



PROVINCE OF ONTARIO  
DEPARTMENT OF MINES

Hon. Charles McGree, Minister of Mines.

Thos. W. Gibson, Deputy Minister.

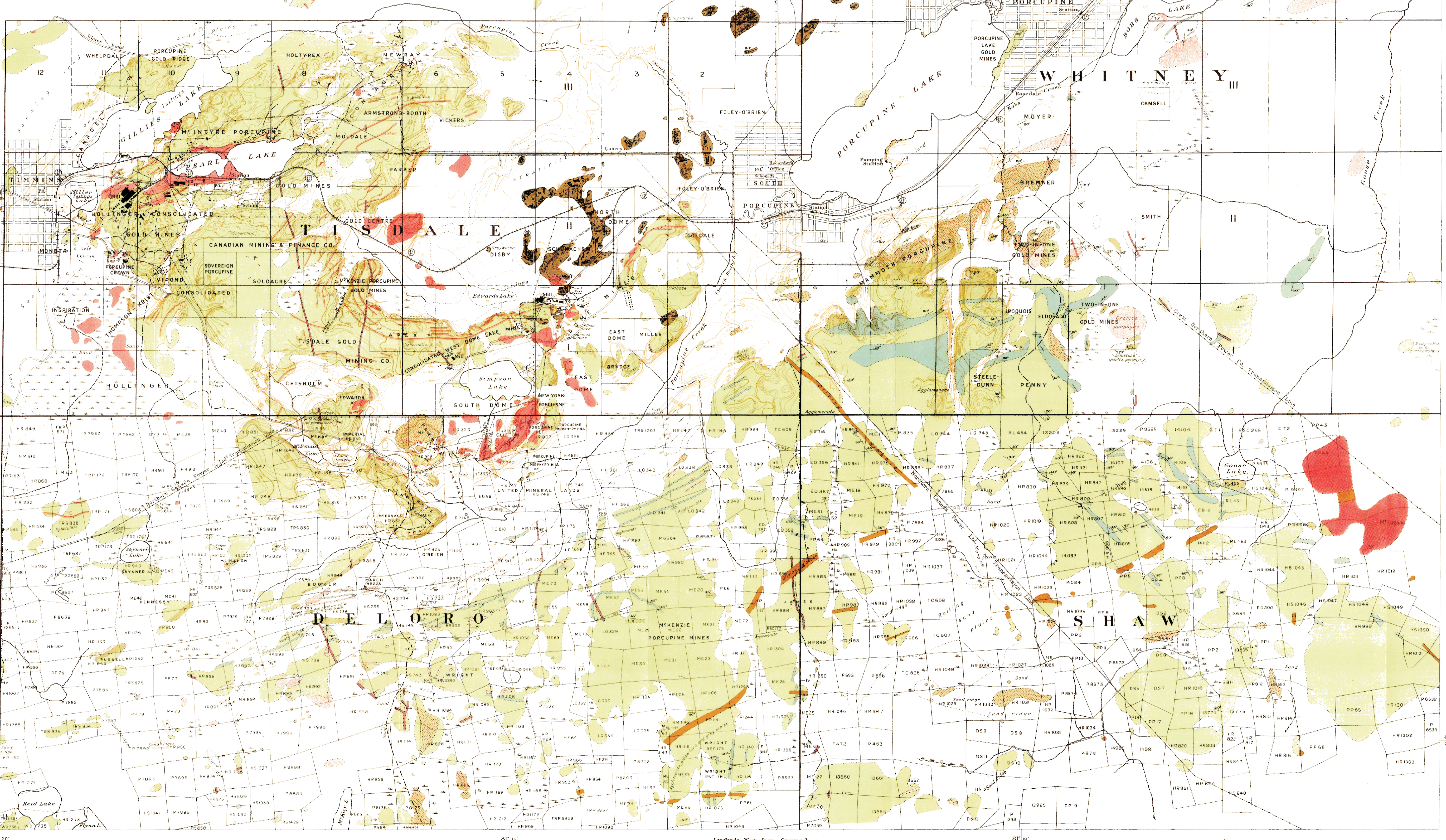
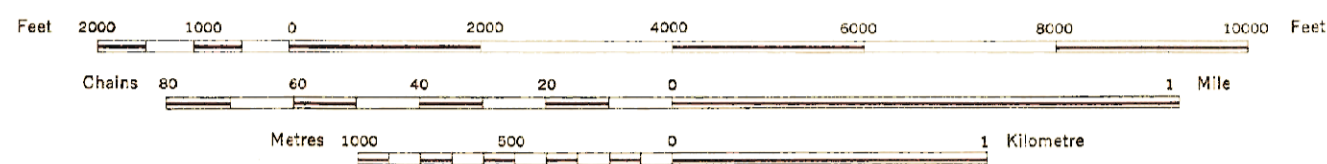
Willet G. Miller, Provincial Geologist.

Map No. 33 a

PART OF THE  
**PORCUPINE GOLD AREA**  
DISTRICT OF COCHRANE, ONTARIO.

To accompany report by A. G. Burrows in Ontario Department of Mines Report, Vol. XXIII, Part 2, 1924.

Scale, 1/24,000 or 2000 Feet = 1 Inch

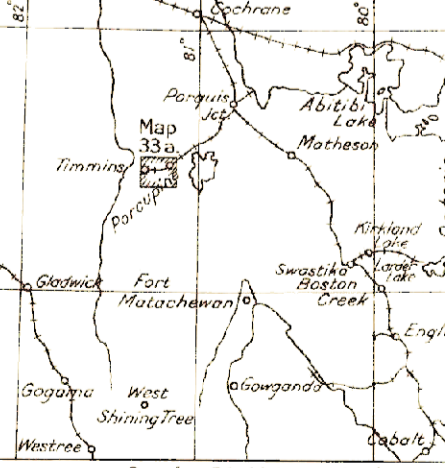


- LEGEND**
- PLEISTOCENE**
    - Glacial and Recent: Sand, gravel, stratified clay, sand and gravel.
  - PRE-CAMBRIAN**
    - Keweenaw: Clinite diabase.
    - Matichewan: Quartz diorite.
    - INTRUSIVE CONTACT: Quartz-sulphure.
    - Algonian\*: Granite, granite-schist, talc-schist, quartz-schist, quartz-porphyre.
    - INTRUSIVE CONTACT: Quartz-sulphure.
    - Haleyburan?: Serpentine.
    - INTRUSIVE CONTACT: Conglomerate, gneiss, mica, quartzite, altered to schists.
    - Timiskaming\*: Conglomerate, gneiss, mica, quartzite, altered to schists.
    - UNCONFORMITY: Unconformity.
    - Kewatin\*: Complex of basic to acid volcanics including basalts, andesites, dacites, rhyolites, tuffs, agglomerates, and tuffs, and some granitic intrusions. The rocks are quartzite to schist.
    - Phyllite and schist-schist with subordinate basic rocks, altered to schists.
    - Less formation consisting of banded iron ore and schist, together with obscure rhyolite schists.
    - Highly weathering carbonate derived from Kewatin rocks.

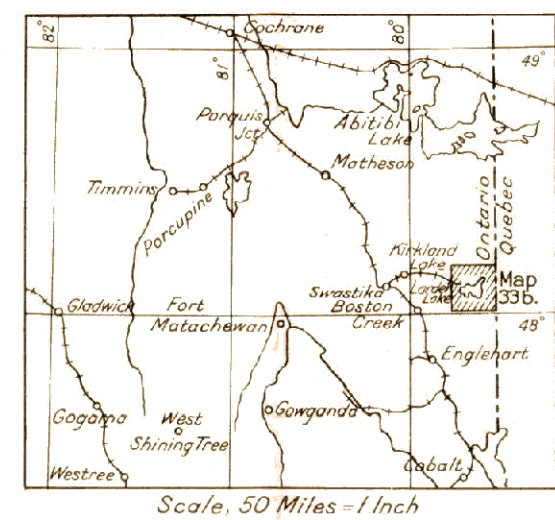
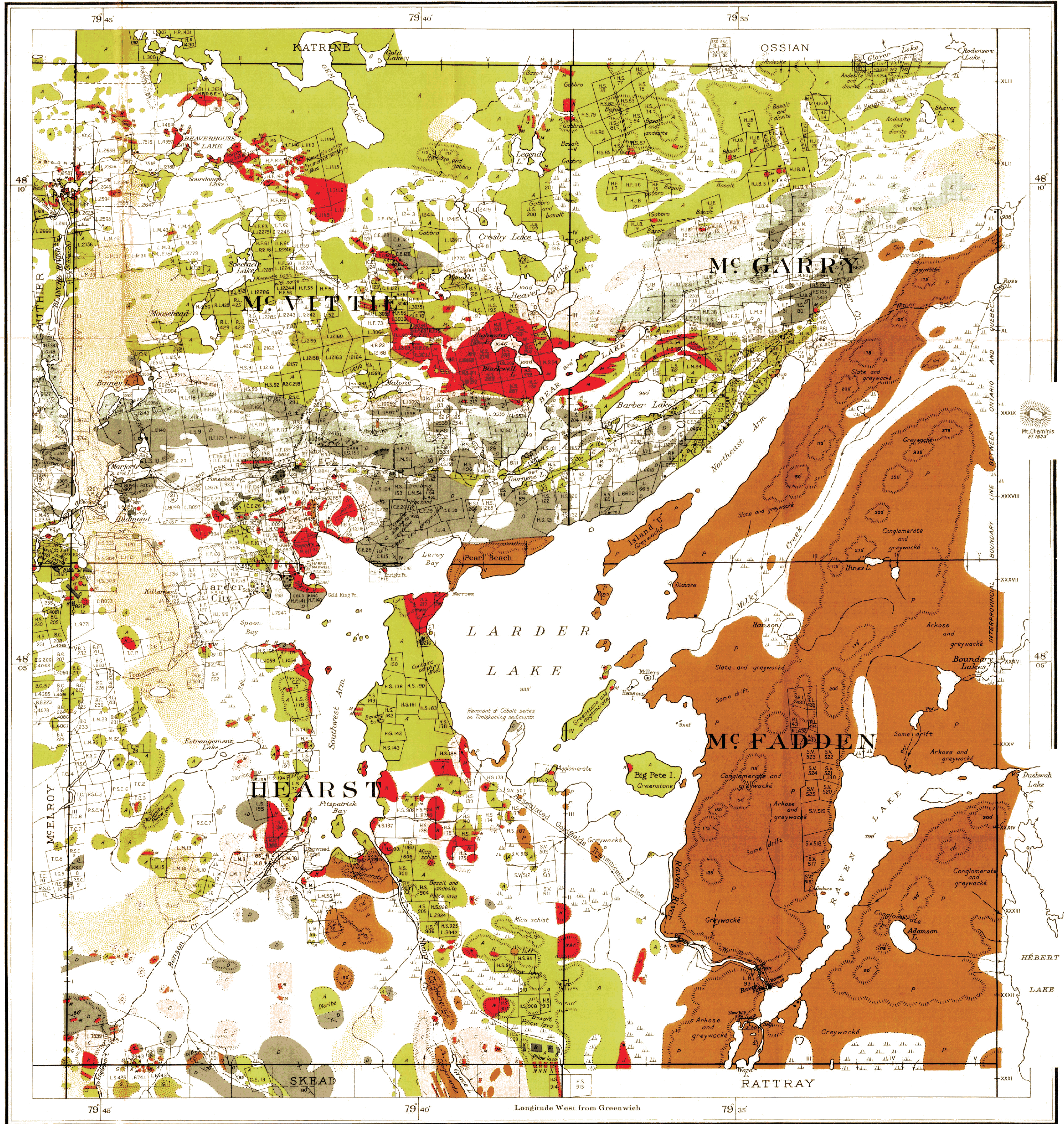
- Symbols**
- Elevation in feet above sea level.
  - Contours, showing level of 100 feet and 500 feet above sea level (interval 10 feet).
  - Depression contours.
  - Dam.
  - Main road.
  - Minor road.
  - Building.
  - Shalt.
  - Electric power transmission line.
  - Unsurveyed boundary, defined.
  - Geological boundary, assumed.
  - Glacial zones.
  - Strike and dip of alluvium.
  - Strike and vertical dip of schistosity.
  - Strike and dip of strata.
  - Felt.
  - Space between heavy and light lines indicates fragments of lava flows, these lines indicate contact of lava flows.

**SOURCES OF INFORMATION**

Township and mining location plans from Survey Branch, Department of Lands and Forests, Ontario. Mine plans furnished by Mining Companies. Outcrops of mining areas by Hollinger, McIntyre, Dome and Davidson mines. Geology from maps 266 and 266a, Department of Mines, Ontario, revision by A. G. Burrows. Drawn for photo-lithography by A. Brant.

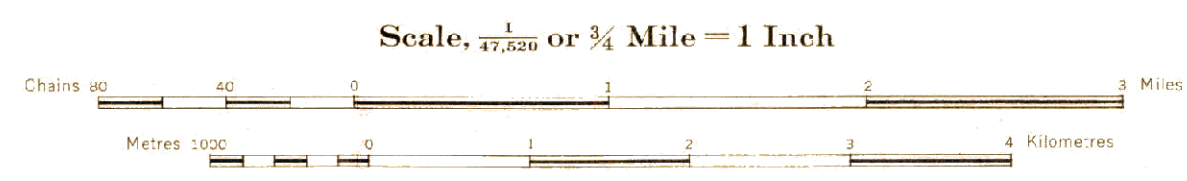


First edition, 1915.  
Second edition, 1924.



Map No. 33 b  
**LARDER LAKE AREA**  
DISTRICT OF TIMISKAMING, ONTARIO

To accompany report by P. E. Hopkins in Ontario Department of Mines Report, Vol. XXXIII, Part 3, 1924.



**SOURCES OF INFORMATION**  
Township and mining claim plans from Survey Branch, Department of Lands and Forests, Ontario.  
Geology by P. E. Hopkins, assisted by O. F. Cocksbutt and J. C. Adamson.  
Drawn for photo-lithography by J. Ledingham.



PROVINCE OF ONTARIO  
DEPARTMENT OF MINES

# Map No. 33 c

## LEGEND

### PLEISTOCENE

Glacial and Recent



Drift-covered areas.

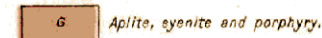
### PRE-CAMBRIAN

Keweenaw (?) or Matachewan (?)



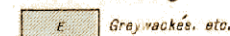
Diabase.

Algonian



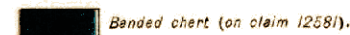
Aplite, eyenite and porphyry.

Timiskaming

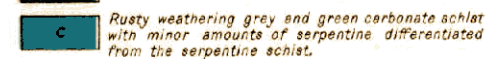


Graywackes, etc.

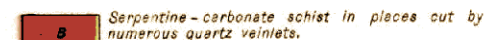
Keewatin



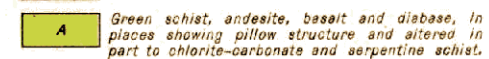
Banded chert (on claim 12581).



Rusty weathering grey and green carbonate schist with minor amounts of serpentine differentiated from the serpentine schist.

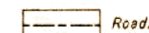


Serpentine-carbonate schist in places cut by numerous quartz veinlets.



Green schist, andesite, basalt and diabase, in places showing pillow structure and altered in part to chlorite-carbonate and serpentine schist.

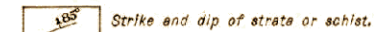
## Symbols



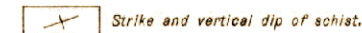
Road.



Building.



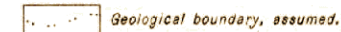
Strike and dip of strata or schist.



Strike and vertical dip of schist.



Geological boundary, defined.



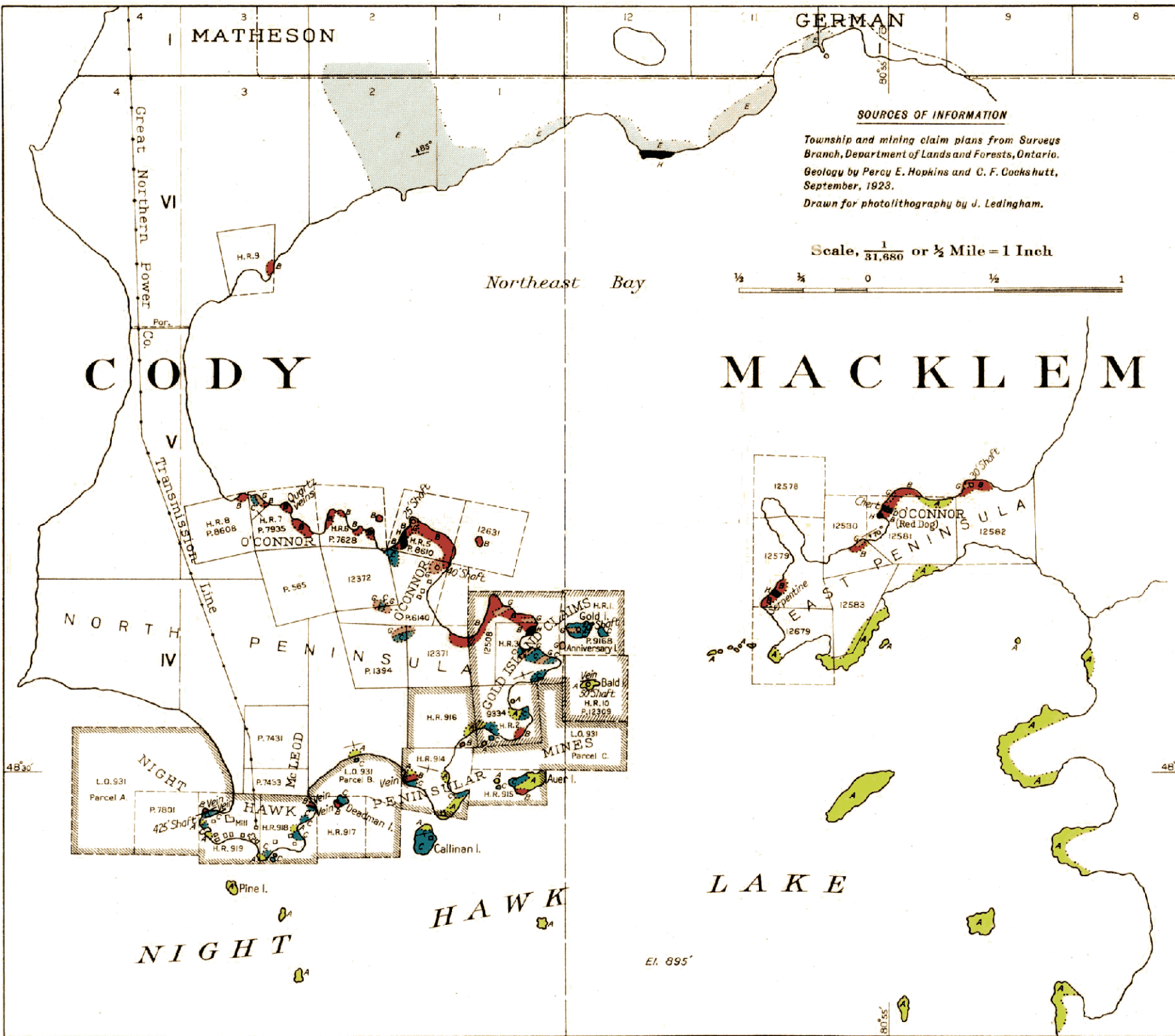
Geological boundary, assumed.



Shaft or prospect pit.



Vein.



### SOURCES OF INFORMATION

Township and mining claim plans from Surveys Branch, Department of Lands and Forests, Ontario.  
Geology by Percy E. Hopkins and C. F. Cookshutt, September, 1923.  
Drawn for photolithography by J. Ledingham.

Scale,  $\frac{1}{31,680}$  or  $\frac{1}{2}$  Mile = 1 Inch



## NIGHT HAWK PENINSULAR AREA

To accompany report by P. E. Hopkins in Ontario Department of Mines Report, Vol. XXXIII, Part 3, 1924.



LEGEND

PLEISTOCENE

Glacial and Recent

Boulder clay, stratified clay, sand, gravel and peat.

PRE-CAMBRIAN

Keweenawan(?)

Diabase.

Timiskaming

Greywacke and slate.

Keewatin

Lava flows, agglomerates, tuffs and quartzites.

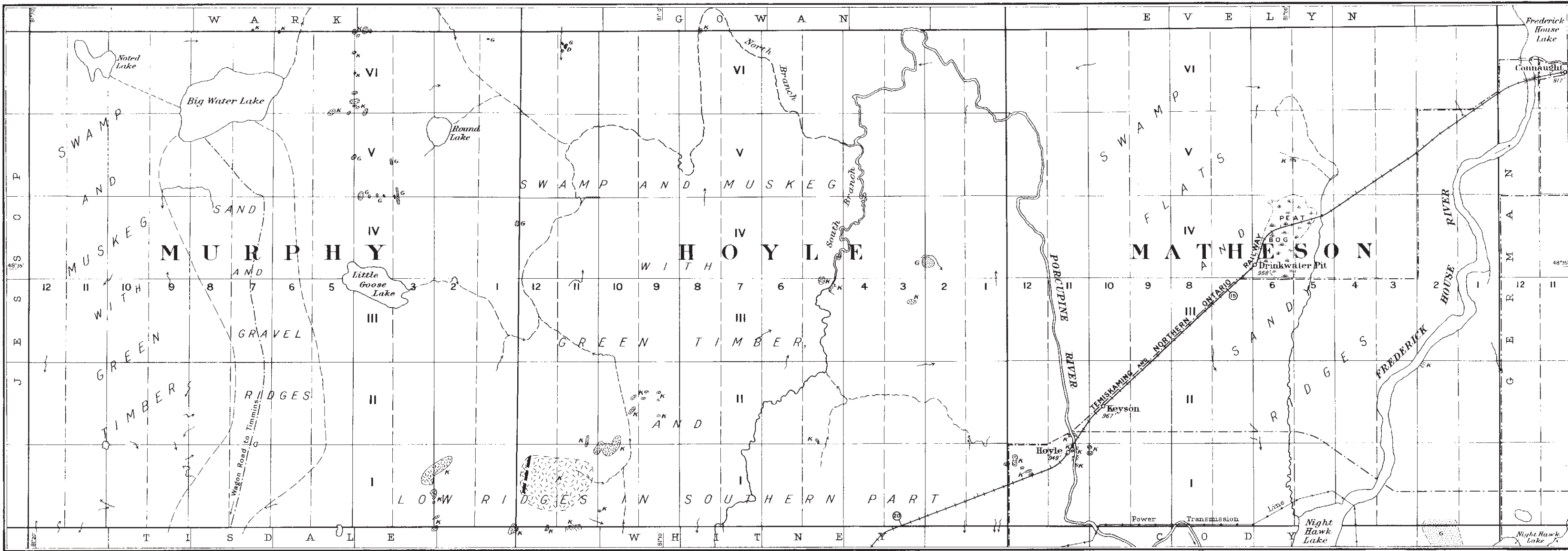
Symbols

Road.

Geological boundary, defined.

Geological boundary, assumed.

Railway with mileage from Porquis Junction.

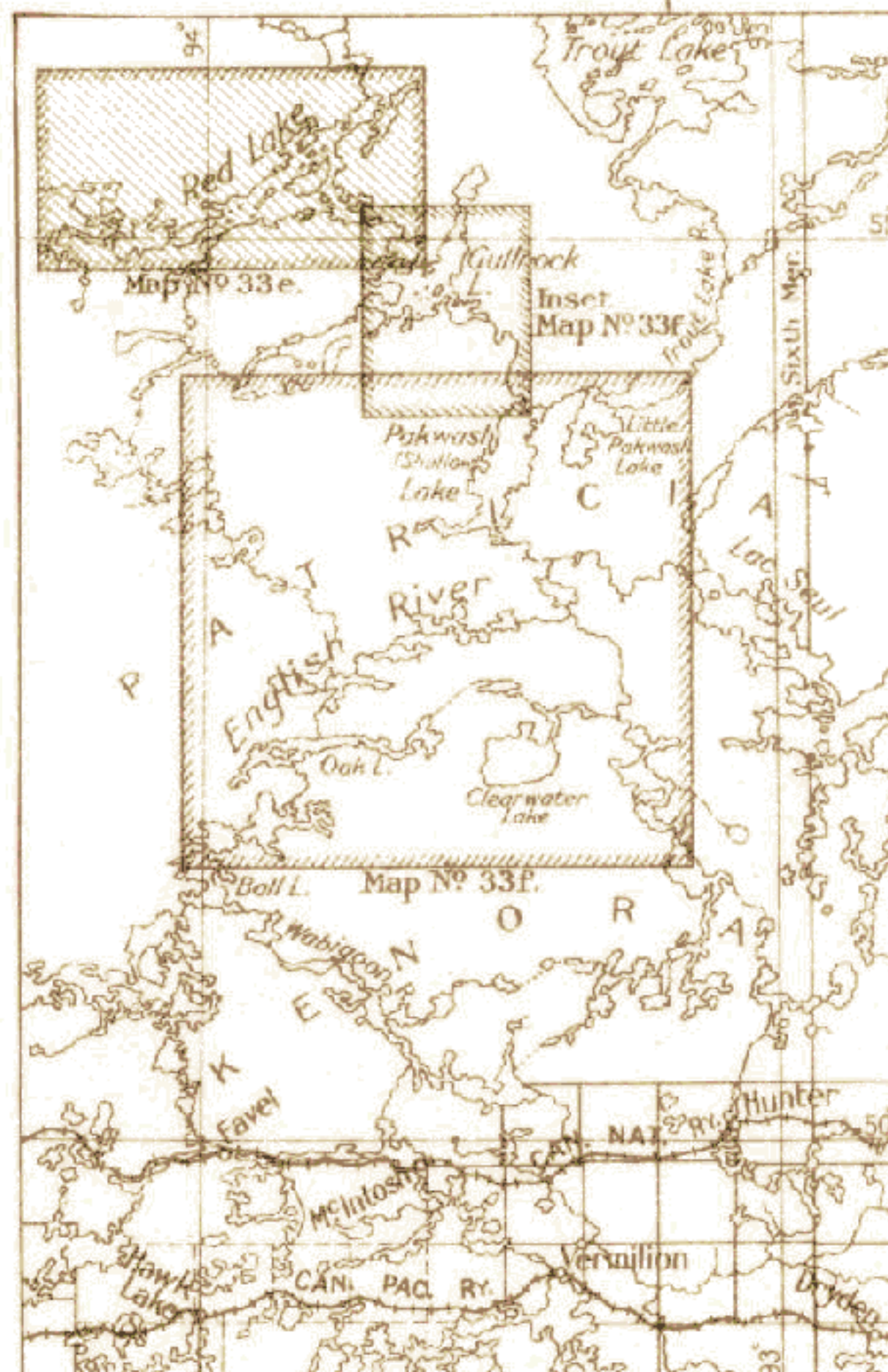


### TOWNSHIPS OF MURPHY, HOYLE AND MATHESON

To accompany report by B. ROSE in Ontario Department of Mines Report, Vol. XXXIII, Part 3, 1924.

Scale,  $\frac{1}{63,360}$  or 1 Mile = 1 Inch.





PROVINCE OF ONTARIO  
DEPARTMENT OF MINES

HON. CHARLES McCREA, Minister of Mines.

Thos. W. Gibson, Deputy Minister. Willett G. Miller, Provincial Geologist.

Map No. 33 e  
**RED LAKE AREA**

DISTRICT OF PATRICIA, ONTARIO.

To accompany report by E. L. BRUCE  
in Ontario Department of Mines Report, Vol. XXXIII, Part 4, 1924.

Scale,  $\frac{1}{95,040}$  or  $1\frac{1}{2}$  Miles=1 Inch

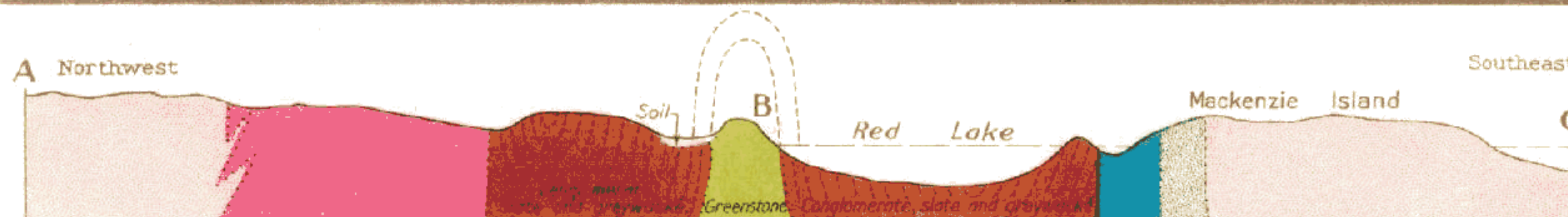


**LEGEND**

- Soil covered.
- Granite.
- Hybrid granite.
- INTRUSIVE CONTACT**
- Quartz-porphry.
- Granite-porphry.
- INTRUSIVE CONTACT**
- Timiskamian (?)
- Greywacké, quartzite, etc.
- UNCONFORMITY**
- Keewatin
- Greenstone, serpentine, carbonate rocks, etc.
- Iron formation.

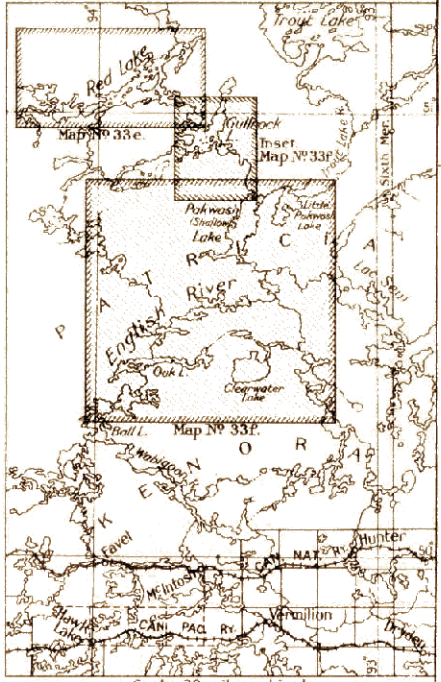
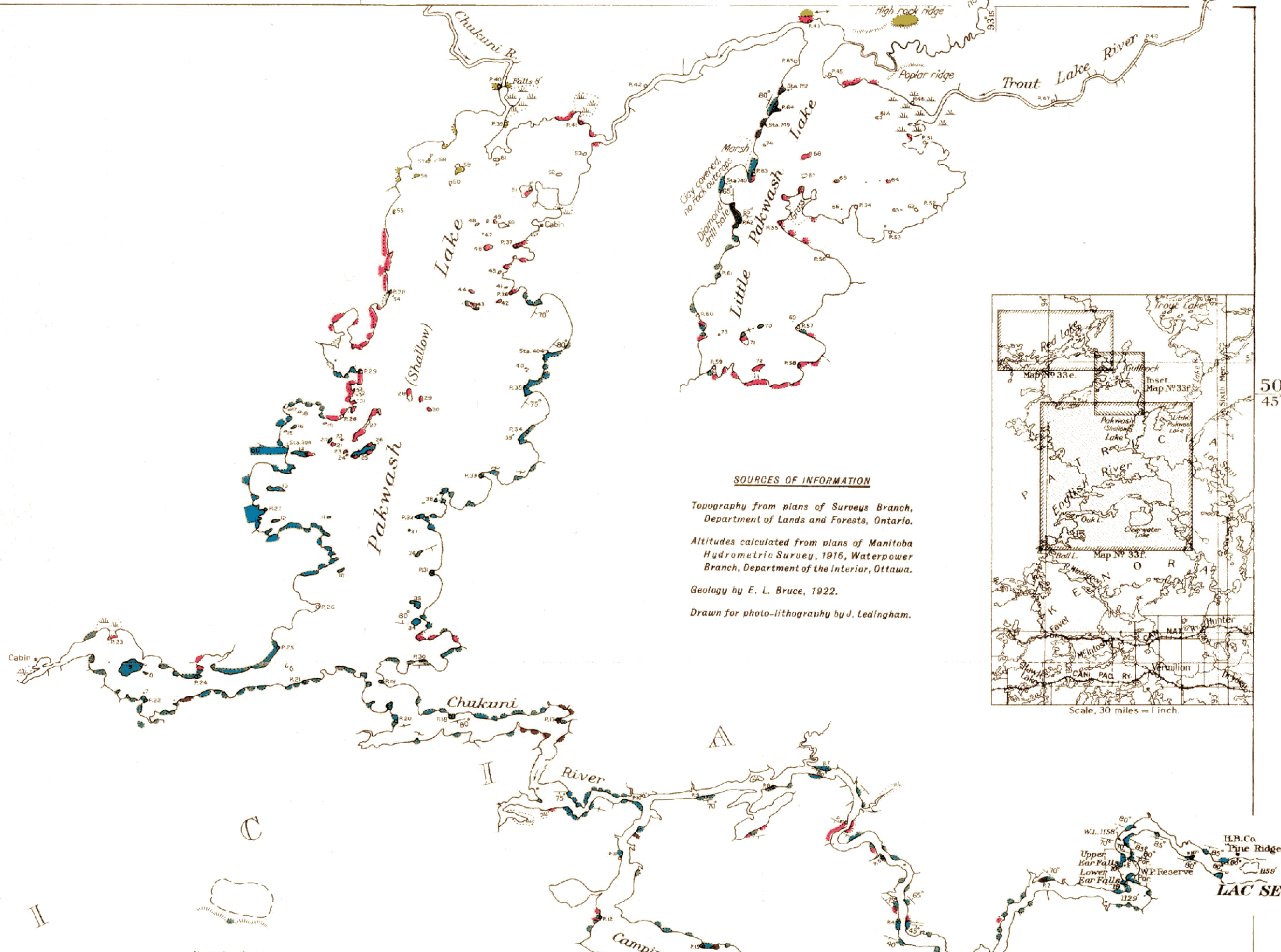
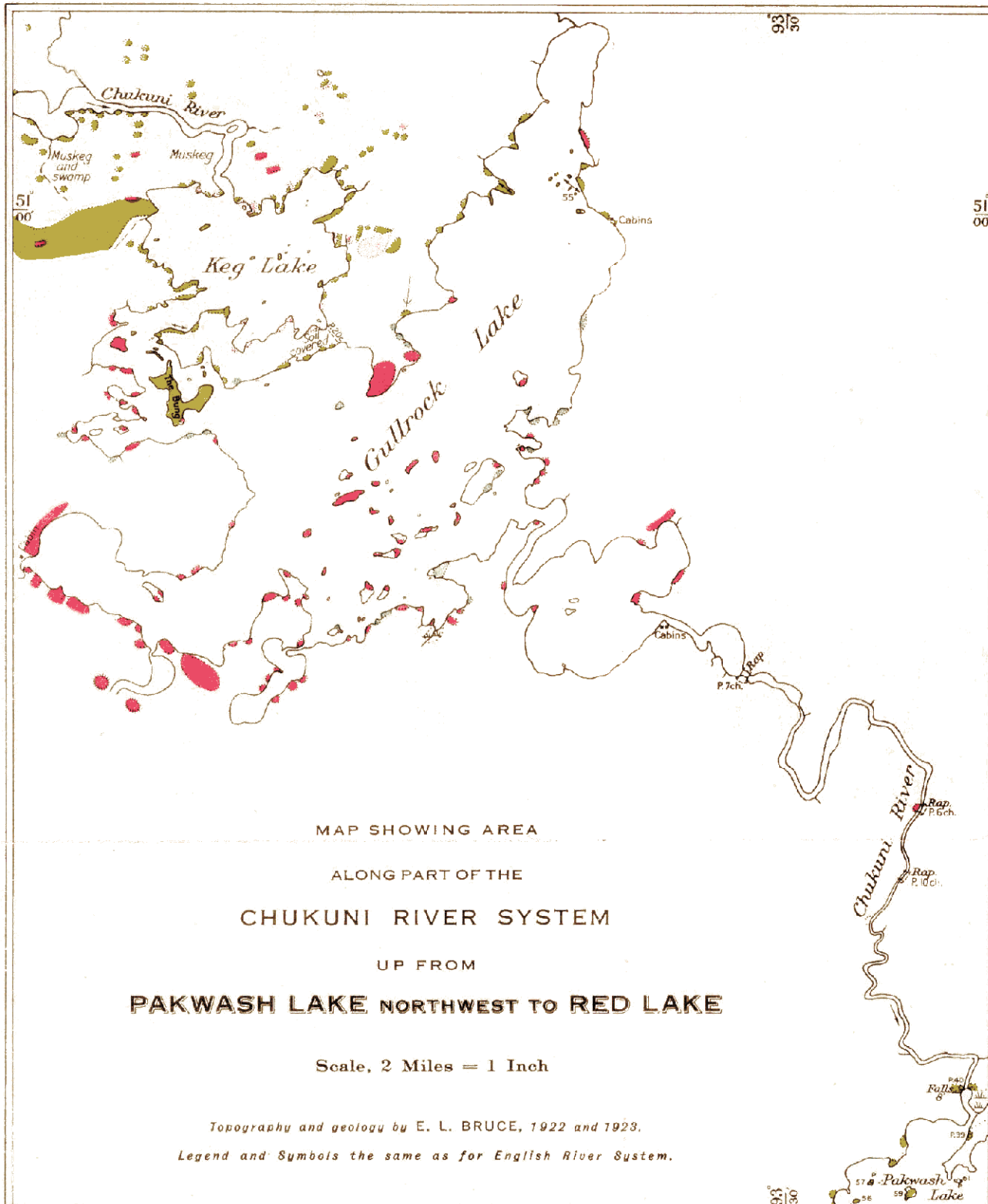
**Symbols**

- Hill
- Swamp.
- Depth of water in feet.
- 70° Strike and dip of bedding.
- Strike and vertical dip of bedding.
- Strike and vertical dip of schistosity.
- Geological boundary, approximate.
- Geological boundary, assumed.
- Glacial striae.



VERTICAL SECTION ALONG LINE A-B-C, SHOWING STRUCTURAL RELATIONS.  
Horizontal Scale,  $\frac{1}{4}$  Mile=1 Inch. Vertical dimensions not to scale.

**SOURCES OF INFORMATION**  
Topography and geology by E. L. Bruce, 1922 and 1923.  
Drawn for photo-lithography by J. Ledingham.



**SOURCES OF INFORMATION**  
Topography from plans of Survey Branch, Department of Lands and Forests, Ontario.  
Altitudes calculated from plans of Manitoba Hydrometric Survey, 1916, Waterpower Branch, Department of the Interior, Ottawa.  
Geology by E. L. Bruce, 1922.  
Drawn for photo-lithography by J. Lealigham.

**LEGEND**

- Pegmatite.
- Hybrid granite.
- Granite.
- INTRUSIVE CONTACT**
- Granite-porphry.
- INTRUSIVE CONTACT**
- Keewatin**
- Greenstone.
- Sedimentary gneiss.
- Iron formation.

Note.—The relative ages of the sedimentary gneiss and greenstone have not been determined. The iron formation is probably older than the gneiss.

**Symbols**

- Hill.
- Swamp.
- Elevation in feet above sea level.
- Strike and dip of bedding.
- Strike and vertical dip of bedding.
- Contorted bedding.
- Strike and dip of schistosity.
- Strike and vertical dip of schistosity.
- Geological boundary, approximate.
- Geological boundary, assumed.
- Glacial striae.
- Survey post.



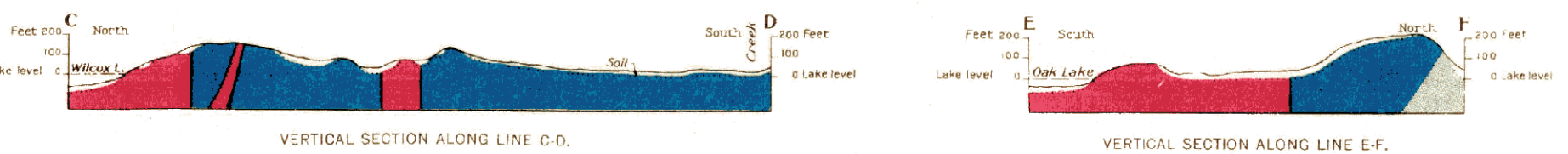
PROVINCE OF ONTARIO  
DEPARTMENT OF MINES

HON. CHARLES MCGREA, Minister of Mines  
Thos. W. Gibson, Deputy Minister. Willet G. Miller, Provincial Geologist.

**Map No 33 f**  
PART OF THE  
**ENGLISH RIVER SYSTEM**  
DOWN FROM  
**LAC SEUL SOUTHWEST TO BALL LAKE**  
ALSO SHOWING  
**PAKWASH LAKES**  
DISTRICTS OF KENORA AND PATRICIA, ONTARIO.

To accompany report by E. L. BRUCE in Ontario Department of Mines Report, Vol. XXXIII, Part 3, 1924.

Scale,  $\frac{1}{126,720}$  or 2 Miles = 1 Inch.



Horizontal Scale,  $\frac{1}{4}$  Mile = 1 Inch. Vertical Scale, 800 Feet = 1 Inch. Elevations are barometrically determined.

82°20' 82°10' 82°00'



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DEPARTMENT OF MINES

HON. CHARLES MCGEEKA, Minister of Mines  
Thos. W. Gibson, Deputy Minister. Willet G. Miller, Provincial Geologist.

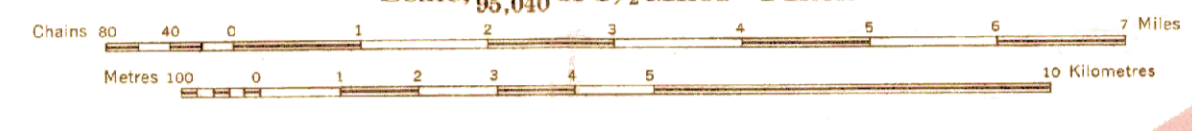
Map No 33g

# GROUNDHOG RIVER AREA

WEST AND SOUTH OF PORCUPINE  
DISTRICTS OF SUBURRY AND COCHRANE, ONTARIO

To accompany report by E. W. TODD in Ontario Department of Mines Report, Vol. XXXIII, Part 6, 1924.

Scale,  $\frac{1}{95,040}$  or  $1\frac{1}{2}$  Miles = 1 Inch



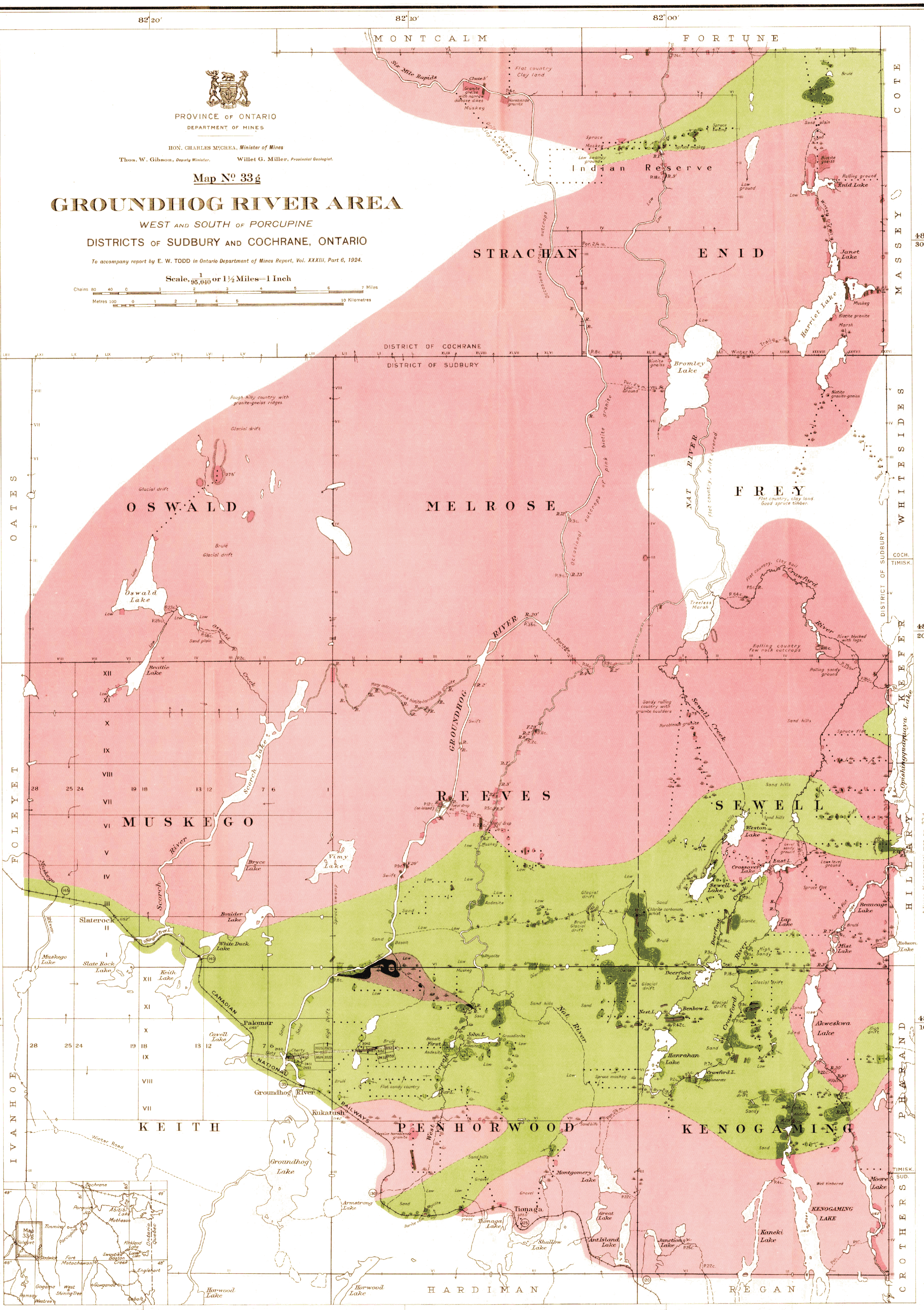
48° 30'

48° 20'

48° 10'

IVANHOE

Scale, 50 Miles = 1 Inch



### LEGEND

- PLEISTOCENE**  
Glacial and Recent  
Large tracts of sand gravel and swamp.
- PRE-CAMBRIAN**  
Matachewan?  
Dike-like dikes.
- Algonian**  
Felsite-porphry.  
Granite, pegmatite, granite-gneiss.
- Keewatin**  
Altered peridotite.  
Iron formation.  
Altered volcanic rocks.

Note - The actual outcrops observed are shown in heavier colour.

### Symbols

- Hill. Elevation above surrounding country.
- Muskeg, swamp, marsh.
- Railway with mileage west from Capreol.
- Geological boundary, defined.
- Geological boundary, assumed.
- Glacial striae.
- Strike and vertical dip.
- Elevation in feet above sea level.
- Trail or portage.
- The heavy dotted lines indicate the location of the examination traverses made during the examination of the rocks. They were run by compass from fixed points on township lines and waterways and the stations are marked by pegs. The position of these traverses is shown so that prospectors and others will know what parts of the area have been examined.

### SOURCES OF INFORMATION

Plans of township outlines, etc. from Bureau Branch, Department of Lands and Forests, Ontario.  
Map no. 1097, Geological Survey of Canada, by T. L. Tanton.  
Geological and topographical survey by E. W. Todd, 1923.  
Drawn for photo-lithography by A. Bradswood.

Adkins Kenogaming map no. 32 d

COTE  
MASSEY  
WHITESIDES  
KEEFER  
HILARY  
PHEARLAND  
CROTHERS

82°20' 82°10' 82°00' Longitude West from Greenwich