

LEGEND

- CENOZOIC**
- QUATERNARY**
 - Qal Alluvial sands and silts of Liard River and lower South Nahanni River
 - CRETACEOUS**
 - Ks Sandstone, fine-grained, olive grey
 - MESOZOIC**
 - LOWER CRETACEOUS**
 - IKFsJ FORT ST. JOHN GROUP: Shale, dark grey, fissile, concretionary, gypsiferous; siltstone
 - IKg GARBUTT FORMATION: shale, grey, rusty weathering
 - CARBONIFEROUS AND PERMIAN**
 - CPMu MATTON FORMATION: Upper part: grey sandstone, limestone, shale
 - CPMm Middle part: grey and brown sandstone
 - CPMl Lower part: grey sandstone, shale, coal
 - MISSISSIPPIAN**
 - Mf FLETT FORMATION: limestone, grey, thinly bedded, crinoidal, argillaceous, silty; shale; sandstone; dolomite
 - Mc CLAUSEN FORMATION: shale, black, fissile, non-calcareous; thin limestone
 - My YOHNI FORMATION: sandstone, thinly bedded
 - DEVONIAN**
 - UPPER DEVONIAN**
 - uDk KOTCHO FORMATION: shale, limestone
 - uDt TETCHO FORMATION: limestone
 - uDr TROUT RIVER FORMATION: limestone, sandy limestone
 - uDs REDKNIFE FORMATION: siltstone, shale
 - uDM JEAN-MARIE MEMBER, REDKNIFE FORMATION: bioclastic limestone
 - uDFS FORT SIMPSON FORMATION: shale, dark grey and greenish grey, fissile; siltstone, thinly bedded (may include undifferentiated HORN RIVER FORMATION)
 - MIDDLE DEVONIAN**
 - mDm HORN RIVER FORMATION: shale, black, pyritic, fissile, brittle
 - mDn NAHANNI FORMATION: limestone, grey, finely crystalline to bioclastic, thickly bedded; dolomite, finely crystalline
 - mDk HEADLESS FORMATION: shale, dark grey, calcareous; argillaceous limestone
 - mDl LANDRY FORMATION: limestone, grey, finely crystalline, thickly bedded (equivalent to mDm)
 - mDm MANETOE FORMATION: dolomite, coarsely crystalline, vuggy, massive (equivalent to mDl)
 - mDf FUNERAL FORMATION: limestone argillaceous, thinly bedded; shale, dark grey (equivalent to mDm and mDk)
 - mDa ARNICA FORMATION: dolomite, finely crystalline, partly finely porous and vuggy, banded dark and medium grey weathering; brecciated in part
 - LOWER DEVONIAN**
 - lDs SOMBRE FORMATION: dolomite (in structure sections only)
 - lDc CAMSELL FORMATION: dolomite, sandy (in structure sections only)
 - SILURIAN**
 - Sd Dolomite, silty, finely crystalline; light brown; sandstone, quartzose, grey; buff weathering
 - ORDOVICIAN**
 - ODk MOUNT KINDLE FORMATION: dolomite, massive, reefy, grey, finely crystalline, in part porous and vuggy; dolomite, argillaceous, thin bedded; grey weathering
 - CAMBRIAN ?**
 - Cd Dolomite, cryptocrystalline to finely crystalline, pink and grey, silty; sandstone quartzose, fine-grained, grey and pink; orange and red weathering
 - PROTEROZOIC**
 - Helikian ? (In structure sections only)
 - Aphebian ? (In structure sections only)

- Rock outcrop
- Geological boundary (approximate, assumed)
- Bedding, measured (horizontal, inclined, vertical)
- Bedding estimated (horizontal, inclined, vertical)
- Fault
- Normal fault (hachures on hanging wall)
- Thrust, reverse fault (teeth on hanging wall)
- Anticline (arrow indicates plunge)
- Syncline (arrow indicates plunge)
- Location of measured section
- Well, abandoned
- Mineral prospect (galena)

Geology by W.B. Brady, R.J.W. Douglas, P. Harker, D.J. McLaren, D.K. Norris, B.R. Pelletier, D.F. Stott, 1957; C.O. Hage, 1944

Compilation by R.J.W. Douglas and D.K. Norris, 1960, 1974

Geological cartography by R.D. Fairfield, Geological Survey of Canada

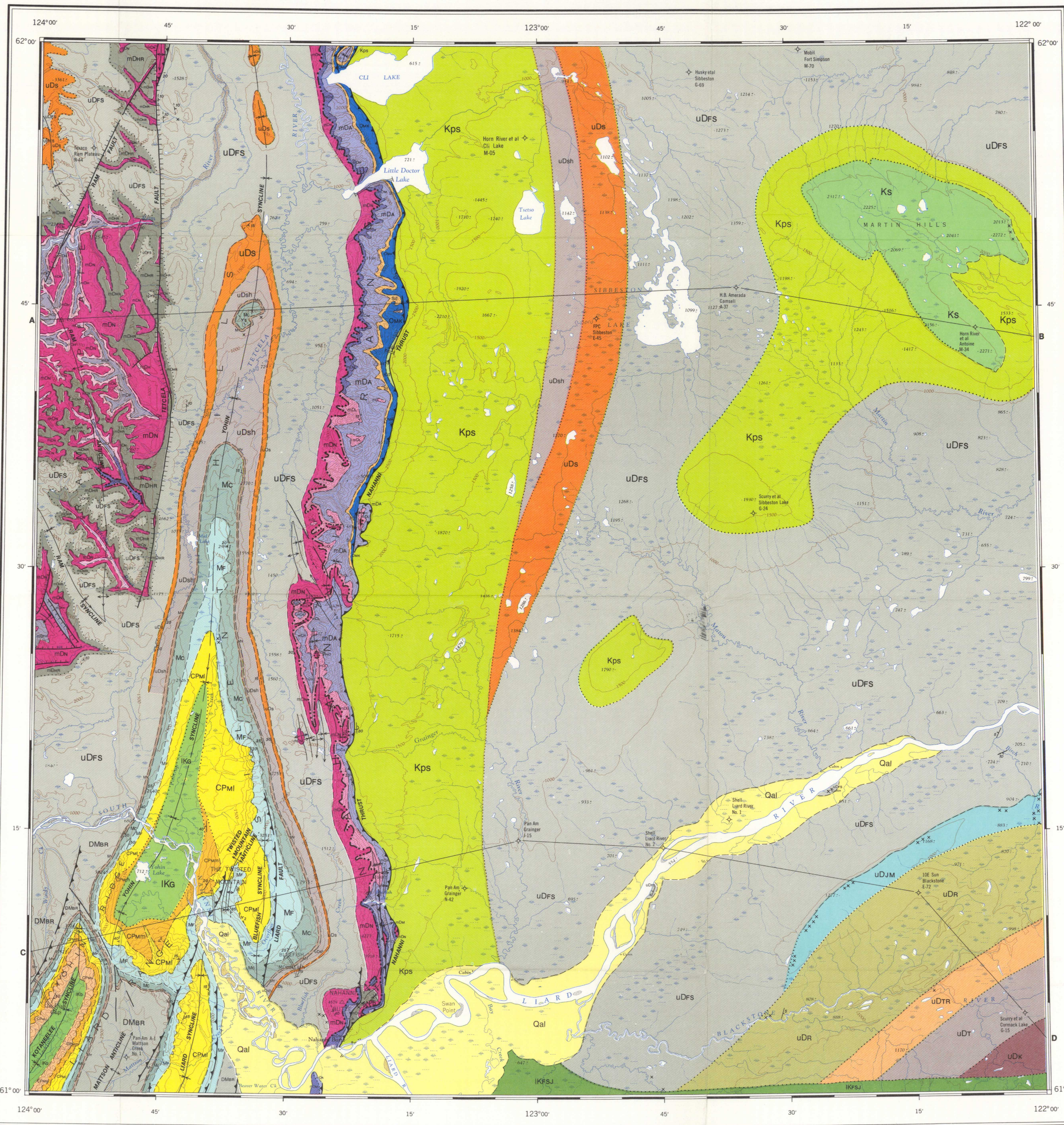
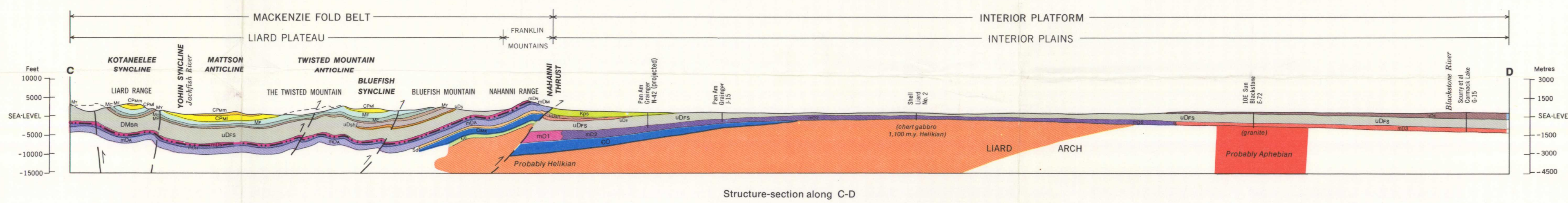
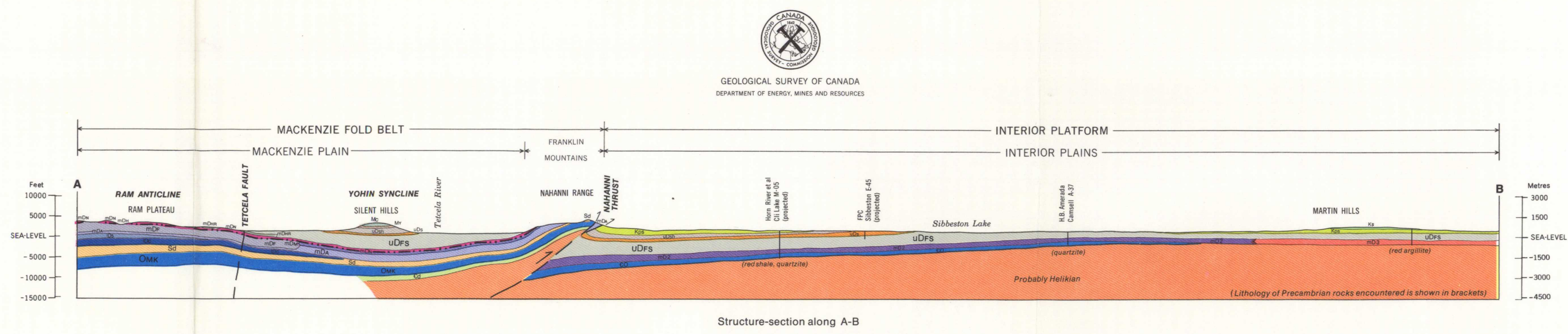
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map at the same scale published by the Army Survey Establishment, R.C.E., in 1960

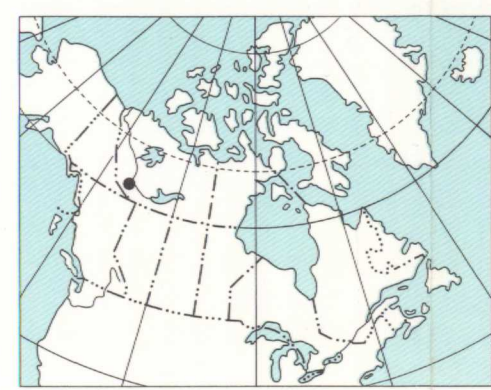
Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa

Magnetic declination 1975 varies from 33°20' easterly at centre of west edge to 33°20' easterly at centre of east edge. Mean annual change 5.8' westerly

Elevations in feet above mean sea-level



Copies of this map may be obtained from the Geological Survey of Canada, 603 Booth Street, Ottawa, Ontario K1A 0E8, 3303 - 33rd Street N.W., Calgary, Alberta T2L 2A7



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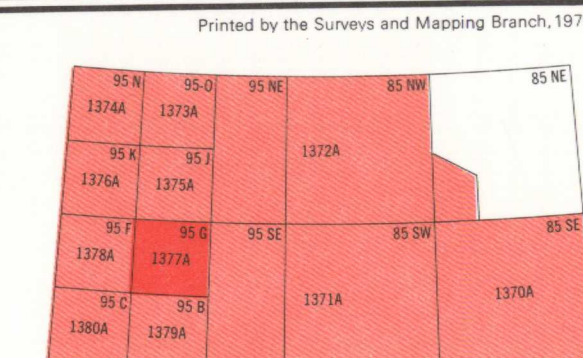
MAP 1377A
GEOLOGY
SIBBESTON LAKE
DISTRICT OF MACKENZIE

Scale 1:250,000

Kilometres 6 0 6 12 18 Miles 4 0 4 8

Universal Transverse Mercator Projection

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NATIONAL TOPOGRAPHICAL SYSTEM REFERENCE FOR GEOLOGICAL MAPS OF OPERATION MACKENZIE

MAP 1377A

SIBBESTON LAKE

DISTRICT OF MACKENZIE



1377A