



42E12NE0207 2.5127 VINCENT

010

B. I. NELSON PROJECT
VINCENT TOWNSHIP
BLACKWATER - BEARDMORE AREA, ONTARIO
NTS 42 E 12

REPORT ON
SELF POTENTIAL SURVEY

RECEIVED
OCT 28 1982
MINING LANDS SECTION

A. JAMES WALKER

October 3, 1982.



42E12NE0207 2.5127 VINCENT

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- 1 -

CONTENTS

Introduction	Page 1
Summary of Results	1
Previous Work	2
Geology	2
Survey Methods	3
Survey Results	3
Conclusions	4
Survey Data	5
Certificate	6
Location Map	

ENCLOSURE

Self Potential Survey - Values & Contours.

INTRODUCTION

Mr. B. I. Nelson of Jellicoe, Ontario, carried out a self potential survey over 2 claims TB45068 and TB45069. The survey was on lines 200 feet apart. An old grid existed on 400 foot spacing, and additional linecutting and chaining was required (1.94 miles).

Data is presented with corrected values and contours.

SUMMARY OF RESULTS

The self potential survey has located anomalous areas, associated with graphitic zones and sulphide mineralization, and are generally coincident with conductors indicated in a previous VLF-EM survey.

Gold mineralization has been found at line 4W and 400S and a VLF conductor as well as a self potential anomaly is associated with this mineralization.

The closer spaced lines and extra detail of the self potential survey, should be guide to further prospecting, stripping and trenching.

PROPERTY

The property consists of two mineral claims TB456068 and TB456069 acquired by staking by Mr. B. Nelson in November, 1978. They are located in the north-west part of Vincent Township.

Access is from Highway 11, about 10 miles east of Beardmore. An old road goes south to Norman Lake and Edith Lake. A trail goes from Edith Lake to the Nelson Claims.

PREVIOUS WORK

A VLF-EM survey was previously carried out by TOMBILL Mines Limited over part of TB456068 in 1973, as part of a large exploration programme in the area.

Mr. Nelson has previously carried out a magnetic and VLF-EM survey on which we have reported previously.

GEOLOGY

The property is located in an area of steeply dipping Precambrian andesites, with a general east-west trend. Some narrow, short lenses of iron formation are interbedded with the volcanics.

Low gold values have been found associated with pyrrhotite, arsenopyrite and chalcopyrite, usually in quartz stringers. Some outcrops of quartz porphyry have been located on the claims.

Prospecting the conductors indicated by the previous VLF-EM survey has shown graphitic zones to also be present.

SURVEY METHODS

The survey was carried out using the long wire method.

The instrument used was a McPhar SP-2, with the capability of measuring to 1 millivolt.

The sensitive voltmeter is connected to a base pot (porous pot with excess copper sulphate) and a field pot which is moved along the line at 50 foot intervals. Values were corrected to a survey of the base line so that there was a consistent datum level for the whole survey.

Small electric voltages are usually developed around a sulphide or graphite body because of an electro chemical process, with the most negative values near the top of the body.

SURVEY RESULTS

A graphitic zone at about 500' north of the base line, on lines 4W to 12W was strongly anomalous (-500 - -800 m.v.). Sulphide mineralization, in part iron formation, occurs along the base line from 2E to 10W and is about 300 to 400 m.v.

An anomaly is also shown on line 4W at 45° south, which is reported to have gold values associated with arsenopyrite.

The iron formation which goes from line 8E at 85° feet south to line 12W at 500 feet south has anomalous S.P. sections.

One line 4W, at 200 feet south a short anomaly is indicated which is likely due to sulphides.

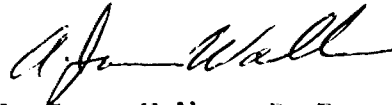
On line 10E at 150 feet south and 300 feet south, strongly anomalous values appear to be adjacent to iron formation and may be part of a fold structure.

CONCLUSIONS

The SP survey has located known mineralized zones and are coincident to VLF conductors in most cases.

The SP survey, with closer line spacing has given greater detail than previous surveys, and will be an aid to further prospecting and sampling of mineral occurrences.

Respectfully submitted,



A. James Walker, P. Eng.

AJW:sb

SURVEY DATA

B. I. Nelson Prospect,
Vincent Twp., Ontario
Blackwater - Beardmore Area

Covering Dates - Linecutting (Extra) Survey	Aug. 10,11,12,17 & 18, 1982 Sept. 6,7,9,15 & 16.
Drafting and report	Sept. 28 - 29, October 3, 1982

Crew

Self potential survey	B. Nelson, Jellicoe, Ontario.
Linecutting (additional)	1.94 miles (B. Nelson)
Drafting	R. T. Marcroft, Mississauga, Ontario
Report	A. J. Walker, Mississauga, Ontario.

Instrument

Self potential unit	McPhar SP-2 Measuring to 1 millivolt
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CERTIFICATE

With respect to my report of October 3rd, 1982 on the claims in Vincent Twp., of Mr. B. I. Nelson of Jellicoe, Ontario, I, A. JAMES WALKER of Mississauga, Ontario, do certify that:

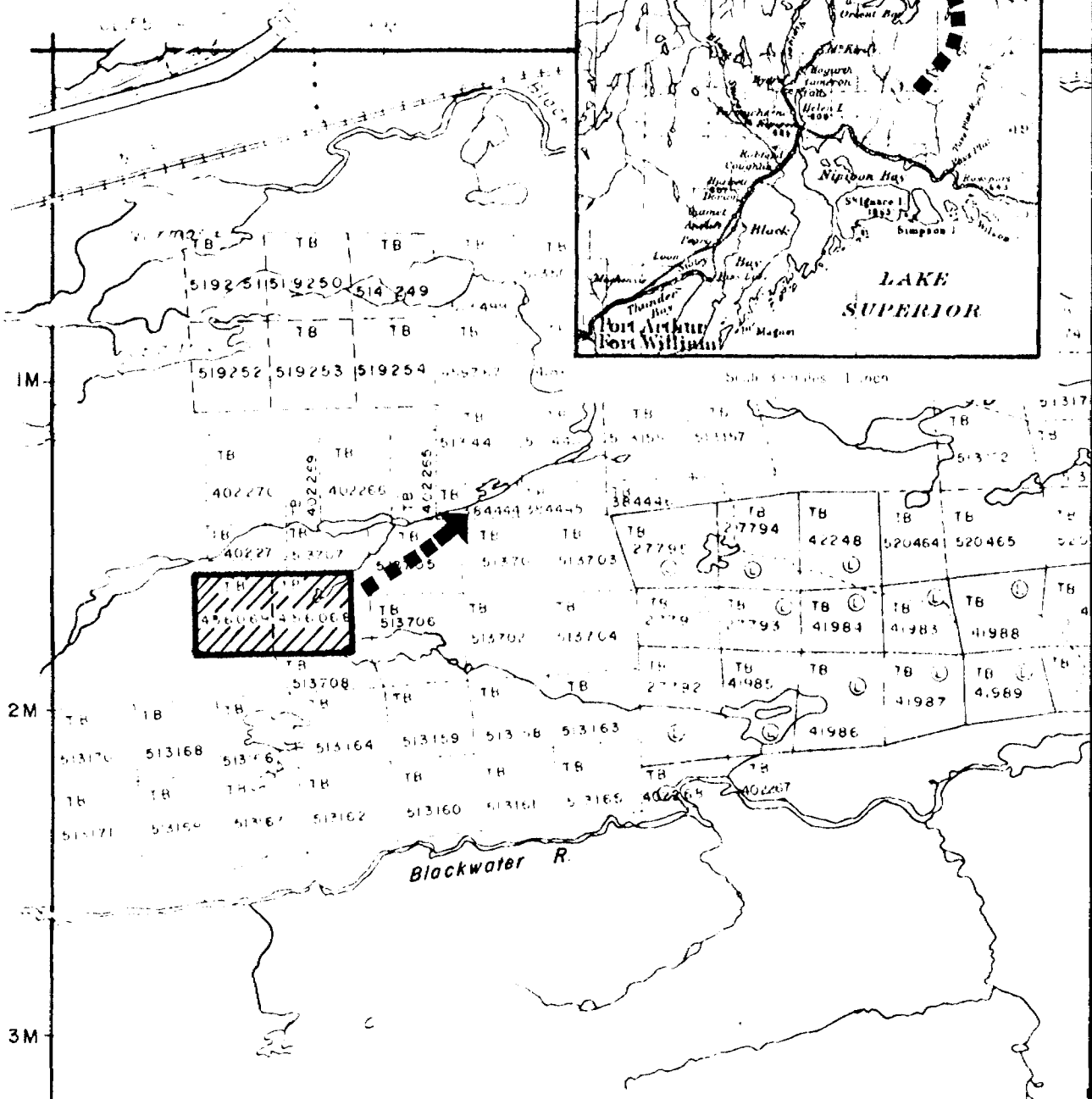
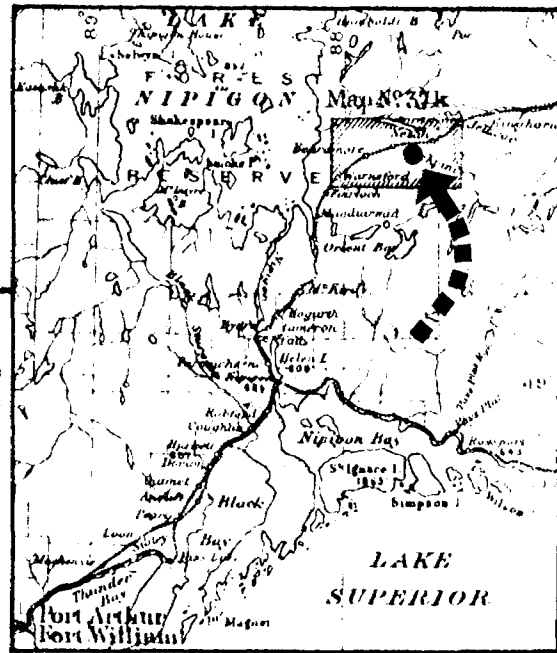
- 1) I am a graduate of the Haileybury School of Mines (1947);
- 2) I am a Registered Professional Engineer in the Province of Ontario;
- 3) I have been continuously practising my profession since 1948, and am President of Walker Exploration Ltd., a survey contracting company;
- 4) I have no interest in the claims covered in this report, nor do I expect to receive any interest, directly or indirectly.



A. JAMES WALKER

October 3, 1982.

WALKER EXPLORATION LTD.
 SURVEY CONTRACTOR



B. I. NELSON PROSPECT
VINCENT TOWNSHIP
 BLACKWATER-BEARDMORE AREA, ONTARIO
LOCATION MAP

SCALE 1" = 2640'

From OMNR Plan M1914

4M

3M

2M

1M



42E12NE0207 2.5127 VINCENT

900

1983 07 07

2.5127

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Geophysical (Electromagnetic) Survey on Mining Claims
TB 456068 et al in the Township of Vincent

The Geophysical (Electromagnetic) Survey assessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-1380

D. Kinvig:mc

Attach:

cc: B.I. Nelson
Jellicoe, Ontario

cc: Resident Geologist
Thunder Bay, Ontario



Ontario

2.5127

Ministry of
Natural
Resources

Notification of recording
of assessment work credits

Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3



RECEIVED
OCT 15 1982
MINING LANDS SECTION

Date of recording of work: October 4, 1982

Recorded holder: Bernhard Nelson

Address: Jellicoe, Ontario

Township or Area: Vincent Township (G163)

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	TB456068-69
Electromagnetic <u>20</u> days	
Self Potential Survey	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological _____ days	
Geochemical _____ days	
Man days <input type="checkbox"/>	Airborne <input type="checkbox"/>
Special provision <input checked="" type="checkbox"/>	Ground <input checked="" type="checkbox"/>

Notice to recorded holder:

- Survey reports and maps in duplicate be submitted to the Lands Administration Branch, Toronto within 60 days from the date of recording of this work.
- Reports and maps are being forwarded to the Lands Administration Branch with this letter.

Audrey M. Hayes
Audrey M. Hayes (Mrs.)
Mining recorder

c.c.

1983 07 07

Recorded Holder BERNHARD NELSON
Township or Area VINCENT TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 20 Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	TB 456068 - 69

77 (16)

Special credits under section 86 (15a) for the following mining claims

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> Insufficient technical data filed
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The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:

77 19

Jan 25/83

Mining Lands Comments

To: Geophysics *R. Barkow*

Comments

<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date <i>May 11/83</i>	Signature <i>R. Barkow</i>
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To: Geology - Expenditures

Comments

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Geochemistry

Comments

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1982 11 05

2.5127

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic, Self-Potential) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims TB 456068 et al in the Township of Vincent.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

DW:sc

cc: A. James Walker
Mississauga, Ontario



Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL
TECHNICAL DATA STATEMENT

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.

Type of Survey(s) Self Potential
 Township or Area Vincent Twp.
 Claim Holder(s) P. I. Nelson
Jellicoe, Ontario.
 Survey Company Walker Exploration Ltd.
 Author of Report A. James Walker, P. Eng.
 Address of Author 2111 Davebrook Rd., Mississauga, Ont.
 Covering Dates of Survey Sept. 6, 7, 9, 15 & 16, 1982
 (linecutting to office)
 Total Miles of Line Cut 1.94 (additional)

MINING CLAIMS TRAVERSED
List numerically

TB... A56068
 (prefix) (number)
 TB... A56069

RECEIVED
 OCT 28 1982
 MINING CLAIMS SECTION

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED		DAYS
		per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical	
	-Electromagnetic	
	-Magnetometer	
	-Radiometric	
ENTER 20 days for each additional survey using same grid.	S.P.-Other	<u>20</u>
	Geological	
	Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
 (enter days per claim)

DATE: Oct. 25/82 SIGNATURE: [Signature]

Res. Geol. _____ Qualifications 63.2234

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 2

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 215 Number of Readings 425

Station interval 100 feet Line spacing 200 feet

Profile scale _____

Contour interval 50 millivolts

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters - On time _____ Frequency _____

- Off time _____ Range _____

- Delay time _____

- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument McPhar SP-2 Range 0 - 1000 mV

Survey Method Long Wire Method

Corrections made Base line read, cross lines corrected to base line values

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

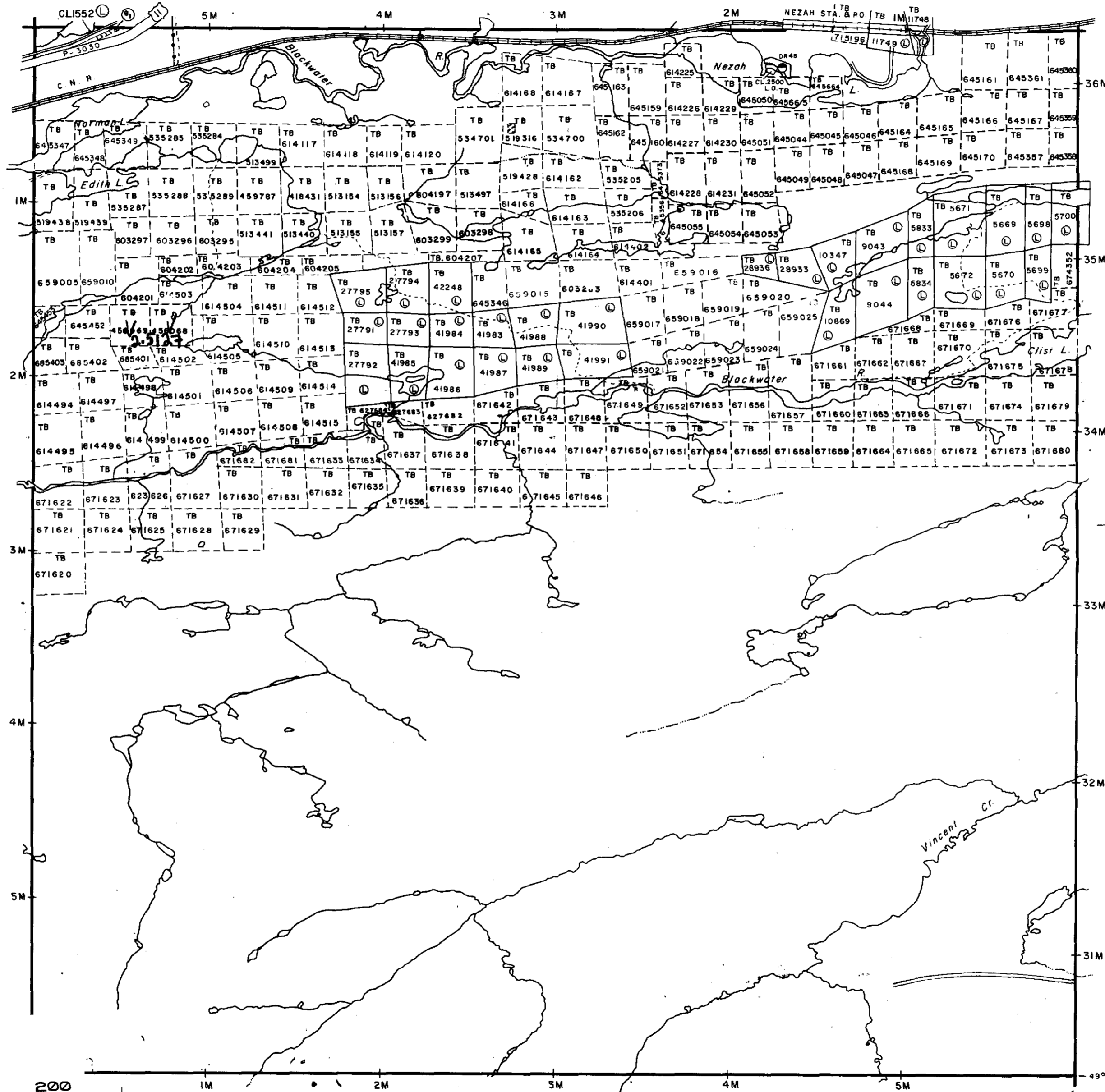
Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

WALTERS TWP G-171



TOWNSHIP

VINCENT

M.N.R. ADMINISTRATIVE DISTRICT

NIPIGON

MINING DIVISION

THUNDER BAY

LAND TITLES REGISTRY DIVISION

THUNDER BAY

SAND AND GRAVEL

- ① GRAVEL
- ② QUARRY PERMIT

FILE: 131085

DATE OF ISSUE

JUN 21 1983

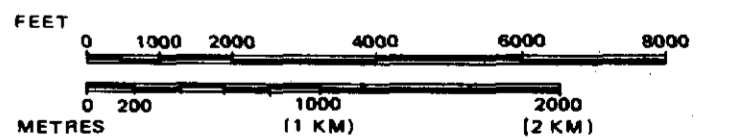
Ministry of Natural Resources
TORONTO

LEGEND

- PATENTED LAND (P) or *
- PATENTED FOR SURFACE RIGHTS ONLY (L)
- LEASE (L.O.)
- LICENSE OF OCCUPATION (L.O.)
- CROWN LAND SALES (C.S.)
- LOCATED LAND (Loc.)
- CANCELLED (C.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- HIGHWAY & ROUTE NO. (17)
- ROADS
- TRAILS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES

*used only with summer resort locations or when space is limited

SCALE: 1 INCH = 40 CHAINS



Ministry of Natural Resources
Ontario
Land Management Branch

Date FEBRUARY 16th, 1981

Number

G-163



BEARDMORE

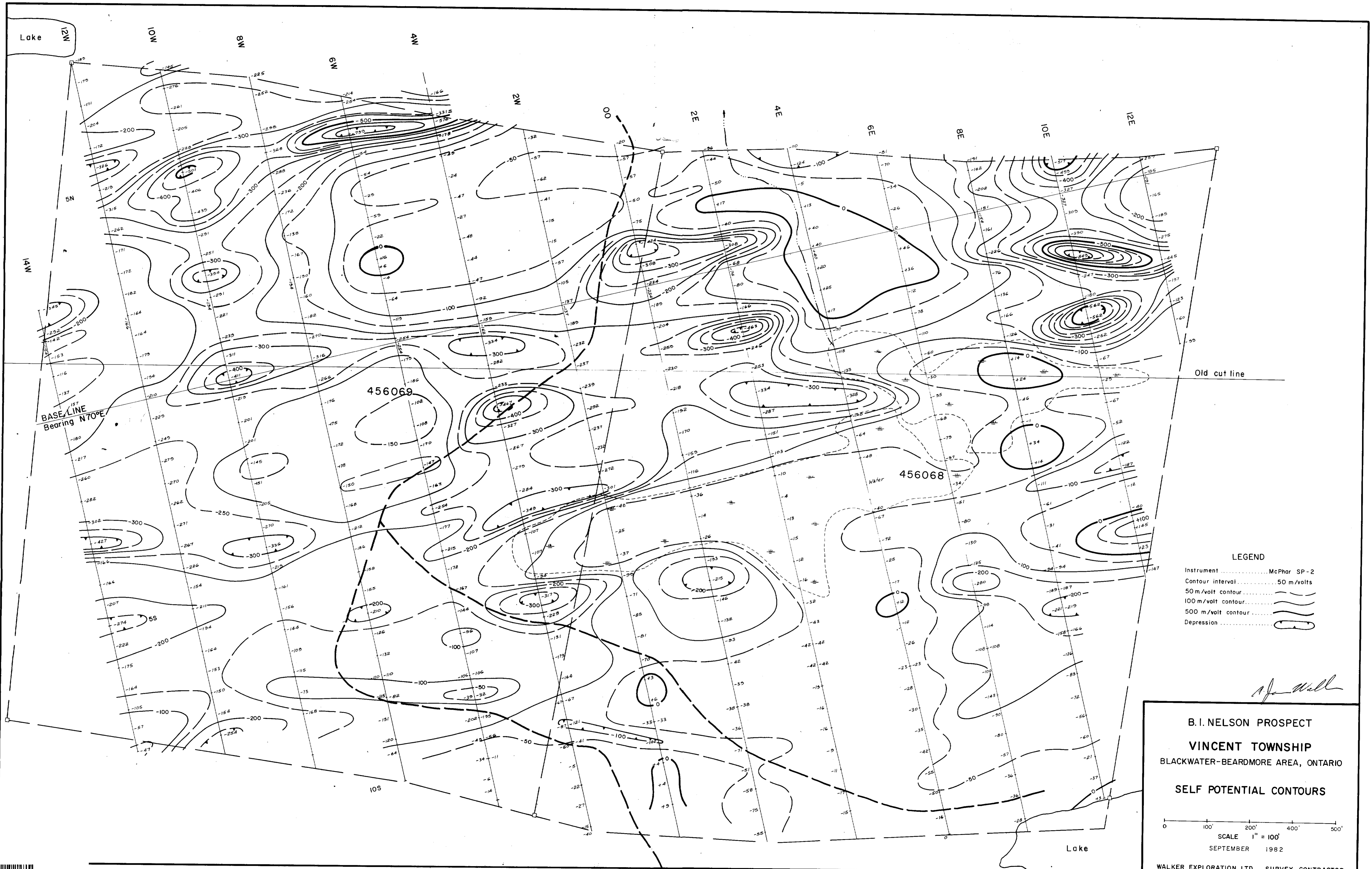
G-7

LEOPARD LAKE G-68

McCOMBER TWP G-166

CLIST LAKE G-24

LEOPARD LAKE G-68



LEGEND

Instrument McPhar SP-2

Contour interval 50 m/volts

50 m/volt contour

100 m/volt contour

500 m/volt contour

Depression

A. J. Wall

B. I. NELSON PROSPECT

VINCENT TOWNSHIP

BLACKWATER-BEARDMORE AREA, ONTARIO

SELF POTENTIAL CONTOURS

0 100' 200' 400' 500'

SCALE 1" = 100'

SEPTEMBER 1982

WALKER EXPLORATION LTD. SURVEY CONTRACTOR