

The map-area as a whole is of low relief, only the southwestern corner and the areas adjacent to Lake Fiedmont to the southeast being rough and hilly. A heavy mantle of clay and, in places, sand ridges obscures most of the bed-rock, which appears generally as scattered clusters of small outcrops.

The map, as a whole is of *low relief*, only the *southeastern corner* and the *areas adjacent to Lake Friedman* to the *southeast* being rough and hilly. A *heavy mantle of clay* and, in places, *studs and ridges* abound on most of the *bedrock*, which is *mostly* *granite*. The *geological formations* consist of *bands of volcanic and sedimentary rocks* *swayed by irregular intrusive bodies*. *Andesitic and basaltic flows* *interbedded with rhyolite* *intrusions* *and dykes* *are* *abundant* *throughout* *the* *area*. *Some* *rocks* *are* *of* *volcanic* *origin*, *others* *are* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* *flow*. *Some* *rocks* *are* *out* *of* *southeast* *of* *Lake* *Friedman* *are* *now* *so* *altered* *that* *their* *original* *character* *is* *doubtful*, *and* *for* *this* *reason* *they* *are* *have* *been* *mapped* *as* *granite*. *Some* *of* *the* *pillows* *are* *of* *volcanic* *origin*, *others* *are* *of* *igneous* *flows* *regarded* *as* *Keweenaw* <

The sedimentary formations are mainly greywacke, now partly altered to quartz-biotite schist. Two separate bands have been mapped, and their relative age is unknown. The northern band is closely folded with the Kinojevis volcanic rocks, and is possibly pre-Timiskaming in age. The conglomerate noted in the northern outcrops of this band in Lacorne map-area may indicate a local unconformity only. Along the contact of the southern band, in the southeast corner of Lacorne area, layers of volcanic and sedimentary rocks are interbanded.

The Lacorne area, layers of Volcanic and sedimentary rocks are interbedded. The intrusion of the Lacorne granite is the main component of the composition from albite to microcline-bearing types, and are similar in appearance and nature to the typical intrusion of this part of the Canadian Shield. albite-bearing mass occupying part of the southeastern corner of the map-area is probably an extension of the Pasco-Pasco-Tibmont intrusions. To the west the central part of the area is occupied by the eastern extension of the Lacorne belt. The Barre townships, are probably genetically related to the Pasco-Pasco-Tibmont masses, as they are definitely albite-bearing types with albite as their main constituent. Some irregular sill-like masses of quartz-feldspar porphyry have been included with the intrusive rocks. They seem to be conformable with the trend of the formations, but in detail their contacts appear to be crosscutting. This porphyry may be a variety of the Lacorne type, but it commonly contains an abundance of zircon, and is also more quartziferous.

The trend of the various formations is quite uniform, varying from a few degrees to 35 degrees south of east. A marked variation was observed directly east of Lake Fiedmont where the formations appear to strike north. This abrupt change in the trend and also the one suggested by the northern band of sediments are perhaps indicative of cross-folding that has produced similar Z-shaped structures elsewhere to the southwest.

Three types of mineral deposits have been observed in which gold has been reported: (a) quartz veinlets and stringers slightly mineralized with sulphides, such as pyrite and chalcopyrite; some of the quartz stringers in the Barraute plug are of this type; (b) carbonate zones with or without quartz stringers and mineralized with pyrite and probably also some other sulphides, as, for example, the carbonate zone south of Uniaxe station; and (c) mineralization of the country rock close to the contacts of intrusive masses and probably genetically related to those intrusive rocks. Pyrite and sphalerite are the sulphides so far observed. The occurrence of sphalerite on rgs. v, lot 56, Fiedmont pt. is typical.

Molybdenite occurs in quartz and quartz pegmatite veins south and southeast of Lake Fiedmont. The veins, some of which are large, strike north or east. The pegmatite veins, and those striking north, have, in general, a higher molybdenite content than the quartz veins and those striking east. Both types of veins present features very similar to those at Lacorne Molybdenite mine in Lacorne township, except that the Barrois veins occur in or near quartz diorite or amphibolite.

Diabase; 9a, quartz diabase; 9b, olivine diabase


 Biotite granite; 8a, biotite-rich granite

 Hornblende monzonite; minor diorite and hornblende syenite

Amphibolite; minor hornblende monzonite

Albite granite, granodiorite; 5a, porphyritic granite; 5b, micrographic granite; 5c, amphibolite, probably derived from albite granite (5)

Massive quartz-feldspar porphyry; 4a, sheared quartz-feldspar porphyry



3 Diorite, quartz diorite

 Amphibolite, altered pyroxenite, minor peridotite

KEWAGAMA GROUP (?) See Note 1

KING JEWIC GROUP (S = N = 2)

A amphibolite; Ab, with minor bands of rhyolite; A bands of tuff and agglomerate

Ba - Bc feldspar porphyry, rhyolite, agglomerate, and breccia of tuffaceous rocks. Ba similar to

 Agglomerates and acidic tuffs; min

 Rhyolite, rhyolite breccia, trachyte

Sand and gravel (eskers)

Carbonate zone

Bedding (overturned)

bedding (direction of dip known, upper side of bed
unknown)

direction of dip unknown) /
/ /

Glacial striae ☒

Molybdenite	Mo
Gold	Au
Sphalerite	Zn
Pyrite	Py

NOTE 1. The age relations of map-units 4 to 2 and 3, and 2, 3, and 4 to the Kewagama (?) sedimentary rocks (1) are uncertain

NOTE 2. The Kinojevis group is probably the Malartic group of Lacorne map-area to the west repeated by folding and faulting, but may include younger rocks

Geology by L. P. Tremblay, 1946

Road not well travelled = = = = =

Trail

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PRELIMINARY MAP 47-9

BARRAUTE

ABITIBI COUNTY

QUEBEC

Scale:- 2 inches to 1 mile

1	$1/2$	0	1	3
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