

GEOPHYSICAL SURVEY PRODUCTION REPORT

page 1 of \_\_\_

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

Project No.: B713 Client: ABERMIN Area: LARA PROJECT

Date	Lines surveyed and comments	Production
Sun		
Mon		
Tues		
Wed		
Thurs April 2	mob Vancouver to Chemainus IPR11 survey L6800W too noisy under powerline to read	45 stations 1150 meters
	Dump 1	
Fri April 3	L6850W (1575 - 3700N) too noisy under powerline	84 stations 2125 meters
	Dump 2	
Sat April 4	L7000W (1875-2550), L7000AW (2475-3650) L6900W (2000-2150)	78 stations 2025 meters
	Dump 3	
Totals for this period:		207 stations 5300 meters

To date: 207 stations  
5300 meters

Remarks:  
 Doug McLaughlin on site April 2 - 4

Personnel: SIMITIWITIFIS  
 Alan Scott | | | | r | r | r |  
 Alan Wynne | | | | | | | |  
 Ken Moir | | | | t | c | p |  
 Steve Ocsko | | | | c | p | t |  
 Steve Davies | | | | p | t | p |  
 Spencer Robinson | | | | p | p | c |  
 | | | | | | | |

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

Signed: 

Date: May 4/87

GEOPHYSICAL SURVEY PRODUCTION REPORT

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

Project No.: 8713 Client: ABERMIN Area: LARA PROJECT

Date	Lines surveyed and comments	Production
Sun April 5	L6900 (2150-3775), L7100 (2100-2475) chainage errors L69 and L71 Dump 4	80 stations 2050 meters
Mon April 6	L7100 (2475-2925), L7000 (2950-3750) L7200 (2250-2925) Dump 5	75 stations 1950 meters
Tues April 7	L7200(2925-3700), L7400(2425-3050) short and/or induction in access wire Dump 6	56 stations 1450 meters
Wed April 8	L7400(3075-3450), L7600(2650-3450) moved sedtup away from powerline stopped lines short at N end Dump 7	49 stations 1175 meters
Thurs April 9	moved transmitter to S end of line 65 L6200(850-2300) Dump 8	60 stations 1450 meters
Fri April 10	L6200(2300-3700), L6300(950-1550) Dump 9	74 stations 2000 meters
Sat April 11	L6300(1550-1975), L6350(1900-3575) Dump 10	84 stations 2100 meters
Totals for this period:		478 stations 12175 meters

To date: 685 stations  
17475 meters

Remarks:

Problems with induction into current wire from powerline.

Line extensions not cut.

Personnel: SIMITIWITIFIS  
 Alan Scott r r r p m l l l  
 Alan Wynne r r r r r r r r r r  
 Ken Moir t c i p c i p i t i p  
 Steve Ocsko c i p i t i t i c i p i t  
 Steve Davies p i t i c i p i t i c i p  
 Spencer Robinson p i p i t i p i p i p i c  
 l l l l l l l l

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

Signed: 

Date: May 4/87

GEOPHYSICAL SURVEY PRODUCTION REPORT

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

Project No.: 8713 Client: ABERMIN Area: LARA PROJECT

Date	Lines surveyed and comments	Production
Sun	started line 6500 .. blew meter in tx	
April 12	went to Nanaimo and repaired transmitter too late to return to property	standby day
Mon	L6500 (1000-1900), L6400 (1900-3000)	72 stations
April 13	n=1-4 only Dump 11	2000 meters
Tues	L6500(2500-3625), L6600(1050-1825)	76 stations
April 14	Dump 12	1925 meters
Wed	L6600(1850-3925)	83 stations
April 15	moved setup to L5900 Dump 13	2100 meters
Thurs	L5900(675-2800), L6000(675-850)	91 stations
April 16	Dump 14	2325 meters
Fri	L6000(850-3500)	107 stations
April 17	Dump 15	2700 meters
Sat	L6100(950-2100), L6150(2500-3150)	70 stations
April 18	iresurvey L6350W(2825-3200) Dump 16	1800 meters 16 stations 400 meters
Totals for this period:		499 stations 12850 meters 16 sta. resurvey 400 m. resurvey

To date: 1184 stations  
 30325 meters  
 16 sta. resurvey  
 400 m. resurvey

Remarks:

April 18: pot lost on line

Personnel: SIMITIWITIFIS  
 Alan Scott | | | | | | | | | |  
 Alan Wynne | | | | | | | | | |  
 Ken Moir | | | | | | | | | |  
 Steve Ocsko | | | | | | | | | |  
 Steve Davies | | | | | | | | | |  
 Spencer Robinson | | | | | | | | | |  
 Richard Boase | | | | | | | | | |

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

Signed: 

Date: May 4/87

GEOPHYSICAL SURVEY PRODUCTION REPORT

page 4 of \_\_\_\_

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

Project No.: 8713 Client: ABERMIN Area: LARA PROJECT

Date	Lines surveyed and comments	Production
Sun	L5800(700-3650)	117 stations
April 19		2950 meters
	Dump 17	
Mon	L5700 (725-2825)	83 stations
April 20		2100 meters
	Dump 18	
Tues	L5600(600-3700)	123 stations
April 21		3100 meters
	Dump 19	
Wed	L5500(550-1725)	46 stations
April 22	stopped early to get truck fixed and data plotted	1175 meters
	Dump 20	
Thurs	L5400(500-2950)	97 stations
April 23		2450 meters
	Dump 21	
Fri	L5300(550-1025), L5200(475-1025)	83 stations
April 24	L5100(425-1000), L5000(425-1000)	2175 meters
	Dump 22	
Sat	L4800(400-1000)	23 stations
April 25		600 meters
	resurvey L6000(675-1000)	Dump 23 26 stations
	L6200(850-1250), L6500(1275-1500)	725 meters
Totals for this period:		572 stations
		14550 meters
		26 sta. resurvey
		725 m. resurvey

To date: 1756 stations  
 44875 meters  
 42 sta. resurvey  
 1125 m. resurvey

Remarks:  
 Apr. 23-24: Don and Doug on site  
 Apr. 25: Lines 4900, 4700, 4600 inadequately marked for IP

Personnel: SIMITIWITIFIS  
 Alan Scott rrrrrrrrrrr  
 Steve Ocsko ttttttttt  
 Steve Davies pccccccccc  
 Spencer Robinson cccccccccc  
 Richard Boase pppppppppp  
 Dan Derby lppppppp  
 Peter ttttpp

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

Signed: 

Date: May 4/87

GEOPHYSICAL SURVEY PRODUCTION REPORT

page 5 of \_\_\_

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

Project No.: 8713 Client: ABERMIN Area: LARA PROJECT

Date	Lines surveyed and comments	Production
Sun	moved setup to area S of powerline	30 stations
April 26	L-A(50W-300E), L-B(25W-325E) L-7100(1500-1650) Dump 24	850 meters @ n=1-4
Mon	L6400(2775-3525)	29 stations
April 27	finished survey - packed up setup and plotted results Dump 25	750 meters @ n=1-4
Tues		
Wed		
Thurs		
Fri		
Sat		
Totals for this period:		59 stations 1600 meters


To date: 1815 stations  
 46475 meters  
 42 sta. resurvey  
 1125 m. resurvey

Remarks:

Apr. 26: couldn't read // to powerline  
 but lines perpendicular to  
 powerline were ok

Personnel: SIMITIWITIFIS  
 Alan Scott rir | | | | |  
 Steve Davies cit | | | | |  
 Spencer Robinson tic | | | | |  
 Peter Bieling pip | | | | |  
 | | | | |

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

Signed: 

Date: May 4/87

LOGISTICAL REPORT

INDUCED POLARIZATION SURVEY

LARA PROJECT

VANCOUVER ISLAND, B.C.

on behalf of

ABERMIN CORPORATION  
1500 - 1075 West Georgia Street  
Vancouver, B.C. V6E 3C9

contact: Mr. Don Blackadar  
(604) 681 7727

Field work completed: April 2 to 27, 1987

by

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

Contact: Mr. Alan Scott  
(604) 228 0237

May 4, 1987

## TABLE OF CONTENTS

	page
1 Introduction	1
2 Survey Location	1
3 Survey Grid and Survey Coverage	1
4 Personnel	1
5 Instrumentation and procedures	2
6 Recommendations	2

## ACCOMPANYING MAPS

Chargeability and Resistivity reduced scale pseudosections

Chargeability contour plan (first separation)

Resistivity contour plan (first separation)

## 1. INTRODUCTION

Induced polarization and resistivity surveys were conducted over portions of Abermin Corporation's Lara Project, Vancouver Island, B.C., within the period April 2 to 27, 1987. The work was conducted by Scott Geophysics Ltd.

The pole dipole electrode array was used on the survey, with an "a" spacing of 25 meters and "n" separations of 1 to 5. The current electrode was to the south of the receiving electrodes on all survey lines.

## 2. SURVEY LOCATION

The Lara Project is located about 15 kilometers west southwest of Chemainus, B.C. Access is via secondary logging roads from the main Chemainus River haul road at mile 13.

## 3. SURVEY GRID AND SURVEY COVERAGE

A total of 46.475 line kilometers were surveyed on the Lara project. An additional 1.125 kilometers were repeated in various areas where technical difficulties were encountered (interference from the power line or noise due to large voltage changes between dipoles). Stations read in the vicinity of the power line that were not acceptable are not included on the pseudosections nor in the production figures.

## 4. PERSONNEL

Alan Scott, geophysicist, was the party chief on the survey and operated the IPR11 receiver during the periods April 2-6 and April 15-27. Alan Wynne, geophysicist, was the party chief and operated the IPR11 receiver from April 7 to 14.



## 5. INSTRUMENTATION AND PROCEDURES

A Scintrex IPR11 time domain microprocessor based induced polarization receiver and a Scintrex 2.5 kw IPC7 transmitter were used for the survey. Readings were taken using a 2 second alternating square wave. The chargeability for the eighth slice (690 to 1050 milliseconds) is the value that has been plotted on the plans and pseudosections.

The survey data was archived, processed, and plotted using a Corona PPC 400 microcomputer running Scintrex Soft II software.

## 6. RECOMMENDATIONS


A preliminary examination of the results indicates that a number of weak to strong chargeability highs were detected on the survey that merit further work.

A detailed interpretation of these results, and correlation to the geological and geochemical data bases, is recommended to prioritize specific targets.

It is recommended that any additional survey work that may be required in the vicinity of the power lines be run on lines cut at right angles to the power lines. The two test lines so run (lines A and B) gave acceptable results whereas survey on the existing grid (lines at a shallow angle to the power lines) were completely unacceptable in the immediate vicinity, and often for 50 to 100 meters away from the powerlines.

It is recommended that fill in survey along the Coronation Zone be done on lines 50 meters apart to explore for short strike length high sulphide content pods. Note the strong response over the massive sulphides in the trench at line 6300W/station 1225N and the strong responses on line 5100W/stations 720N and 770N.

Respectfully Submitted,



Alan Scott,  
Geophysicist