



PRELIMINARY REPORT ON  
THE SOVEREIGN PROPERTY

OK 1003291 TO K 1003293

AND

2.11355

K 1007460

EAGLE LAKE AREA

2.11355

KENORA MINING DIVISION

ONTARIO

**RECEIVED**

**JUN 29 1988**

**MINING LANDS SECTION**

Prepared by:

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Box 117  
Wabigoon, Ont.

June 12, 1988

## Introduction:

The Eagle Lake Area has been the scene of mining exploration for almost a hundred years. Numerous Gold Prospects have been discovered. It has only been in the last few years that systematic exploration has been undertaken.

Presently, several Properties in the area are vigorously explored for gold.

Mr. W. Sovereign of Dryden holds four claims near the northeast corner of North Twin Island. These claims were ~~staked~~ ~~thereby~~ an old gold showing and possible extensions

This report is based on the results of field examination, review of the literature and discussions with individuals familiar with the area.

## Location, Access and Physiography:

The Sovereign Claims are located in Northwestern Ontario, 30 km west of Dryden, Ontario.

Dryden is a town on the Trans-Canada Highway mid-way between Winnipeg, Manitoba and Thunder Bay, Ontario (fig. 1). Dryden has a population of 6500 and is the commercial centre for a regional population of 35,000.

Transportation facilities include twice-daily Canadian Airlines International flights to and from Toronto and Winnipeg, daily transcontinental Via Rail service and Greyhound bus service four times daily. Major trucking firms are represented in Dryden, as is Canadian Pacific Railways, whose main line passes through Dryden.

The Property covers the northeast part of North Twin Island and adjacent waters in Eagle Lake.

It is most conveniently reached by outboard motor boat from any of the numerous tourist camps on the north shore of Eagle Lake. Boats, motors and other gear can be rented from most of the camps.

The area is rocky with sparse overburden on the higher ground. Lower ground is covered by a variable thickness of till overlain by a mantle of clay. The island is tree-covered.

## The Claims

The Property consists of four claims:

K 1003291 to -293

K 1007480

All claims are in good standing.

## Previous Work in Area

The only systematic geological mapping of the area was carried out by Moorhouse in 1938 for the Ont. Dept. Mines. The following description is based on that work, review of other data on the area and field work by the author.

Several partially documented exploration programmes and numerous undocumented ones have been conducted on and near the Properties.

The claim block is situated between several small Past-Producers and showings. The area has been actively prospected for gold since the 1890's. Two features of note are inherent in earlier work. Work was confined to a narrow strip of land adjacent to the lake and the exploration tended to concentrate only on quartz veins.

During the 1930's and 40's several individuals held the ground and carried out trenching and sampling. High grade gold values were reported.

Exploration was carried out by Steep Rock Iron Mines Ltd. during 1955. A magnetic survey and three diamond drill holes were completed to assess a magnetite occurrence running easterly from the northeast corner of North Twin Is. Results indicated only a narrow discontinuous horizon of magnetite to be present. The work was directed specifically at the iron ore potential of the magnetite and gold was not a consideration.

W. Sovereign has cleaned out some of the old trenches and stripped several areas to the south of the trenches.

## Regional Geology

The Property is located within the Wabigoon sub-Province of the Canadian Shield. All consolidated rock types are Pre-Cambrian in age. A Granitoid in the southern part of the Property has invaded the Pre-existing pile of mafic and felsic volcanics.

The general trend of the volcanics is parallel to the granitoid contact. The volcanics to the east appear to be truncated by the intrusion.

The area was subjected to tectonic movement. The result is a series of east - west to northeasterly shears and subsidiary shears. Some of the shears contain gold.

## Property Geology:

The oldest rocks exposed on the Property are a series of mafic and felsic metavolcanics. These occupy the north and east parts of the Property. They strike north northeast to east and dip vertically to steeply north. Most outcrops expose foliated to slightly schistose rocks with considerable local shearing.

The intrusive Granitoid varies in composition from a true granite to granodiorite. Only a few small felsic dykes were noted to cut the Granitoid.

The Granitoid contains numerous volcanic inclusions. Mafic inclusions are the most common, generally chlorite schist. Xenoliths of magnetite-rich chlorite rock are also present.

Felsic fragments are also present however it could not be determined if these were volcanic or a phase of the Granitoid.

## Structural Geology:

No structural data is available on the geometry of the volcanics underlying the Property. Work by the author to the northeast indicates tight isoclinal folding to be present in the volcanics.

Shearing is the most prevalent structural feature visible. Two shear directions have been identified: NNE-SSW to E-W and N-S.

## Economic Geology

Several showings occur on the Properties. They are summarized below.

### Gold - Loc. 1

- centre of K 1003291
- explosive volcanic breccia?; blocks of magnetite and mafic volcanics in a felsic tuff 150-300' inland
- to the north are intermediate/mafic tuffs
- trenched 9v to 24" exposed for length of 150', strikes 013, dip 80-85E - tension crack filling 9-4-6" shear on shore striking 077, dip -85N, contains 1/2" 9v, hosted in intermed. tuff
- felsic tuff and agglomerate also present
- two other small 9v reported to be nearby but not examined
- minor silicification in exposures

### Samples

E1	sericite schist, trace Py	trace Au
E2	xenolith, 60% mag, 2-3% Py, mafic volc.	0.005 oz/ton Au
E3	" 5% Py in mafic volc.	0.005 oz/ton Au
E4	" 1/2% Py in sheared intermed. volc.	trace Au
E5	felsic/intermed. tuff, epidote, Py, CP	0.005 oz/ton Au
E6	xenolith, mag-rich, 1/4" Py seams	0.005 oz/ton Au
E7	" 10-20% Py, sheared mafic volc.	1.120 oz/ton Au
E8	composite chip, 24" 9v, banded, no S	0.080 oz/ton Au
E9	" " 4-12" 9v (013), Py	0.200 oz/ton Au
E10	" " 1/2" 9v (077), minor Py	trace Au

### Gold - Loc. 2

- reef off N shore, N Part K 1003292
- shear zone in intermed. volc. strikes 066, dip vert
- hosts 9v 2-15" thick containing CP, tour, sericite

### Samples

E12	qtz with chlorite, tour and talc slips	0.320 oz/ton Au
E13	" " " " " "	0.025 oz/ton Au

### Gold - Loc. 3

- to west of K 1003293
- similar strike and mineralogy to Loc. 2

Magnetite - Loc. 1

- shoreline, east Part K 1003292
- 20' width of 30-80% magnetite, est. strike 075, dip vert, contains talc and carbonate on shears
- felsic volcanics on S, mafic volcanics on N
- mafic volcanics contain dissem. mag. xls near mag zone

Sample

El1 magnetite, Pyrite trace Au

SteeP Rock Iron Mines Ltd. Drilling

Hole 1

- drilled at -45 degrees ( -34 degrees at 500')
- intersected
  - 6" quartz vein
  - 5.5' chert with Pyrite
  - 25' siliceous greenstone

Hole 2

- drilled at -45 degrees ( -29 degrees at 50')
- intersected
  - 173' greenstone locally altered and silicified
  - 36' altered and silicified greenstone

Hole 3

- drilled at -43 degrees ( -32 degrees at 500')
- intersected
  - 9' highly silicified with minor chert
  - 17.5' silicified tuff with minor chert
  - 20' silicified greenstone
  - 60' Porphyry with disseminated sulphides
  - 1' of 20% Pyrite

The drilling was aimed specifically at evaluating the magnetite. The drill logs do not indicate that samples were taken.

### Conclusions

1. Gold is Present in N-S quartz veins occupying tension cracks.
2. Gold is Present in quartz veins in ENE-WSW shear zones.
3. Drilling by Steep Rock Iron Mines Ltd. indicates silicification and Pyritization in the volcanics and Porphyry near the north shore of the island. The silicification is widespread and would appear to be Parallel to the regional foliation. Substantial strike lengths are therefore likely.
4. The Presence of Gold values and the favourable Geology Justify further exploration on the claims.

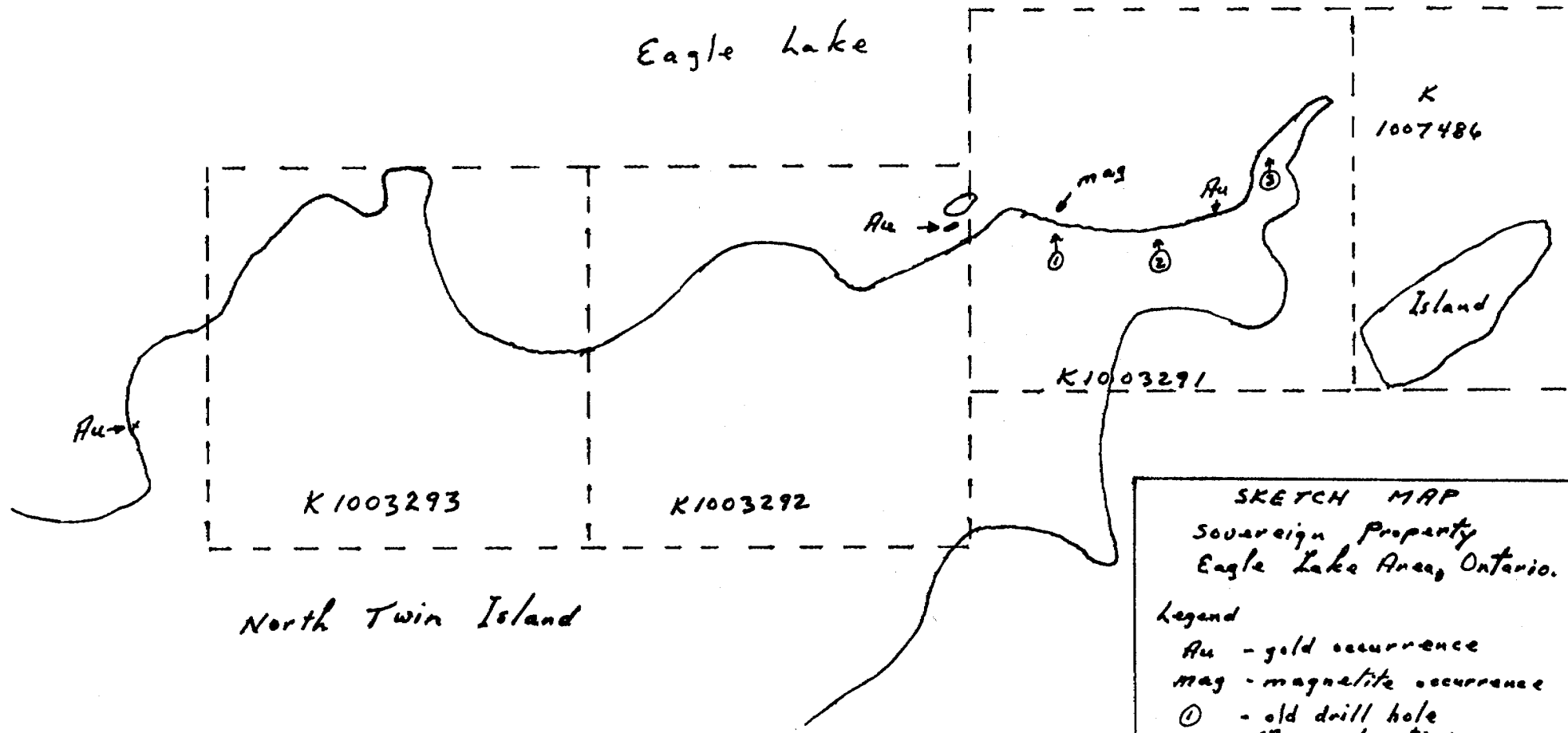
### Recommendations

1. Cut Grid, Geophysics (Grid 50m X 10m)	7000
2. Geological mapping	2500
3. strip, trench, sample, assay	5000
4. diamond drill (2000')	70000
	contingency 11500
	Total \$95000



Eagle Lake

K  
1007486



K1003293

K1003292

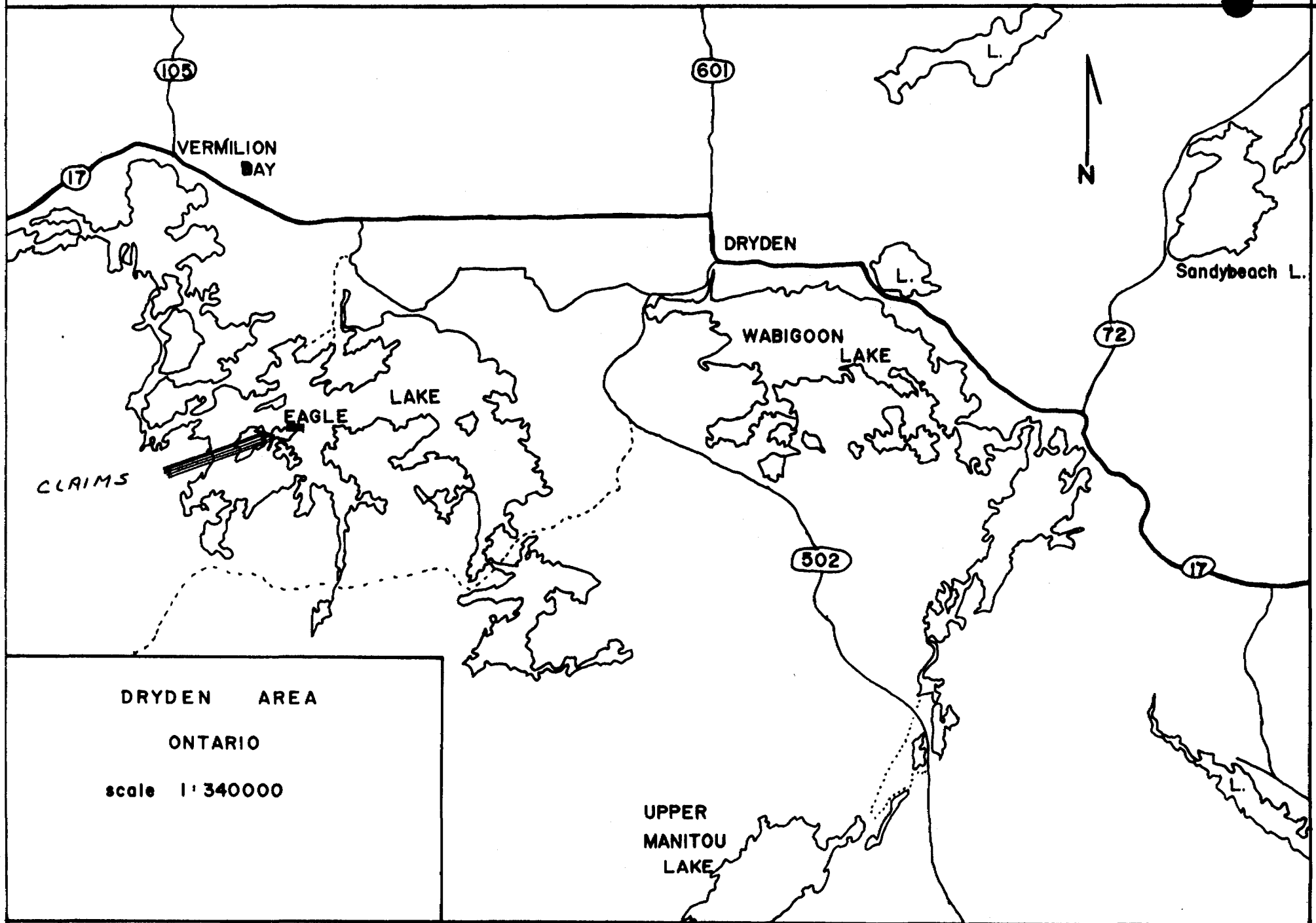
K1003291

SKETCH MAP  
Sovereign Property  
Eagle Lake Area, Ontario.

- Legend
- Au - gold occurrence
  - mag - magnetite occurrence
  - ① - old drill hole (Approx. location)

gwc





DRYDEN AREA

ONTARIO

scale 1:340000

UPPER  
MANITOU  
LAKE

Quint



Type of Survey(s) **EXPENDITURE** Township or Area **GARNET BAY / BUCHAN BAY**  
 Claim Holder(s) **W. SOVEREIGN 2.11355** M-1729 G-2573  
 Address **103 WABIGOON DR. DRYDEN, ONT. P8N 1W4** H 9911  
 Survey Company **J.W. Redden** Date of Survey (from & to) **10 10 87 25 02 88** Total Miles of line Cut **—**  
 Name and Address of Author (of Geo-Technical report) **J.W. REDDEN, Box 117, Wabigoon, Ont. P0V2W0**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
<b>RECEIVED MAY 16 1988 MINING LANDS SECTION</b>	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K	1003291	20			
	1003292	20			
	1003293	20			

MINING GEOLOGICAL SURVEY  
ASSESSMENT FILES  
OFFICE  
AUG 09 1988  
RECEIVED  
MINING DIV.  
MAY 12 1988  
AM 8:05 PM  
7 8 9 10 11 12 1 2 3 4 5 6

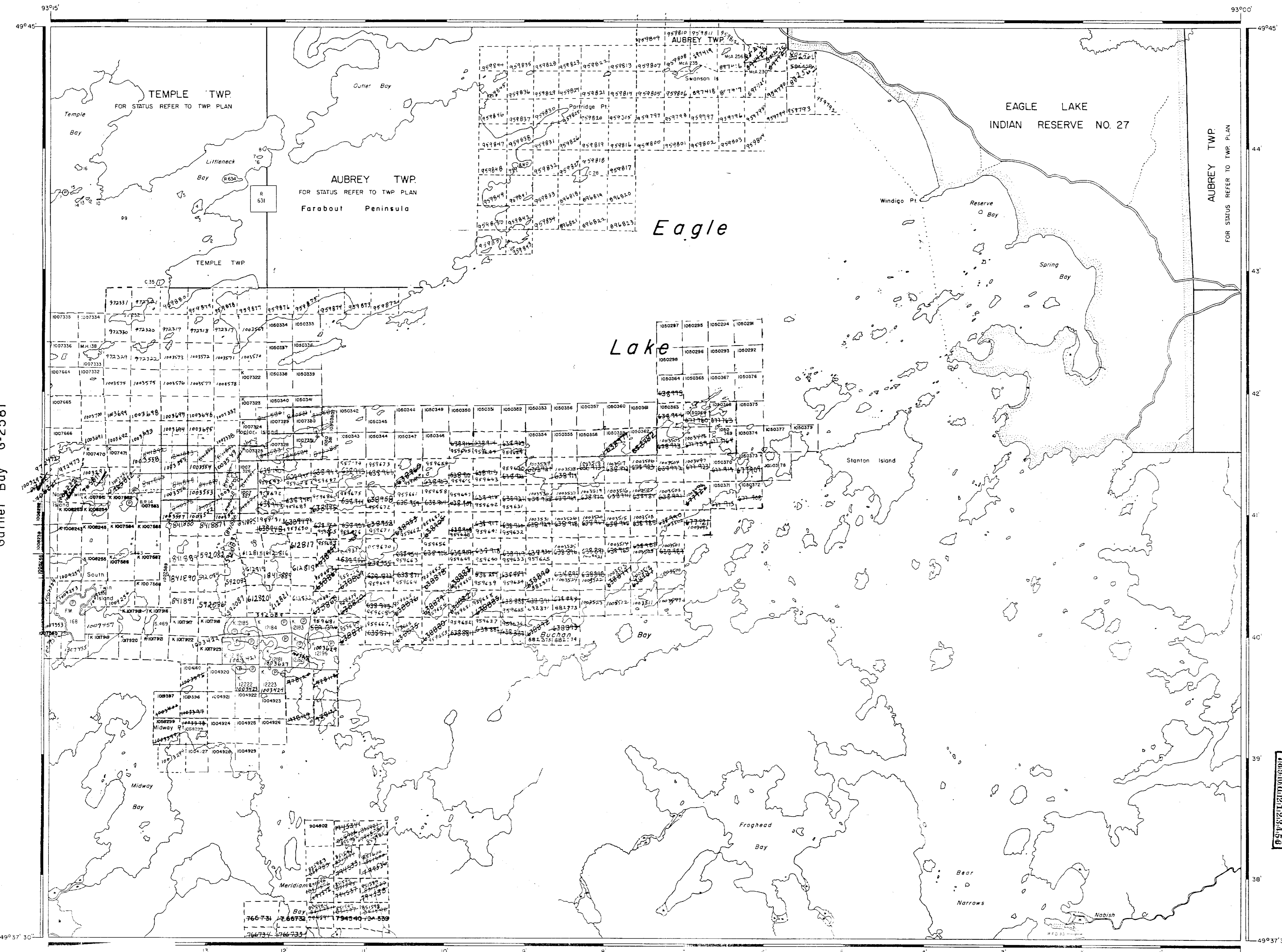
Expenditures (excludes power stripping)  
 Type of Work Performed **preliminary evaluation**  
 Performed on Claim(s) **all**  
 Calculation of Expenditure Days Credits  
 Total Expenditures **\$ 900** + **15** = **60** Total Days Credits  
 Instructions  
 Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

**1003291** Total number of mining claims covered by this report of work. **3**

Date **MAY 11/88** Recorded Holder or Agent (Signature) *[Signature]*

For Office Use Only  
 Total Days Cr. Recorded **60** Date Recorded **May 12/88** Mining Recorder *[Signature]*  
 Date Approved as Recorded **20 July 88** Branch Director *[Signature]*

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.W. REDDEN**  
**Box 117, Wabigoon, Ont. P0V2W0** Date Certified **MAY 11/88** Certified by (Signature) *[Signature]*



**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 Ⓜ
- CANCELLED C.

**REFERENCES**

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY  
 S.R.O. - SURFACE RIGHTS ONLY  
 M.-S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

SCALE: 1 INCH = 40 CHAINS

FEET: 0 1000 2000 4000 6000 8000

METRES: 0 200 1000 2000 (2 KM)

AREA  
**BUCHANAN BAY**  
 EAGLE LAKE  
 M.N.R. ADMINISTRATIVE DISTRICT  
**DRYDEN**  
 MINING DIVISION  
**KENORA**  
 LAND TITLES / REGISTRY DIVISION  
**KENORA**

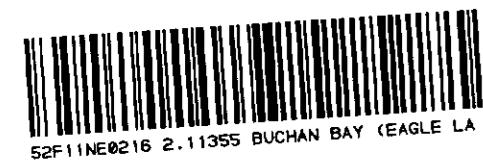
Ministry of Land Management  
 Natural Resources Branch  
 Ontario

FEBRUARY, 1984.  
**G-2573**

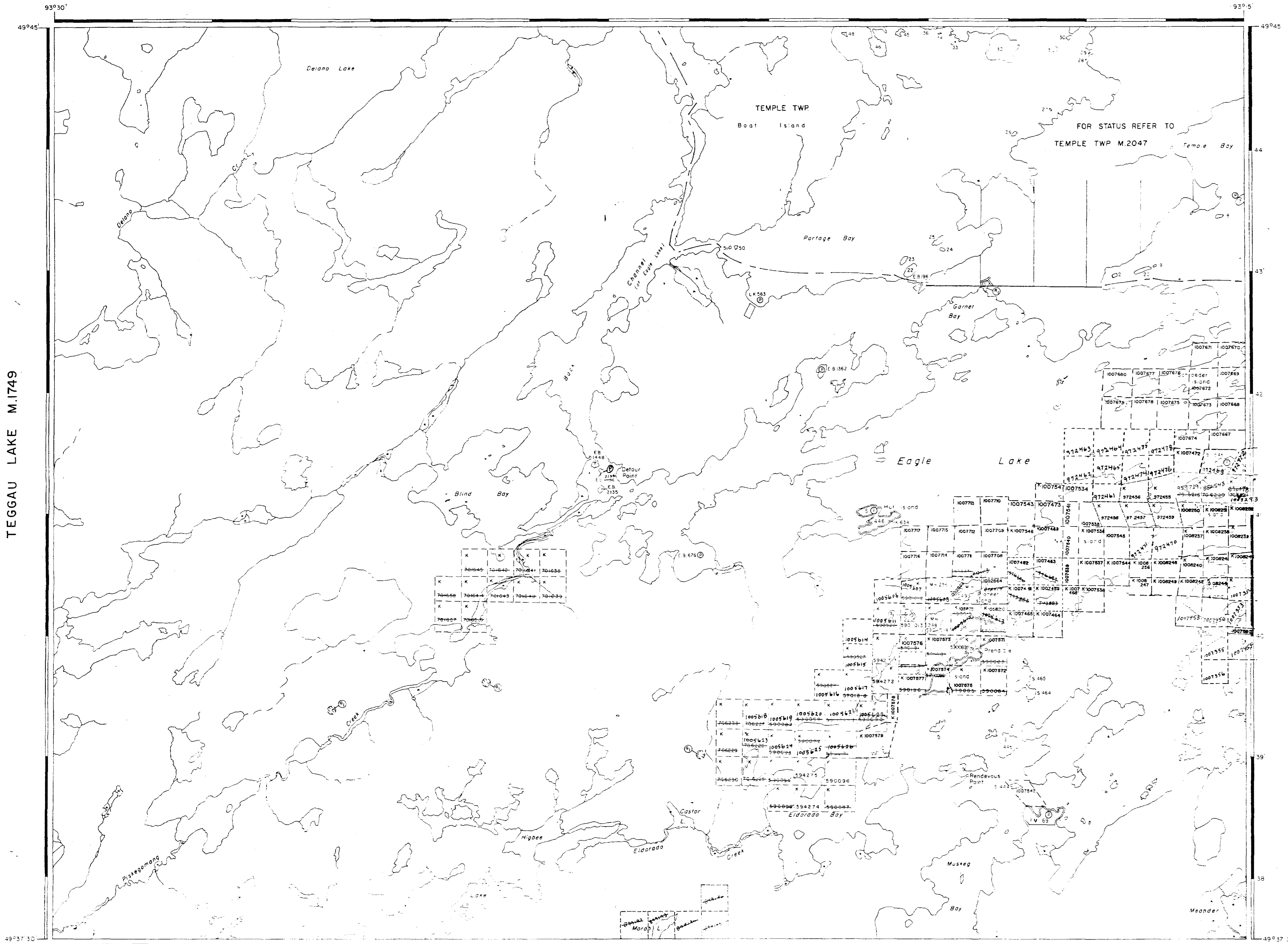
Garnet Bay G-2581

Contact Bay G-2579

Osbourne Bay G-2588



200



TEGGAU LAKE M.1749

BUCHAN BAY M.1288

AREA OF

# GARNET BAY

EAGLE LAKE

DISTRICT OF  
KENORA

KENORA  
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

### LEGEND

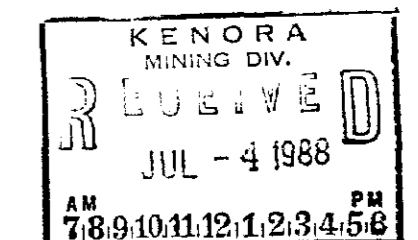
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- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- MINES Ⓜ
- CANCELLED C.

### NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

### AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
RESERVE				163473



### SAND & GRAVEL

GRAVEL FILE 35539

NATIONAL TOPOGRAPHIC SERIES 52F.11

PLAN NO. **M.1729**

ONTARIO  
MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH

LINE LAKE M.2693

