42A01SE0134 2.5068 OTTO

010

ASSESSMENT REPORT

Spectrometer Radiometric Survey

Reed Claims Group B

Eby-Otto Township: Larder Lake Mining Division

RECEIVED
SEP 15 1982
MINING LANDS SECTION

Swastika, Ontario.
August 31, 1982

J. D. Reed

Qual.
2.5067

Summary:

During the summer of 1981 a programme of line cutting and outcrop location was initiated. Mag and E.M. surveys were run, continuing into the following winter. This was followed by a spectrometer survey in the summer of 1982 in the hope of aiding in the location of potassium bearing syenitized rocks of commercial value.

Introduction:

The property was staked in 1979 at the time of the release of the Ontario Geological Survey airborne E.M. maps. Fifteen anomalies were indicated. Fifteen claims were staked: L532427, L532865, L532866, L532922 to L532930 in Eby township and L475258 to L 475261 in Otto township.

Location and Access:

The property lies parallel to and about one half mile south of highway #66 about two miles west of the village of Swastika. Access along the hydro line from Vigrass Lake is practical on foot or by swamp-buggy.

Previous work:

A number of trenches and pits are evident on the property especially at the north side. A 300 ft. diamond drill hole was put down in 1980, cutting a graphite core with some values. The core log is with the ministry in Kirkland Lake. Line cutting

and Mag and E.M. surveys were run in 1981-82, the results are also on file.

Survey Method

A grid was cut and chained. A McPhar TV 1.A spectrometer was used and was left continuously running readings being recorded at 100 ft. stations. An overall picture of the property as far as radioactivety was what was sought with a view to locating syenitized formations which may contain economic gold values. Total count was used with a range of x 100.

Survey results.

The overall background of the property as mapped shows it to be 40 to 80 counts. The counts of 20 to 40 are generally over bog. As the survey maps have just been completed we have had no opportunity to investigate the many interesting areas indicated.

Conclusions and Recommendations

The survey has indicated a number of areas with above background reading so seems to have been a worthwhile tool in pinpointing areas to be prospected. It would be recommended that detailed geological mapping be done with special attention being paid to areas indicated, with trenching to bed rock where there is overburden.

Certificate

I, James David Reed, residing in the township of Grenfell, Ontario, and having a mailing address of R.R.#2, Swastika, Ontario, do hereby certify that I have personally accumulated and set forth the facts in the accompanying report and maps and that this information is true.

August 31, 1982

James D Reed

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

McPHAR TV-1A Radiation Spectrometer

A 3-channel instrument for reconnaisance use



Both meter and audio reading

Four count scales

Trigger on-off switch

Functional pistol design

Lightweight

Model TV-1A is a three channel, integral type radiation spectrometer. Measurements are based on the spectral characteristics of gamma radiation from radioactive elements. Selection of the operating threshold is made by means of the threshold selector switch.

The instrument is designed primarily for reconnaissance. The total count position provides for maximum sensitivity. Additional thresholds however, provide the capability to differentiate between gamma radiations emanating from daughter elements of uranium and thorium and provide quantitative information relating to each.

The meter is calibrated to display zero to 100 counts per minute. A four position scale multiplier switch provides four full scale ranges of 100, 1,000, 10,000 and 100,000 counts per minute. A fifth position on this switch is employed to test the condition of the batteries.

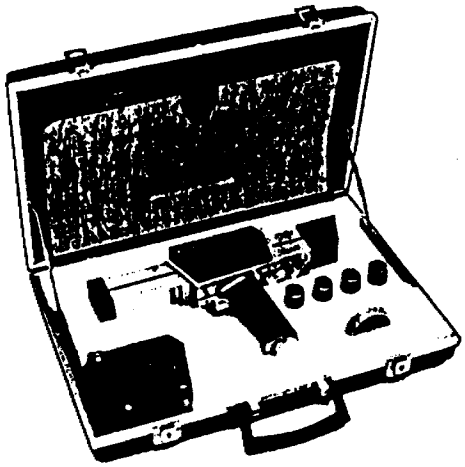
The variable time constants are tied in with the threshold selector switch. In the total count (maximum sensitivity) position, a fast or slow time constant may be selected. In the upper thresholds (lower net count), the long time constant only, is in effect.

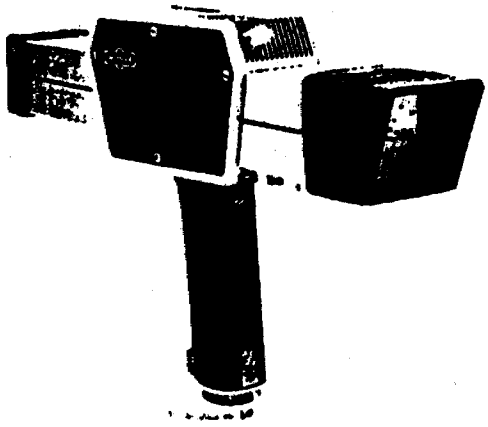
The detecting element is a 1½ by 1½ inch sodium iodide crystal coupled to a photomultiplier tube. These are hermet-

Field use is convenient with leather holster

ically sealed, magnetically shielded and mounted in the forward end of the scintillometer housing.
A speaker provides a variable pitch output with changing radiation levels. A speaker control, mounted on the top of the instrument, can be used to adjust the pitch for any given level of radiation.

TV-1A spectrometer comes complete with a leather holster, thorium calibrating source and a foam fitted attache case.





Specifications

Measurement Ranges: Four switch positions provide full scale counts per minute of 100, 1,000, 10,000 and 100,000.

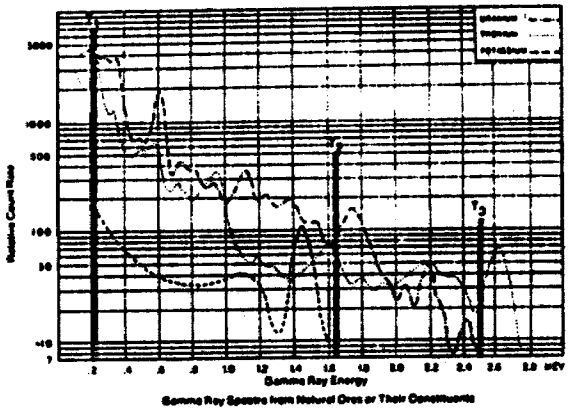
Time Constant: Threshold T_1: 1 and 10 seconds. Thresholds T_2 and T_3: 10 seconds.

Speaker: Variable pitch output governed by radiation intensity.

Temperature Range: —35 degrees to +55 degrees C.

Detector Crystal: NaI (T) 1½" x 1½" (43 cu. cm.) and matched photomultiplier hermetically sealed.

Battery Supply: Two "C" size flashlight cells located in handle. On-off control by either trigger or slide switch.



Voltage Regulation: Internally generated high and low voltages are highly regulated down to ½ initial battery voltage.

Accessories: Leather belt holster, thorium calibrating source, spare batteries, instruction manual, foam fitted attache case.

Weight: 3 pounds.

McPhar Instrument Corporation

Head Office:

55 Tempo Avenue
Willowdale, Ontario, Canada M2H 2R9
Tel: (416) 497-1700 Telex: 0623541
Cable: McPHAR TOR

Sales agents in:

Africa, Asia, Australia, Europe,
North & South America

Contact McPhar Instrument Corp. head office for the agent in your area.

Ontario Geochemical and Expenditures)

Land Admin (file L475258) Th

#272

Type of Survey(s)
Spectrometer.

Claim Ho[redacted]
James David Reed.

42A01SE0134 2.5068 OTTO 900

Survey Company
Reed Enterprise.

Survey Dates (linecutting to office): Day 07 Mo. 08 Yr. 82 — Day 08 Mo. 08 Yr. 82

Total Miles of line Cut: 14.3.

Name and Address of Author (of Geo-Technical report)
James D Reed RR2 Swastika Ont. 2.5068

Special Provisions Credits Requested

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

Man Days

Instructions		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - 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	475258	✓
	475259	✓
	475260	✓
	475261	✓
	532922	✓
	532923	✓
	532924	✓
	532925	✓
	532926	✓
	532927	✓
	532928	✓
	532929	✓
	532930	✓
	532865	✓
	532866	✓

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

LAKE ... LAKE ... WED ... 1982 ... AM 7 8 9 ... PM 12 3 4 5 6

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

For Office Use Only

Total Days Cr. Recorded: 300

Date Recorded: AUG 27 1982

Date Approved as Recorded: July 28/83

Mining Recorder

Regional/District Director

Report Completed

Date of Report: Aug 25/82

Recorded Holder or Agent (Signature): J 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
J D Reed
RR 2 Swastika

Date Certified: Aug 25/82

Certified by (Signature): J D Reed

1362 (81/2)

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.5068

Jan 11/83

Mining Lands Comments

- No qualifications
- maps not signed

☑ To: Geophysics Mr Barlow.

Comments

☑ Approved ☐ Wish to see again with corrections | Date May 11/83 | Signature

☐ To: Geology - Expenditures

Comments

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

☐ To: Geochemistry

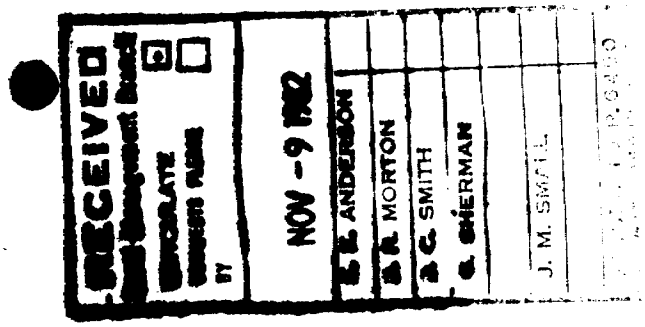
Comments

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)



Re file 2.5068.

Nov 5, 1982.

Dear sirs;

Please find inclosed the report you requested. We are sorry for the inconvenience that not including it may have caused.

Sincerely
J D Reed.

RECEIVED
NOV - 9 1982
MINING LANDS SECTION

1982 10 28 2.5068

Mr. James D. Reed
R.R.2
Swastika, Ontario

Dear Sir:

We have received a single report and maps in duplicate for a Geophysical (Radiometric) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 475258 et al in the Township of Eby.

Please forward a duplicate copy of the report at your earliest convenience.

Upon receipt of the above material a statement of assessment work credits will be issued.

Yours very truly

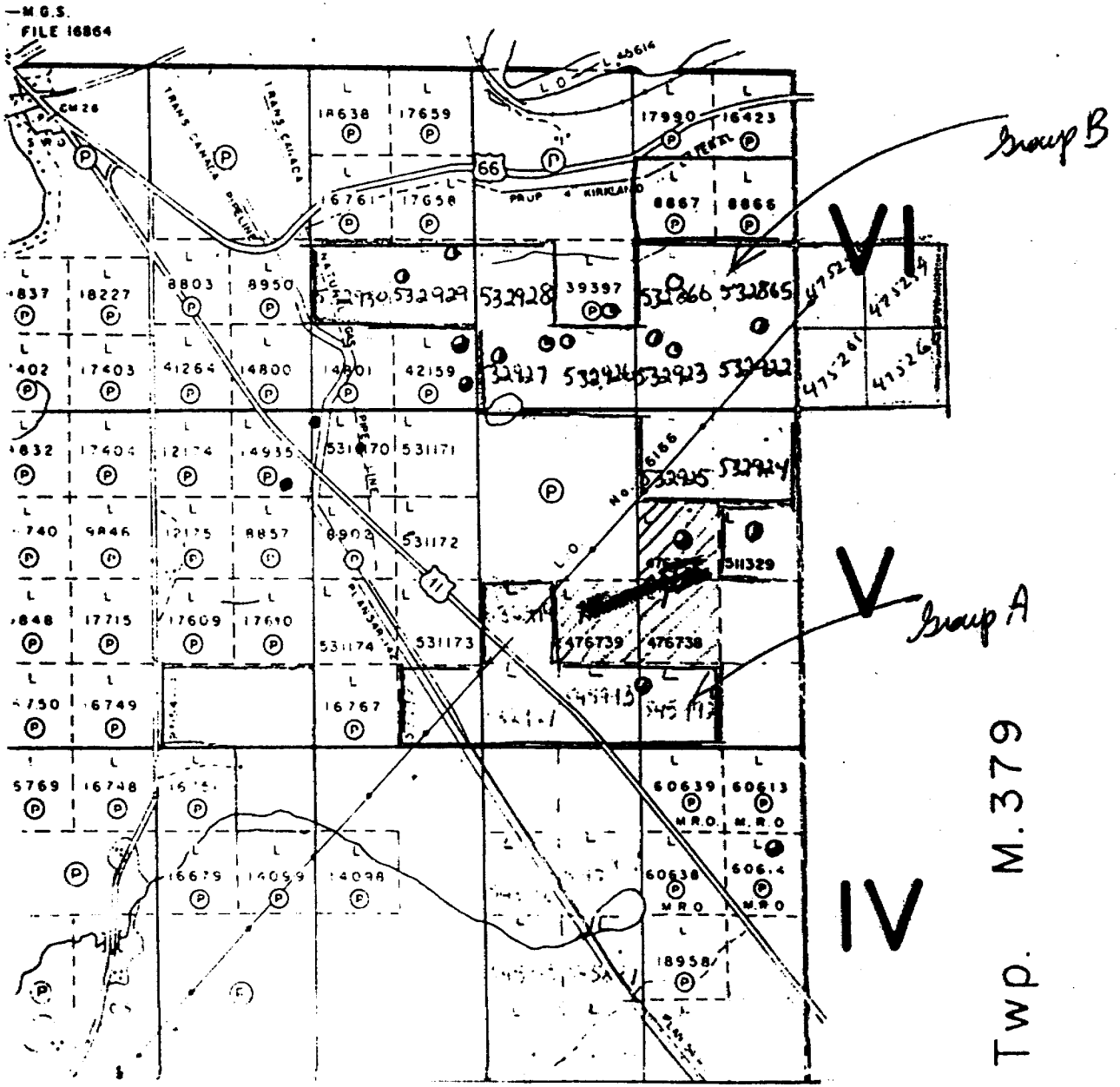
E.F. Anderson
Director
Land Management Branch

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

DW:sc

cc: Mining Recorder
Kirkland Lake, Ontario

vp. M. 351



THE TOWNSHIP OF

EBY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

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	

File no. 2.5068

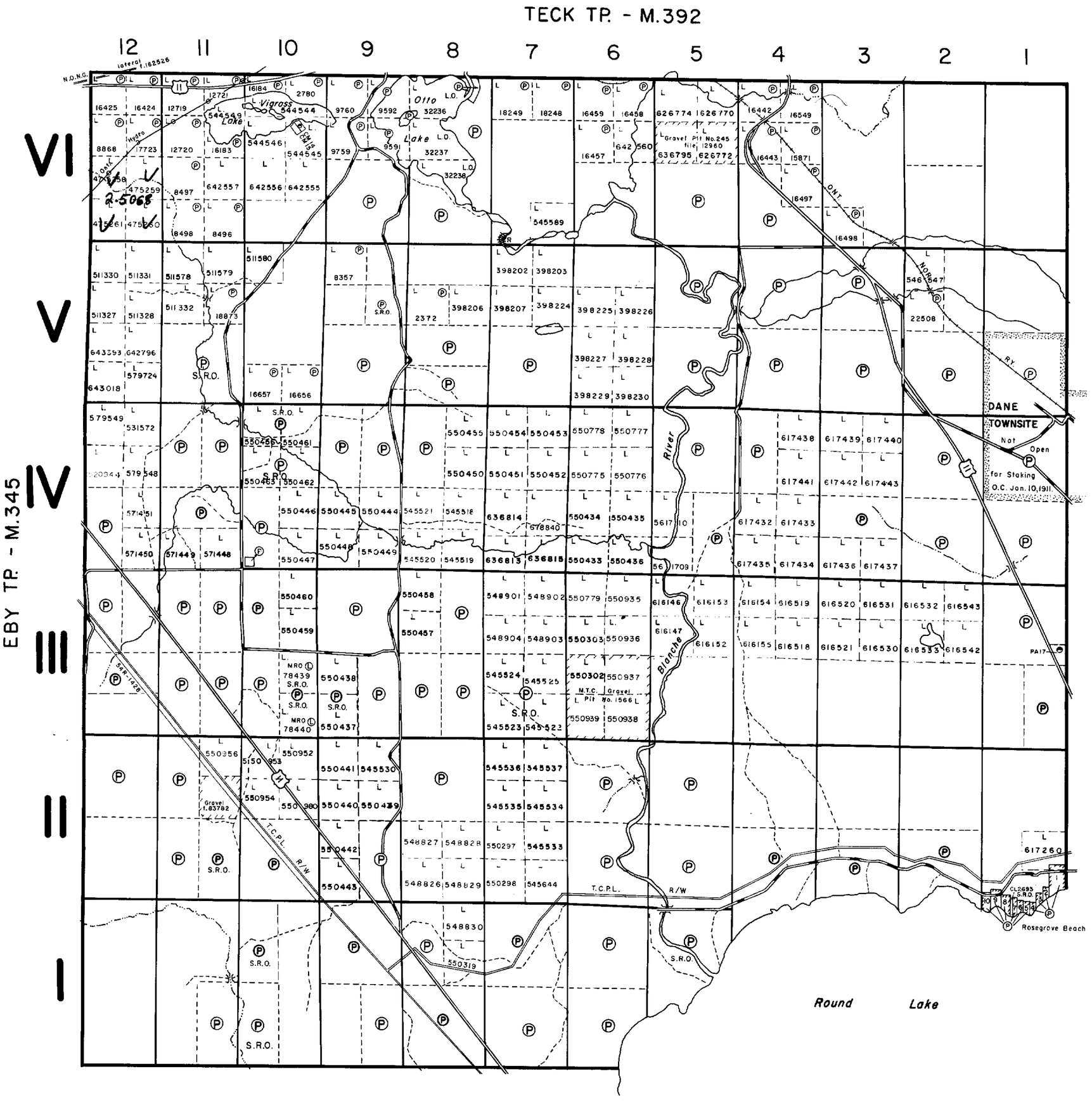
	Rd						
475258	✓			28	✓		
59	✓			29	✓		
60	✓			30	✓		
61	✓			65	✓		
532922	✓			66	✓		
23	✓						
24	✓						
25	✓						
26	✓						
27	✓						

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
JUN - 3 1983
Ministry of Natural Resources
TORONTO

PLAN NO.- M-379

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

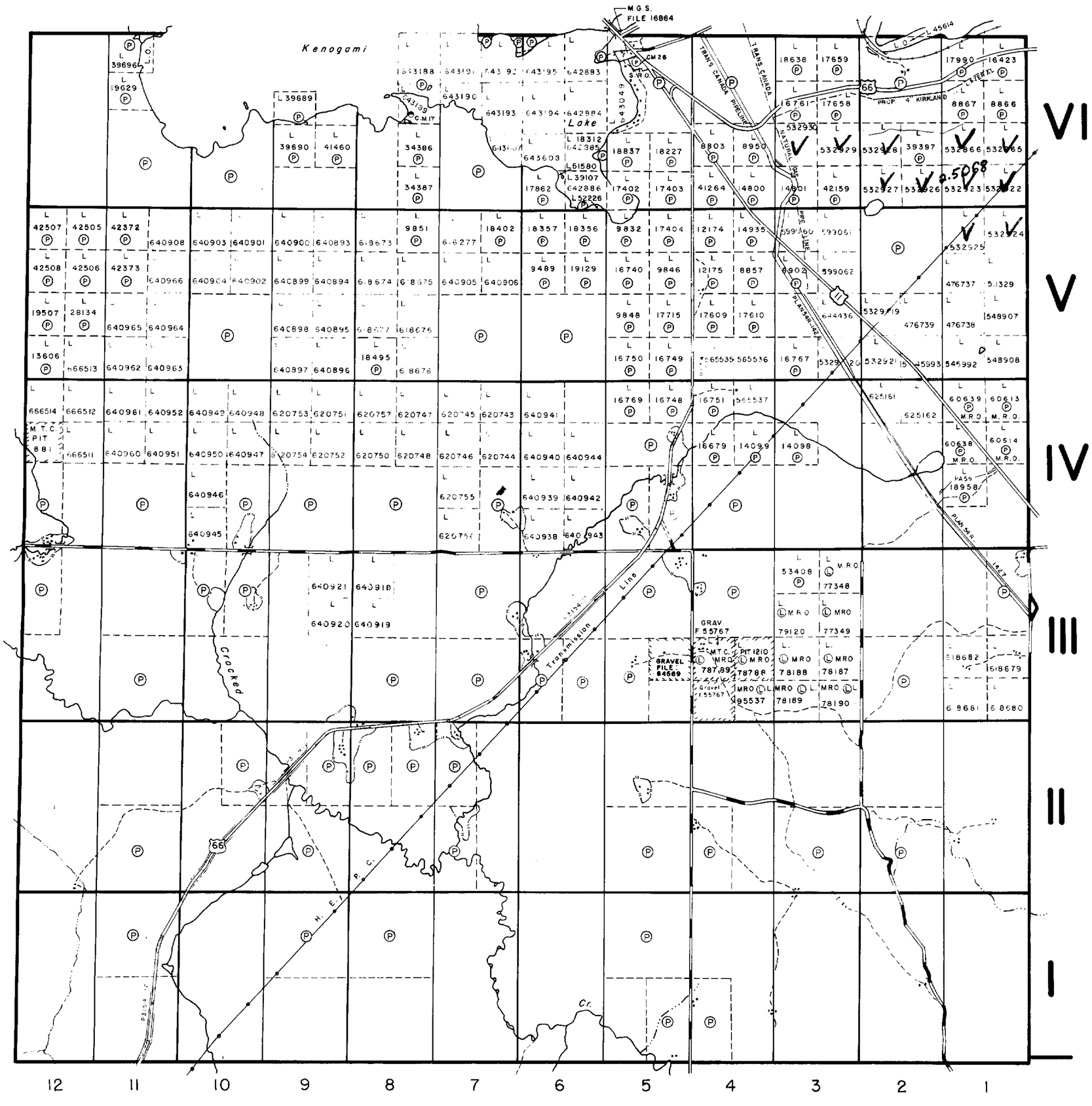
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Grenfell Twp. M.351

Burt 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

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	
CANCELLED	C.

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 14 1983
Ministry of Natural Resources
TORONTO

PLAN NO.- M-345

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A01SE0134 2.5068 OTTO



GEOLOGY
REED ENTERPRISES - GROUP "B"
OTTO - EBY TOWNSHIPS
LARDER LAKE MINING DIVISION
Aug 31, 1982
J. Reed

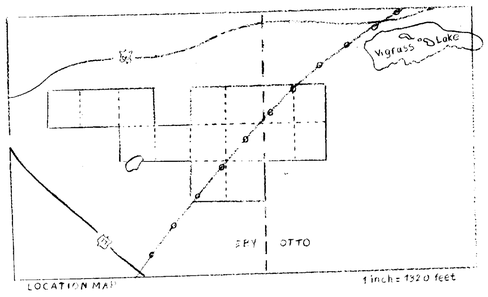
LEGEND
— — — OUTCROPS
Survey by: REED ENTERPRISES
SCALE: 1 inch = 200 ft
1 inch = 40 chs

2.5068

220

41W 38W 34W 30W 26W 22W 18W 14W 10W 6W 2W 2E 6E 10E 14E 18E 22E

532930 532929 532928 532927 532926 532925 532923 532866



RADIO METRIC
REED ENTERPRISES - GROUP "B"
OTTO - EBY TOWNSHIPS
LARDER LAKE MINING DIVISION
Aug 31, 1982
D Reed

LEGEND
Instrument McPhar TV1A
Contour Interval 5cpm ——5——
Survey by: REED ENTERPRISES
SCALE: 1 inch : 200 Ft
1 inch : 40%

2 5068

6E 10E 14E 18E 22E 26E 30E 34E 38E 42E 46E 50E 54E 58E

