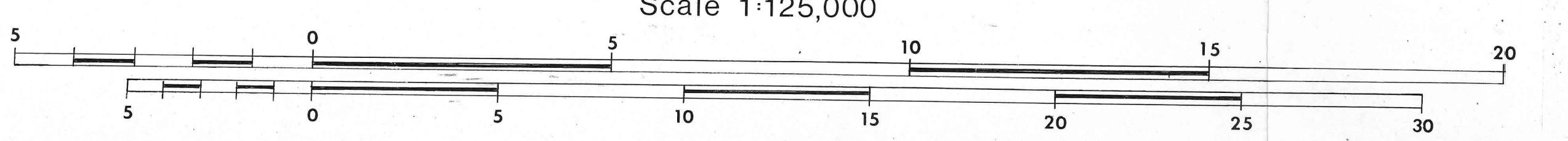


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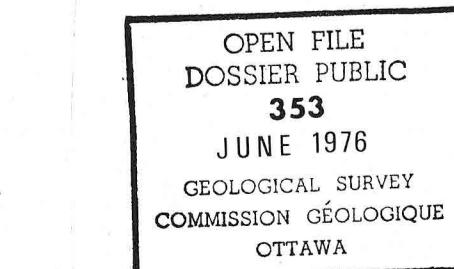
### GEOLOGY HEARNE LAKE (851) DISTRICT OF MACKENZIE

Scale 1:125,000



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85  
WECHO  
RIVER

#### LEGEND HEARNE LAKE

- Quaternary
- 32 Sand, unconsolidated
- 31 Diabase dykes, various ages
- 30 Quartzite, arkose; quartz, quartzite, arkose cobble conglomerate
- 29 Tonalite-granodiorite, laccolith, hornblende, biotite
- Great Slave Supergroup**
- Christie Bay Group
- 28 Stark Formation: mudstone and interlaminated dolomite and limestone, non-tectonic breccias
- Pethei Group
- 27 Hearne and Wildbread Formations: stromatolitic limestone
- 26 Pekanuti Point Formation, thin laminated limestone and argillite
- 25 Utungi and McLean Formations:
- 25a Utungi Formation, limestone minor stromatolites
- 25b McLean Formation, calcareous argillite with interbedded limestone
- 24 Taltheilei Formation: stromatolitic dolomite
- Kahochella Group
- 23 Charlton Bay and Douglas Peninsula Formations: mudstone and argillite
- 22 McLeod Bay Formation: shale with calcareous concretions
- 21 Gibilar Formation: shale, minor oolithic hematite stromatolites, marlstone
- Sosan Group
- 20 Seton Formation:
- 20a felsic plugs and lavas
- 20b mafic lavas
- 20c tuffs and sediments
- 19 Syenite, massive, hornblende
- 18 Alkali granite, coarse-grained, massive, hornblende
- 17 Granite, fine-grained, hornblende biotite
- 16 Quartz syenite, granite, pink, red weathering, hornblende
- 15 Syenite, green, brown weathering, hornblende
- 14 Adamellite, coarse, porphyritic, biotite
- 13 Adamellite, coarse, porphyritic, massive, biotite, muscovite, inclusions of other granitic rocks
- 12 Granite, medium fine-grained, biotite, muscovite, pegmatite common
- 11 Adamellite, massive, medium-grained, biotite, muscovite, pegmatite abundant, in places with Li and Be minerals, strongly discordant to supracrustal rocks
- 11a Mixed rocks, adamellite with inclusions of Yellowknife supracrustal rocks
- 10 Adamellite, massive, medium-grained, biotite, minor muscovite locally, concordant contacts in general
- 10a Mixed rocks, adamellite with inclusions of Yellowknife supracrustal rocks
- 9 Grandiorite, massive, medium-grained, biotite, locally hornblende, concordant contacts with supracrustal rocks
- 9a Mixed rocks, granodiorite with inclusions of Yellowknife supracrustal rocks
- 8 Granodiorite, massive, medium coarse-grained, chlorite
- 7 Mafic intrusive rocks
- 7a gabbro
- 7b leuco-gabbro and anorthosite
- 6 Amphibolite, plutons and sills in supracrustal rocks
- Yellowknife Supergroup**
- 5 Carbonate, mainly calcite associated with and commonly intimately mixed with felsic volcanic fragmental rocks
- 4 Burwash Formation, meta-greywacke and mudstone
- 4a greywacke, metarhyolite, phyllite, chlorite, biotite, albite, plagioclase, andesite, quartzite, muscovite, cordierite, andalusite, garnet, amphibole
- 3 Felsic volcanic rocks, dacite to rhyolite, mainly fragmental
- 2 Mafic volcanic rocks, basalt and andesite, massive and pillowd flows, tuffs
- 1 Mixed endoseses, diorite, tonalite, granodioritic gneisses intruded by amphibolite dykes and small plutons. In part older than Yellowknife supracrustal rocks. Gneisses commonly cataclastic to mylonitic in vicinity of contact with supracrustal rocks.

#### Symbols

Geological contact (confidence not implied)

Mineral isograv (cordierite)

Bedding, tops known (horizontal, inclined, vertical, overturned, dip unknown)

tops not known (inclined vertical, dip unknown)

Volcanic flows pillows (tops only known, tops and dip known, overturned)

Schistosity, gneissosity, cleavage, foliation (inclined vertical, dip unknown)

Lineation (horizontal, inclined)

Fault defined, assumed, solid circle indicates downthrown side if known

Shear zone, cataclastic zone, mylonite zone

Anticline

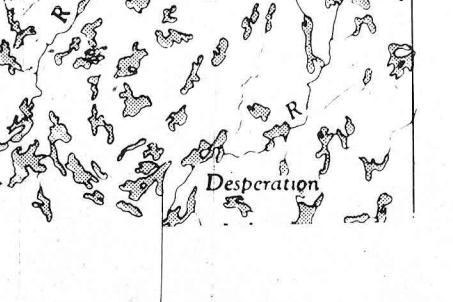
Syncline

Glacial Striae

Geology by:

A. Davidson, 1971  
J.O. Fortier, 1943-1945  
J.B. Henderson, 1970-1972  
J.F. Henderson, 1937-1939  
P.J. Hickey, 1937-1939  
A.W. Jolliffe, 1937  
M.B. Lambert, 1972, 1973

Compiled by:  
John B. Henderson, 1975



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