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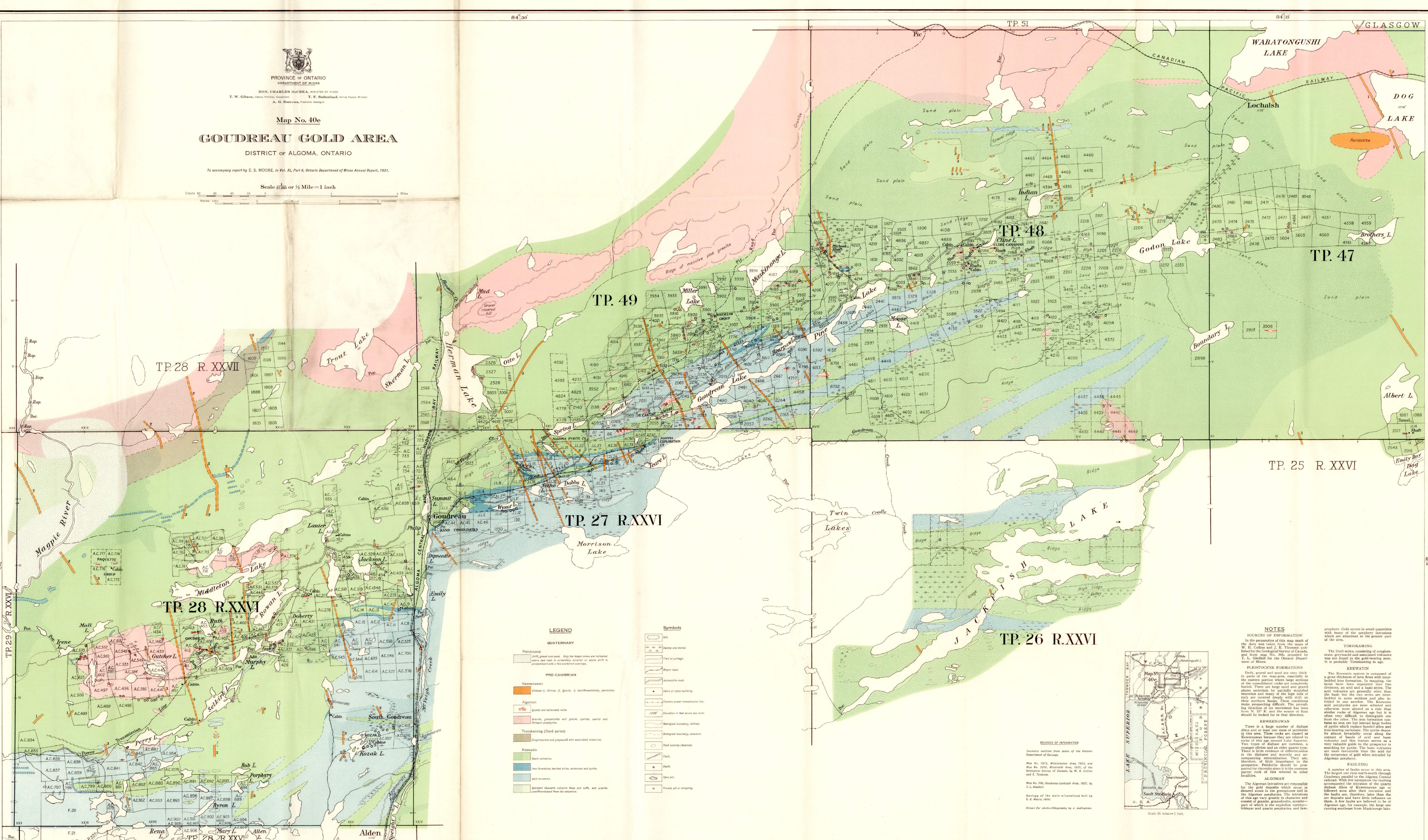
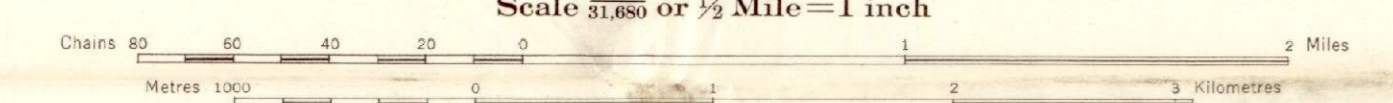


PROVINCE OF ONTARIO
DEPARTMENT OF MINES
HON. CHARLES McCREA, MINISTER OF MINES
T. W. Gibson, Deputy Minister, Geology; T. F. Sutherland, Acting Chief Geologist
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Map No. 40e GOUDREAU GOLD AREA DISTRICT OF ALGOMA, ONTARIO

To accompany report by E. S. MOORE, in Vol. XL, Part 4, Ontario Department of Mines Annual Report, 1931.

Scale 1/250,000 or 1/2 Mile = 1 inch



LEGEND

- QUATERNARY**
- Drift, gravel and sand. Only the larger areas are indicated here and not in country covered or more fully represented with a few scattered contours.
- PRE-CAMBRIAN**
- Keewatinian:
 - Diorite (1), Diorite, 2, Quartz, 3, (orthoclase), peridotite.
 - Algonian:
 - Quartz and arsenic veins.
 - Granite, gneiss and mica, quartz, quartz and feldspar porphyries.
 - Timiskaming (Dord series):
 - Diorite and quartz with associated veins.
 - Keewatin:
 - Dark volcanic.
 - Iron formation, banded silica, carbonate and quartz.
 - And rocks.
 - Darkly felsitic volcanic flow and tuffs, and granitic and quartz porphyries.
- Symbols**
- Well.
 - Dam and weir.
 - Rail or portage.
 - Railway line.
 - Highway road.
 - Water or other building.
 - Elevation in feet above sea level.
 - Biological locality, named.
 - Biological locality, unnamed.
 - Rail station observed.
 - Fault.
 - Shalt.
 - Deep pit.
 - Pass, pit or strapping.

NOTES

SOURCES OF INFORMATION

In the preparation of this map much of the data was taken from the maps of W. H. Collins and J. E. Thomson published by the Geological Survey of Canada, and from map No. 306, prepared by T. L. Goddard for the Ontario Department of Mines.

PLEISTOCENE FORMATIONS

Drift, gravel and sand are very thick in parts of the map, especially in the eastern portion where large sections of the consolidated rocks are completely buried. There are large sand and gravel dunes, especially by the shore of Lake Superior, and many of the high hills of rocks are covered nearly with drift on their northern flanks. These conditions make prospecting difficult. The prevailing direction of ice movement has been from N. 25° E. and the source of that should be looked for in that direction.

KEEWATINIAN

There is a large number of diabase dikes and at least one mass of peridotite in this area. These rocks are classed as Keewatinian because they are related to rocks of this age around Lake Superior. Two types of diabase are common, a syenitic diabase and an older quartz type. There is little evidence of differentiation in the diabase and scarcely any accompanying mineralization. They are, therefore, of little importance to the prospector. Peridotite should be prospectively checked for in the common parent rock of this mineral in other localities.

ALGOMAN

The Algonian intrusives are responsible for the gold deposits which occur in the Goudreau area in the granitoid and the Algonian porphyries. The intrusions of this age vary greatly in character and the faults are, therefore, later than the granite, gneiss, and quartz porphyry, and late.

FAULTING

A number of faults occur in this area. The largest one runs north-south through Goudreau parallel to the Algoma Central railway. With few exceptions the faulting accompanied the intrusion of the quartz diabase dikes of Keewatinian age or followed soon after their intrusion and the faults are, therefore, later than the one deposited and have little influence on them. A few faults are believed to be of Algonian age, for example, the large one running southeast from Maskinonge Lake.

PROSPECTING

Gold occurs in small quantities with many of the porphyry intrusions which are abundant in the greater part of the area.

TIMISKAMING

The Dord series, consisting of conglomerate, gneiss and associated volcanics was not found in the gold-bearing area. It is probably Timiskaming in age.

KEEWATIN

The Keewatin system is composed of a great thickness of lava flows with interbedded iron formation. In mapping, the lava flows were separated into two divisions, an acid and a basic series. The acid volcanics are generally older than the basic but the two series are interbedded in some sections and also included in one another. The Keewatin acid porphyries are more extensive and otherwise more altered as a rule than similar rocks of Algonian age but it is often very difficult to distinguish one from the other. The iron formation contains no iron ore but instead large bodies of pyrite which replace banded silica and iron-bearing carbonate. The pyrite dikes almost invariably occur along the contact of bands of acid and basic volcanics because they are related to a syenitic diabase and an older quartz type. There is little evidence of differentiation in the diabase and scarcely any accompanying mineralization. They are, therefore, of little importance to the prospector. Peridotite should be prospectively checked for in the common parent rock of this mineral in other localities.

