42A01SE0128 2.6408 OTTO

010

Mr. J. D. Reed,
R. R. 2, Site 3,
Swastika, Ont. P0K 1T0.

Assessment Report

Geological Survey

Group B.

Reed Claims.

Eby - Otto Township,

Ontario.

Field Work. June 1 to Oct. 1, 1984.

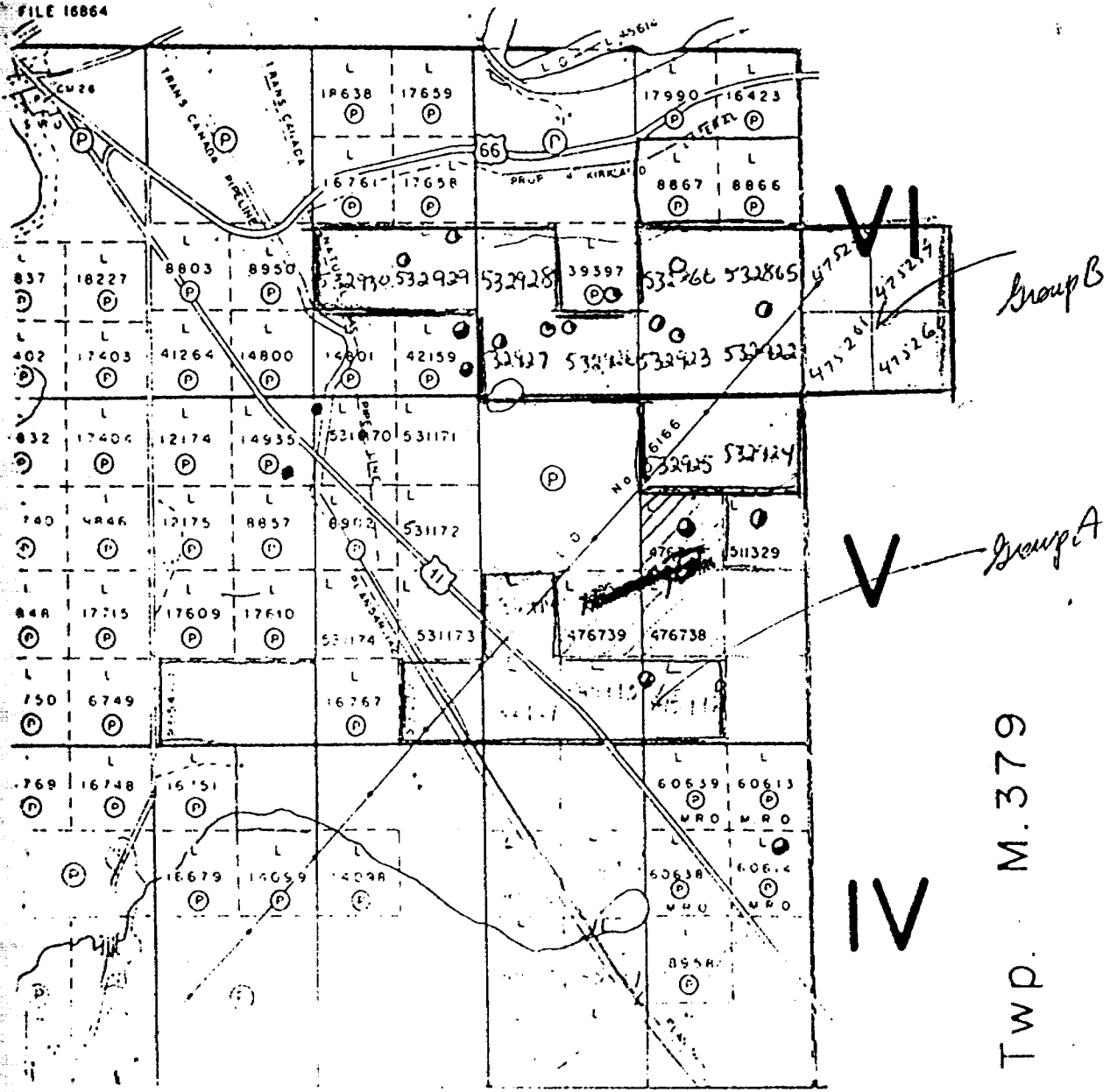
Reported by:

James D. Reed, B.A., B.Ed.

Dual
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RECEIVED
FEB 21 1984
MINING LANDS

/p. M. 351



THE TOWNSHIP OF

EBY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
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	

Table 1 | TABLE OF LITHOLOGIC UNITS

CENOZOIC

PLEISTOCENE AND RECENT

Silt, clay, sand, gravel

Unconformity

PRECAMBRIAN

PROTEROZOIC

LATE MAFIC INTRUSIVE ROCKS (NIPISSING OR KEWEENAWAN)

Diabase

Intrusive Contact

HURONIAN

COBALT GROUP

GOWGANDA FORMATION

Conglomerate, arkose, greywacke, argillite

Unconformity

ALKALIC INTRUSIVE ROCKS

Syenite, quartz syenite, porphyritic syenite, nepheline syenite, granite, aplite dikes, lamprophyre, diorite

Intrusive Contact

ARCHEAN

MAFIC INTRUSIVE ROCKS (MATACHEWAN OR NIPISSING)

Diabase

Intrusive Contact

FELSIC INTRUSIVE ROCKS (ALGOMAN)

Granite, porphyritic granite, granodiorite, granodioritic gneiss, syenite and trachyte

Intrusive Contact

EARLY MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS (HAILEYBURIAN, EARLY ALGOMAN, AND KEEWATIN)

Serpentinite, peridotite, gabbro, diorite

Intrusive Contact

METASEDIMENTS (TIMISKAMING AND KEEWATIN)

Conglomerate, quartzite, greywacke, tuff, agglomerate, breccia

Unconformity and Interbedding

FELSIC METAVOLCANICS (KEEWATIN)

Rhyolite, dacite, dacite porphyry, iron formation, silicic tuff, agglomerate

MAFIC METAVOLCANICS AND METASEDIMENTS

Basalt, andesite, andesite porphyry, dacite, chloritic mafic tuff, agglomerate, amphibolite, garnet-epidote amphibolite, amphibolite gneiss, biotite-garnet-pyroxene amphibolite

ODM Report 99 Hewell

Reed Enterprises, Group B.

Introduction

The property was staked together with Group "A" in 1979 at the time of the release of the Ontario Geophysical Survey EM maps which indicated 13 anomalies on the group.

Location and Access

The property is located one mile east of the junction of Highway #11 and #66 at Kenogami and ½ mile south of Highway #66. The H.E.P.C. high tension line crosses the property and the trans-Canada Pipeline touches it at the west end. There is easy access, on foot, via the H.E.P.C. line, the pipe line or the Otto-Eby Township line. The claims are registered on the author's licence with the MNR under the following numbers: Eby Twp - L532930, 532929, 532928, 532927, 532926, 532866, L532923, 532925, 532924, 532922, 532865; Otto Twp - 475258, 475259, 475260, 475261.

Previous Work

There was little evidence of any observable work having been done on the four Otto Twp claims. Noranda Explorations had at one time held part of the Eby claims but apparently did not follow up their instrumental work with anything more definite. We observed a number of trenches mostly in the north part of the Eby claims and opened up some of these by bulldozer in 1982-83.

In 1980 we drilled one 307 ft hole on claim 475260. During 1981-82 a grid was cut on 400 ft intervals and Mag., EM, and Radiometric surveys were run. Reports are on file at the Resident Geologist office in Kirkland Lake.

Survey Method

During the summer of 1983 sampling was done and field notes made using the grid cut in 1981 as a base in order to corelate the work with the former surveys. Aid in rock type identification was obtained from Dr. L. Jensen, MNR, Toronto, who was mapping in the general area; and Mr. G. Grabowski of the local MNR office. Particular attention was paid to any indicators from the previous surveys.

Geology

The group of 15 claims corner on the Trans-Canada Pipeline on the west, and stretch for two miles easterly into Otto Twp. Most of the area was logged many years ago, but the rougher parts were left. A band of dead balsam crosses the north western portion.

The area is rough consisting mostly of basalt flows and swamp, with some areas of dry, rocky glacial soil. We have indicated these last areas as "till" on the map. There is one area in the Otto portion which is a large, wet beaver meadow, leading by way of a small stream, to the shallow beaver pond at the eastern boundary. This stream and a large deep pond (14W+18S) on the south side, are the only good sources of water on the property, should it be needed.

H.C. Cooke[1] says of the general area, "The geology of the area discourages the expectaion that valuable gold deposits will be found in it.

"The principal feature of geological interest is a large band of water lain tuff interbedded with basalt flows of Keewatin."

Lavas

"The basalts, which form the major part of the Keewatin of the area, are dark greenish, massive rocks, with characteristics of extrusives. Pillow structures are particularly common and flow textures were frequently found. Amygdaloidal textures and breccias were also observed in places."

Our mapping seems to confirm Cooke's general observations. Most outcrops are basalt flows. Tuff outcrops in the northeast corner of the group and at 18W =07N, and breccia in a trench near the township line (38E01N). Breccia and graphite were also interbedded with basalt in diamond drill core on the southeast claim. The main body of tuff outcroppings pass north and south of the property. Cooke seems to have over-looked the carbonates.

In his report, H. Lovell[2] states, "The gold-bearing green and brown carbonate rocks are not confined to the area of the "Larder Lake Fault", as heretofore suspected, but rather constitute the carbonate facies of the widespread iron formation. Most of the exploration for gold has been

concentrated in syenite, trachite, and carbonate rocks along the Larder Lake Fault, so most of the carbonate rocks have not been thoroughly explored. Where covered by overburder, large areas of carbonate rocks can be detected because they form gaps in the series of magnetic and electromagnetic anomalies that outline the iron formation."

These "Recommendations to Prospectors" have particular significance in relation to this property as we have traced carbonates, trending E.W. across the north part of the property. Since they hang on the south slope of outcrops, which generally drop into the bog, they tend to be in a line of sites, rather than being continually visable. Unfortunately we were not able to hose down the areas we had bulldozed, along this line, and only got a quick look in poor light, at the east end, just before winter set in. Grab samples from the carbonates, if taken where mineralized, usually run from 0.001 to 0.03 oz/T, and seldom nil.

We have also noted on the accompanying map a number of quartz-carbonate floats trending southeast, along the southerly side of the low lying area in Otto Twp. A large piece, weighing several tons is at 55E+21S and a good deal of the same material is nearby. It would seem probable that this material was gouged out of the area under the bog immediately to the north, as it shows no sign of having been moved very far.

At 10W+12S there is an old pit on dry ground just north of a large basalt hill. Though the pit would need considerable work to give good exposure, quartz stringers and carbonate are evident, and carbonate is again evident 450 ft north. Since most of this area is covered, and there is little evidence of serious investigation having gone on in the past, this seems a good target for mechanical stripping.

The 307 ft drill hole on claim 475260, with the EM conductor as a target, intersected several graphic zones between basalt flows. At 173.0 to 175.0 ft, gold values of 0.07 oz/T were present and at 154.2 to 155.2, zinc was at 0.11 . These bands would seem to run from near the carbonate to the north in a southeasterly direction to join the graphitic area to the south, explored by Noranda Explorations in 1980.

Conclusions and Recommendations

It would seem that the carbonate zones on the north part of the property are the most promising areas. They are the types of rock recommended by Lovell in his report. They are mineralized and in grab samples carry gold values. We understand that the four claims in Otto Twp were held as patent land for many years and we see no evidence of work done. Since the carbonate lies on the edge of this lowland we recommend:

1. Washing the bulldozed areas down for detailed examination.
2. Sampling of these areas.
3. If indicated, trenching down into the bog.
4. Though expensive, diamond drilling might be warranted.
5. Opening pits at 10W+12S by mechanical means for better examinations.

Certificate

I, James David Reed, residing in the township of Grenfell, Ontario, and having a mailing address of R.R. 2, Swastika, Ontario, P0K 1T0, do hereby certify that I have persoanlly accumulated and set forth the facts in the accompanying report and map, and that the information is true.

My background profile is on record at the ministry office in Toronto as I filed two reports titled "Spectrometer Radiometric Survey, Reed Claims Group A, Eby Twp, Aug. 31, 1982" and Group B, the same date.

Date: Feb 4 1984

James David Reed

James David Reed, B.A., B.Ed.

References

1. Cooke, H.C.
1922, Kenogami, Round Lake and Larder Lake Areas, Timiskaming District, Ontario, Geol. Survey, Canada, Memoir 131, Page 4.

2. Lovell, H.L.
1972, Geology of the Eby and Otto Area, District of Timiskaming, Ontario Department of Mines and Northern Affairs; Geology Report 99. Page 16.

Land Admin Bra

Ministry of Natural Resources — Ontario

Report of W... (Geophysical, ... Geochemical a...

42A01SE0128 2.6408 OTTO

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#50

(File L532922)

...ype or print.
...er of mining claims traversed ...space on this form, attach a list.
...ays credits calculated in the ...litures" section may be entered ..."Expend. Days Cr." columns. ...use shaded areas below.

Type of Survey(s)	Township or Area
Geological	Eby & OTTO Twps.

Claim Holder(s)	Prospector's Licence No.
James David Reed.	K18971

Address: RR2 Site 3 Swastika Ont POKITO

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Self	Day 1 Mo. 6 Yr. 83 — Day 4 Mo. 2 Yr. 84	

Name and Address of Author (of Geo-Technical report): James David Reed

Credits Requested per Each Claim in Columns at right

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

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

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	532922	20
	532923	20
	532924	20
	532925	20
	532926	20
	532927	20
	532928	20
	532929	20
	532930	20
	532865	20
	532866	20
	475258	20
	475259	20
	475260	20
	475261	20
		10

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
MAR 1 1984
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 15

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.

For Office Use Only		
Total Days Cr. Recorded: 300	Date Recorded: FEB 10 1984	Mining Recorder:
	Date Approved as Recorded: 84.6.10	Director:

Date	Recorded Holder or Agent (Signature)
Feb 6 1984	James D. Reed

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

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.16408

Mining Lands Comments

-okay-

☐ To: Geophysics

Comments

☐ Approved ☐ Wish to see again with corrections	Date	Signature

☑ To: Geology - Expenditures Mr. C. Kustra

Comments

☑ Approved ☐ Wish to see again with corrections	Date April 24/84	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)

2.4408

1984 02 29

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 475258 et al in the Townships of Eby & 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,

J.R. Morton
Acting Director
Land Management Branch

Whitney Block
Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

A. Barr:dg

cc: J.D. Reed
R.R. #2
Site 3
Swastika, Ontario
P0K 1T0

2.6408

532922	✓		532865	✓		
23	✓		66	✓		
24	✓		475258	✓		
25	✓		59	✓		
26	✓		60	✓		
27	✓		61	✓		
28	✓					
29	✓					
30	✓					

M.379 TWP OTTO

TECK TP. - M.392

12 11 10 9 8 7 6 5 4 3 2 1

VI

V

IV

III

II

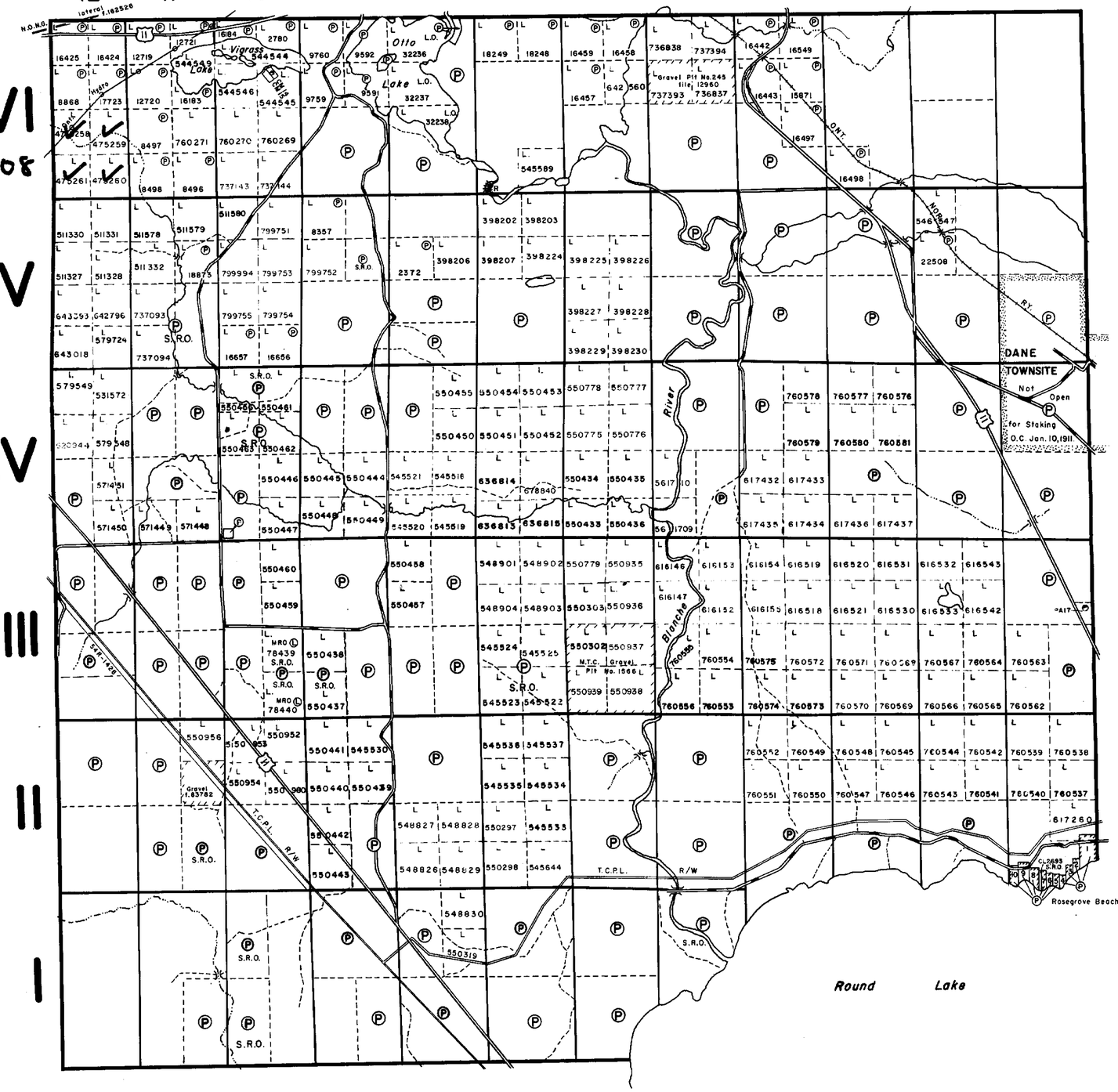
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EBY TP. - M.345

BOSTON TP. - M.332

MARQUIS TP. - M.362

2.6408



THE TOWNSHIP OF OTTO

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
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
JUN 7 1984
Ministry of Natural Resources
TORONTO

PLAN NO.- M-379

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

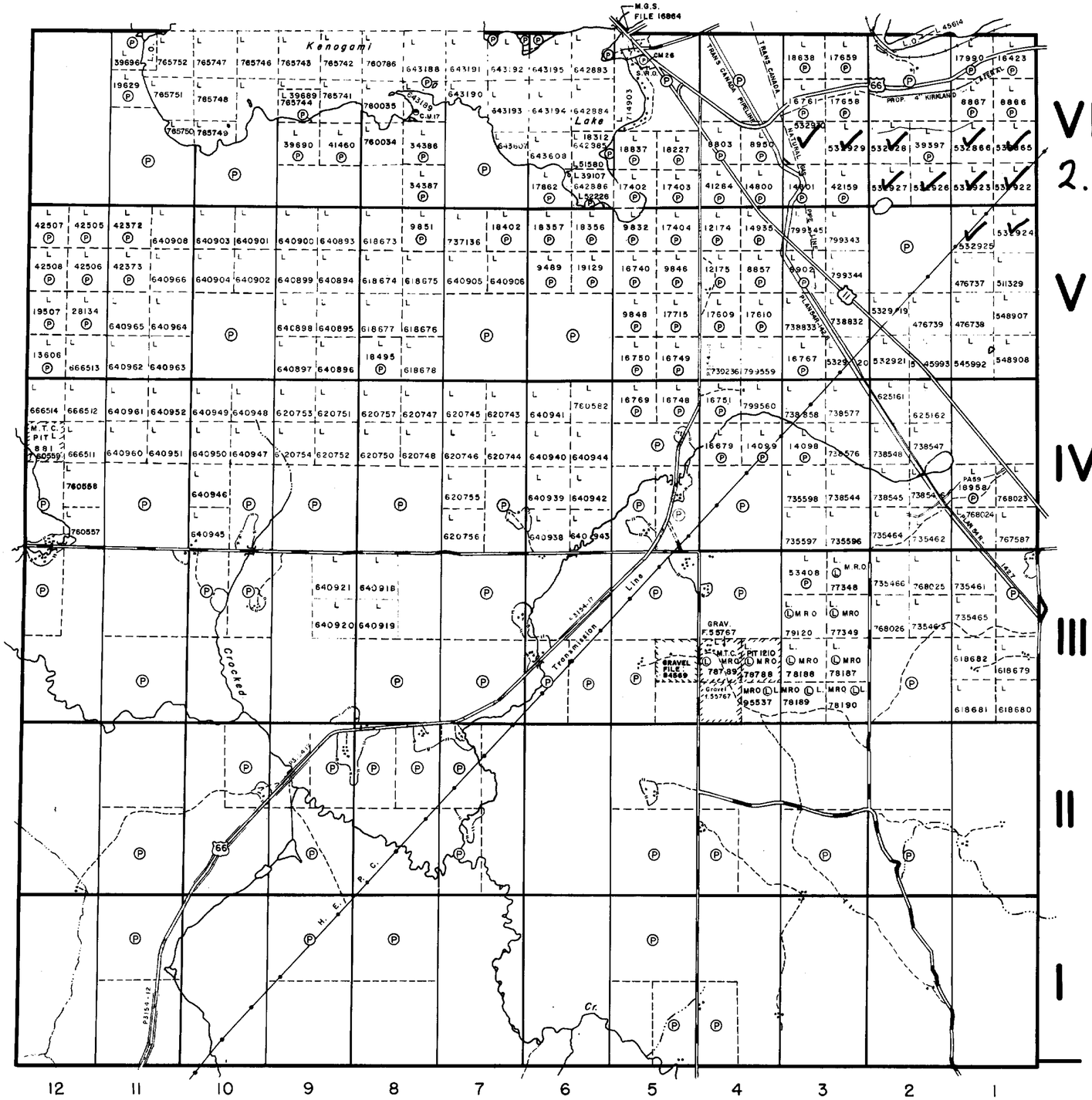
M.379 TWP OTTO
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Grenfell Twp. M.351

Burt Court Twp. M.334

Otto Twp. M.379

Blain Twp. M.418



THE TOWNSHIP OF EBY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

2.6408

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
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	C.
CANCELLED	

NOTES

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

AREAS WITHDRAWN FROM STAKING
under Sec. 43 of The Mining Act (R.S.O. 1970).

Order No.	File	Date	Disposition

DATE OF ISSUE
JUN 7 1984
Ministry of Natural Resources
TORONTO

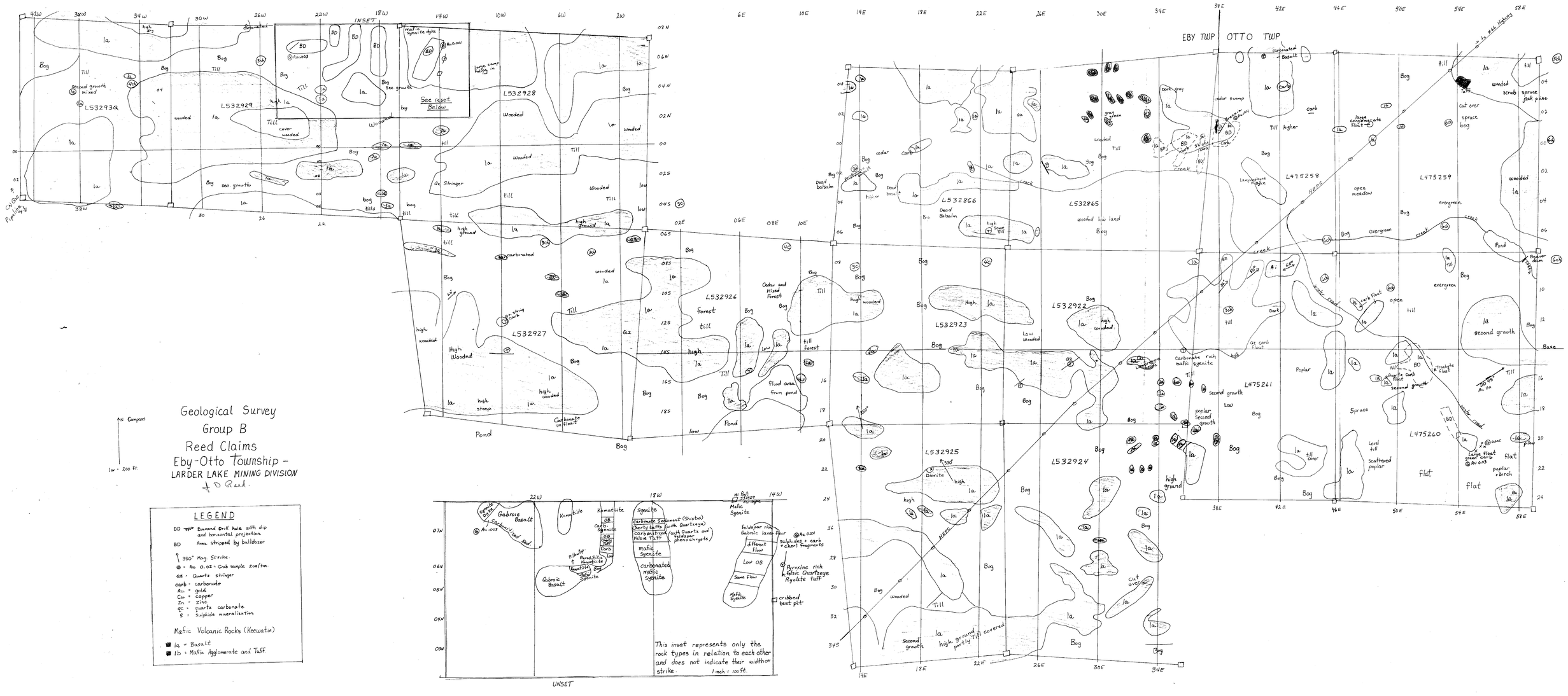
PLAN NO.- M-345

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

K. Kalamov

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ROM-ISOBYSS 21-RARE OTTO

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