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# MINING LANDS SECTION

REPORT ON THE COMBINED

AIRBORNE GEOPHYSICAL SURVEY

ON THE PROPERTY OF

CARL FORBES

BAYLY TOWNSHIP

LARDER LAKE MINING DIVISION, ONTARIO

2.12991

BY

H. FERDERBER GEOPHYSICS LTD.

December, 1989

R.A. Campbell, B.Sc. Geologist

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#### INTRODUCTION

On November 27, 1989 a combined airborne geophysical survey was carried out on the property of Carl Forbes in Bayly Township, Ontario. Magnetic and VLF-electromagnetic data was collected by the airborne division of H. Ferderber Geophysics Ltd.

The survey was flown from a base at Val d'Or, Quebec. A total of 78.1 miles of data was collected.

The magnetic survey provides information which outlines the underlying geological structures and identifies any potential economic concentrations which may contain variations in accessory magnetic minerals. The VLF-electromagnetic survey helps define conductive zones which may represent shear zones and/or metallic sulphide deposits containing gold or base metal mineralization.

#### PROPERTY DESCRIPTION, LOCATION AND ACCESS

The Carl Forbes property is comprised of 61 claims in Lots 2 to 8, Concession III, IV and V, Bayly Township, Larder Lake Mining Division, Ontario. The claims cover approximately 976 hectares, are registered with the Office of the Mining Recorder in Kirkland Lake, and are listed in Appendix 1.

The property is situated approximately 13 miles south of Larder Lake, 22 miles southeast of Kirkland Lake, 24 miles north of New Liskeard and 1 mile east of the village of Wendigo Lake.

Provincial highway 624, south from Larder Lake, passes within 3 miles of the western boundary of the claim block. Gravel roads connect the village of Wendigo Lake to the Highway. Wendigo lake lies near the southern boundary while the northwest arm of the lake is situated 0.25 miles east of the eastern boundary. The lake affords excellent access to the claim block, by boat in summer or by snowmobile in winter. Roads north from highway 569 to the southeastern end of Wendigo Lake end 0.75 miles east and southeast of the claim block.

The property is forest covered with numerous creeks flowing through the claim group. Topographical relief is low to moderate. Supplies, services and qualified manpower are available in Kirkland Lake-Larder Lake-New Liskeard area.

#### **GEOLOGY**

The property is located in the southern part of the Abitibi Volcanic Belt of the Superior Province of the Canadian Shield. The Abitibi Volcanic Belt extends for nearly 350 miles in a west-east direction from Timmins to Chibougamau. It is host to a variety of precious and base metal deposits including the Timmins, Kirkland Lake, Noranda, Val d'Or and the Chibougamau mining camps.

The Abitibi Volcanic Belt is comprised of a complex assemblage of interbedded volcanic and sedimentary rocks intruded by a variety of intrusives, from ultrabasic to granitic in composition. The rocks are Archean in age and have been metamorphosed to a greenschist facies. Numerous late Precambrian diabase dykes cut formations of the belt. The rocks generally strike east-west, have a near vertical dip, and are highly folded and faulted.

The Ontario Division of Mines, Map 2205 - Geological Compilation Series, Timmins-Kirkland Lake Area, outlines the geology of the area. This map indicates that approximately 50 percent of the property is underlain by intermediate pyroclastic metavolcanics, formerly classified as Keewatin rocks. The metavolcanics lie north and west of Coleman member sediments (conglomerate, arkose, greywacke, quartzite and argillite) of the Gowganda Formation. The irregular shaped contact trends east from the southwestern property boundary, then north-northeast, south-southeast and north-northeast along the east arm of Wendigo Lake. This latter contact is defined by a fault zone along the eastern arm of the lake and the Larder River.

Two small intrusions of metamorphosed mafic rocks (gabbro, diorite and lamprophyre), trend south-southwest through the metavolcanic rocks in the eastern third of the claim block, ending at the contact with the sediments. South of Wendigo Lake, just west of the southwestern boundary, the sediments are in contact with mafic intrusive sheets of diabase and granophyre. A narrow diabase dyke strikes east-northeast through the eastern half of the property, cutting sediments, metavolcanics and the eastern mafic intrusive body.

The Ontario Geological Survey, Mineral Deposits Circular 18, Gold Deposits of Ontario, Part 2 (1979), p 190, indicates that a gold occurrence, the Bute Larder Occurence, lies 0.5 miles north of Wendigo Lake in central Bayly Township. The occurrence must be situated somewhere near of the southern boundary of the claim block. Quartz lenses in a fracture zone stricking N25 degrees W. in metavolcanic rocks contain pyrite and chalcopyrite mineralization. Assays obtained in 1938 varied from trace to 0.48 oz/ton Au. Map 2205 shows that Cu and Pb-Zn occurrences lie in sedimentary rocks in the vacinity of claim 1049846 and just southwest of claim 1048755, respectively.

#### INSTRUMENTATION AND SURVEY METHODS

The survey was completed using a 1972 Cessna 172, fixed-wing aircraft, call letters CF-EWK, owned and operated by H. Ferderber Geophysics Ltd. The pilot and navigator/operator were Y. Saucier and D. Monastesse, of Val d'Or and Vassan, respectively.

Geophysical sensors were mounted in modified wing tips. The geophysical, navigation and data acquisition systems are described in the following pages.

#### Magnetometer

The magnetometer used was GEM Systems GSM-11, high sensitivity airborne proton (Overhauser) magnetometer. The instrument continuously measures the Earth's magnetic field at a 0.01 gamma sensitivity for 1 reading per second or 0.05 gamma to 10 readings per second at a 0.1 gamma absolute accuracy. For this survey four readings per second were collected at a sensitivity of 0.04 gamma. The analog output is on 3 channels, from 1 to 10,000 gammas full scale.

#### VLF-EM System

A Hertz Totem 2A VLF-EM System was used to measure the changes in the total field and in the vertical quadrature field on two frequencies simultaneously, with an accuracy of 1%. The primary transmitting station of Seattle, Washington (NLK), frequency 24.8 kHz was employed in survey.

#### Radar Altimeter

The ground clearance was measured with a King 10/10 A radar altimeter. The survey was flown at a mean clearance of 300 feet with the altimeter producing an accuracy of 5% (15 feet) at this altitude.

#### Tracking Camera and Video Centre

A RCA TC-200 colour video camera and Galaxy 200 video centre were used to record the flight path on standard VHS type video tapes. Manual fiducials were indicated on the picture frames for reference with digital printout. Flight path recovery was aided using a Panasonic Colour Video Monitor-Sl300 and Video Cassette Recorder AG-2500.

#### Data Acquisition System

A Picodas Group Inc. PDAS 1100 data acquisition system featuring seven analog inputs with two frequency inputs and external interfacing was used. A Termiflex Corp. ST/32 Keybord control unit and Sharp Corp. LCD display unit are connected to the data acquisition system. At present this system stores the altimeter VLF-1 inphase, VLF-1 quadrature, VLF-2 inphase, VLF-2 quadrature, magnetic field (coarse), magnetic field (fine), and the fourth difference (noise), and fiducials on 3.5 inch floppy disk drive. The data is then printed out in digital and profile form.

The survey was conducted on north-south lines were flown at an average aircraft altitude of 300 feet. The lines were flown at spacings of 440 feet at a speed of approximately 90 miles per hour. Navigation was visual using airphoto mosaics, at a scale of one inch to 1320 feet, manual fiducials and the flight path recovery system as references.

#### DATA PRESENTATION

Flight lines, fiducial points and geophysical responses were reproduced from the airphoto mosaics at a scale of one inch to 1320 feet (1:15,840). The outline of the claim block and the claim map are shown on each map sheet.

The aeromagnetic data was corrected for diurnal variations by using a base line as reference. The data was then contoured at 20 and 100 gammas intervals and presented on Map MG-1.

The VLF-EM was transferred from the Totem 2AG memory to profiled form. A base value was determined for the VLF-EM profiled data. These values were used to correct for variations in transmitter strength and the corrected values were plotted on Map EM-1. The positive values were contoured at intervals of 2%. The conductor axes were determined and labelled A, B, C, etc. No priority was attached to the labelling system.

#### SURVEY RESULTS AND INTERPRETATION

#### Magnetic Survey

The results of the magnetic survey indicate that approximately 90% of the property is underlain by rocks of low magnetic susceptibility exhibiting low magnetic relief, less than 60 gammas. These areas are probably underlain by intermediate metavolcanic pyroclastic rocks and sediments. The two narrow northeast and northwest trending linear magnetic highs distort the magnetic contour pattern and obliterate the defination of a contact between the metavolcanics and sediments. An east striking low, along Wendigo Lake (lines 37 to 23), could represent a potential fault zone along part of this contact.

The two narrow linear highs are indicative of diabase dykes. The Cu. occurrence lies near the intersection of the two dykes, in the vacinity of the southern boundary. It appears that the northeast striking dyke is the younger in age, offsetting the northwestern dyke near the location of the occurrence.

The three magnetic highs: on line 6 north of the dyke; on lines 3 to 5, 0.5 south of the northeast dyke; and across the southeastern property boundary: probably define the positions

of the metamorphosed mafic intrusive bodies. The northeast striking narrow, linear low, lying between the two southern highs, could represent a fault zone cutting the eastern metamorphosed mafic intrusive. The southwestern end of the fault zone is situated near the Pb and Au occurrences.

#### VLF-Electromagnetic Survey

The results of the VLF-electromagnetic survey indicate that 15 conductive zones underlie the claims of Carl Forbes. The conductive zones have four general trends, roughly eastwest (A to H), southwest-northeast (I), southeast-northwest (J to K) and south-north (L to N).

Zone A is comprised of 6 conductors striking east and eastsoutheast from line 34, bifurcating in the vaccinity of lines 21
and 22, near a creek. The east end of the zone is cut-off by
the northeast striking diabase dyke and the third conductor from
the west appears to be folded by the emplacement of the northwest trending dyke. Zone A could represent a shear zone in
metavolcanic rocks, just north of a possible contact with the
sediments to the south. The southeastern end of the zone lies
near the Cu.occurrence.

Zone B is made up of 2 conductive zones (two western and 4 eastern conductors), separated by 0.6 miles of nonconductive material. The eastern ends of the east and west zones are cut-off by the dykes and two conductors lie over creeks. Zone B may define the location of a discontinuous shear zone in metavolcanic rocks.

Zones C and D are short, three and two line conductors, located west of two creeks. They could be caused by small shears in metavolcanic rocks.

Zones E,  $E_1$  and F are three short parallel trending conductors situated in a magnetic high, between two lows. The conductors lie west of a probable fault zone and could delineate weak shears in metamorphosed mafic intrusive rocks. Zones E and  $E_1$  lie just north of the Pb. occurrence and west of the Au prospect.

Zone G is comprised of two conductors trending east-southeast across the northern boundary and a magnetic low. This zone may delineate the position of weak, sheared metavolcanic rocks.

Conductor H lies over a creek in the northwestern corner of the property and is probably caused by conductive overburden.

Zone I is comprised of 5 conductors, striking southwest from the northeastern boundary. The northern 4 conductors lie along the northeastern diabase dyke and represent a shear zone associated with the emplacement of the dyke while the southern-most conductor is situated over a creek and appears to be produced by conductive overburden.

Zone J trends southeast along the northern end of the western diabase dyke, east of a similar trending creek. This zone could also define the location of shears along the edge of the dyke.

Zone K is a short, one line north-northwest conductor lying east of a creek. It may represent a short shear in metavolcanic rocks, northwest of a body of metamorphosed mafic intrusive rock.

Conductor L is located along a creek and is probably caused by conductive overburden.

Zone M strikes south across the central part of the northern boundary and across the magnetic contour pattern. The conductor could delineate a cross-cutting shear within metavolcanic rocks.

Conductor N trends north from the northeast striking dyke across a magnetic high defining the location of a small metamorphosed mafic intrusive body. It represents the position of a possible cross-cutting shear zone in metamorphosed mafic intrusive rocks.

#### CONCLUSIONS AND RECOMMENDATION

The results of the airborne magnetic survey was helpful in helping delineate the geology and structures on the Forbes property in Bayly Township. Fifteen conductive zones lie over the claim block, outlined by the data produced by the VLFelectromagnetic survey. The magnetic results indicate that most of the property is underlain by rocks of low magnetic susceptibility, presumably intermediate pyroclastic metavolcanic rocks, in the north, and sediments, to the south. Three small metamorphosed mafic intrusive bodies are situated within metavolcanics rocks in the eastern part of the claim group. Two diabase dykes strike northeast and southwest across the claim group. A Cu occurrence is located near their intersection and a possible fault strikes west from this point, near a contact between the metavolcanics and sediments. A second fault zone strikes northeast between two highs defining the locations of metamorphosed mafic intrusives.

The Au prospect and Cu occurence are thought to lie somewhere near the southern end of this fault zone.

Of the 15 conductive zones oulined in the VLF-EM survey,
13 represent potential shear zones within metavolcanics,
metamorphosed mafic intrusive rocks and along contacts with
the diabase dykes. These potential shear zones could contain
sulphide mineralization which may be gold or copper bearing.

The property should be mapped with emphasis placed over areas containing conductive zones in an attempt to explain their origin. A program of ground geophysics comprised of magnetic and horizontal loop-electromagnetic surveys could then be completed to better define geological structures and conductive zones. If the results of these surveys prove positive, conductive zones with good magnetic and geological signatures should be tested by diamond drilling.

Respectfully submitted

H. Ferderber Geophysics Ltd.

RAC

R.A. Campbell, B.Sc.

Geologist

### APPENDIX 1 - CLAIM LIST

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1046225	1049822
1046226	1049823
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1048748	1049826
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1048750	1049828
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1049712	1049833
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1049720	1049837
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- Instructions

   Please type or print.

   Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.

   If number of mining claims traversed exceeds space on this form, attach a list.

   Technical Reports and maps in duplicate should be submitted to

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Ministry of Northern Development and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Township or Area Claim Holder(s)		wnship		
	Carl For	bes		MINING CLAIMS TRAVERSED  List numerically
Survey Company	H. Ferde	rber Geophysi	cs Ltd.	I.1046219etal(number)
Author of Report	R.A. Cam	pbell		(prefix) (number) (see attached Appendix)
Address of Author	169 Perr	eault Ave, Va	l d'Or, Qc	
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AIRBORNE SURVE	<u>YS</u>
Type of survey(s)	Magnetic and VLF-Electromagnetic ————————————————————————————————————
Instrument(s)	Gem GSM-11 magnetometer and Hertz Totem 2A VLF-EM
Accuracy	(specify for each type of survey) 0.04 gammas and 1%
	(specify for each type of survey)
Aircraft used	Cessna 172 Fixed-wing
Sensor altitude	300 feet
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	300 1666
Miles flown over tota	l area 78.1 Over claims only 50.35

#### GEOCHEMICAL SURVEY - PROCEDURE RECORD

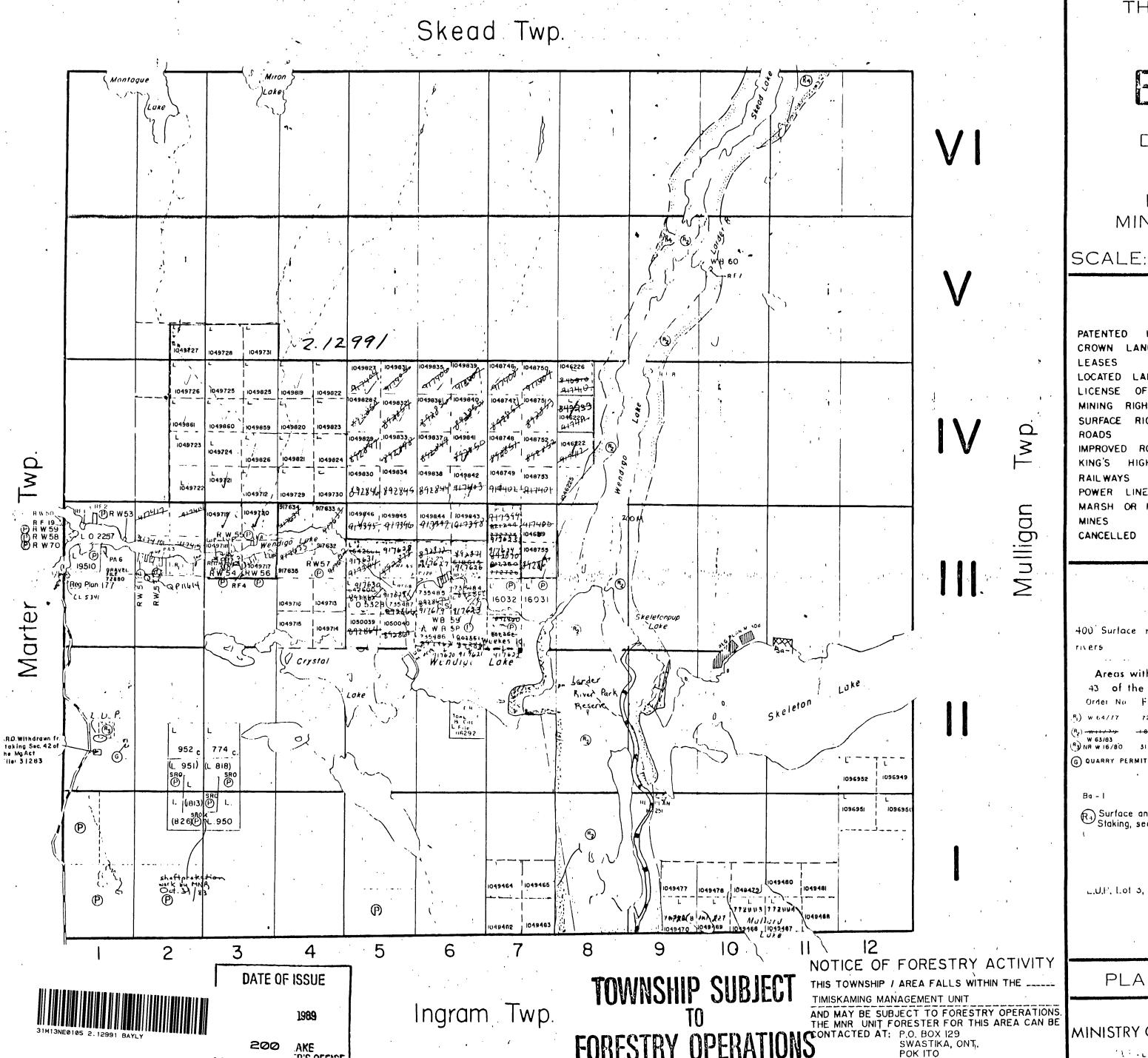
Numbers of claims from which samples taken	· · · · · · · · · · · · · · · · · · ·
Total Number of Samples	ANALYTICAL METHODS
Type of Sample(Nature of Material)	Values expressed in: per cent p. p. m.
Average Sample Weight	—— p. p. b.
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)
Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests
Sample Depth	Extraction Method
Terrain	
	Reagents Used
Drainage Development	-
Estimated Range of Overburden Thickness	
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (tests
(Includes drying, screening, crushing, ashing)	Name of Laboratory
Mesh size of fraction used for analysis	Extraction Method
	Analytical Method
	Reagents Used
	General
General	General
	<del></del>

#### GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

N	Jumber of Stations	Number of	Readings			
		Line spacing				
	rofile scale	-	9			
	Contour interval					
r <b>vi</b>	Instrument					
Ħ	Accuracy - Scale constant			· · · · · · · · · · · · · · · · · · ·		
MAGNETIC	Diurnal correction method	···				
MA	Base Station check-in interval (hours)	<del></del>	.,			
•	Base Station location and value					
				·		
의	Instrument					
ELECTROMAGNETIC	Coil configuration			<del></del>		
S	Coil separation					
X C	Accuracy		·			
IR	Method:	☐ Shoot back	☐ In line	☐ Parallel line		
	Frequency	(specify V.L.F. station)	<del></del>			
囸	Parameters measured					
	Instrument					
	Scale constant					
IX	Corrections made					
SRAVITY						
S	Base station value and location					
	Elevation accuracy					
	Instrument					
	Method		equency Domain			
	Parameters – On time		•			
⋊	- Off time		•			
VIT	- Delay time		· ·			
STI	Integration time					
RESISTIVITY	Power					
2	Electrode array					
	Electrode spacing					
	Type of electrode					
	- •					

INDUCED POLARIZATION



THE TOWNSHIP

# BAYLY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAIN

# LEGEND

PATENTED CROWN LAND SALE LEASES LOCATED LAND SURFACE RIGHTS ONLY ROADS IMPROVED ROADS KING'S HIGHWAYS RAIL WAYS POWER LINES MARSH OR MUSKEG MINES CANCELLED

# NOTES

400 Surface rights reservation around all lakes &

Areas withdrawn from staking under Section of the Mining Act, RSO. 1970

W 63/83 (R3) NR W 16/80

Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. WJB/B5

L.U.F. Lot 3, Con.3 No. 104645, No. 104636

02080304

PLAN NO.- M. 323/15

ONTARIO

MINISTRY OF NATURAL RESOURCE THE LIE AND MAPPING BRANCH

