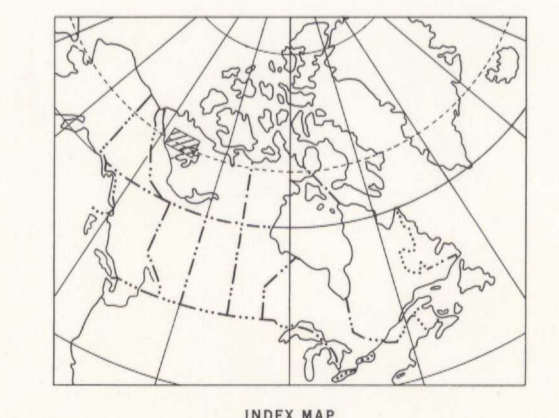
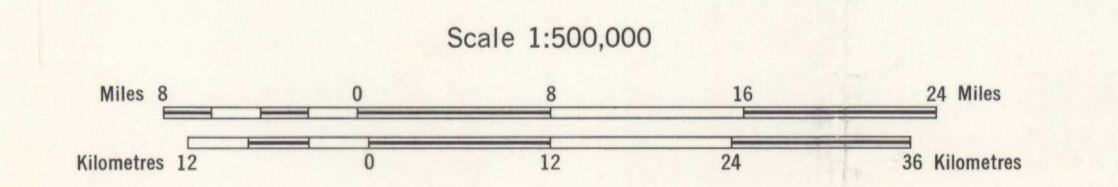


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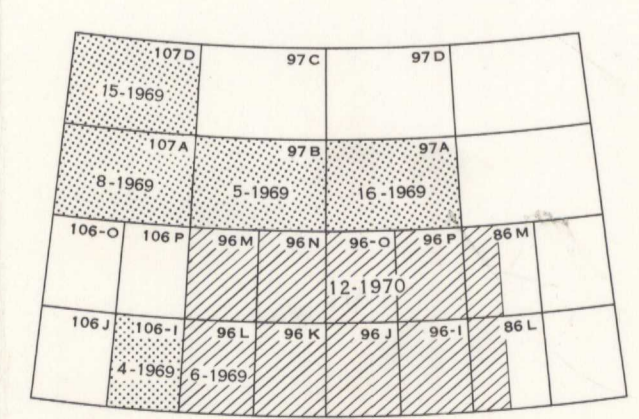
- LEGEND**
- CRETACEOUS**
LOWER AND UPPER CRETACEOUS
Ksh Undifferentiated shales
K Undifferentiated shales and sandstones
- LOWER CRETACEOUS**
Kss Sandstone, white, very fine to coarse grained, crossbedded, partly calcareous, commonly porous, locally oil stained, basal in western part of the map-area
- DEVONIAN**
MIDDLE AND (?) UPPER DEVONIAN
Dr RAMPARTS AND KEE SCARP FORMATIONS (Undifferentiated): limestone, generally well bedded and partly argillaceous below, massive above; commonly fossiliferous
- MIDDLE DEVONIAN**
Dh HARE INDIAN FORMATION: shale, black and highly fissile at base, greenish grey, calcareous above; beds of calcareous sandstone locally developed. Includes Cretaceous grey shale locally
Dh HUME FORMATION: limestone, well bedded and rubby, highly fossiliferous; shales in middle and lower parts
Db BEAR ROCK FORMATION: dolomite and limestone solution-breccia; bedded brown bituminous dolomite and dense limestone; gypsum
- ORDOVICIAN AND SILURIAN**
UPPER ORDOVICIAN AND LOWER SILURIAN
OSK RENNING GROUP
OSK MOUNT KINDLE FORMATION: dolomite, brownish grey to medium grey, fine crystalline; locally colour mottled; silicified fauna common
- CAMBRIAN AND ORDOVICIAN**
UPPER CAMBRIAN AND LOWER ORDOVICIAN
RONNING GROUP
COR2a Unit 2a: dolomite, pale yellow-brown to pale grey; mainly medium crystalline, abundant white and yellowish grey stromatolitic and locally oolitic chert, abundant drusy quartz
COR2 Unit 2 (Undifferentiated)
COR2a Unit 2a: dolomite, pale brownish grey, fine to coarse crystalline; interbedded with dolomite, greyish orange, very fine crystalline, partly laminated
COR1 Unit 1: dolomite and rare limestone; cyclic repetitions of dense, laminated beds, oolite beds, conglomerate beds, stromatolitic beds and thin dolomitic shale beds
- CAMBRIAN**
Cs SALINE RIVER FORMATION: red and green shales, gypsum, halite, siltstone; dense flaggy dolomite with salt-crystal casts
Ccp MOUNT CAP FORMATION: green, grey, and minor red shales, glauconitic sandstone and siltstone; subordinate orange-weathering dolomite in some areas
Cof OLD FORT ISLAND FORMATION: sandstone, white, grey, locally red, quartzose, fine to very coarse grained and conglomeratic, crossbedded, partly friable
- HADRYNIAN (?)**
COPPERMINE RIVER SERIES (?)
Ecd Diabase and gabbro dykes and sills
Pcb Basaltic flows
- HORNBY BAY GROUP**
Ehd Dolomite, partly silicified; many stromatolitic beds
Ehq Quartzite, white, pink, purple-mottled
- Rock outcrop
Rock outcrop visited by helicopter
Fossil locality (GSC catalogue number where collection taken)
Geological boundary (defined, approximate, assumed; includes contacts extended by air photo interpretation)
Geological marker
Limit of geological mapping
Bedding, tops known (horizontal, inclined, overturned)
Bedding estimated on photos or from aircraft (dip 5°-15°, 15°-45°)
Lineament
Fault, movement unknown (defined, inferred)
Fault, (defined, inferred; solid circle on downthrown side)
Fault, thrust or reverse (defined, inferred; teeth extend down-dip)
Anticline (defined, approximate; arrow indicates plunge)
Syncline (defined, approximate; arrow indicates plunge)
Monocline (arrows on steepened limb)
Area of sinkholes
Oil seep or showing
Stratigraphic section studied
- Stratigraphic Section References**
W.S. MacKenzie MB-10
R.W. MacQueen MO-10
- Geology by J.D. Aitken, D.G. Cook, M.E. Ayling, W.S. MacKenzie, R.W. MacQueen, C.J. Yorath, 1968.
Distribution of Proterozoic rock-units follows, with minor modification, GSC Map 18-1960 (Fraser, 1960)
- Compiled by J.D. Aitken and D.G. Cook, 1970
- To accompany GSC Paper 70-12 by D.G. Cook and J.D. Aitken
- Geological cartography by the Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada, 1970
- Topographic base-maps at the same scale ("Colville Lake", "Coppermine") published by the Surveys and Mapping Branch, 1966, 1968
- Magnetic declination 1970 varies from 39°42' easterly at centre of west edge to 46°35' easterly at centre of east edge. Mean annual change 8.9' easterly



MAP 12-1970
PAPER 70-12
GEOLOGY
COLVILLE LAKE AND COPPERMINE
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National Topographical System designations indicate other quadrangles mapped geologically during Operation Norman

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