010

ASSESSMENT REPORT

HLEM Survey

Dyment Kidston Group D

Vigrass Lake

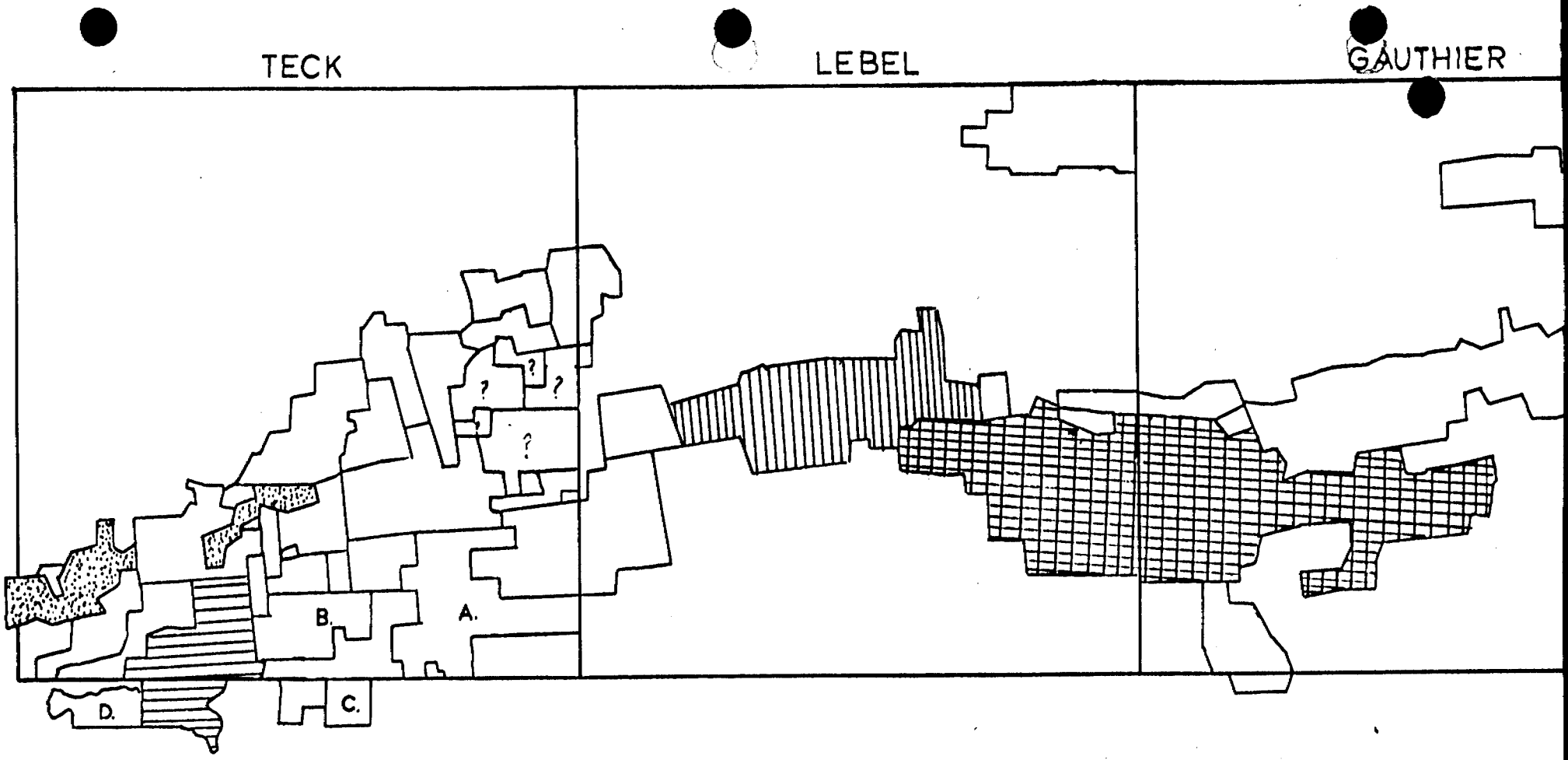
Otto Twp.

Tarzwell, Ontario
November 3, 1982

L.M.Dyment

Table of Contents

List of Maps



DYMENT+KIDSTON

QUEENSTON

QUEENSTON-INTERNATIONAL NICKEL

QUEENSTON -HOLLINGER

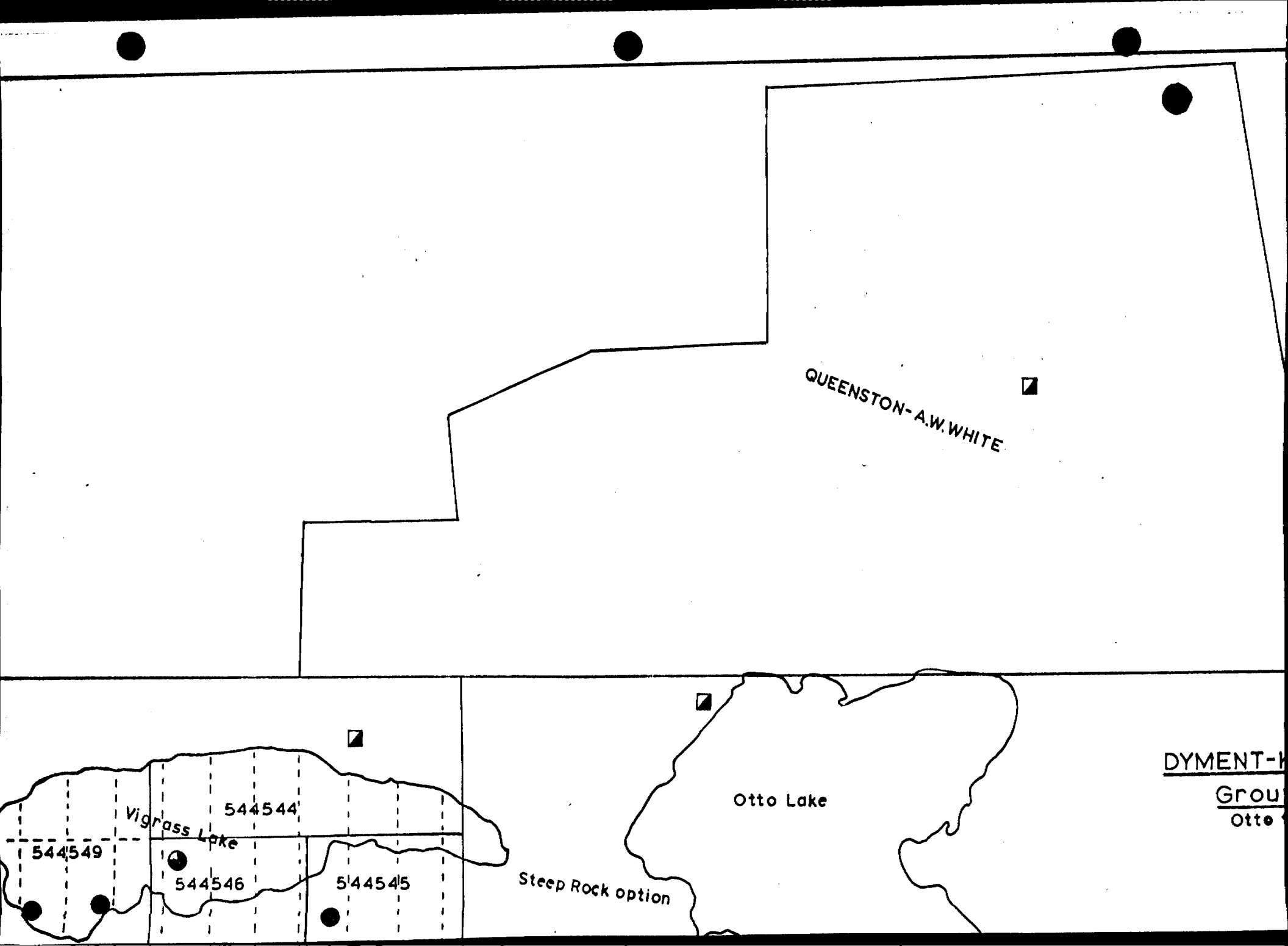
QUEENSTON - LITTLE LONG LAC

QUEENSTON - ARTHUR WHITE

DYMENT - KIDSTON GROUP

PROPERTY LOCATION MAP

KIRKLAND LAKE AREA - ONTARIO


QUEENSTON-A.W.WHITE
544544
Vigrass Lake
544549
544546
544545
Steep Rock option
Otto Lake
DYMENT-
Grou
Otto

INTRODUCTION

The property dealt with in this report consists of four claims. Since 1979, linecutting, Proton magnetometer, VLF, and geological surveys have been carried out as well as general prospecting.

LOCATION AND DESCRIPTION

The claims are located in the North West corner of Otto Twp. The claims cover most of Vigrass Lake, formerly known as Pike Lake in 1912 Bureau of Mines publication of Swastika Area by E.L.Bruce. The property is located 2 Km West of the town of Swastika and bordered on the North by Hwy 66.

The following 4 claims are covered by this report for assessment credits:

L.544549
L.544544
L.544545
L.544546

HISTORY

A search of the Kirklanf Lake Resident Geologist's assessment files failed to locate any work filed on this property. Evidence of old trenching circa 1930's is found

but little other work is noticeable. The Eastern end of Vigrass Lake has been drilled along the Creek that drains the lake according to Thompson, Vol. 57 Part 5 p.29 1948, which indicated a strong fault with a Southerly dip. There is no evidence of further drilling to be found. The claims were held for at least 50 years as patents until they were opened for nonpayment of taxes in the early '70's.

SURVEY TECHNIQUE

An existing grid on land was continued out on the ice of Vigrass Lake and tied into existing stations on the islands. A MaxMin II was used in the survey with careful attention to chaining and station intervals.

GEOPHYSICAL OBSERVATIONS

Two areas of interest were noted as A and B on the maps attached to this report. Anomaly A is located in an area where several AEM 6 channel anomalies are located. In prospecting the area in the Fall, graphitic chert was uncovered in a low lying area in the vicinity of this con-

ductor on line 16W. Conductor B, in the author's opinion, is probably a continuation of A but further work needs to be done here. On L12E, near the lake, another conductor shows up but has not been designated a true conductor and its cause is thought to be topographical.

CONCLUSION

A good program of grass roots data gathering has been carried out by the prospector since 1979. The property should now be made available to some larger company with better financial and technical facilities.

APEX MAXMIN II PORTABLE EM

- Automatic In-Phase and Quadrature meter readouts.
- Maximum and minimum coupled modes of operation.
- Four frequencies: 222Hz, 444Hz, 888Hz and 1777Hz.
- Six coil separations: 100, 200, 300, 400, 600 and 800ft.
- Voice communication link via the reference cable.

APEX MAXMIN II EM SYSTEM SPECIFICATIONS

OPERATING FREQUENCIES:	222, 444, 888 and 1777Hz
COIL SEPARATIONS:	100, 200, 300, 400, 600 and 800 feet
MODES OF OPERATION:	(a) Tx coil plane and Rx coil plane horizontal (Horizontal loop mode). (b) Tx coil plane horizontal and Rx coil plane vertical (Minimum coupled mode).
PARAMETERS MEASURED:	In-Phase and Quadrature component of the secondary field.
READOUTS:	Automatic, direct readout on 3½" size meters.
SCALE RANGES:	In-Phase: ±20% normal, ±100% by switch. Quadrature: ±20% normal, ±100% by switch. Inclinometers: ±50% tilt.
READING REPEATABILITY:	±½% to ±1%
RX BANDWIDTH (-3dB):	0.2 Hz nominal
RX INTERNAL NOISE:	Negligible
TX DIPOLE MOMENTS:	150 Atm^2 @ 222 Hz, 150 Atm^2 @444 Hz, 75 Atm^2 @ 888 Hz, 50 Atm^2 @ 1777 Hz.
RX POWER SUPPLY:	Four 9V batteries (transistor radio type)
TX POWER SUPPLY:	Three 6 V alkaline lantern batteries in a separate battery pack. Optionally one 12V 8Ah rechargeable Gel Cell.
REFERENCE CABLE:	Light weight, low friction unshielded cable. Unit supplied with 200, 400 and 600 ft cables, other lengths optional.
WEIGHT OF RX UNIT:	13 lbs.
WEIGHT OF TX UNIT:	30 lbs.
OTHER MAIN FEATURES:	Built-in Intercom system for communication between receiver and transmitter unit. Signal and reference warning lights to indicate erraneous readings.

FOR MORE INFORMATION,
PHONE (416) 491-6388 OR WRITE TO:

APEX PARAMETRICS LTD.

255 YORKLAND BLVD., WILLOWDALE, ONTARIO, CANADA M2J 1S3

2.5268

May 31, 1983

Jocelyne A. Kidston
c/o L.M. Dyment
R.R.#1
Tarzwell, Ontario
P0K 1V0

Dear Sirs:

Re: Geophysical (Electromagnetic)
Survey submitted on Mining Claims L544549 et al
in the Township of Otto

Enclosed is the final page of the report, in duplicate, for the above-mentioned survey. Please have the author sign each page and return them to this office.

For further information, please contact Mr. F.W. Matthews at 416/965-1380.

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

R. Pichette: mc

Encls:

cc: Mining Recorder
Kirkland Lake, Ontario

Ontario Geochemical and Expenditures)

Lands Admin (Free L544549)

The Mining Act 2.5116 2.5268

Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

#334

Type of Survey(s): HORIZONTAL LOOP ELECTROMAGNETIC

Township or Area: OTTO 2.5268

Claim Holder(s): JOCELYNE A KIDSTON

Prospector's Licence No.: K18404

Survey Company: JOCO MINERALS & EXPEDITING LTD

Survey Dates (linecutting to office): Day 3 Mo. 82 Yr. | Day 10 Mo. 3 Yr. 82

Total Miles of line Cut: 3.9

Name and Address of Author (of Geo-Technical report): L.M. DYMENT RR#1 TARBUTT ONT POK 1W0

Special Provisions Credits Requested

Instructions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	20
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days

Instructions		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	344549	20
	544544	20
	544545	20
	544546	20

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
OCT 29 1982
MINING LANDS SECTIO

LARDER LAKE MINING DIV.
RECEIVED
OCT 15 1982
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Total number of mining claims covered by this report of work: 4

Report Completed

Date of Report: OCT. 14/82

Recorded Holder or Agent (Signature): Jocelyne Kidston

For Office Use Only

Total Days Cr. Recorded: 80

Date Recorded: OCT 15 1982

Date Approved as Recorded: 83.07.13

Mining Recorder: ACTING

Regional/Branch Director: for

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: L.M. Dyment RR#1 Tarbutt Ont POK 1W0

Date Certified:

Certified by (Signature):

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.5268

Mining Lands Comments

[ ] To: Geophysics M/R Barlow

Comments

[x] Approved [ ] Wish to see again with corrections | Date feb 28/83 | Signature

[ ] To: Geology - Expenditures

Comments

[ ] Approved [ ] Wish to see again with corrections | Date | Signature

[ ] To: Geochemistry

Comments

L.D.

[ ] Approved [ ] Wish to see again with corrections | Date | Signature

[ ] To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

1982 12 23

2.5268

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 544549 et al in the Township of Otto.

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 Manggement Branch

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

DW:sc

cc: L.M. Dyment
Tarzwell, Ontario

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) HOR-LOOP EM

Township or Area OTTO

Claim Holder(s) JOCELYNE A KIDSTON

Survey Company JOMI MINERALS & EXPEDITING LTD.

Author of Report L.A. DYMENT

Address of Author RR # 1 STRZWELL, ONT P0R1G0

Covering Dates of Survey MARCH 8 - MARCH 10 1982
(linecutting to office)

Total Miles of Line Cut 3.9

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	20
--Magnetometer	
--Radiometric	
--Other	
Geological	
Geochemical	

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

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

DATE: Nov 5 '82 SIGNATURE: _____
Author of Report or Agent

Res. Geol. _____ Qualifications 2 2903

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	544549
	544544
	544545
	544546

RECEIVED
DEC 10 1982
MINING LANDS SECTION

If space insufficient, attach list

TOTAL CLAIMS _____

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 176 Number of Readings 712

Station interval 100' Line spacing 400'

Profile scale

Contour interval

MAGNETIC

Instrument

Accuracy -- Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

ELECTROMAGNETIC

Instrument APEX MAX-MIN II

Coil configuration HORIZONTAL

Coil separation 300 ft

Accuracy ± ½% to ± 1%

Method: ☐ Fixed transmitter ☐ Shoot back ☒ In line ☐ Parallel line

Frequency 888 Hz & 1777 Hz
(specify V.L.F. station)

Parameters measured In-Phase & Quadrature

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 _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

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 _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

2.5268

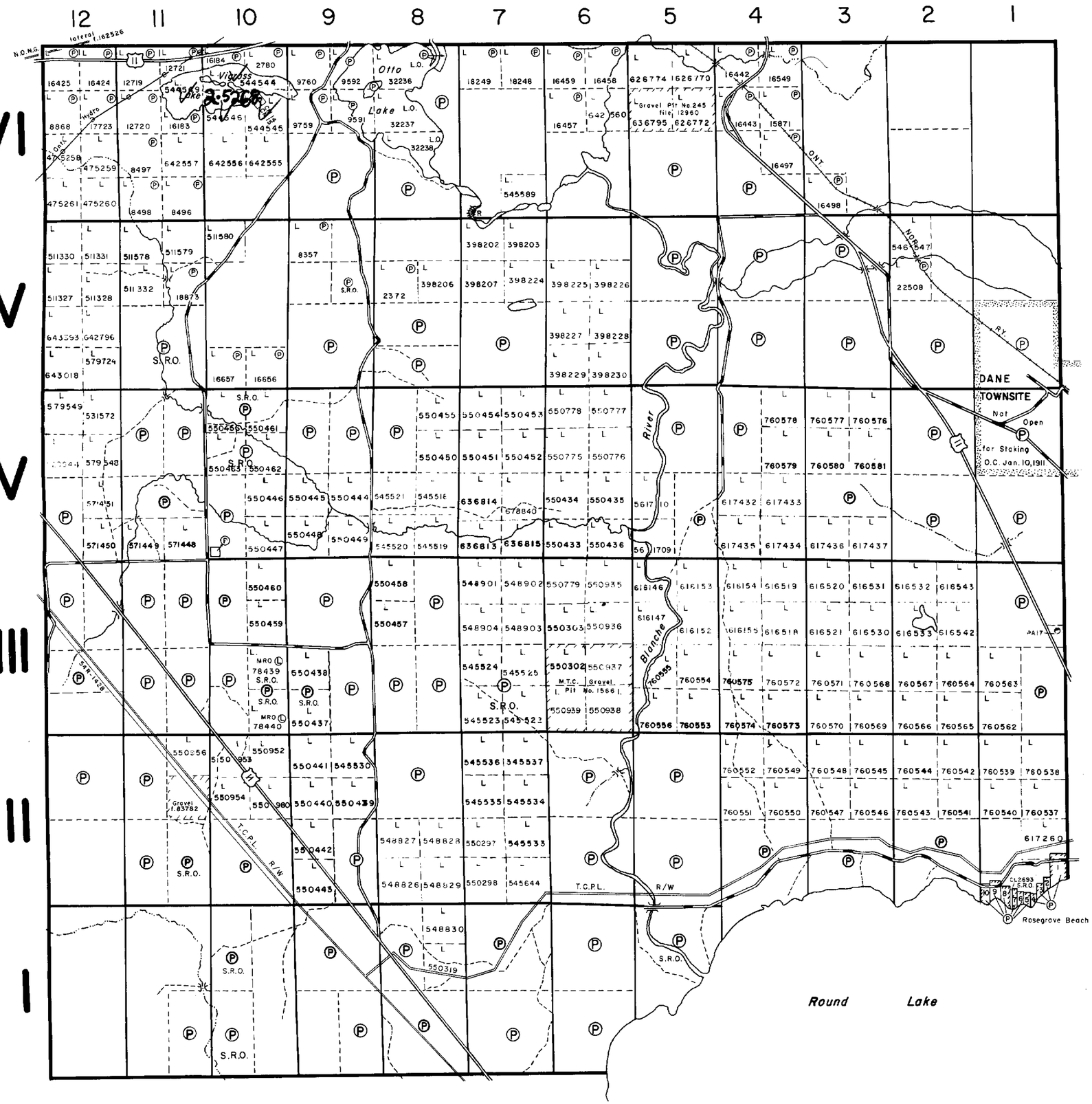
	E.M.					
L. 3 44544	✓					
45	✓					
46	✓					
544549	✓					
						O.K.

TECK TP. - M.392

EBY TP. - M.345

BOSTON TWN TP. - M.332

MARQUIS TP. - M.362



THE TOWNSHIP OF OTTO

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	
PATENTED S.R.O.	

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

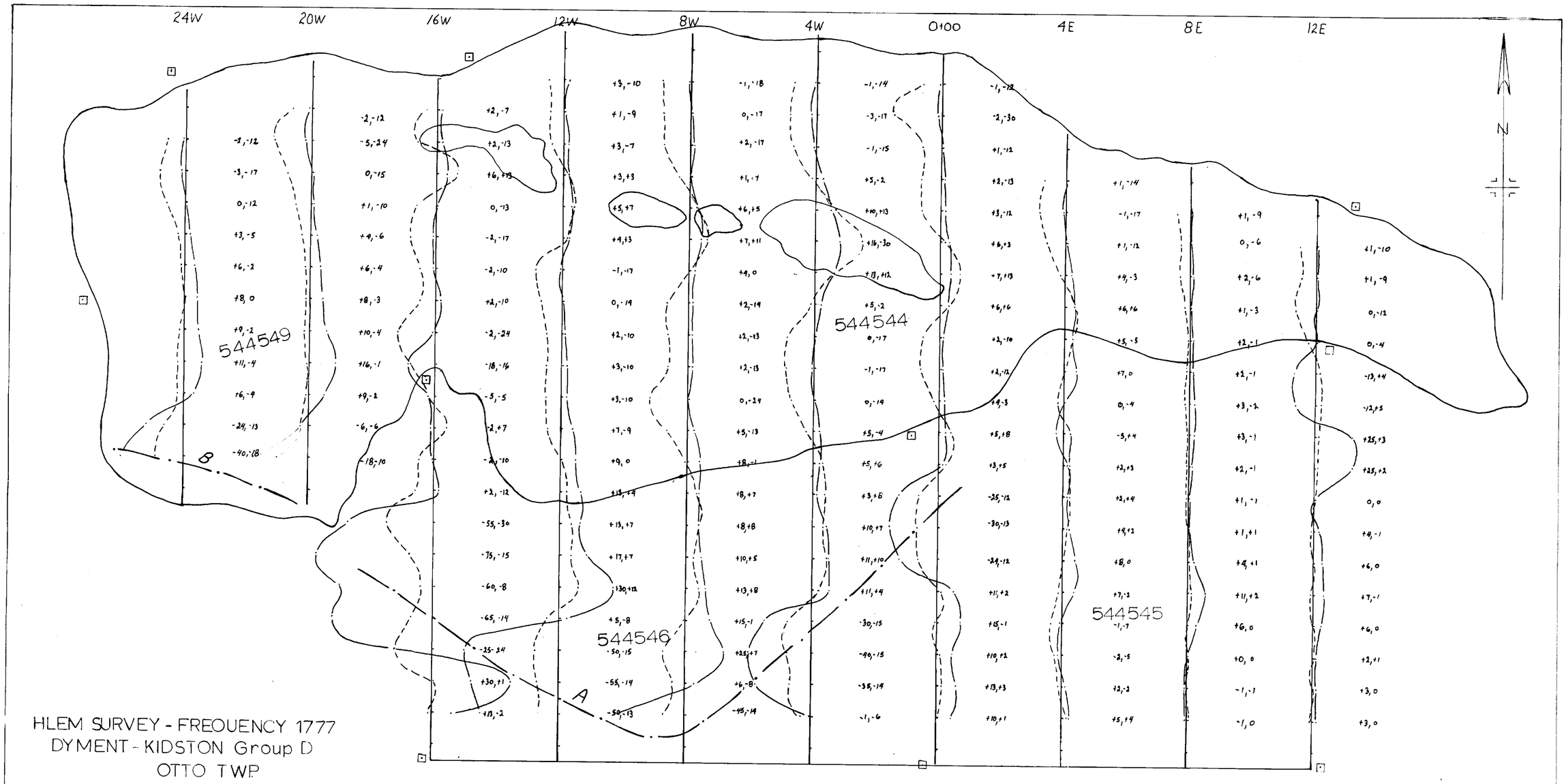
DATE OF ISSUE
JUL 11 1983
Ministry of Natural Resources
TORONTO

12 11 66

PLAN NO.- M-379

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A01SE0132 2.5268 OTTO



HLEM SURVEY - FREQUENCY 1777
DYMENT - KIDSTON Group D
OTTO TWP.

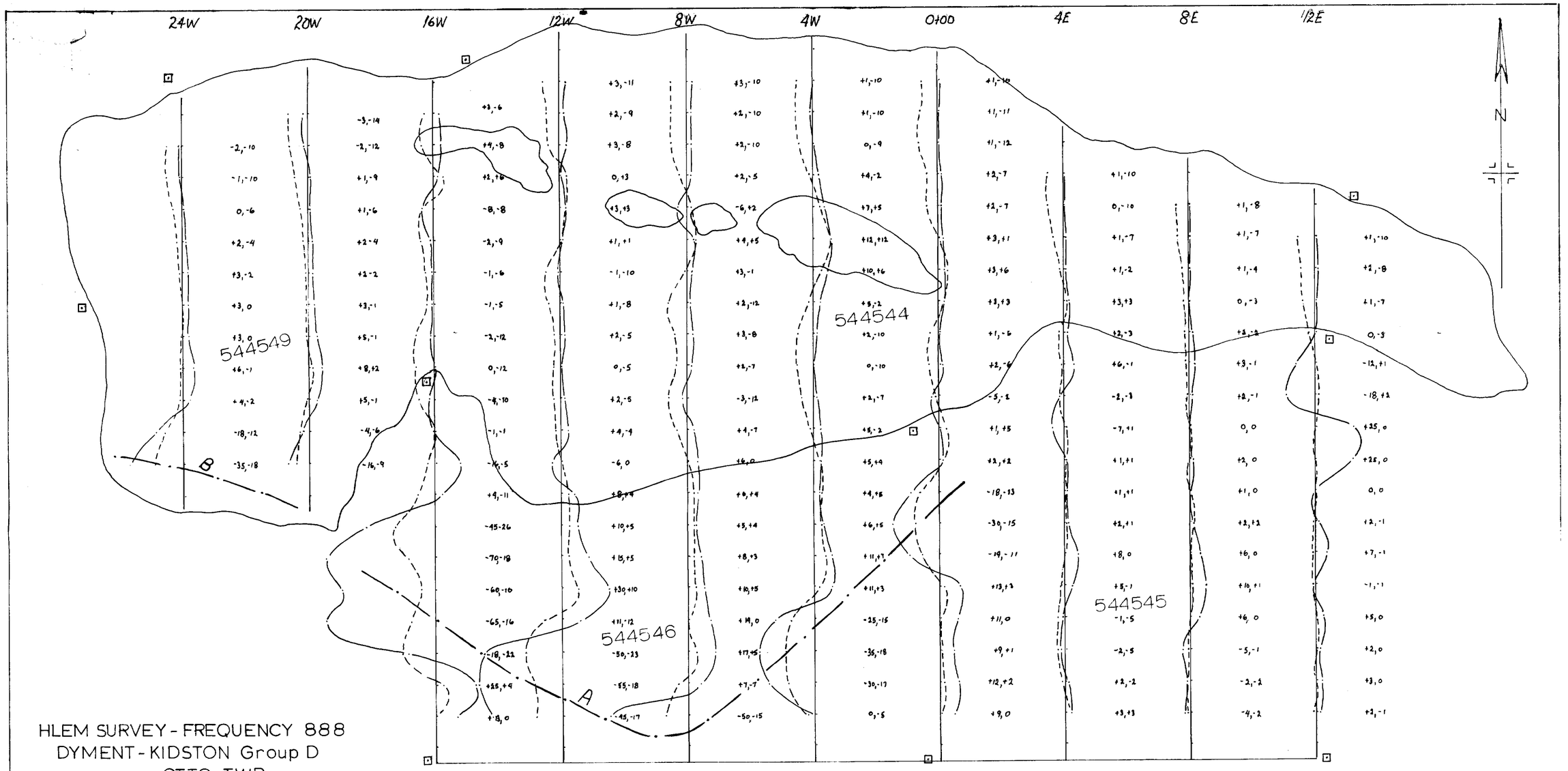
LARDER LAKE MINING DIVISION

LEGEND
Scale: 1 inch = 200 ft.
1 inch = 40°
Apex Maxmin 11

MI MINERALS & EXPEDITING LTD

210

2.5268



HLEM SURVEY - FREQUENCY 888
DYMENT - KIDSTON Group D
OTTO TWP.

LARDER LAKE MINING DIVISION

LEGEND
Scale: 1 inch = 200 ft.
1 inch = 40°
Instrument: Apex Maxmin II
In-Phase: ——·——
Out-Phase: - - - - - -
survey by: JOMI MINERALS & EXPEDITING LTD.

Nov 3/82

2.5268