

LOGISTICAL REPORT
INDUCED POLARIZATION AND RESISTIVITY SURVEYS

LIBBY PROPERTY
SALMO AREA, BRITISH COLUMBIA
N.T.S. 82F/3E

on behalf of

CONSOLIDATED RAMROD GOLD CORPORATION
104 - 135 10th Avenue
Cranbrook, B.C. V1C 2N1

Field work completed: August 11 to 18, 1993

by

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

August 27, 1993

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

23,014

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Maps found in pocket of this report
(Scale 1:2500)

Chargeability/resistivity pseudosections-Lines 2000N-2600N
Chargeability/resistivity pseudosections-Lines 2800N-3200N
Chargeability contour plan (first section)
Resistivity contour plan (first section)

1. INTRODUCTION

An IP survey (chargeability and resistivity) was performed over portions of the Libby Property, in the period August 11 to 18, 1993. The survey was conducted by Scott Geophysics Ltd. on behalf of Consolidated Ramrod Gold Corporation.

The pole dipole array was used for the IP survey, with an "a" spacing of 25 metres, and "n" separations of 1, 2, 3, 4, and 5. The online current electrode was to the west of the receiving electrodes on all survey lines (array heading east).

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

2. SURVEY LOCATION AND COVERAGE

The Libby Property is located approximately 24 kilometres southeast of Salmo, B.C., adjacent to the Canada/US border.

A total of 12.8 line kilometres of IP survey was completed on the Libby Property, at an interline spacing of 200 metres.

3. PERSONNEL

Jim Hawkins, geophysicist, was the party chief on the survey, on behalf of Scott Geophysics.

David Meeks, geologist, was the Ramrod representative for the project.

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

The property is underlain by the Middle Cambrian Nelway Formation and the Ordovician Active Formation. The Nelway consists of a lower member limestone, a middle member dolomite and an upper member limestone. The Active Formation consisting of argillite and minor limestone overlies the Nelway Formation. These rocks form the east limb of a large south plunging anticline. Galena, sphalerite and minor pyrite occur in steeply dipping northwest trending breccia zones and as gently dipping massive sphalerite lenses. Silicification and dolomitization is typically associated with the lead-zinc mineralization.

REFERENCES TO PREVIOUS WORK

4. INSTRUMENTATION

A Scintrex IPR12 receiver and IPC7 transmitter were used for the survey. Readings were taken in the time domain, with a 2 second on/2 second off current pulse.

The chargeability presented on the accompanying pseudosections and plan maps is for the interval 690 to 1050 milliseconds after shutoff. This corresponds to the M7 window for the Scintrex IPR11 receiver.

5. RECOMMENDATIONS

A preliminary evaluation of the results of the IP survey at the Legion Property indicates the presence of moderate to strong chargeability highs that merit further investigation.

The very low resistivities (less than 10 ohm metres) associated with those chargeability highs near the eastern ends of the survey lines, strongly suggest the presence of sheared graphitic rocks, although sulphides may also be present.

Correlation of these results to geological and geochemical information 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 EXPENDITURES

Regarding an I.P. Geophysical Survey
carried out on the Libby 1 mineral claim
from July 10th to August 15th, 1993

Nelson M.D.
N.T.S. Mapsheet 82F/3E

LINECUTTING:

Contractor - Daryl Calder, Cranbrook, B.C.
20.130 km - cut & chained \$11,825.62

I.P. GEOPHYSICAL SURVEY:

Contractor - Scott Geophysics Ltd., Vancouver, B.C.
Geophysicist - J. Hawkins & Technician - K. Moir
8 survey days @ \$995/day 7,960.00
2 travel days @ \$715/day 1,430.00
Field Assistants:
S. Benson-10 days @ \$140/day 1,400.00
P. Mullan-10 days @ \$140/day 1,400.00
E. Bailey-10 days @ \$140/day 1,400.00
Expenses:
Food, Lodging (5 men x 10 days) 2,838.43
Fuel 378.06
Fixed preparations fee 500.00
Maps & Reproductions: 150.00

Total Linecutting & Geophysical Costs = \$29,281.11

Statement of Qualifications

for

Alan Scott, Geophysicist

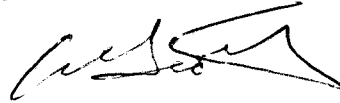
of

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

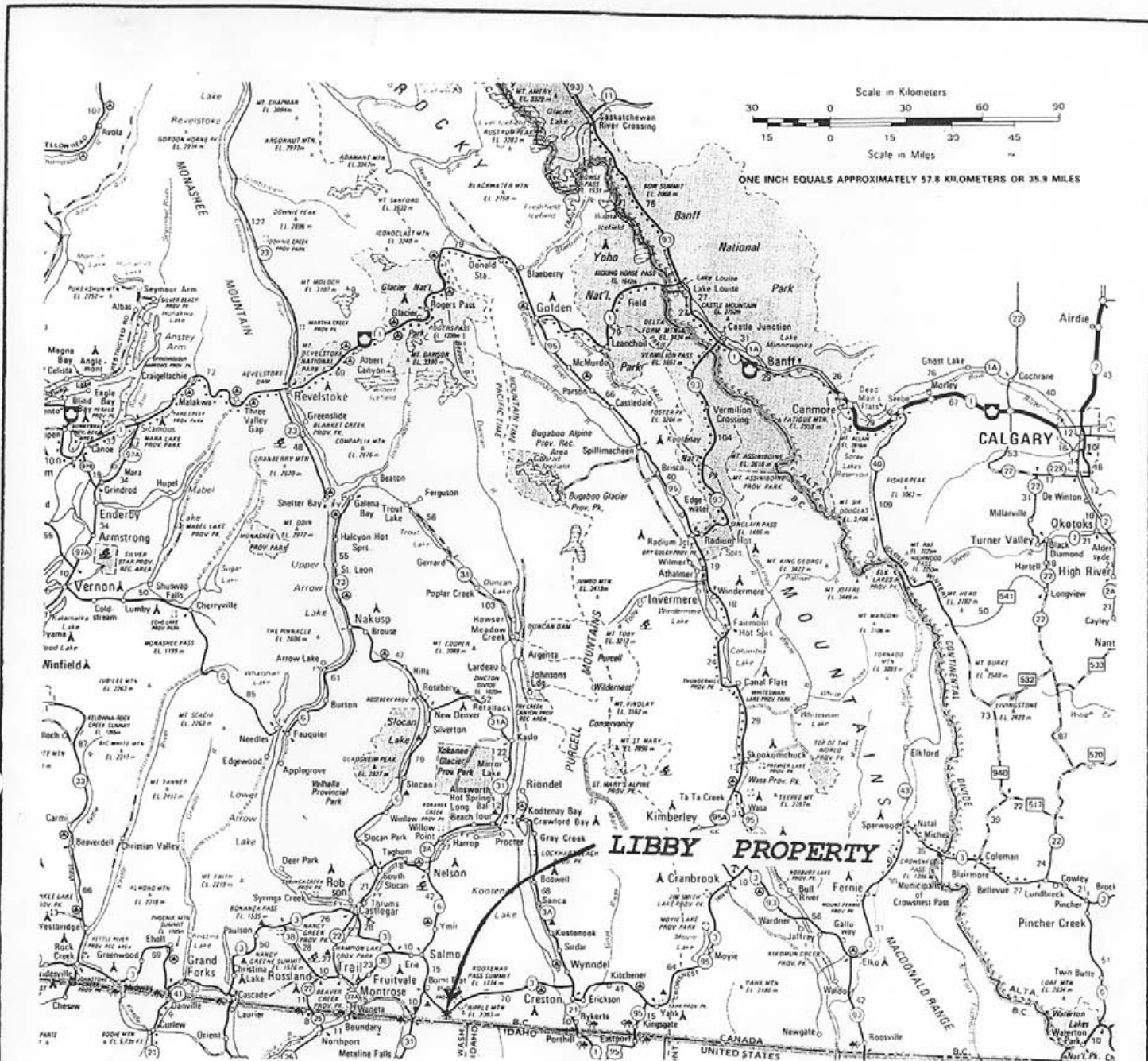
I, Alan Scott, hereby certify the following statements regarding my qualifications, and my involvement in the program of work described in this report.

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', written in a cursive style.

Alan Scott



**Consolidated Ramrod
Gold Corporation**

LIBBY PROPERTY

PROPERTY LOCATION MAP

Scale: as shown Date: Plate:



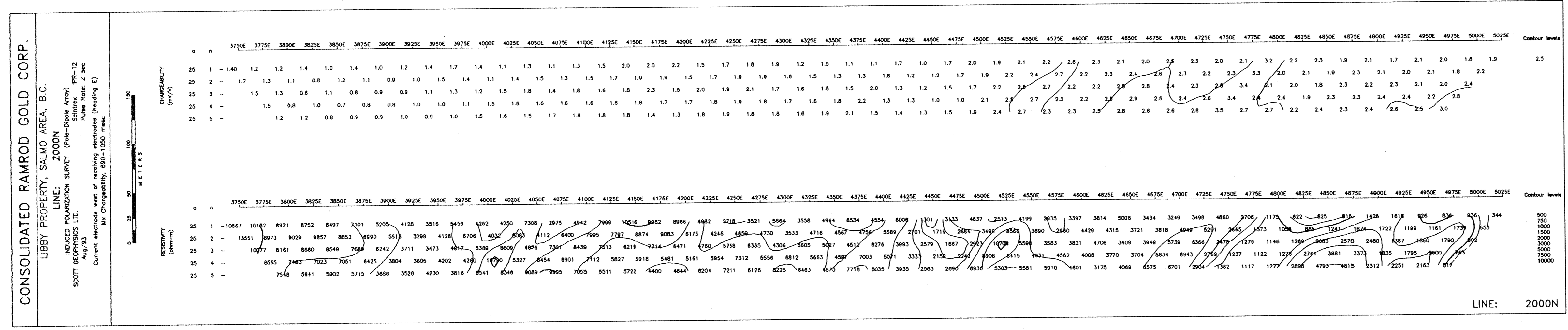
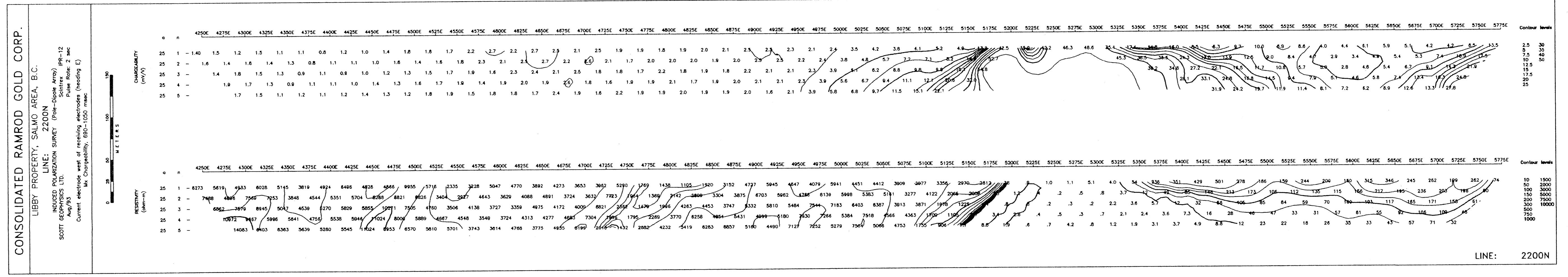
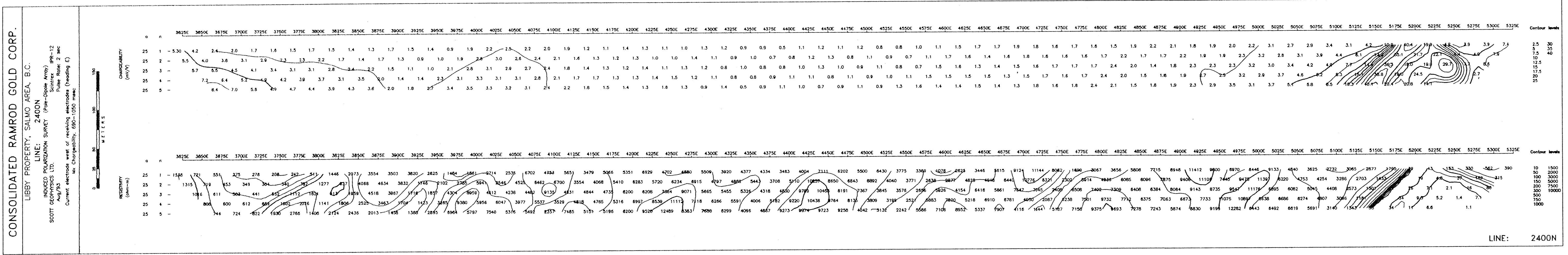
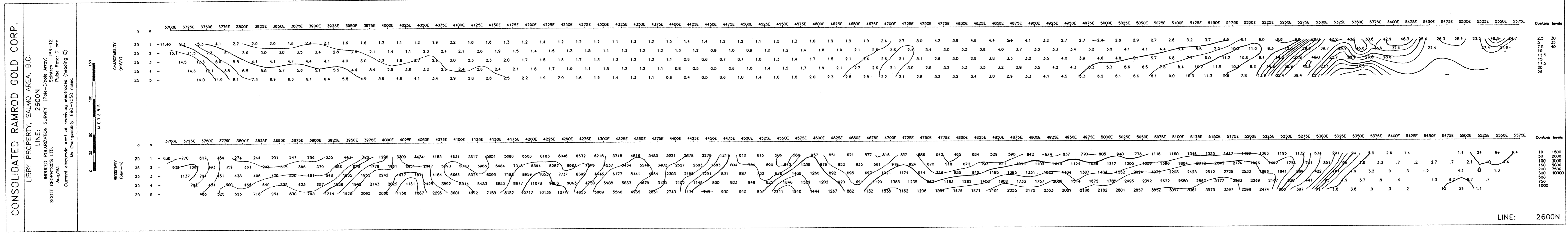
Consolidated Ramrod
Gold Corporation

LIBBY PROPERTY

Claim Location Map
showing grid

N.T.S. MAPSHEET 82F/3

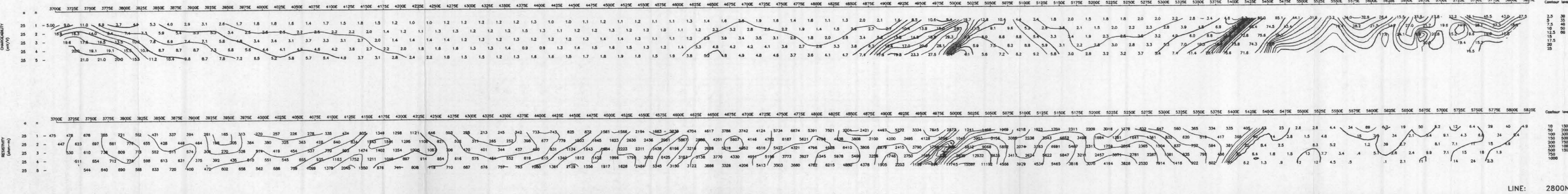
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CONSOLIDATED RAMROD GOLD CORP.

LIBBY PROPERTY, SALMO AREA, B.C.
LINE: 2800N

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
Sullivan
Pulse Rate: 2 sec
Aug/93
Current electrode west of receiving electrode (Reading E)

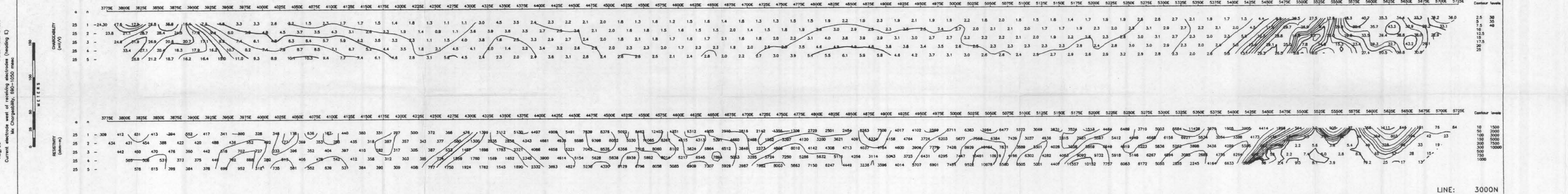


LINE: 2800N

CONSOLIDATED RAMROD GOLD CORP.

LIBBY PROPERTY, SALMO AREA, B.C.
LINE: 3000N

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
Sullivan
Pulse Rate: 2 sec
Aug/93
Current electrode west of receiving electrode (Reading E)

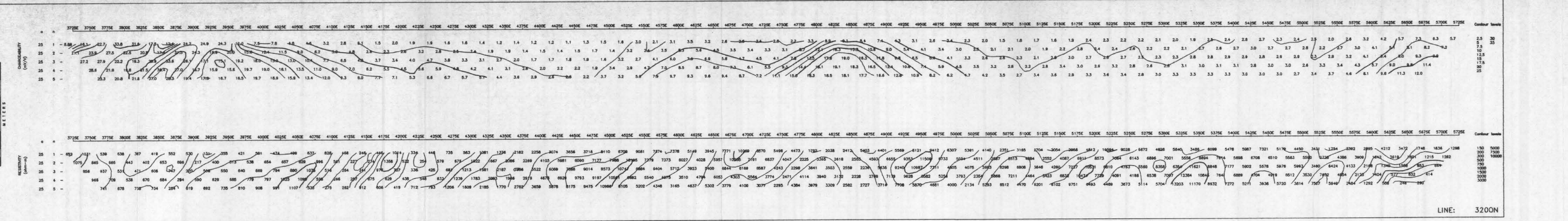


LINE: 3000N

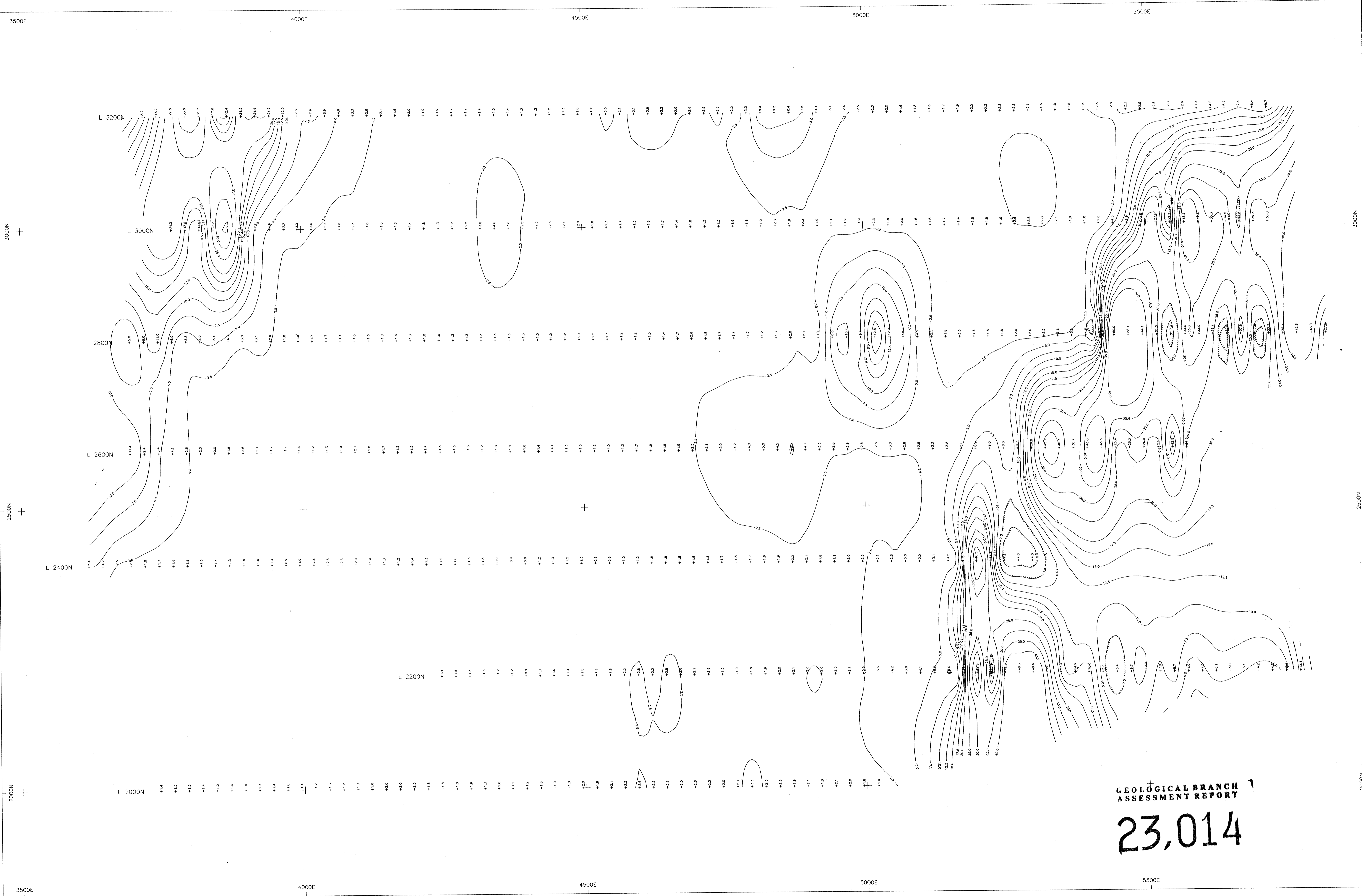
CONSOLIDATED RAMROD GOLD CORP.

LIBBY PROPERTY, SALMO AREA, B.C.
LINE: 3200N

INDUCED POLARIZATION SURVEY (Pole-Dipole Array)
Sullivan
Pulse Rate: 2 sec
Aug/93
Current electrode west of receiving electrode (Reading E)



LINE: 3200N



SURVEY SPECIFICATIONS

receiver Scintrex IPR12
 transmitter Scintrex IPC7
 pulse time 2 seconds
 Mx receive window 890-1050 msec
 mid point 870 msec

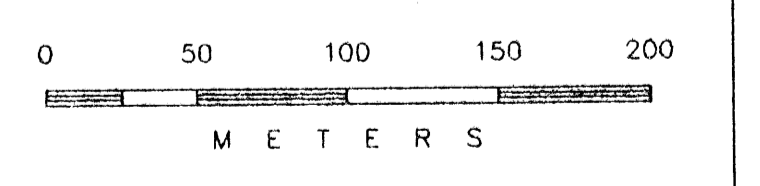
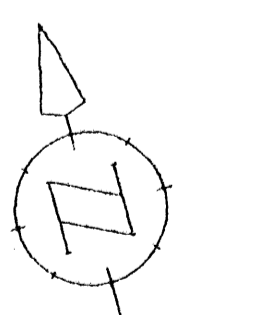
array pole dipole
 a spacing 25 meters
 n separations 1, 2, 3, 4, 5

current electrode west (heading E)

contoured value $\rho = 25 \quad n = 1$

contour intervals:
 2.5, 5.0, 7.5, 10.0, 12.5, 15.0, 17.5
 20.0, 25.0, 30.0, 35.0, 40.0 mV/V

3000N
2500N
2000N



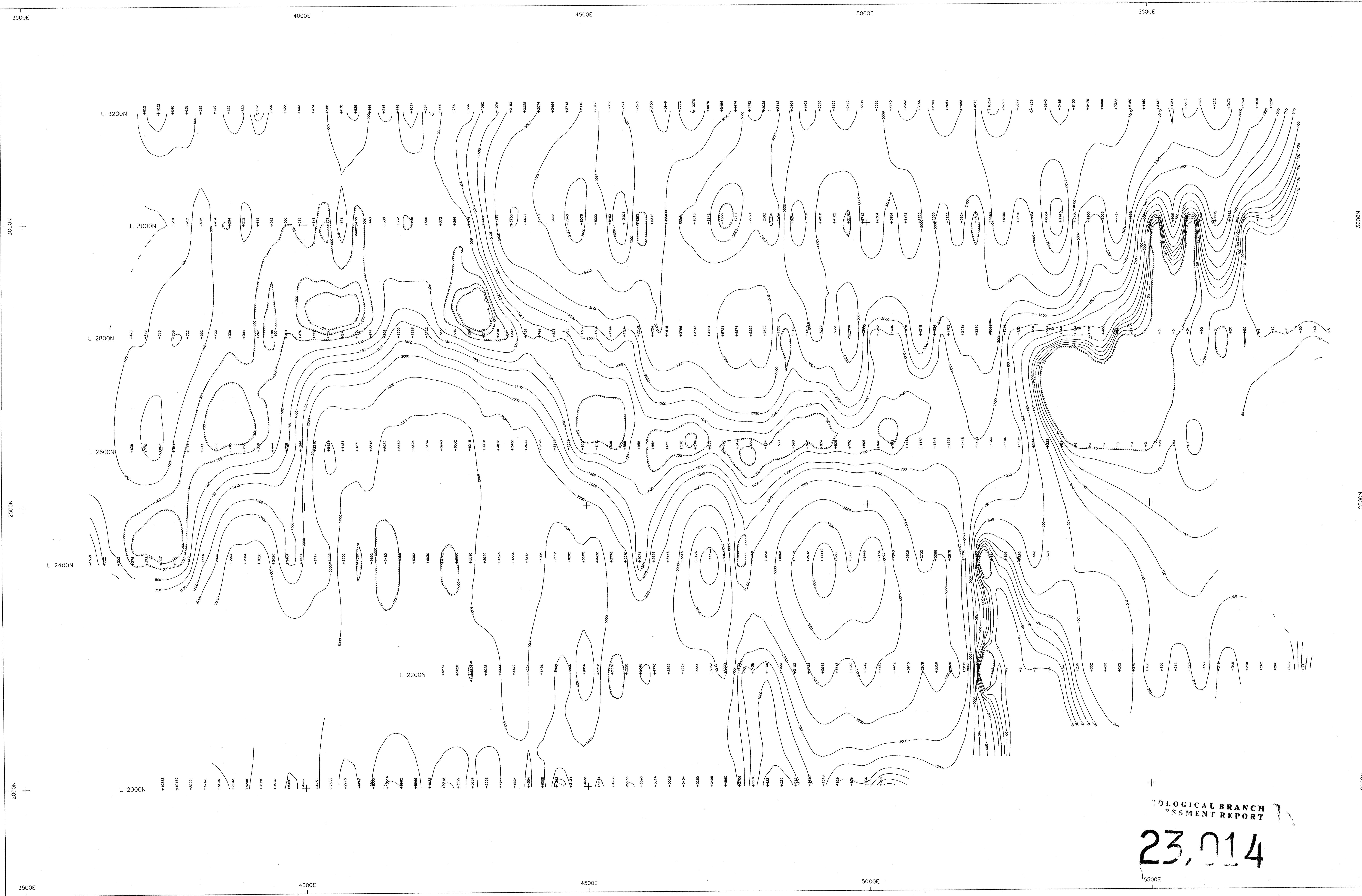
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CONSOLIDATED RAMROD GOLD CORP.

LIBBY PROPERTY
 SALMO AREA, B.C.
 CHARGEABILITY CONTOUR PLAN
 a spacing = 25 meters
 first separation (n=1)

DRAWN BY: ars DATE: Aug/93
 SCOTT GEOPHYSICS LTD.



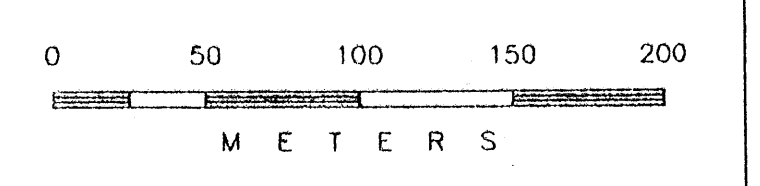
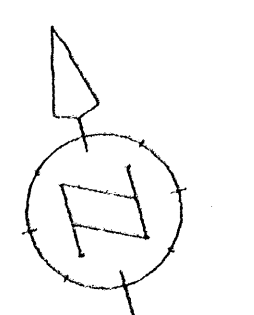
SURVEY SPECIFICATIONS

receiver Scintrex IPR12
 transmitter Scintrex IPC7
 pulse time 2 seconds
 Mx receive window 690-1050 msec
 mid point 870 msec

array pola dipole
 a spacing 25 meters
 n separations 1, 2, 3, 4, 5

current electrode west (heading E)
 contoured value $\rho=25$ $n=1$

log contour intervals (ohm-meters)
 10, 50, 100, 150, 200, 300, 500, 1000
 1500, 2000, 3000, 5000, 7500, 10000



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LIBBY PROPERTY
 SALMO AREA, B.C.
 RESISTIVITY CONTOUR PLAN
 a spacing = 25 meters
 first separation (n=1)

DRAWN BY: ars DATE: Aug/93
 SCOTT GEOPHYSICS LTD.