

Diagrammatic rock stratigraphic cross-section

LEGEND

- CENOZOIC**
PLEISTOCENE AND RECENT
Q Unconsolidated glacial and alluvial deposits
- MESOZOIC**
CRETACEOUS
Ks SELWYN PLUTONIC SUITE: undivided; Ks1, hornblende-biotite granite and granodiorite; Ks2, biotite granite and granodiorite; shading of country rock adjacent pluton shows extent of hornfels
- PALEOZOIC**
DEVONIAN AND MISSISSIPPIAN
UPPER DEVONIAN TO MID-MISSISSIPPIAN
EARN GROUP (DP - DMP)
PREVOST FORMATION: DMP1, (patterned) chert quartz sandstone, chert pebble conglomerate; minor shale; DMP2, brown weathering shale, minor chert-quartz sandstone
LOWER TO UPPER DEVONIAN
PORTRAIT LAKE FORMATION: DP2, black, gun-blue and bluish-white weathering, black, siliceous shale; thin- to medium-bedded, black chert

- ORDOVICIAN AND SILURIAN**
UPPER SILURIAN
ROAD RIVER GROUP (OS - Ss)
SS STEEL FORMATION: not present
LOWER ORDOVICIAN TO MIDDLE SILURIAN
DUO LAKE FORMATION: OSd1, black, gun-blue, or silvery white weathering, recessive, black shale; minor thin interbeds of fine crystalline black limestone and black chert
- UPPER CAMBRIAN AND LOWER ORDOVICIAN**
RABBITTLE FORMATION: COR1, white to buff weathering, laminated or thin bedded, fine crystalline, locally nodular, blue-grey limestone; minor volcanic tuff
- LOWER DEVONIAN**
GRIZZLY BEAR FORMATION: DGB, blue-grey weathering, resistant, thin- to very thick-bedded, grey crystalline limestone characterized by abundant crinoid stem fragments with thin axial canals
- SILURIAN TO LOWER DEVONIAN**
SAPPER FORMATION: SDs2, (sally limestone member - upper Sapper) tan, buff, or dark grey weathering, recessive, thin bedded, laminated, argillaceous, fine crystalline limestone

- UPPER CAMBRIAN TO LOWER SILURIAN**
HAYWIRE FORMATION: CSH1, (sandy carbonate member - local basal Haywire) maroon mudstone, thick bedded, fine- to medium-crystalline, light coloured dolomite, and medium bedded, medium- to coarse-grained quartz arenite; CSH2, white to dark grey weathering, thick- to very thick-bedded, massive, grey, locally cherty dolomite; CSH3, (volcanic member) dark grey-green weathering amygdaloidal basalt and tuff; CSH4, (white dolomite member) white to light grey weathering, thin- to thick-bedded light grey dolomite; CSH5, (massive dolomite member) massive, light to dark grey dolomite
- MIDDLE CAMBRIAN**
CA AVALANCHE FORMATION: light grey weathering, thick bedded, fine to medium crystalline, grey dolomite
- CR** ROCKSLIDE FORMATION: tan to brown weathering, recessive, thin bedded, fine crystalline, grey limestone
- LOWER CAMBRIAN**
CS SEKWU FORMATION: CS1, (carbonate member - lower Sekwu) grey to buff weathering, thin bedded, locally wavy bedded and nodular, fine crystalline, blue-grey to black limestone; upper one-third of unit is white weathering, massive, fine crystalline, grey dolomite; CS2, (clastic member - upper Sekwu) light orange to brown weathering, medium- to thick-bedded, medium grained, grey quartz sandstone; purple weathering, purple siltstone and diatomite siltstone; bright orange weathering, thin- to thick-bedded, fine crystalline dolomite

- PROTEROZOIC AND PALEOZOIC**
UPPER PROTEROZOIC AND LOWER CAMBRIAN
VAMPIRE FORMATION: dark brown to rust weathering, thin- to thick-bedded, greenish grey shale siltstone, and very fine grained quartz sandstone
- UPPER PROTEROZOIC**
PB BACKBONE RANGES FORMATION: dolomite

Geology by S.P. Gordey 1977-78, with contributions by S.L. Blusson, L.H. Green and J.A. Rodick 1968

Geological cartography by the 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 enlarged from part of map 105-1 published at 1:250 000 scale by the Army Survey Establishment R.C.E. in 1954

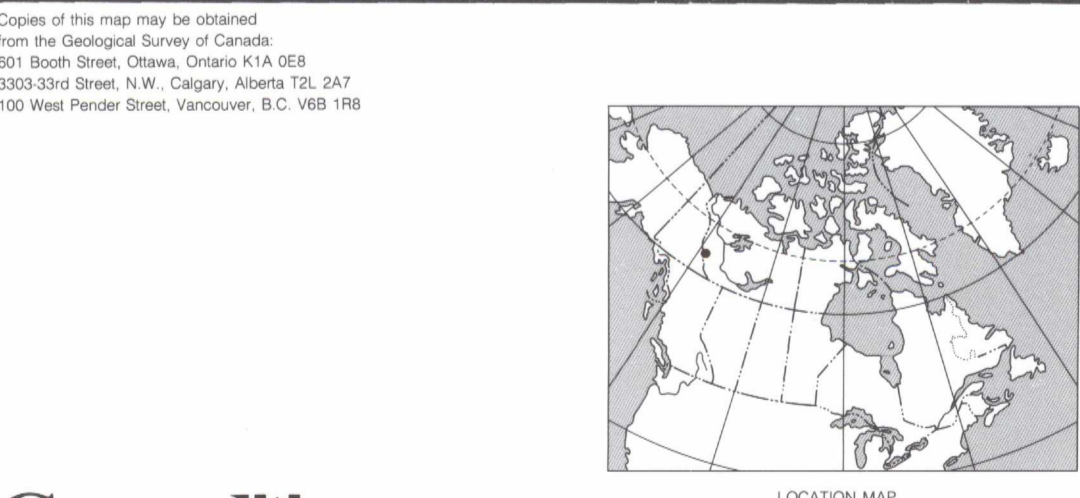
Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, K1A 0E9

Magnetic declination 1992, 30°42' East, decreasing 13.0' annually

Elevations in feet above mean sea level

REFERENCE

- Green, L.H., Rodick, J.A., and Blusson, S.L. 1968: Geology, Nahanni, District of Mackenzie and Yukon Territory, Geological Survey of Canada, Map 9-1967



MAP 1-1992
SHEET 3 OF 6
GEOLOGY
SOUTH NAHANNI RIVER AREA
DISTRICT OF MACKENZIE
NORTHWEST TERRITORIES
Scale 1:50 000 - Échelle 1/50 000

105-114	105-115	105-116
105-111	105-110	105-109
105-108	105-107	105-106

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