

827623

LOGISTICAL REPORT

INDUCED POLARIZATION/RESISTIVITY SURVEYS

LARA PROJECT, VANCOUVER ISLAND AREA, B.C.

on behalf of

MINNOVA INC.
4th floor - 311 Water Street
Vancouver, B.C. V6B 1B8

Field work completed: April 22 to May 4, 1990

by

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

May 6, 1990

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1. INTRODUCTION

Induced polarization and resistivity surveys were conducted over portions of the Lara Project, Vancouver Island Area, B.C., within the period April 22 to May 4, 1990. The work was conducted by Scott Geophysics Ltd. on behalf of Minnova Inc.

The pole dipole electrode array was used, with an "a" spacing of 25 meters and "n" separations of 1 to 5 on all lines except line 5900W, which was read at "n" separations of 1 to 8. The current electrode was to the south of the receiving electrodes on lines 3800W to 4500W and 5900W, and to the north of the receiving electrodes on all other survey lines.

2. SURVEY LOCATION

The Lara Project is located about 15 kilometers west southwest of Chemainus, B.C. Access is via secondary mining and logging roads north from the main Chemainus River haul road.

3. SURVEY GRID AND SURVEY COVERAGE

A total of 18.8 line kilometers of induced polarization survey were completed on the present survey of the Lara Project. Details of lines surveyed are given in the production reports.

4. PERSONNEL

Ken Moir, technician, was the party chief on the survey and operated the IPR11 receiver. Gary Wells, geologist, was the Minnova representative for the project.

5. INSTRUMENTATION AND PROCEDURES

A Scintrex IPR11 time domain microprocessor based receiver and a Scintrex 10.0 kw TSQ4 transmitter were used for the induced polarization survey. Readings were taken using a 2 second alternating square wave. The chargeability for the eighth slice (690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds) is the value that has been plotted on the accompanying plans and pseudosections.

The survey data was archived, processed, and plotted using a Toshiba 3200SX microcomputer running Scintrex Soft II and proprietary software. All chargeability values were analyzed for their spectral characteristics using a curve matching procedure (Soft II).

6. RECOMMENDATIONS

A preliminary examination of the results of the induced polarization survey indicates the presence of moderate to strong chargeability highs.

A detailed interpretation of the results of this survey, and correlation to geological and geochemical information, is required before any specific recommendations could be made.

Fill in surveying is recommended prior to testing of the chargeability highs detected on lines 9600W to 12400W.

Respectfully Submitted,



Alan Scott, Geophysicist

	and comments	Production
Apr.29	Reel in all wire; move trans. setup to third location. Complete 56W.	40 stations 1000 meters
Mon Apr.30	Complete 52W. Wrap up; move trans. to last grid location, setup, start 41W.	51 stations 1275 meters
Tues May 1	Complete 41W, 42W, 43W. SLOW going, over these uncut lines.	83 stations 2075 meters
Wed May 2	44W, 45W. Wind in access.	56 stations 1400 meters
Thurs May 3	40W, 40WB, 38W, 39W, wrap everything up.	64 stations 1600 meters
Fri May 4	Mobe, setup and complete 59W1T8 Demobe Duncan - Vancouver	N=1 - 8 400 meters
Sat		

Remarks:

Totals	
(this wk)	7750 meters
Totals	
(to date)	18800 meters
Personnel:	SIMITIWITIFIS
Ken Moir	t p r r r r r
Mitch Davies	r r p t t t t
Tom Allen	c c t c p c c
Brad Scott	p t c c p c c
Scott Bainbridge	p p p p p p p

see JTS May 6/90

r = receiver t = transmitter
 p = pots c = current
 s = standby m = mob/demob
 d = data proc. l = linecutting

MINNOVA INC.
4th floor - 311 Water Street
Vancouver, B.C. V6B 1B8

Invoice: Geophysical Survey - Lara Property

The following charges are due per our agreement of March 9, 1990 for the above survey work:

IPR11 Survey:

Fixed survey fee (section 11.1): 500.00

Operators and equipment (section 11.2 and 11.3):
Apr 22-May 4: 13 survey days @ 1075 13975.00

Expenses (section 11.4):
per attached expense summary 2620.73
plus 10% 262.07

For provision of field assistants (section 11.6):
Brad Scott: 13 days @ 140/day 1820.00
Tom Allen: 13 days @ 140/day 1820.00
Scott Bainbridge: 13 days @ 140/day 1820.00

Total charges IPR11 survey: 22817.80
Less advance payment: - 2000.00

TOTAL THIS INVOICE: \$20817.80




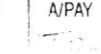
Yours truly,



Alan Scott, Geophysicist

Encl. (production report and expense summary)

MINNOVA INC.

VENDOR NAME			INVOICE		CURRENCY
SCOTT GEOPHYSICS			NUMBER OR DATE		1 - CDN 2 - U.S.
			MAY 7/90		1 L
ACCOUNT CODE				AMOUNT	CR X
GENERAL LEDGER	DETAIL	EXPLORATION PROJECTS			
70280	600	242		20817.80	
APPROVED	CODED	EXT & ADDITION		A/PAY	
					

GEOPHYSICAL SURVEY PRODUCTION REPORT

IPR 11 SURVEY: pole dipole array, a=25 meters, n=1 to 5

Project No.: 9018 Client: MINNOVA INC. Area: LARA PROJECT

Date	Lines surveyed and comments	Production
Sun Apr.22	Mobe Vancouver - Duncan Setup, begin survey. 104W	40 stations 1000 meters
Mon Apr.23	100W, 96W.	80 stations 2000 meters
Tues Apr.24	Wrap up wire, access & complete 108W Start 112W	64 stations 1600 meters
Wed Apr.25	Complete 112W, 116W, setup 120W. broken access wire first thing in morning access shorted to grd. about an hr. later	58 stations 1450 meters
Thurs Apr.26	Complete 120W, 124W.	80 stations 2000 meters
Fri Apr.27	Reel in access, infinite; move transmitter to second grid. Setup and complete 74W.	40 stations 1000 meters
Sat Apr.28	Complete 70W, 66W.	80 stations 2000 meters

Remarks:

Please see field notes for chainage information.
 108W - detoured around swamp.

Totals	
(this wk)	11050 meters
Totals	
(to date)	11050 meters
Personnel:	SIMITIWITIFIS
Ken Moir	r r r r r r r r r r
Mitch Davies	p t t c p t t c p
Tom Allen	t t c p t t c p t t
Brad Scott	c p t t c p t t c
Scott Bainbridge	p p p p p p p p p p

r = receiver t = transmitter
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