geophysical Ltd.                                                    |                     |



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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To Accompany Report By : G.D. LOCKHART, B.Sc.  
: P.A. CARTWRIGHT, P. Geoph.

Instrument : EDA DMN1 PLUS  
Tx Location : N55 Annapolis, Md.  
Contour Interval : 5.0%  
( 1 pass through a 3 pt. Honning Filter.)  
( 1 pass through a 9 pt. Honning Filter.)

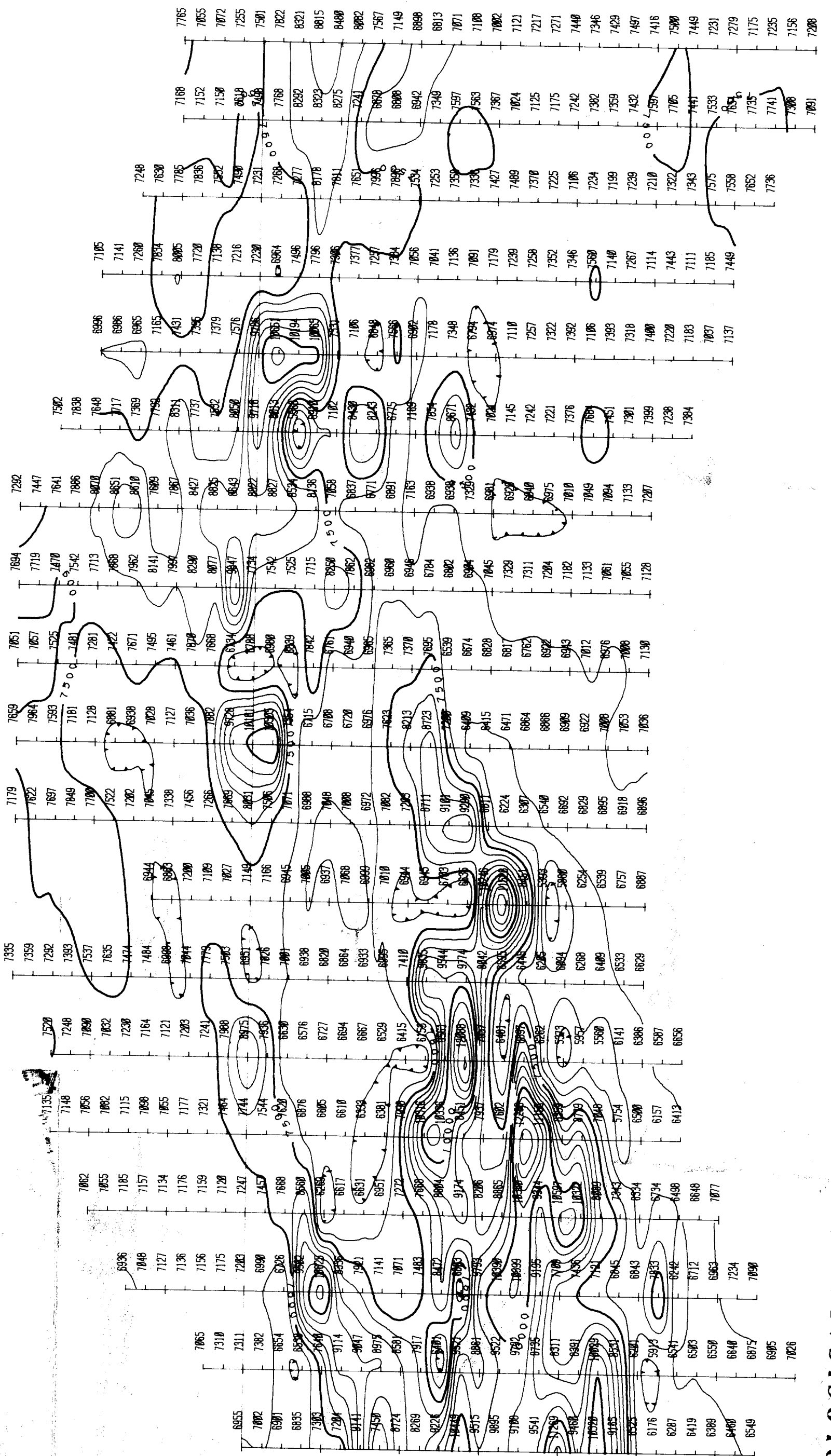
TECK EXPLORATIONS LTD.  
VLF-EM SURVEY  
( FILTERED CONTOUR PRESENTATION )  
HAIDA PROJECT : MAIN GRID KAMLOOPS M.D., B.C.  
BASELINE AZIMUTH : 90 Deg.

---

SCALE = 1 : 5000      DATE : OCT/NOV 1989  
SURVEY BY : GDL      NTS : 92P8/9  
FILE : C/VFMAIN.EXT      FREQ.: 21.4 KHz.  
Pacific Geophysical Ltd.

19005  
20005  
21005  
22005  
23005  
24005  
25005  
26005  
27005  
28005  
29005  
30005  
31005  
32005  
33005  
34005  
35005  
36005  
37005

2900E  
3100E  
3300E  
3500E  
3700E  
3900E



To Accompany Report By: G.D. LOCKHART, B.Sc.  
P.A. CHARTWRIGHT, P.Geoph.

Instrument: EDR OMNI PLUS  
Field: TOTAL  
Datum: 49,000 nT  
Contour Interval: 500 nT

**TECK EXPLORATIONS LTD.**  
**MAGNETOMETER SURVEY**

HAIDA PROJECT : EAST GRID KAMLOOPS M.D., B.C.  
BASELINE AZIMUTH : 0 Deg.

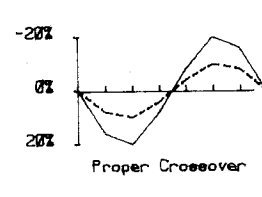
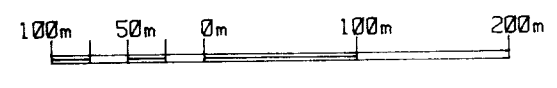
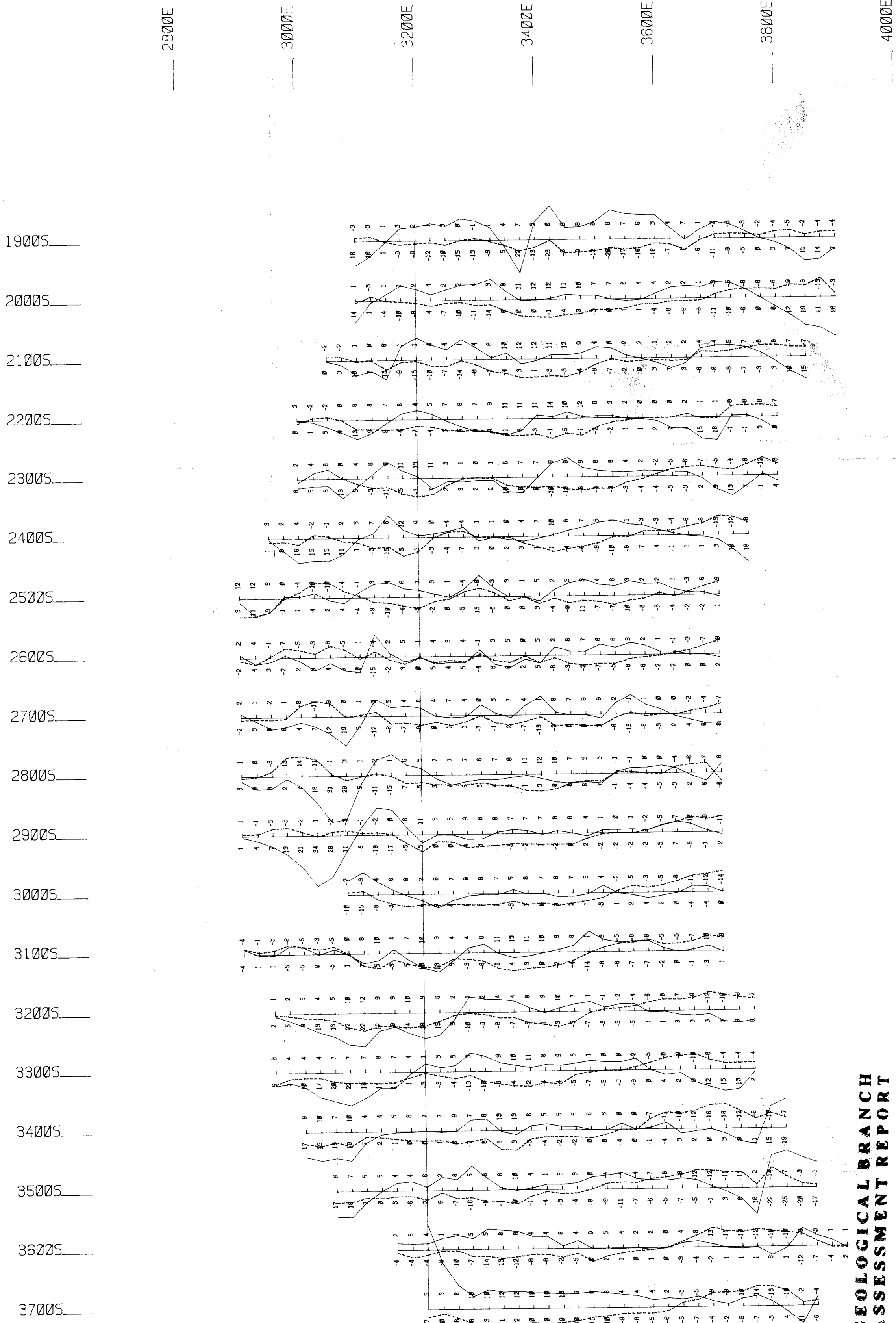
SCALE = 1 : 5000      DATE : OCT 1989  
SURVEY BY : GDL      NTS : 92P8/9  
FILE : C/MEAST.EXT  
Pacific Geophysical Ltd.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

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To accompany Report By : G.D. LOCKHART, B.Sc.  
 : P.A. CRUTWRIGHT, P.Geoph.

Instrument : EDI OMNI PLUS  
 Vertical Scale Inphase/Quad : 1 cm = 20.0%

Tx Location : NLK Seattle, Wash.

In-phase : \_\_\_\_\_  
 Quadrature : \_\_\_\_\_

|                                                                            |                   |
|----------------------------------------------------------------------------|-------------------|
| <b>TECK EXPLORATIONS LTD.</b>                                              |                   |
| <b>VLF-EM SURVEY</b>                                                       |                   |
| HAIDA PROJECT : EAST GRID KAMLOOPS M.D., B.C.<br>BASELINE AZIMUTH : 0 Deg. |                   |
| SCALE = 1 : 5000                                                           | DATE : OCT 1989   |
| SURVEY BY : GDL                                                            | NTS : 92P8/9      |
| FILE : VPEAST.EXT                                                          | FREQ. : 24.8 KHz. |
| Pacific Geophysical Ltd.                                                   |                   |

**GEOLOGICAL BRANCH  
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19005  
20005  
21005  
22005  
23005  
24005  
25005  
26005  
27005  
28005  
29005  
30005  
31005  
32005  
33005  
34005  
35005  
36005  
37005

2800E  
3000E  
3200E  
3400E  
3600E  
3800E  
4000E



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

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To Accompany Report By : G.D. LOCKHART, B.Sc.  
: P.A. CARTWRIGHT, P.Geophys.

Instrument : EDI DMNT PLUS

Tx Location : NLK Seattle, Wash.  
Contour Interval : 5.0 nT  
( 1 pass through a 9 pt. Hanning Filter.)  
( 1 pass through a 3 pt. Hanning Filter.)  
Field Strength Presentation

**TECK EXPLORATIONS LTD.**

**VLF-EM SURVEY**

( FILTERED CONTOUR PRESENTATION )

**HAIDA PROJECT : EAST GRID KAMLOOPS M.D., B.C.  
BASELINE AZIMUTH : 0 Deg.**

SCALE = 1 : 5000

DATE : OCT 1989

SURVEY BY : GDL

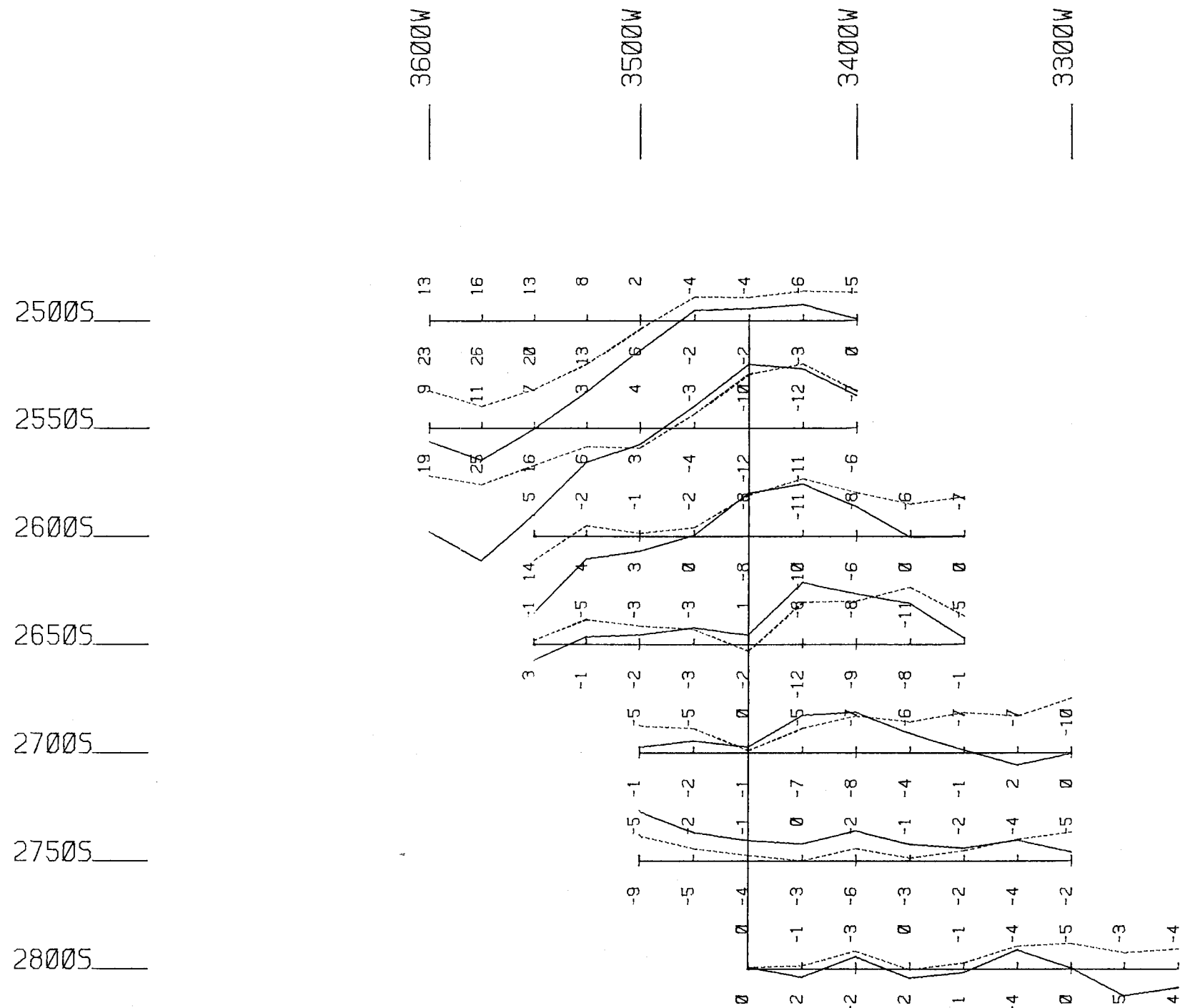
NTS : 92P8/9

FILE : C/VFEAST.EXT

FREQ. : 24.8 KHz.

Pacific Geophysical Ltd.





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

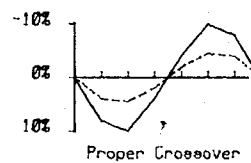
20,014  
Part 3 of 3

To Accompany Report By : G.D. LOCKHART, B.Sc.  
: P.A. CARTWRIGHT, P.Geoph.

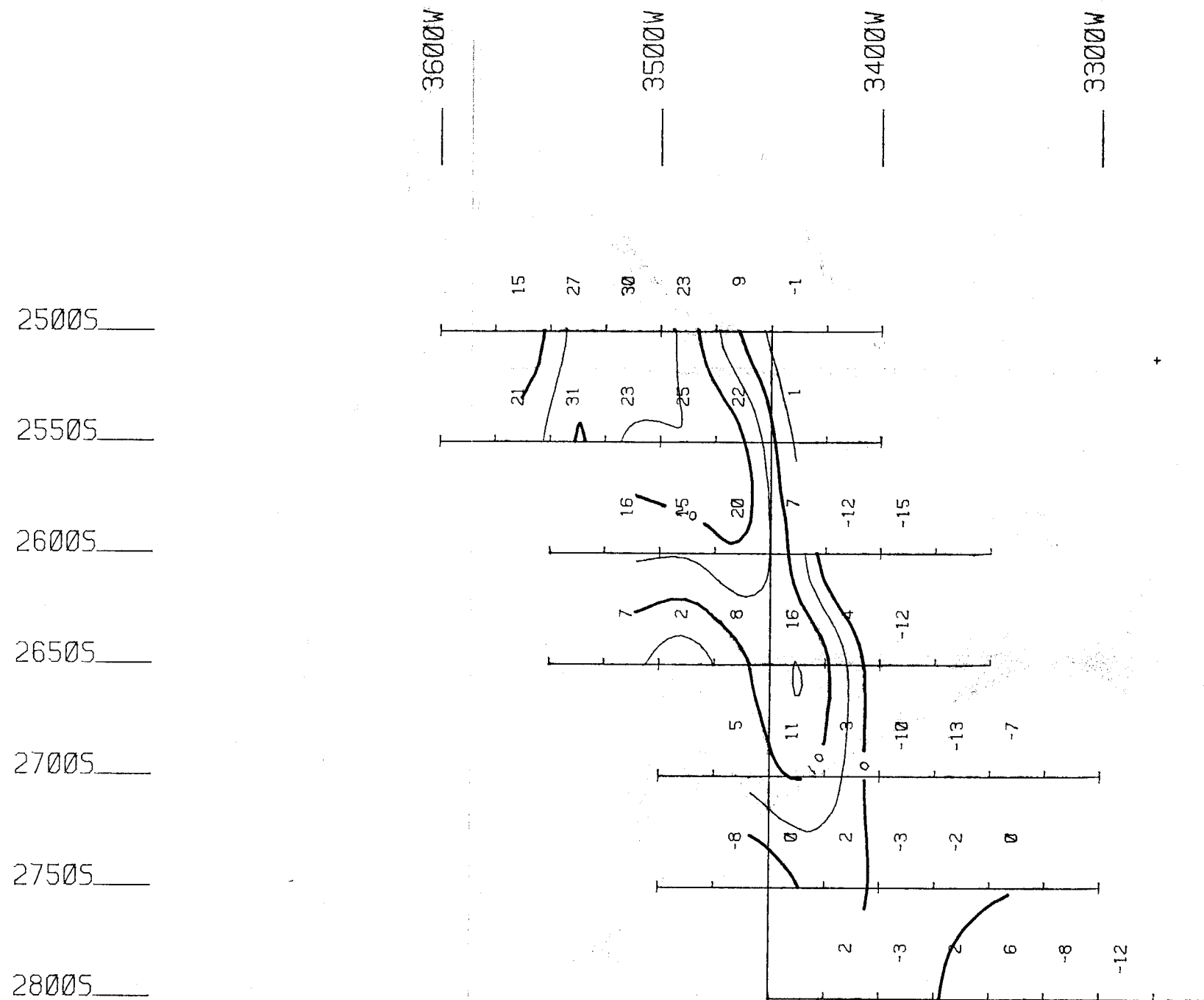
Instrument : EDA OMNI PLUS  
Vertical Scale Inphase/Quad : 1 cm = 10.0%

Tx Location : NLK Seattle, Wash.

In-phase : ———  
Quadrature : - - - - -



|                                                                            |                   |
|----------------------------------------------------------------------------|-------------------|
| TECK EXPLORATIONS LTD.                                                     |                   |
| VLF-EM SURVEY                                                              |                   |
| HAIDA PROJECT ; WEST GRID KAMLOOPS M.D., B.C.<br>BASELINE AZIMUTH : 0 Deg. |                   |
| SCALE = 1 : 2500                                                           | DATE : NOV 1989   |
| SURVEY BY : GDL                                                            | NTS : 92P8/9      |
| FILE : VPWEST.EXT                                                          | FREQ. : 24.8 KHz. |
| Pacific Geophysical Ltd.                                                   |                   |



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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To Accompany Report By : G.D.LOCKHART, B.Sc.  
: P.A.CARTWRIGHT, P.Geoph.

Instrument : EDA OMNI PLUS  
Tx Location : NLK Seattle, Wash.  
Contour Interval : 5 %

|                                                                            |                  |
|----------------------------------------------------------------------------|------------------|
| <b>TECK EXPLORATIONS LTD.</b>                                              |                  |
| <b>VLF-EM SURVEY</b>                                                       |                  |
| HAIDA PROJECT : WEST GRID KAMLOOPS M.D., B.C.<br>BASELINE AZIMUTH : 0 Deg. |                  |
| SCALE = 1 : 2500                                                           | DATE : NOV 1989  |
| SURVEY BY : GDL                                                            | NTS : 92P8/9     |
| FILE : C/VFWEST.EXT                                                        | FREQ.: 24.8 KHz. |
| Pacific Geophysical Ltd.                                                   |                  |



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To Accompany Report By : G.D.LOCKHART, B.Sc.  
: P.A.CARTWRIGHT, P.Geoph.

Instrument : EDA OMNI PLUS

Field : TOTAL

Datum : 49000 nT

Contour Interval : 100 nT

Interpreted Fault Structure :

TECK EXPLORATIONS LTD.

MAGNETOMETER SURVEY

HAIDA PROJECT : WEST GRID KAMLOOPS M.D., B.C.  
BASELINE AZIMUTH : 0 Deg.

SCALE = 1 : 2500

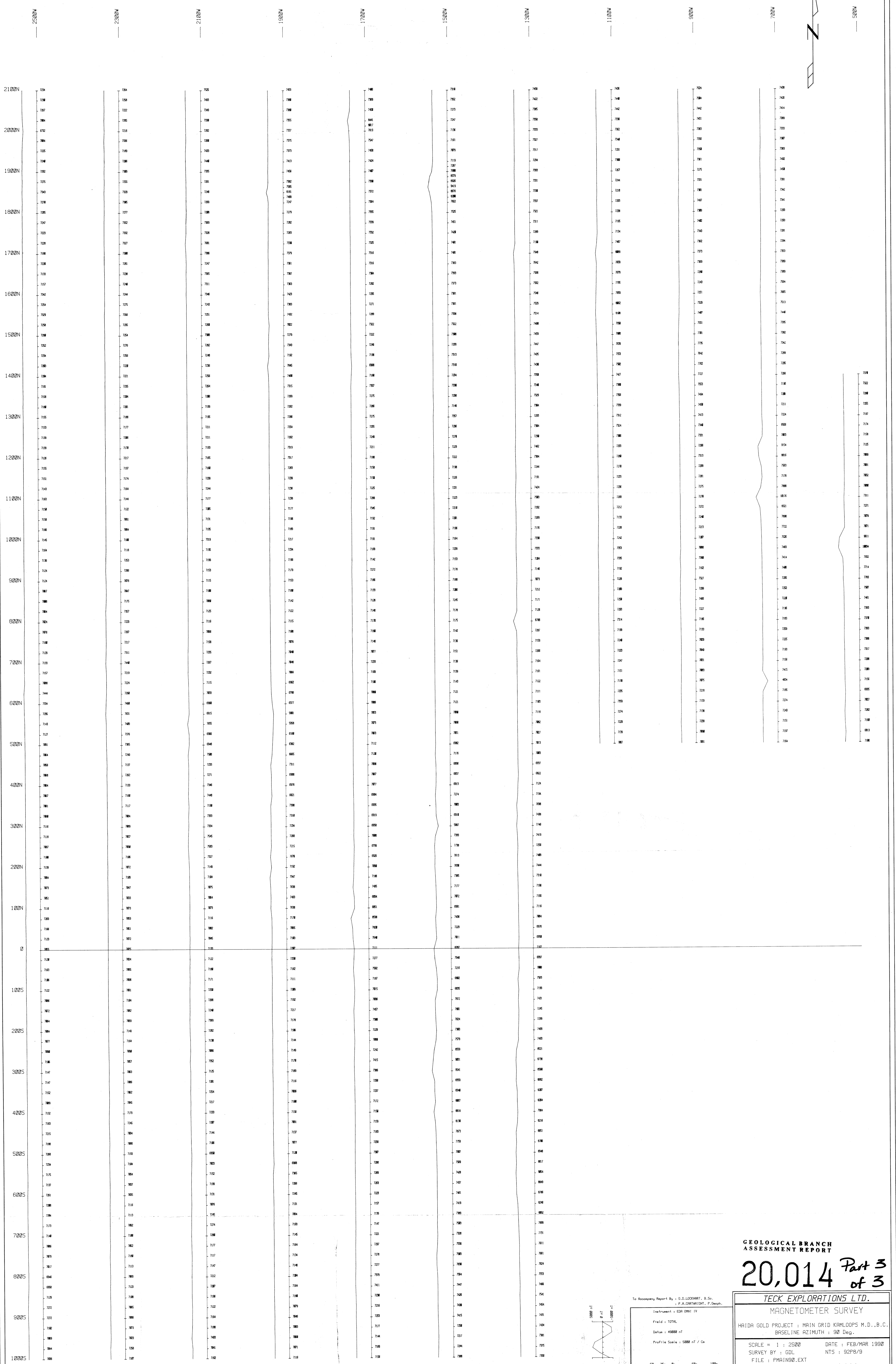
DATE : NOV 1989

SURVEY BY : GDL

NTS : 92P8/9

FILE : C/MWEST.EXT

Pacific Geophysical Ltd.



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
**20,014** Part 3  
 of 3  
**TECK EXPLORATIONS LTD.**  
 MAGNETOMETER SURVEY  
 HAIDA GOLD PROJECT : MAIN GRID KALLOOPS H.D.B.C.  
 BASELINE AZIMUTH : 90 Deg.  
 SCALE = 1 : 2500 DATE : FEB/MAR 1990  
 SURVEY BY : GDL NTS : 92P8/9  
 FILE : PMAIN90.EXT  
 Pacific Geophysical Ltd.

To Accompany Report By : G.D. LOCKHART, B.Sc.  
 & P.B. CHETWIKHIGHT, P.Geoph.  
 Instrument : EDA DREI IV  
 Field : TOTAL  
 Datum : 49880 nT  
 Profile Scale : 5000 nT / Cm  
 0m 5m 10m 15m 19m

