

LOGISTICAL REPORT  
INDUCED POLARIZATION/RESISTIVITY AND MAGNETOMETER SURVEYS

OLYMPIC PROPERTY  
DAWSON AREA, YUKON

on behalf of

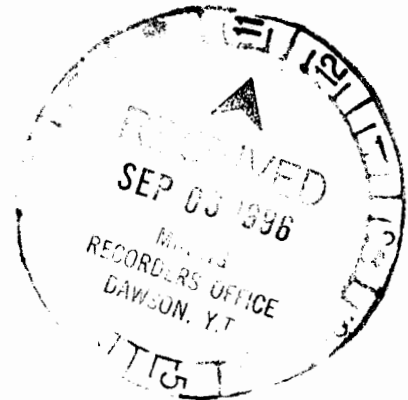
COMINCO LTD.  
7th floor - 409 Granville Street  
Vancouver, B.C. V6C 1T2

Field work completed: July 17 to August 7, 1996

by

Alan Scott, Geophysicist  
SCOTT GEOPHYSICS LTD.  
4013 West 14th Avenue  
Vancouver, B.C. V6R 2X3

August 14, 1996



This report was prepared by  
the Geological Survey of Canada  
under Section 59 (5) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$\_\_\_\_\_.

*M. B. [Signature]*  
Regional Manager, Exploration and  
Geological Services for Commission  
of Yukon Territory.

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Appendix

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Materials included in body of report

Chargeability/resistivity pseudosections	map pocket 1
Data listing of magnetometer survey values	map pocket 2
One (1) floppy disk with all final survey data	map pocket 3

Accompanying Maps (1:10000 scale)  
(vellum originals, three blackline copies of each)

Chargeability/resistivity pseudosections - Lines 5900W-6800W	map roll
Chargeability/resistivity pseudosections - Lines 7100W-8000W	map roll
Chargeability/resistivity pseudosections - Lines 8300W-9200W	map roll
Magnetometer contour plan	map roll
Magnetometer profile plan	map roll

## 1. INTRODUCTION

An induced polarization/resistivity survey (IP survey) and a total field magnetometer survey were performed on portions of the Olympic Property. The field work was completed from July 17 to August 7, 1996. The survey was conducted by Scott Geophysics Ltd. on behalf of Cominco Ltd.

The pole dipole array was used on the IP survey, with an electrode spacing ("a" spacing) of 100 metres and at current pole to receiver dipole separations of 1 to 6 ("n"=1-6). The online current electrode was to the north of the receiving electrodes on all survey lines (array heading south). The magnetometer survey was performed at a reading interval of 25 metres and all field readings were corrected for diurnal drift with reference to a fixed base station cycling at 10 second intervals.

This report describes the instrumentation and procedures, and presents the results of the survey.

## 2. SURVEY COVERAGE AND DATA PRESENTATION

A total of 36.6 line kms of IP survey and 19.2 line kms of mag survey were completed on the Olympic Property.

The chargeability and resistivity results are presented in pseudosection format and as contour plans for the triangular filtered values. The legends give details of the form of presentation and contour intervals for each respective plot.

The mag survey results are presented both as a contour plan and as a stacked profile plan. The legends give details of the scales and contour intervals for each plot.

The floppy disk at the rear of this report contains edited ASCII format files of all survey data.

## 3. PERSONNEL

Ken Moir, geophysical technician, was the party chief on the survey on behalf of Scott Geophysics Ltd. Bob Holroyd, geophysicist, was the representative on behalf of Cominco Ltd.

#### 4. INSTRUMENTATION

A Scintrex IPR12 receiver and IRIS VIP3000 (3.0 kw) transmitter were used on the IP survey. Readings were taken in the time domain using a 2 second current pulse (0.125 Hz).

The chargeability plotted on the accompanying pseudosections and plan maps is for the interval 120 to 1020 milliseconds after shutoff.

Two Scintrex IGS-MP4 magnetometers were used for the mag survey, with one as the field unit and the other as the fixed base station.

#### 5. RECOMMENDATIONS

A detailed interpretation of these results, and correlation to other work, is required before any specific recommendations could be made.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'Alan Scott', written in a cursive style.

Alan Scott, P. Geos.

Statement of Qualifications

for

Alan Scott, Geophysicist

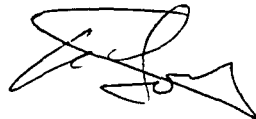
of

4013 West 14th Avenue  
Vancouver, B.C. V6R 2X3

I, Alan Scott, hereby certify the following statements regarding my qualifications, and my involvement in the program of work described in this report.

1. The work was performed by individuals sufficiently trained and qualified for its performance.
2. I have no material interest in the property under consideration in this report, nor in the company on whose behalf the work was performed.
3. I graduated from the University of British Columbia with a Bachelor of Science degree (Geophysics) in 1970, and with a Master of Business Administration degree in 1982.
4. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
5. I have been practicing my profession as a Geophysicist in the field of Mineral Exploration since 1970.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Alan Scott', with a stylized, sweeping flourish at the end.

Alan Scott

COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON  
LINE: 5900W  
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
August/96 Pulse Rate: 2 sec

Current electrode is north of receiving electrodes (array heading South)  
Mx Chargeability is for the interval 120-1020 msecs after shutoff

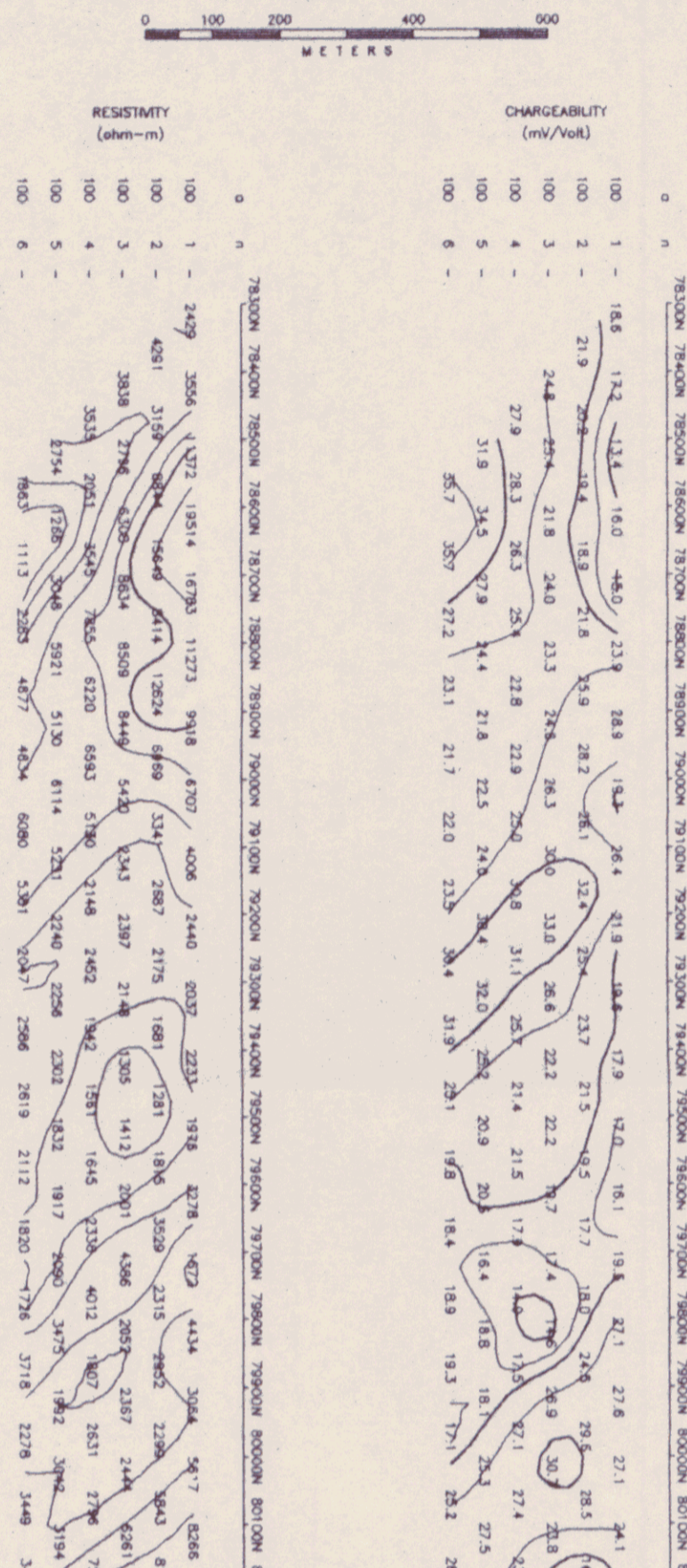


LINE: 5900W

COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON  
LINE: 6500W  
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
August/96 Pulse Rate: 2 sec

Current electrode is north of receiving electrodes (array heading South)  
Mx Chargeability is for the interval 120-1020 msecs after shutoff

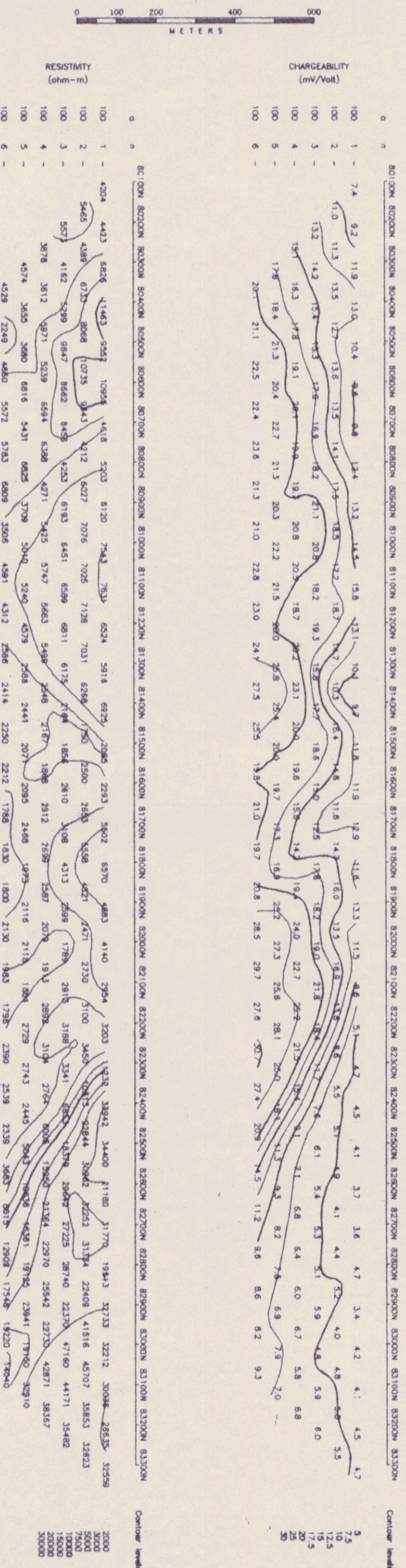


LINE: 6500W

COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON  
LINE: 6200W  
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
August/96 Pulse Rate: 2 sec

Current electrode is north of receiving electrodes (array heading South)  
Mx Chargeability is for the interval 120-1020 msecs after shutoff

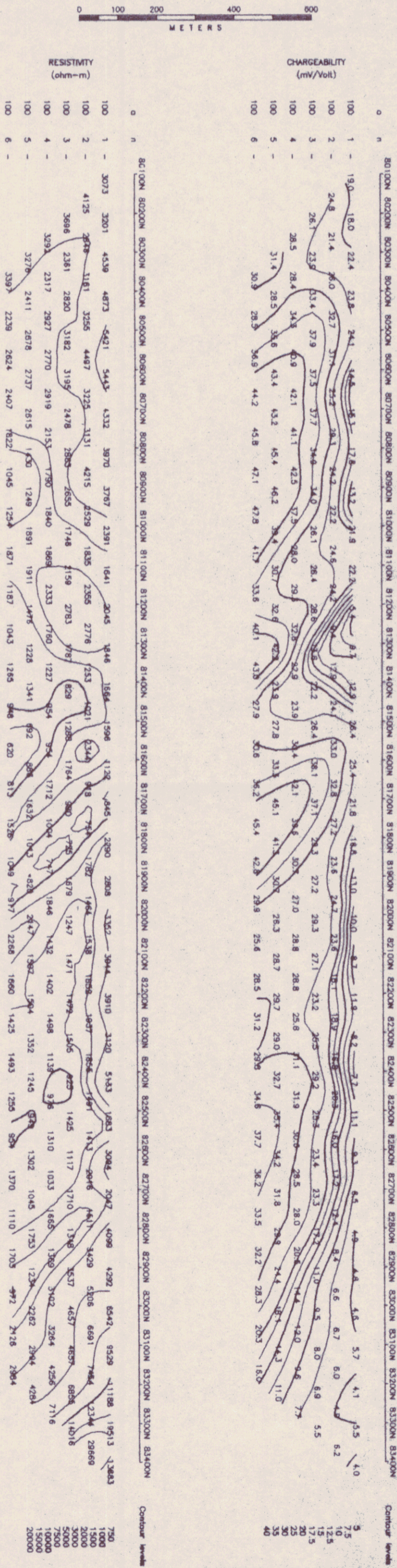


LINE: 6200W

COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON  
LINE: 6800W  
INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
August/96 Pulse Rate: 2 sec

Current electrode is north of receiving electrodes (array heading South)  
Mx Chargeability is for the interval 120-1020 msecs after shutoff



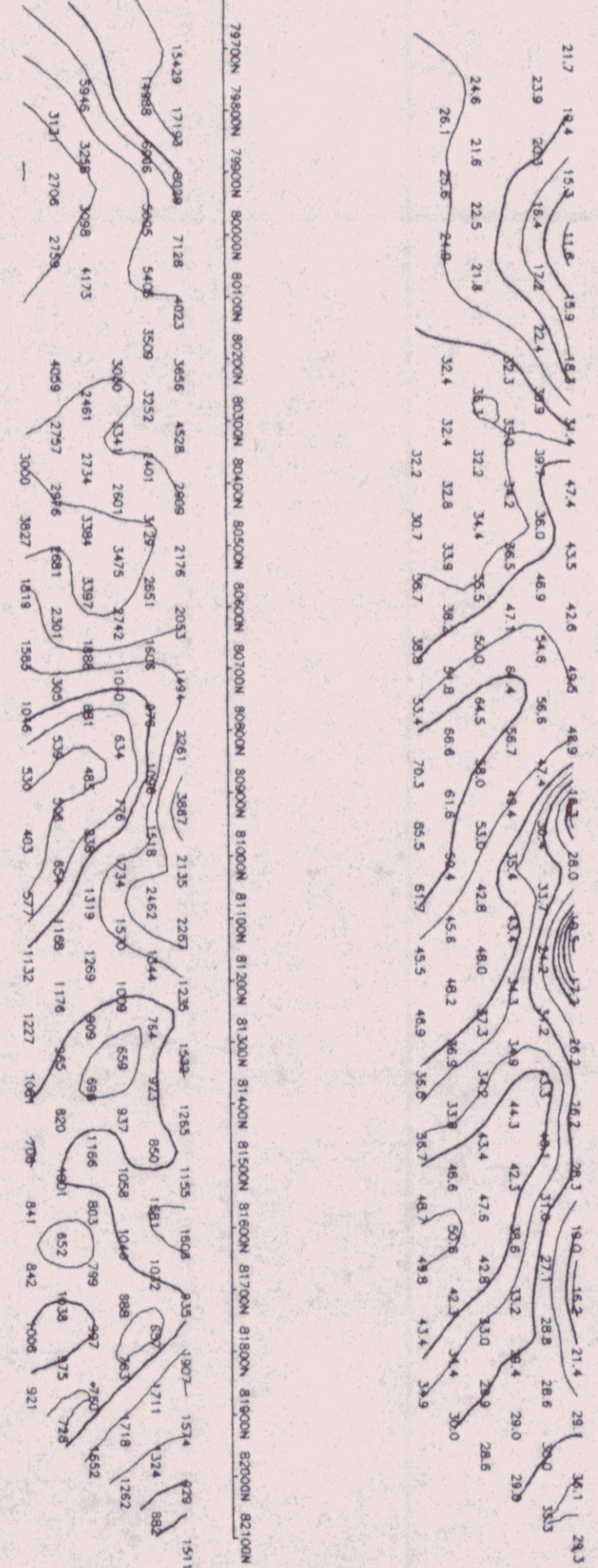
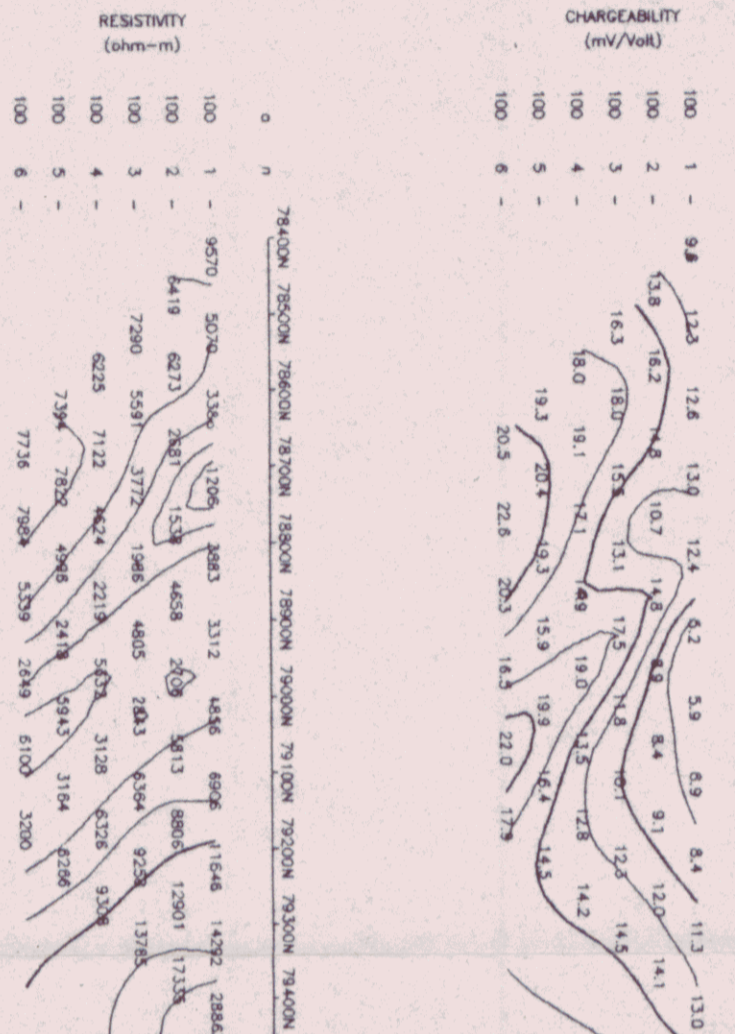
LINE: 6800W

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0935 42

COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON  
LINE: 7100W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
August/96 Pulse Rate: 2 sec  
Current electrode is north of receiving electrodes (array heading South)  
Mx Chargeability is for the interval 120-1020 msecs after shutoff



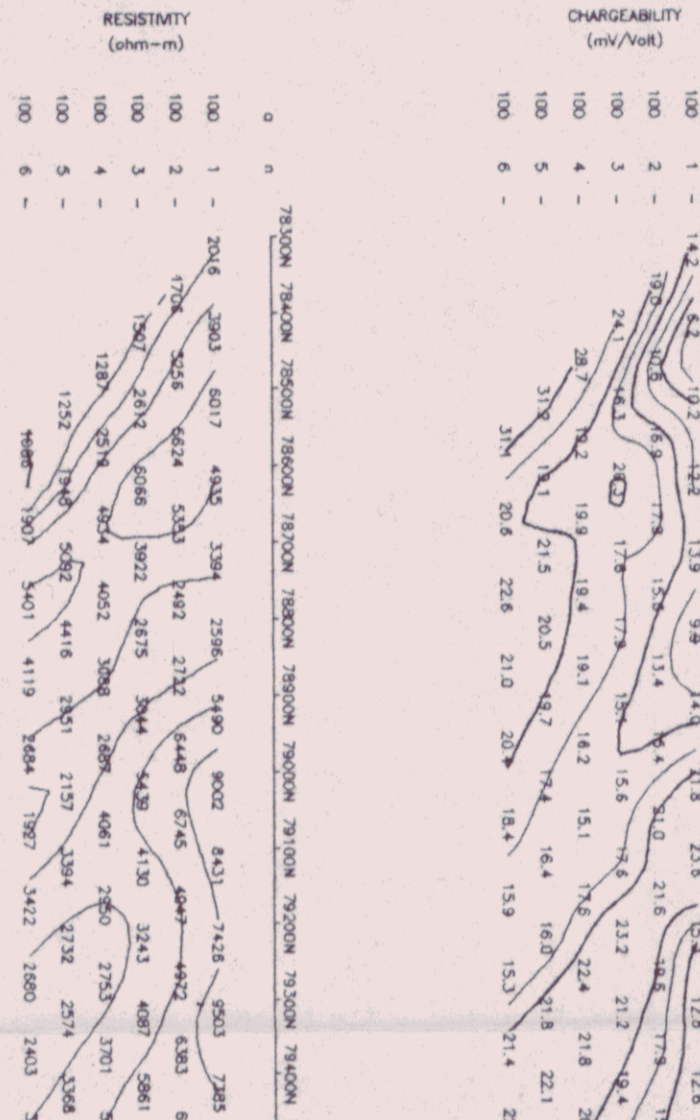
LINE: 7100W

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COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON  
LINE: 7700W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
August/96 Pulse Rate: 2 sec  
Current electrode is north of receiving electrodes (array heading South)  
Mx Chargeability is for the interval 120-1020 msecs after shutoff

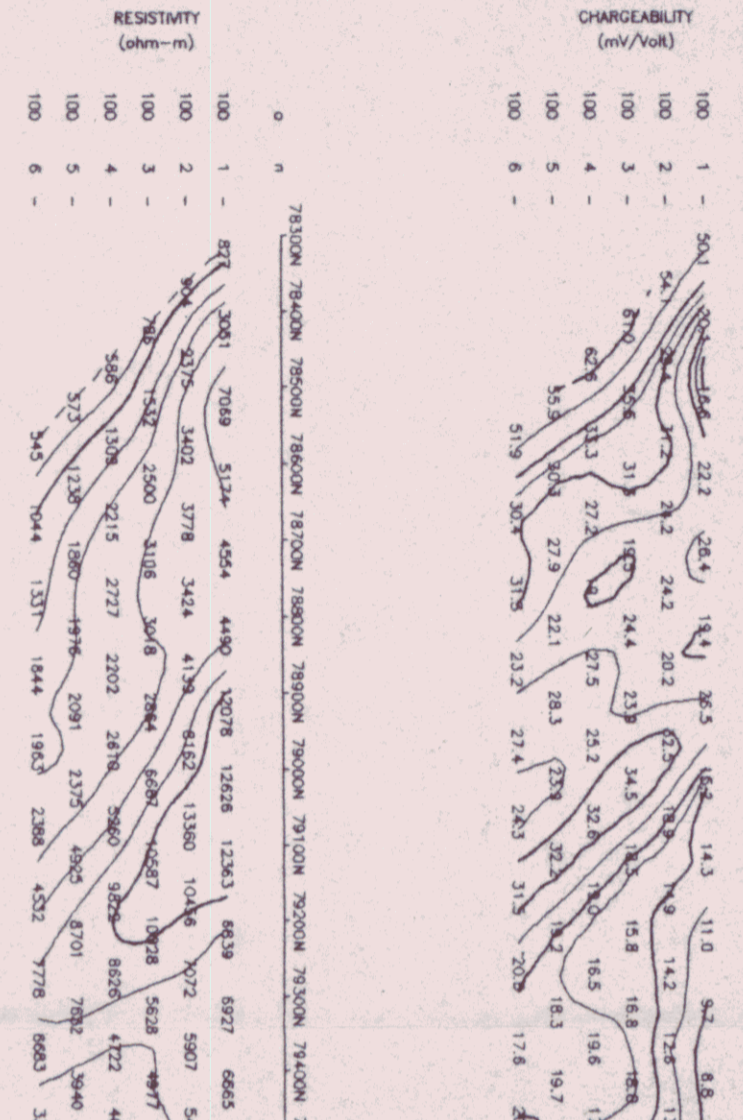


LINE: 7700W

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OLYMPIC PROPERTY, DAWSON AREA, YUKON  
LINE: 8000W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
August/96 Pulse Rate: 2 sec  
Current electrode is north of receiving electrodes (array heading South)  
Mx Chargeability is for the interval 120-1020 msecs after shutoff

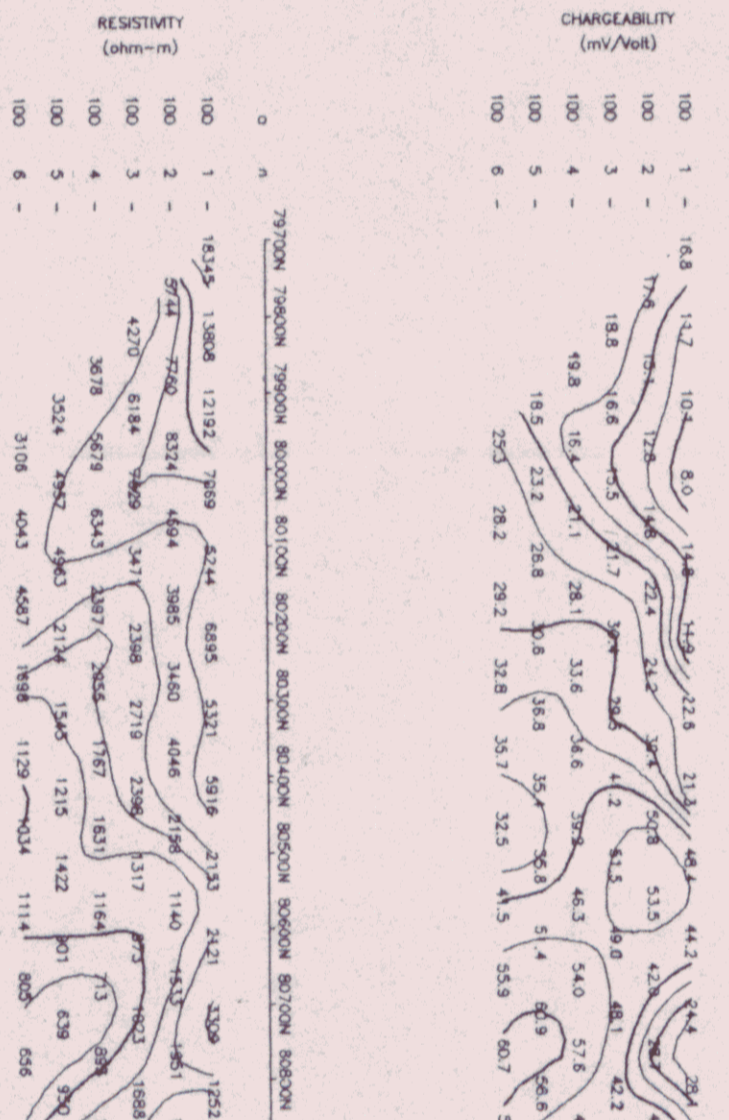


LINE: 8000W

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OLYMPIC PROPERTY, DAWSON AREA, YUKON  
LINE: 7400W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)  
SCOTT GEOPHYSICS LTD. Scintrex IPR12  
August/96 Pulse Rate: 2 sec  
Current electrode is north of receiving electrodes (array heading South)  
Mx Chargeability is for the interval 120-1020 msecs after shutoff



LINE: 7400W

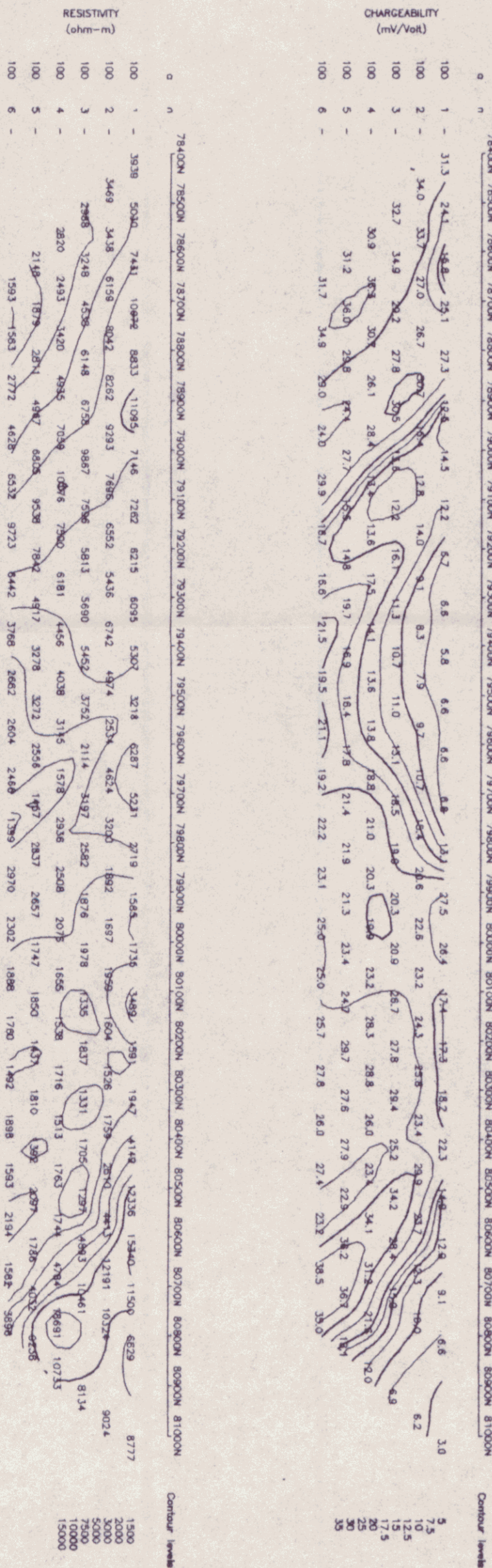
COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON

LINE: 8300W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD. Scintrex IPR12
August/96 Pulse Rate: 2 sec

Current electrode is north of receiving electrodes (array heading South)
Mx Chargeability is for the interval 120-1020 msec after shutoff



LINE: 8300W

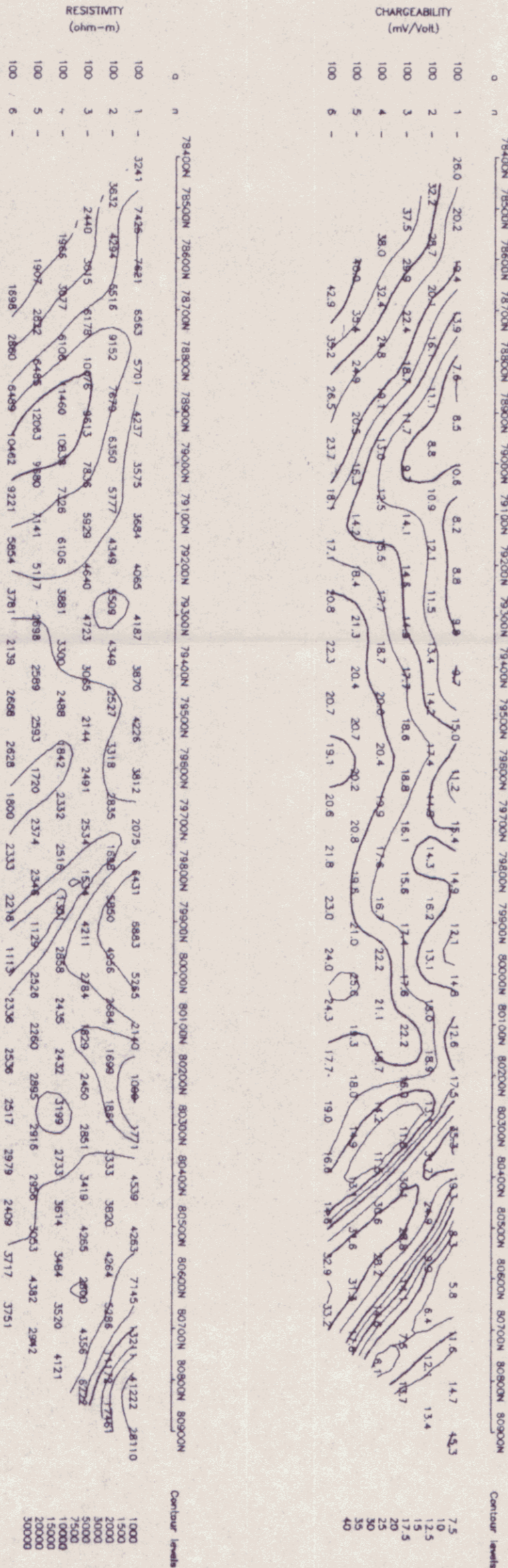
COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON

LINE: 8600W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD. Scintrex IPR12
August/96 Pulse Rate: 2 sec

Current electrode is north of receiving electrodes (array heading South)
Mx Chargeability is for the interval 120-1020 msec after shutoff



LINE: 8600W

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LINE: 8900W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD. Scintrex IPR12
August/96 Pulse Rate: 2 sec

Current electrode is north of receiving electrodes (array heading South)
Mx Chargeability is for the interval 120-1020 msec after shutoff



LINE: 8900W

COMINCO LTD.

OLYMPIC PROPERTY, DAWSON AREA, YUKON

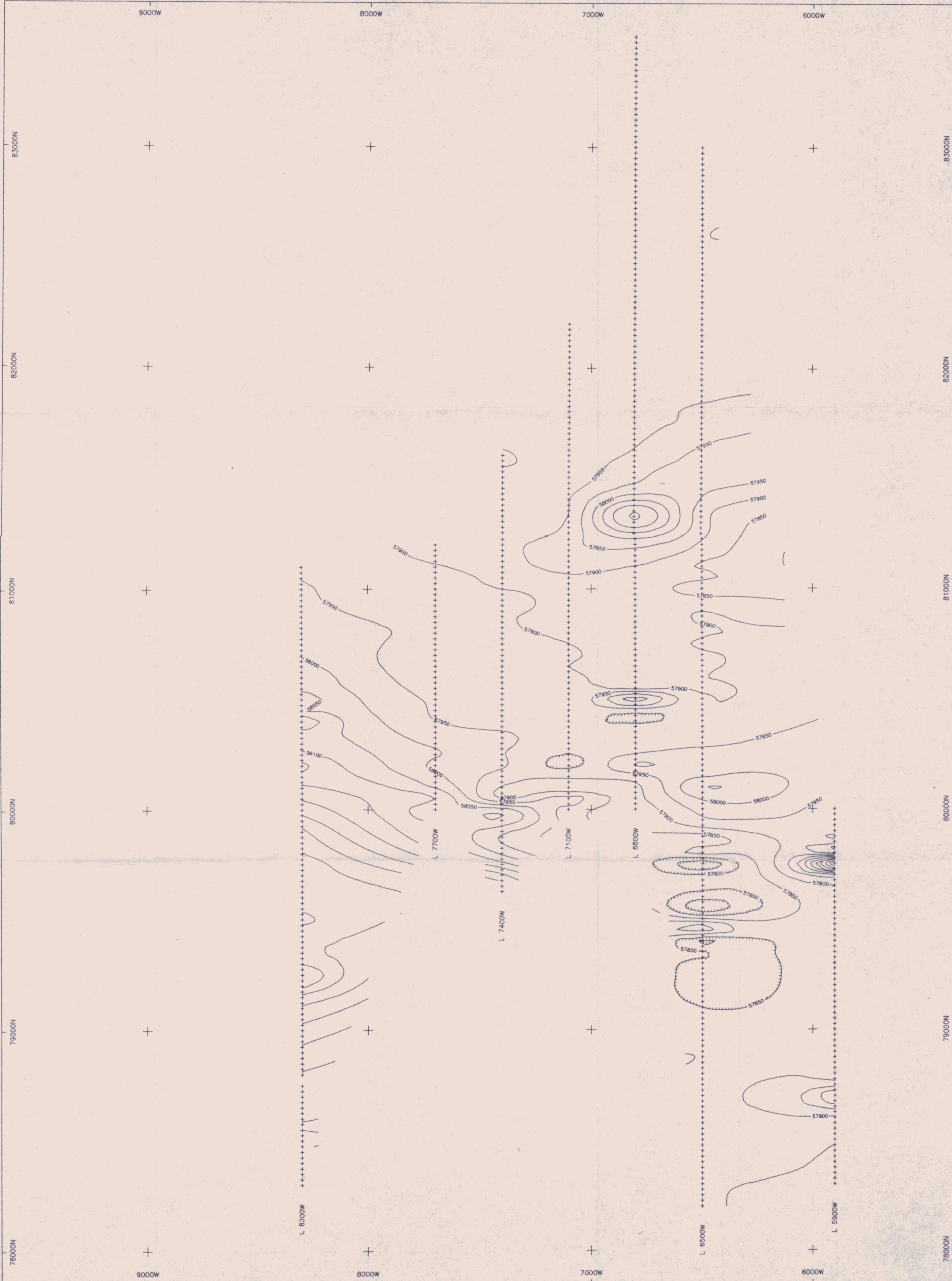
LINE: 9200W

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
SCOTT GEOPHYSICS LTD. Scintrex IPR12
August/96 Pulse Rate: 2 sec

Current electrode is north of receiving electrodes (array heading South)
Mx Chargeability is for the interval 120-1020 msec after shutoff

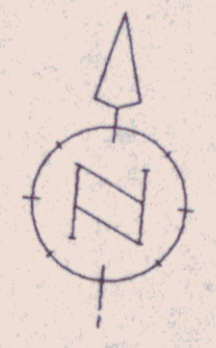


LINE: 9200W

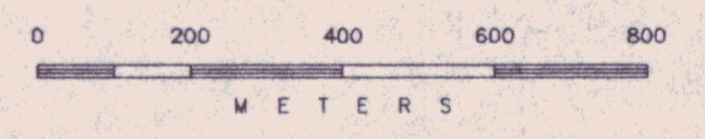


SURVEY SPECIFICATIONS

survey magnetometer	Scintrex MP3
base magnetometer	Scintrex MP3
type	proton
measurement units	total field gammas
diurnal corrections	base station
contour interval	50 gammas
minimum contour	57700 gammas
maximum contour	58400 gammas



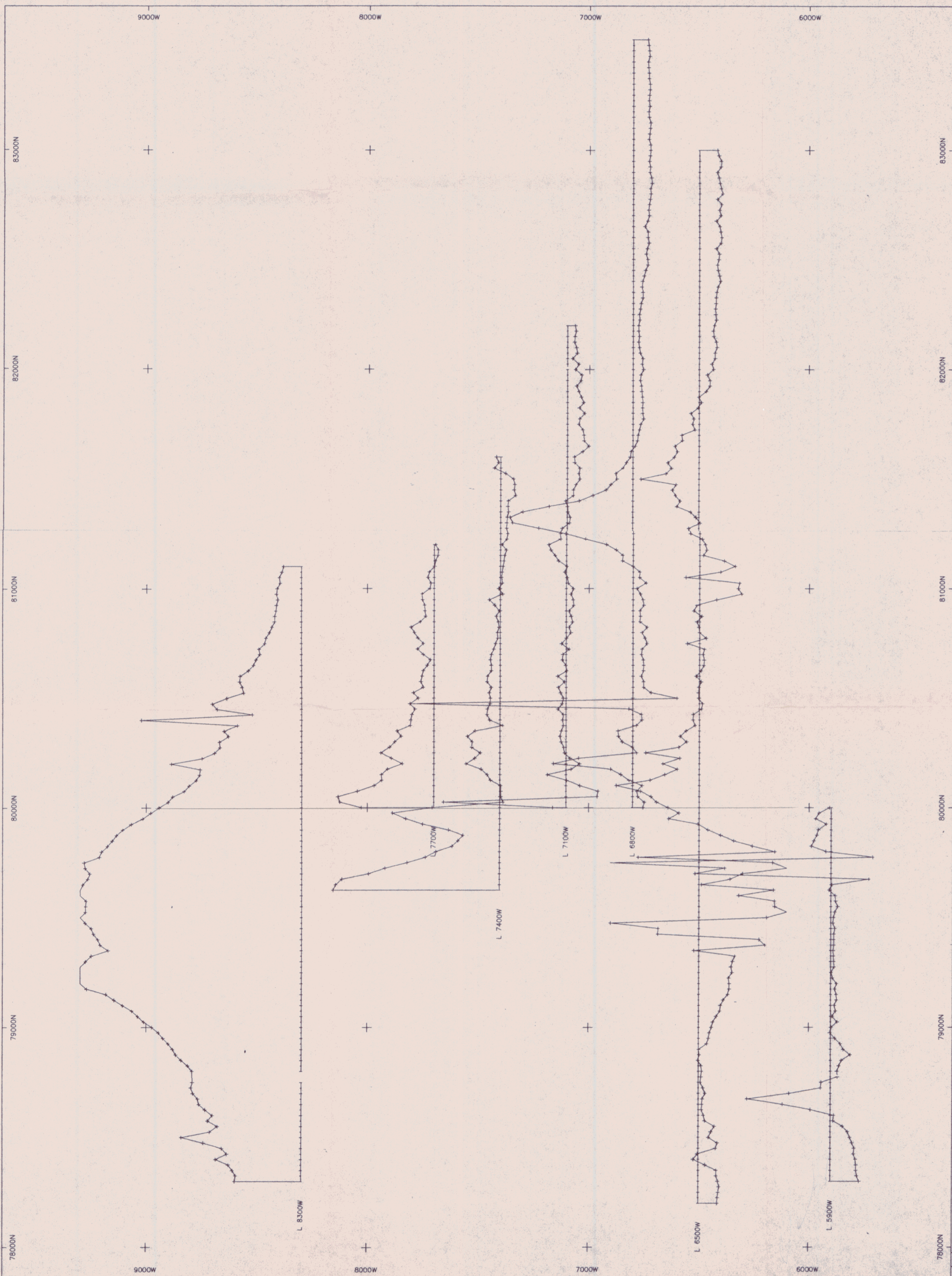
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COMINCO LTD.  
 OLYMPIC PROPERTY  
 DAWSON AREA, YUKON  
 Magnetometer Contour Plan  
 50 gamma Contour Intervals

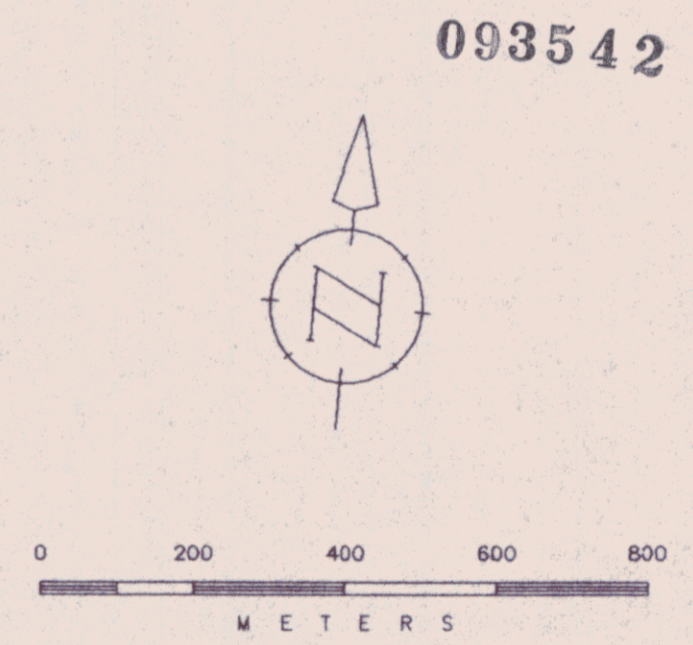
#4

DRAWN BY: ars      DATE: August/96  
 SCOTT GEOPHYSICS LTD.



SURVEY SPECIFICATIONS

survey magnetometer	Scintrex MP3
base magnetometer	Scintrex MP3
type	proton
measurement	total field
units	gammas
diurnal corrections	base station
profile base	57900 gammas
profile scale	50 gammas/cm
positive values	to left of line
upper clipping limit	58400 gammas
lower clipping limit	57700 gammas



COMINCO LTD.  
 OLYMPIC PROPERTY  
 DAWSON AREA, YUKON  
 Magnetometer Profiles  
 Profile base = 57900 gammas  
 Profile scale = 50 gammas/cm

DRAWN BY: ars	DATE: August/96
SCOTT GEOPHYSICS LTD.	

