

LEGEND

- PROTEROZOIC**
- 9 Diabase, gabbro
 - 8 Biotite granodiorite and related rocks; 8a, gneissic biotite granodiorite; 8b, granodiorite, with hornblende inclusions derived from 1, 4, and 7
 - 7 Quartz diorite and related rocks; 7a, hornblende quartz diorite; 7b, hornblende diorite; 7c, biotite-hornblende quartz diorite
- YELLOWKNIFE GROUP (1-6)**
- 5 Greywacke, siltstone, phyllite and mica schist
 - 6 Nodular quartz-mica schist derived from 5; 6a, andalusite-bearing; 6b, cordierite-bearing
 - 4 Meta-gabbro; 4a, porphyritic meta-gabbro (feldspar); 4b, minor lava (f) and mica schist (5a) in part may be younger than 5
- ARCHEAN**
- 3 Felsic lava (meta-phyllite and meta-diorite); 3a, massive lava; 3b, agglomerate and breccia; 3c, micaceous massive and fragmental lava; 3d, lava and tuff interbedded with greywacke and siltstone (5); (f), carbonatized
 - 2 Mafic agglomerate and breccia
 - 1 Mafic lava (meta-andesite and meta-basalt); minor phyllite and mica schist (5a); 1a, massive dark green to black; 1b, massive grey to light green; 1c, dykes; 1d, lava intruded by granodiorite (8); 1e, rhyolite and fragmental; 1f, andesite; 1g, porphyritic (feldspar); (f), carbonatized
 - A Quartz porphyry, quartz-feldspar porphyry, feldspar porphyry, minor apatite and mafic lava. In part related to felsic lava (1)

- Bedding (general trend line (direction of dip shown, upper side of bed unknown))**
 Bedding (direction of dip shown, upper side of bed unknown)
 Attitude of flow (top face as indicated)
 Schistosity, gneissosity (indicated vertical)
 Fault zone, shear zone (vertical, somewhat, assumed)
 Anticlinal axis (vertical, top of bed determined by ground leveling)
 Synclinal axis (vertical, top of bed determined by ground leveling)
 Glacial scarp
 Drift ridge (line indicated)
 Esker
 Mineral occurrence
 Mineralized vein
 Gossan zone

- MINERAL OCCURRENCES**
- Gold Au
 - Copper Cu
 - Tungsten W
 - Molybdenum Mo
 - Iron Fe

- INDEX TO MINING PROPERTIES**
- ① Bulldog Yellowknife Gold Mines Limited (1948)
 - ② Samlita Consolidated Mines Limited north showing (1949)
 - ③ Samlita Consolidated Mines Limited south showing (1949)

Geology by R. E. Falinbee and J. C. G. Moore, 1948

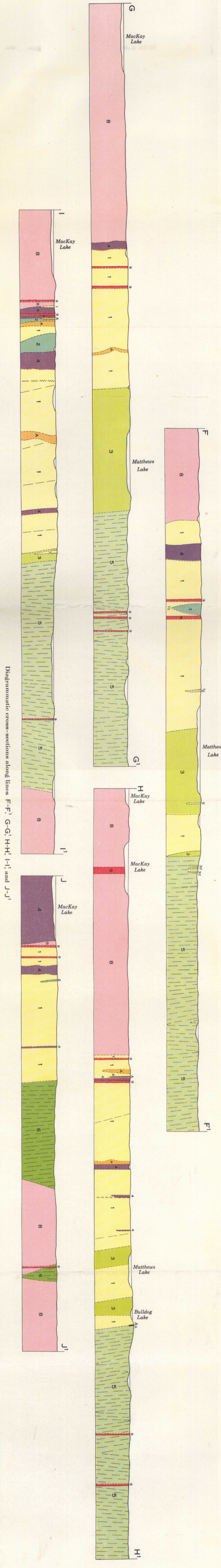
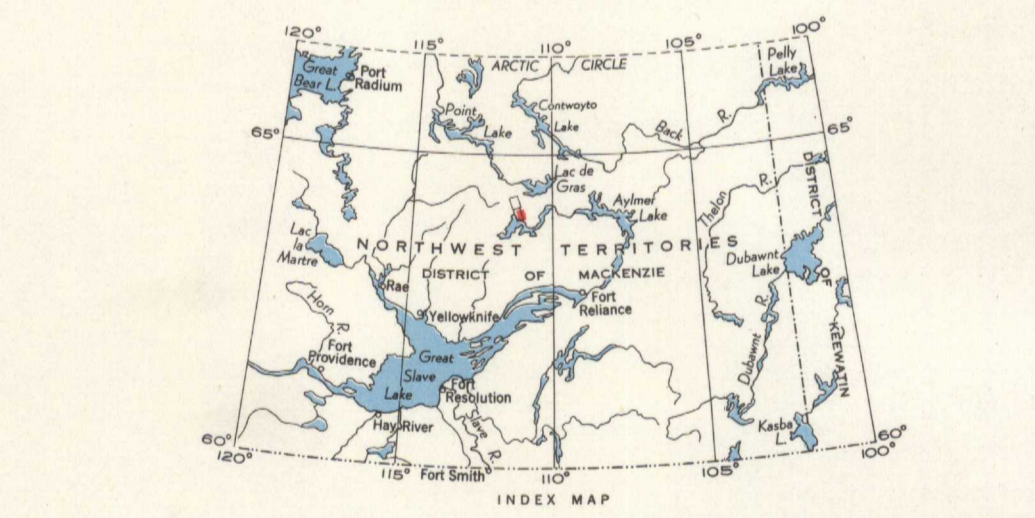
Building
 Mining property boundary (assumed)
 Marsh
 Non-perennial lake
 Reef or small island
 Height in feet above mean sea-level (assumed) 1415

Base map compiled in 1939 from surveys by the Topographical Survey, 1918

Cartography by the Geological Cartography Division, 1954

Air photographs covering this map were obtained through the National Air Photographic Library, Topographical Survey, Ottawa, Ontario

Approximate magnetic declination, 34° East



MAP 1024A
MATTHEWS LAKE
DISTRICT OF MACKENZIE
NORTHWEST TERRITORIES

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Scale 1 Inch to 2,000 Feet = 34,000 Feet