

PROTEROZOIC

ARCHAEO

# LEGEND

- 9 Diabase, gabbro
- 8a, 8b Biotite granodiorite and related rocks: 8a, gneissic biotite granodiorite; 8b, hornblende-biotite granodiorite; 8c, granodiorite, with hornblende inclusions derived from 1, 2, and 4
- 7a, 7b, 7c Quartz diorite and related rocks: 7a, hornblende-quartz diorite; 7b, hornblende diorite; 7c, biotite-hornblende-quartz diorite
- YELLOWKNIFE GROUP (1-6)
- 5 Greywacke, slate, 5a, phyllite and mica schist
- 6 Nodular quartz-mica schist derived from 5; (A, andalusite-bearing; C, cordierite-bearing)
- 4 Meta-gabbro: 4a, porphyritic meta-gabbro. In part may be younger than 5
- 3 Rhyolite and dacite: 3a, massive lava; 3b, agglomerate and breccia; 3c, mixed massive and fragmental lava; 3d, lava and tuff interbedded with greywacke and slate (5); 3m, carbonatized lava
- 2 Andesite: 2a, massive andesite; 2b, agglomerate and breccia; 2m, carbonatized andesite
- 1a, 1b Basalt, minor andesite: 1a, massive lava; 1b, pillow lava; 1c, mixed massive and pillow lava; 1d, lava injected by granodiorite (8); 1e, rhyolite and fragmental lava, in part garnetiferous; 1f, amygdaloidal lava; 1g, porphyritic lava; 1m, carbonatized lava
- A Quartz-feldspar porphyry, feldspar porphyry, minor apatite; related to 8 or 3, or to both 8 and 3

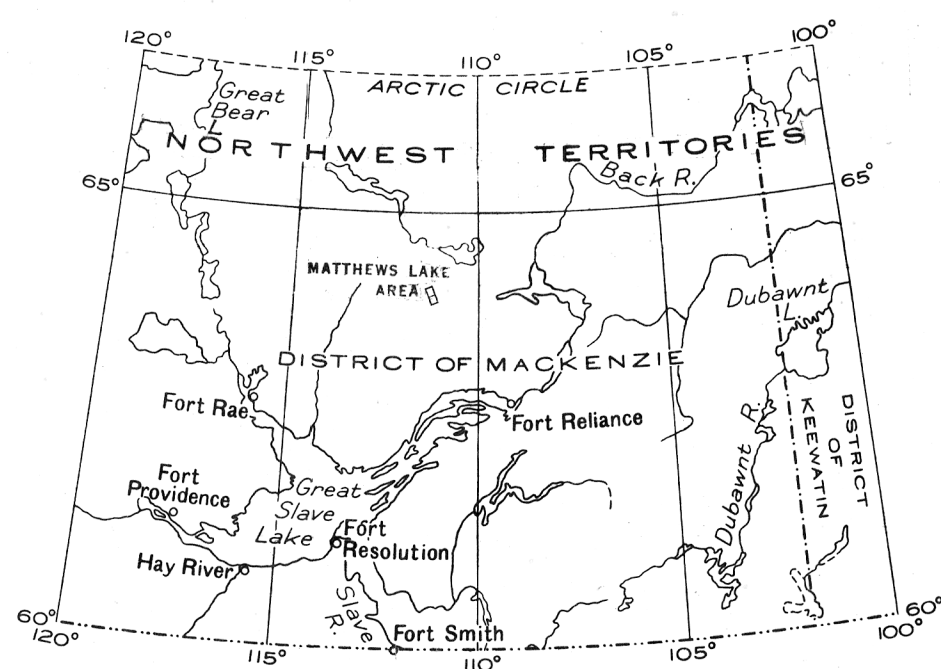
- Rock outcrop, area of outcrop.....X
- Bedding: general trend lines (direction of dip known, upper side of bed unknown).....
- Flow attitude (top known, top unknown).....
- Schistosity, gneissosity (inclined, vertical, dip unknown).....
- Fault zone, shear zone (defined, approximate, assumed).....
- Anticlinal axis (defined, approximate).....
- Synclinal axis (defined, approximate).....
- Glacial striae.....
- Drift ridge (area outlined).....
- Esker.....
- Mineral occurrence, mineralized vein.....X Au
- Gossan zone.....Fe

## SYMBOLS FOR METALS

- Gold.....Au
- Copper.....Cu
- Tungsten.....W
- Molybdenum.....Mo
- Iron.....Fe

Geology by R. E. Follinsbee and J. C. Moore, 1948.

Base map by Topographical Survey.  
Cartography by Geological Mapping Division, 1949.  
Approximate magnetic declination, 35° 28' East.



PRELIMINARY MAP 50-2A  
MATTHEWS LAKE  
(SHEET 1)  
DISTRICT OF MACKENZIE  
NORTHWEST TERRITORIES

Scale: 1 Inch to 1,500 Feet  
1500 0 1500 3000 4500