

Pre-Cambrian

Keweenawan

Legend

Dykes
Diabase and quartz diabase.

Batholithic Intrusives
granite, biotite and hornblende gneiss, syenite, pegmatite, etc.

Peridotite, differentiated from the Schist Complex.

Iron formation, differentiated from the Schist Complex.

Schist Complex, undifferentiated.
Altered volcanic rocks, largely ellipsoidal andesite with later rhyolite and quartz porphyry, also small amounts of stratified tuffs, ferruginous dolomite, iron formation, and peridotite dykes.

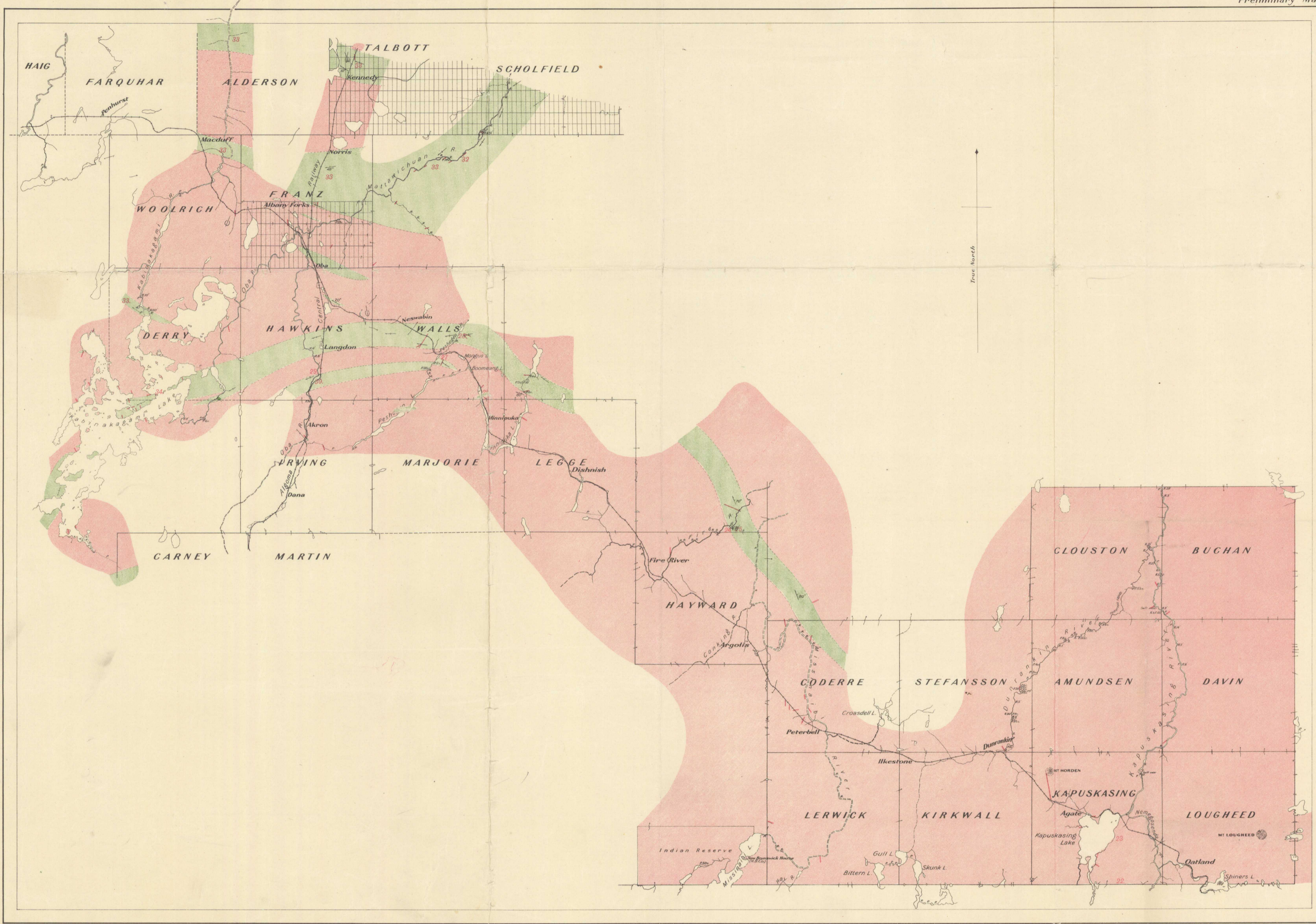
Symbols

Geological boundary, defined.

Geological boundary, assumed.

Schistosity, dip and strike.

Glacial striae.

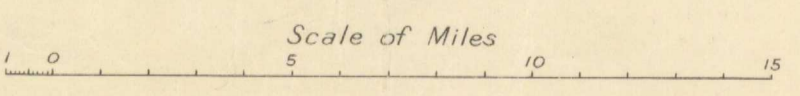


Geological Survey, Canada.

Publication No. 1698

Sheet 2

Explored routes in a belt traversed by the Canadian Northern Ontario Railway, between Oatland and Penhurst, Algoma District, Ontario.



Sources of information

Compiled from surveys by C.H. Freeman, 1916, and T.L. Tanton, 1916, and from plans of the Department of Lands, Forests and Mines Ontario, the Canadian Northern Ontario railway, the Algoma Central and Hudson Bay railway, and the Department of Indian Affairs. Map compilation by W.H. Boyd. Geology by T.L. Tanton, 1916.

- GEOLOGICAL NOTES**
22. Garnetiferous, biotite, hornblende gneiss.
 23. Contorted beds of fine sand, overlying stratified clay.
 24. Schisted rhyolite and hornblende schist, containing disseminated pyrite and a few grains of chalcopyrite.
 25. Small amount of sphalerite, in a quartz vein cutting sericite and chlorite schists. Pyrite is abundant in the rocks in this locality.
 26. Small amount of sphalerite and galena in a 3-inch quartz-calcite vein in porphyritic diabase dyke. The diabase contains disseminated pyrite and pyrrhotite. The neighboring hornblende-chlorite gneiss carries a few segregations of chalcopyrite, half an inch in diameter.
 27. Small amount of chalcopyrite, in quartz vein.
 28. A few scales of molybdenite, occurring in hornblende schist at the border of a pegmatite dykelet.
 29. A few scales of molybdenite, in a pale grey, mica schist which is cut by pegmatite dykelets.
 30. Small amount of chalcopyrite, associated with magnetite and pyrite, in pegmatite dykelet which cuts mica gneiss.
 31. Quartz-calcite vein, 6 inches wide, in fine-grained, riotite gneiss, carrying pyrite and small amount of chalcopyrite.
 32. Muscovite crystals, up to 4 inches in diameter, occurring in a pegmatite dyke which cuts the banded mica schists. Muscovite pegmatite dykes occur at numerous points along the Mattawichuan river.
 33. The dominant rocks of the schist-complex in this locality are banded, fine-grained, mica schists and gneisses. A nodular structure occasionally appears on the weathered surface.
 34. Small occurrence of molybdenite, on foot-wall of quartz-calcite vein, in highly altered, black, volcanic rock near the granite contact.

Sheet 2.
Algoma Dist. (C.N.P. belt.)
Oatland and Penhurst.

PROPERTY OF LIBRARY
GEOLOGICAL SURVEY OF CANADA
601 South St., Ottawa
LENT TO: _____ PLEASE RETURN
DATE: _____

NOT TO BE TAKEN FROM LIBRARY
NE PAS SORTIR DE LA BIBLIOTHÈQUE

