42A01SE0138 2.5116 OTTO

010

REPORT ON GEOLOGICAL SURVEY

DYMENT-KIDSTON CLAIMS

OTTO TWP

GROUP D

RECEIVED
OCT 22 1982
MINING LANDS SECTION

NTS: 42-A/1

JOMI MINERALS & EXPEDITING LTD.

Tarzwell, Ontario

L. M. Dyment

October, 1982

42A01SE0138 2.5116 OTTO

010C

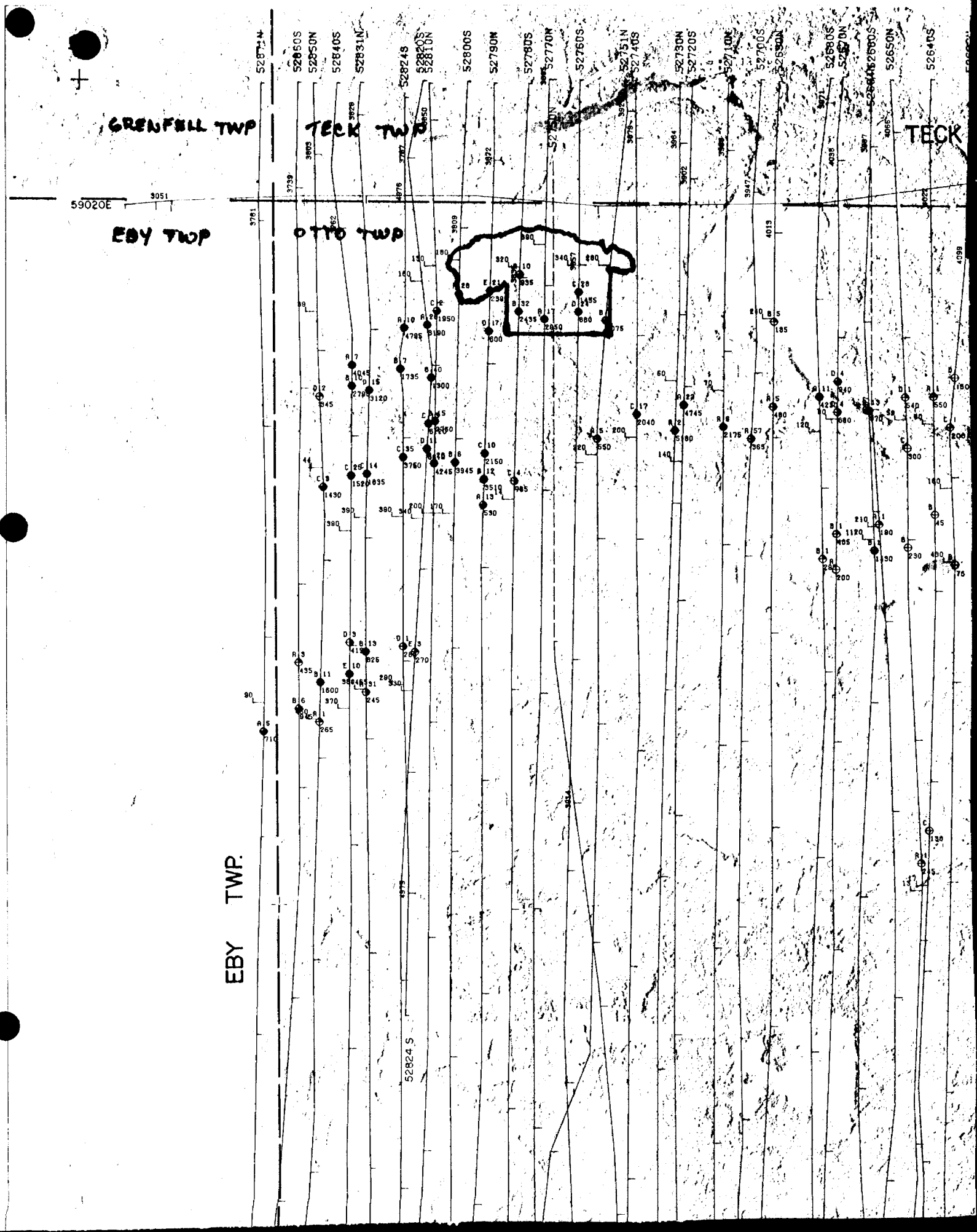
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LIST of MAPS

Location map..... after table contents

Geological Map (1"≠200')... in pocket


GRENFELL TWP
TECK TWP
TECK
59020E
3051
EBY TWP
OTTO TWP
EBY TWP.
52824 S

INTRODUCTION

The property covered by this report consists of 4 claims held in partnership by Jocelyne Kidston & Mike Dyment. Both prospectors residing in the Kirkland lake area. Since 1979 they have carried out a systimatic grass roots program of linecutting Proton Magnetometer, VLF, & Horizontal Loop EM surveys, as well as general prospecting.

LOCATION & 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 the 1912 Bureau of Mines publication of the Swastika area by E.L. Bruce. The property is located 1.4 km. west of the town of Swastika and is bordered to the north by Highway 66.

The following 4 claims are covered by the report for assessment credits. L. 544549
L. 544544
L. 544545
L. 545546

HISTORY

A search of the Kirkland Lake resident geologist's assessment files failed to locate any work. Hearsay from older residence although favourable, could not be documented. Evidence of old trenching is prevalent and appears to be pre 1930 and consisted of blasting quartz and carbonate showings. During the early days the Golden Gate Mines drilled along the creek draining the lake. This drilling indicated a strong Fault with a southerly dip, no further information was published (Thompson 1948, vol.57 pt.5 pg. 29). No evidence of further drilling was established on the group by the author.

GENERAL GEOLOGY

The consolidated rocks of the general area are Precambrian in age; stratigraphical and structural studies show that the early Precambrian volcanic and sedimentary formations are greatly deformed by folding and faulting. They are separated by a great erosional & structural unconformity into two main groups. The older group consists of the volcanics that underlie the northern & southern parts & belong to the Keewatin period. The younger sedimentary-volcanic complex is classified as part of the Timiskaming Series. (Thompson 1948, ODM vol. 57, part 5 pg. 5-6)

A more up to date description can be found in (Jensen 1978 Field Guide tour publication). Three cycles of volcanism, each associated with sedimentation and intrusion occur in the Kirkland Lake area. The first two cycles are subalkalic. They have a basal Komattiitic sequence, a middle tholeiitic sequence and a upper calc-alkalic sequence. They are separated from one another by a sedimentary zone containing; conglomerate, argillite chert, and Iron formation. The third and youngest cycle consists of alkalic rocks of the Na & K series.

The geology of the area around Vignass Lake can be found in the following:

1912 - Bruce Bureaus of Mines Report
1920 - Burrows & Hopkins ODM Report
1922 - GSC Memoir 13
1923 - Burrows & Hopkins ODM Report
1948 - Jas. E Thompson ODM Report
1972 - H.L. Lovell ODM Report
1978 - L. Jensen ODM Field Trip Guide

DESCRIPTION OF GROUP D GEOLOGY

The property was mapped using the 1978 Tour Guide publication by Dr. Larry Jensen ODM, as a reference. The 1978 Guide used Vigrass Lake as one of the tour stops and the upper NW corner of the property area and the most westerly Island were published.

As shown by the map in the pocket of this report, the Komatiitic sequence continues across the lake to the southern shore. Carbonates can be found on both the North and South shore of the lake. Whether they are of primary or secondary origin still remain a question mark. The carbonates are found as green, orange-brown & grey, that are so commo nly associated with the Larder Lake Break. Much disseminated sulphide can be found associated with these carbonated rocks. Some grab samples were taken during mapping & their analysis are shown with the geology map. Several porphyry dikes were mapped and a disseminated zone similiar to the mudstones of the Kerr Addison was noted in close association with the porphyry dike in the SE corner of the property.

In the Area of the channel 6 Airborne EM anomalies, some cherty graphitic float was pick up and graphites were inferred in that area.

Evidence of quite heavy shearing is more than obvious as you walk along the SE shore and it is easy to delineate the Vigrass Lake Fault, A Major strike fault in the Kirkland Lake area.

CONCLUSION

A good program of grass roots data gathering has been carried out by the prospectors since 1979. The property should now be made available to someone with better financial & technical facilities.

Certificate

I, Leslie Michael Dyment, residing in the Township of Marquis, Ontario, and having a mailing address, Jomi Minerals & Expediting, RR#1 Tarzwell, Ontario do hereby certify:

(1) That I am a mining Technician having taken the two year course at Haileybury school of Mines.

(2) That I have been employed in all phases of Mining Exploration and Development for 21 years.

(3) That I did personally accumulate and set forth the facts and knowledge in the accompanying reports and maps.

(4) That the accompanying report is true

Dated Oct. 12, 1982
Tarzwell, Ont.

L.Mike Dyment

42A01SE0138 2.5116 OTTO

900

#418

1983 08 24 2.5116

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

Dear Sir:

RE: Geological Survey on Mining Claims L 544549 et al
in the Township of Otto

The Geological Survey assessment work credits as listed with my Notice of Intent dated July 20, 1983 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

cc: Jocelyne A. Kidston
R.R.#1
Tarzwell, Ontario
P0K 1V0

cc: L.M. Dyment
R.R.#1
Tarzwell, Ontario
P0K 1V0

cc: Resident Geologist
Kirkland Lake, Ontario

Ontario Geochemical and Expenditures) The Mining Act 2.5116

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

#418

Type of Survey(s): GEOLOGICAL

Township or Area: OTTO

Claim Holder(s): JOCELYNE A. KIDSTON

Prospector's Licence No.: K18401

Survey Company: JOMI MINERALS & EXPEDITING LTD

Survey Dates (linecutting to office): 12 Day | 10 Mo. | 81 Yr. | 5 Day | 11 Mo. | 81 Yr.

Total Miles of line Cut: 3.9

Name and Address of Author (of Geo-Technical report): L.M. DYMENT RR#1 TARZWELL, ONT. P0K 1V0

Special Provisions Credits Requested

Instructions
For first survey: Enter 40 days. (This includes line cutting)
For each additional survey: using the same grid: Enter 20 days (for each)

	Days per Claim
Geophysical	
- Electromagnetic	
- Magnetometer	
- Radiometric	
- Other	
Geological	20
Geochemical	

Man Days

Instructions: Complete reverse side and enter total(s) here

	Days per Claim
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.
	544549	20
	544544	20
	544545	20
	544546	20

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
DEC 15 1982
MINING LANDS SECTION

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

For Office Use Only

Total Days Cr. Recorded: 40
Date Recorded: OCT 15 1982
Mining Recorder:
Date Approved as Recorded:
Regional/Branch Director:

Report Completed

Date of Report: OCT. 14/82
Recorded Holder or Agent (Signature): Jocelyne Kidston

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 TARZWELL ONT P0K 1V0

Date Certified: OCT 14/82

Certified by (Signature):

1310

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.5116

Jan 25/83

Mining Lands Comments

- outcrop not designated — yes it is.
- no traverse line. — grid lines are traverse lines

☐ To: Geophysics

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☑ To: Geology - Expenditures Mr Kustra

Comments

The colored areas enclosed by solid lines are actual outcrop areas

☒ Approved ☐ Wish to see again with corrections | Date Mar. 16/83 | Signature C Kustra

☐ 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)

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.5116

#418

1983 07 20

Recorded Holder	JOCELYNE A. KIDSTON
Township or Area	TOWNSHIP OF OTTO

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 544544 to 46 inclusive 544549
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Section ~~86(18)~~ 77(19) _____ days	
Geological 15 days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☒ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section ~~86(12)~~ 77(16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ Insufficient technical data filed

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(12)~~ 77(19)

828

Ministry of Natural Resources
Ontario

Aug 11/83

Your file:

1983 07 20

Our file: 2.5116

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

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, 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: 416/965-1316

D. Kinvig:mc

cc: Jocelyne A. Kidston
R.R.#1
Tarzwell, Ontario
P0K 1V0

cc: L.M. Dyment
R.R.#1
Tarzwell, Ontario
P0K 1V0

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Encls:

Ministry of Natural Resources

Ontario

Notice of Intent

for Technical Reports

1983 07 20

2.5116

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1982 10 28 2.5116

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 Geological 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.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

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: Mr. L.M. Dyment
R.R. #1
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) GEOLOGICAL

Township or Area OTTO

Claim Holder(s) JOCELYNE A. KIDSTON

Survey Company JOMI MINERALS & EXPEDITING LTD

Author of Report L.M. DYMENT

Address of Author RR#1 TARZWELL ONT P0K 1V0

Covering Dates of Survey OCT 12 - NOV 5 1981
(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	
–Magnetometer	
–Radiometric	
–Other	
Geological	20
Geochemical	

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

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

DATE: OCT. 14/82 SIGNATURE: [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
OCT 22 1982
MINING LANDS SECTION

TOTAL CLAIMS _____

If space insufficient, attach list

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 _____ Number of Readings _____

Station interval _____ Line spacing _____

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 _____

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 _____ 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 _____

_____

_____

_____

_____

_____

_____

_____

_____

2.5116

	Geology
544544	1/2
45	✓
46	1/4
544549	3/4

$(4 \times 20) \div (4 + \frac{5}{4})$

$= 14.55$

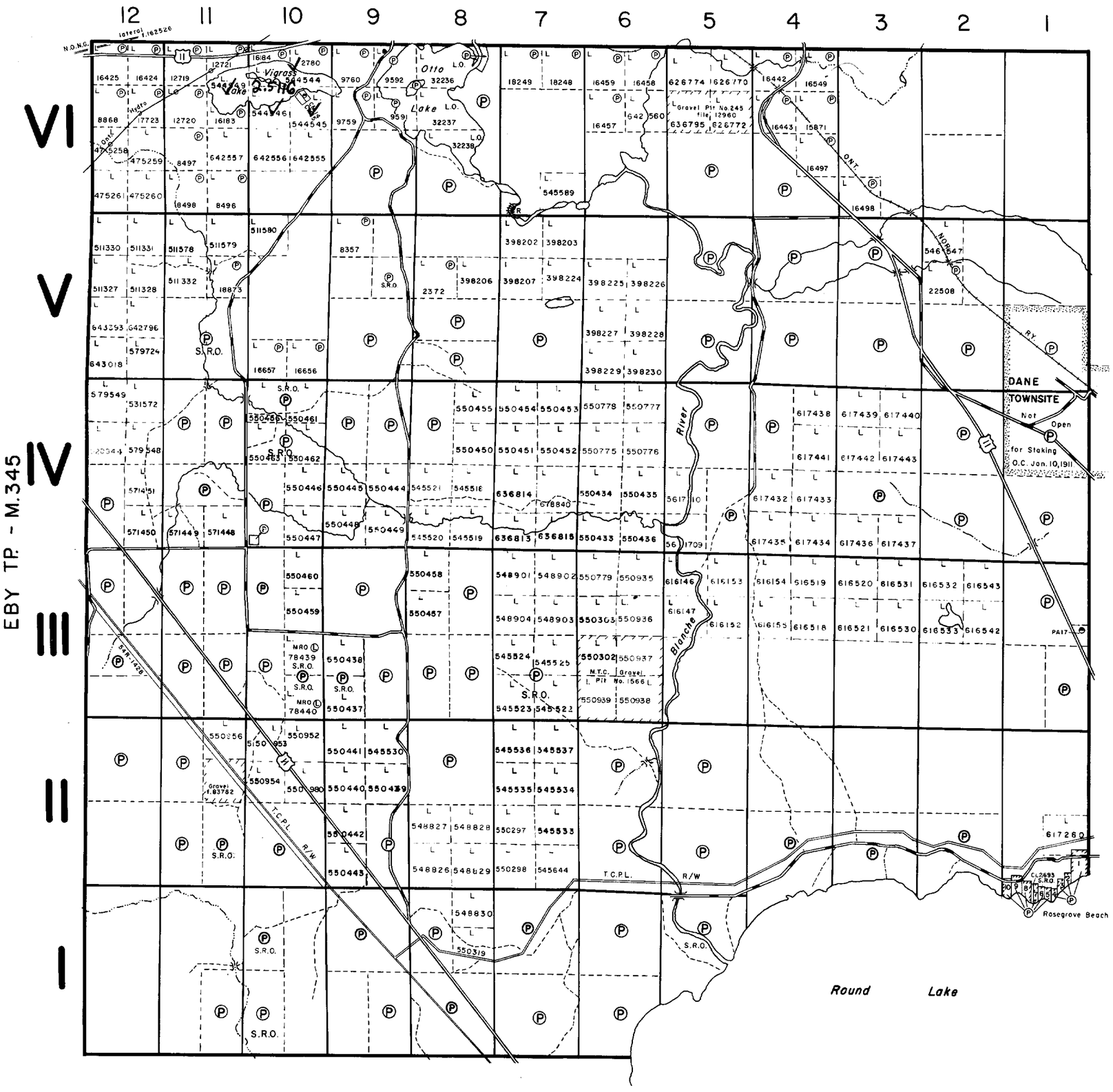
$= (15)$ days

TECK TP. - M.392

EBY TP. - M.345

BOSTON 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	C.
PATENTED S.R.O.	

NOTES

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

DATE OF ISSUE
APR 22 1983
Ministry of Natural Resources
TORONTO

PLAN NO.- M-379

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A01SE0138 2.5116 OTTO

DYMENT-KIDSTON Group D
GEOLOGICAL MAP
Otto twp.

LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING

LEGEND

7 Syenites, Lamprophyre Porphyry
6 Gabbro, Diorite
5 Mafic dikes
4 Altered volcanics (carbonatized)
3 Tholeiitic Basalts
2. Komatiitic Basalts
1. Undifferented volcanics

SYMBOLS

SP : Spinifex
BK : Basaltic Komatiite
UK : Ultramafic Komatiite
POL : Polysutured
Mg THOL : MgO rich Tholeiitic Basalt
M : slightly magnetic
Vb : Variolitic Basalt

SPECTROGRAPHIC SYMBOLS

H = 10 to 100 %
MH = 5 to 15 %
M = 1 to 10 %
LM = 0.5 to 5 %
L = 0.1 to 1 %
TL = 0.05 to 0.5 %
T = 0.01 to 0.1 %

Spectrographic Qualitative Analysis

Sample	Gold	Silver	Arsenic	Chromium	Manganese	Molybdenum	Nickel	Titanium	Vanadium	Copper	Zinc	Iron
A	.004											
B	Tr			TL	L		T	TL	T	T		MH
C	.005											
D	.003											
E	.003	Tr		T	T	T	T	T				LM
F	nil	.03		T	TL		T	TL	T	T	T	MH
G	nil	.04		T	TL		T	TL	T	T	T	MH
H	nil											
I	nil											
J	tr											
K	tr	.07	L	T	T			T				LM
L	tr	.04		T	T	T	T	TL	T			LM
M	nil											

LOCATION MAP

2.5116

OCT 14/64

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