



LEGEND

CRETACEOUS
 LOWER CRETACEOUS
 MATTAGAMI FORMATION: clay, sand, and lignite coal; some plant remains

DEVONIAN OR LATER
 Intrusive dykes and sills: lamprophyre

DEVONIAN
 UPPER DEVONIAN
 LONG RAPIDS FORMATION: dark brown and black carbonaceous shale; some clay ironstone nodules
 MIDDLE DEVONIAN
 WILLIAMS ISLAND FORMATION: limestone, grey and red shale; some gypsum and dolomite
 MURRAY ISLAND FORMATION: brown, fossiliferous limestone, brecciated limestone
 MOOSE RIVER FORMATION: limestone and dolomite breccia, gypsum
 KWATARABEAN FORMATION: brown bituminous fossiliferous limestone; minor chert
 LOWER DEVONIAN
 STROOFING RIVER FORMATION: sparsely fossiliferous grey arenaceous limestone, cherty limestone
 SEXTANT FORMATION: arkose, conglomerate, sandstone, siltstone and shale with plant remains

SILURIAN
 UPPER SILURIAN
 KENOGAMI RIVER FORMATION: S4c, Upper member: light grey and cream limestone and dolomite; S4b, Middle member: red siltstone, shale, mudstone, and sandstone; some interbedded limestone; S4a, Lower member: yellowish orange dolomite
 MIDDLE SILURIAN
 ATTAWAPISKAT FORMATION: red and tan fossiliferous limestone; some massive grey dolomite
 ESWAN RIVER FORMATION: brown and tan fossiliferous limestone and dolomite; biostromal in part
 SEVERN RIVER FORMATION: dolomite, shaly dolomite, limestone, some brecciated limestone

ORDOVICIAN
 UPPER ORDOVICIAN
 CHURCHILL RIVER GROUP: brown and tan limestone
 BAD CACHE RAPIDS GROUP: basal sandstone, fragmental limestone, dolomitic limestone, some chert
 ORDOVICIAN (unclassified)
 Limestone, sandy limestone, sandstone

PROTEROZOIC
 6 Diabase, gabbro
 Raton Lake area (units 4 & 5)
 5 Jaspilite, slate, argillite, quartzite, conglomerate, chert, carbonaceous shale, and greywacke
 4 Dolomite, chert breccia, minor interbedded argillite
 3 Pyroxenite (small bodies believed related to carbonatite complex exposed beyond the map-area)
 Churchill area (unit 3) (may be in part equivalent to 1)
 2a, amphibolite, quartzite, conglomerate, interbedded siltstone; 2b, siltstone, shale, quartzite, sandstone

ARCHEAN
 1 Metavolcanic and metametasedimentary rocks: 1a, basic to intermediate volcanic rocks, amphibolite, amphibole-plagioclase gneiss, amphibole-pyroxene-plagioclase gneiss, chlorite schist, iron formation, minor sedimentary rocks; 1b, acid to intermediate volcanic rocks, iron formation, minor sedimentary rocks; 1c, greywacke, arkose, quartzite, siltstone, amphibolite, jaspilite, argillite, conglomerate, iron formation, some schist, gneiss, and volcanic rocks

PLUTONIC ROCKS
 D KAPPOKANG GRANULITE COMPLEX: amphibole-pyroxene-quartz-feldspar granulite, garnet-amphibole-pyroxene-quartz-feldspar granulite, amphibole-pyroxene granulite
 C Granitic plutonic rocks (massive to foliated): Ca, quartz monzonite granodioritic granite; Cb, areas of few outcrops interpreted as underlain by (C)
 B Basic and ultrabasic plutonic rocks: Ba, quartz diorite, gneodiorite, diorite; Bb, gabbro, metabasalt, noritic gabbro, amphibolite, minor biotite paragneiss; Bc, peridotite, pyroxenite, serpentinite
 A Gneissic and migmatitic plutonic rocks: Aa, schlieren gneiss, hybrid granitic gneiss, Ab, ill-par-lit gneiss, Ac, amphibole and/or biotite-quartz-feldspar gneiss (commonly well banded); Ad, paragneiss, garnet bearing gneiss; Ae, apatite, amphibolite, hybrid granitic rocks; Af, areas of few outcrops interpreted as underlain by (A)

ROCK OUTCROP x
AREA OF ROCK OUTCROP (x)
TITLE A
GEOLOGICAL BOUNDARY (DEFINED) - - - - -
GEOLOGICAL BOUNDARY (APPROXIMATE OR SUGGESTED) - - - - -
FAULT - - - - -
DRILL-HOLE (TO BASEMENT) o
DRILL-HOLE o

MAIN DRILL HOLES
 Campbell Lake MacDye 12
 Coral Rapids Mike Island 1
 Dawson Mines 1A Moose Factory Hospital
 Dawson Mines 2 Moose River Oita 1
 Grey Goose Island Moose River Oita 3
 Jubb Lake Murray Island
 Kemco 1 Oudayas
 Kemco 2 Pudwacha Point
 Kemco 3 Ransom Island
 Kemco 4 Selco Demontway 1
 Kemco 5 Selco 2
 MacDye 11 Soppet-Angitane Kaskattama 1

ECONOMIC DEPOSITS
 Niobium Nb Gypsum gyp
 Iron Fe Lignite lig

Bedrock geology by H. H. Bostock, L. M. Cumming, B. R. Norford, A. W. Norris, L. L. Price, and B. V. Sanford

Other sources of data from:
 G. Bennett, D. D. Brown, and P. George, 1946; H. H. Bostock, 1942; D. F. Coates, 1945(M); B. G. Craig, personal communication, 1947; G. R. Gulliford, 1944; G. H. J. Gray, personal communication, 1947; G. D. Hobson, 1944; G. D. Jackson, 1942; A. R. MacLaren, personal communication, 1946; Manitoba Mines Branch, 1942; N. W. Martison, 1933; R. C. McDonald, personal communication, 1947; S. J. Nelson and R. D. Johnson, 1946; R. L. Potter, 1942; H. A. Quinn, 1941; A. H. Reusch, F. R. Gillin, and G. J. Denton, 1943; and R. Skinner, 1946, 1947(M)

Compilation by A. W. Norris, B. V. Sanford, and H. H. Bostock
Geological cartography by the Geological Survey of Canada, 1947
Base-map by the Surveys and Mapping Branch

GEOLOGICAL SURVEY OF CANADA
 DEPARTMENT OF ENERGY, MINES AND RESOURCES
 MAP 17-1967
 PAPER 67-60
GEOLOGY
HUDSON BAY LOWLANDS
 MANITOBA, ONTARIO, QUEBEC AND DISTRICT OF KEEWATIN
 Scale 1:1,000,000
 1 inch to 16.78 miles
 1:100,000
 1 inch to 16.78 miles
 1:500,000
 1 inch to 8.39 miles

G
 3401
 .C5
 1956
 G4
 omvsc
 c.1.