

Diagrammatic rock stratigraphic cross-section

LEGEND

- CENOZOIC**
PLEISTOCENE AND RECENT
Q Unconsolidated glacial and alluvial deposits
- MESOZOIC**
CRETACEOUS
KS SELWYN PLUTONIC SUITE: KS1, locally megacrystic (K-feldspar) hornblende-biotite granite and granodiorite; KS2, locally megacrystic (K-feldspar) biotite granite and granodiorite; shading of country rock adjacent pluton shows extent of hornfels
- TRIASSIC**
TJ JONES LAKE FORMATION: thin bedded, ripple cross-laminated, silt-stone and fine grained sandstone; shale
- PALEOZOIC**
MISSISSIPPIAN TO PERMIAN
MPMC MOUNT CHRISTIE FORMATION: undivided; MPMC1, (shale member - lower Mount Christie) blue-grey shale, pale green shale, siltstone, and minor fine- to medium-grained quartz sandstone; MPMC2, (chert member - upper Mount Christie) orange weathering, thin bedded, pale green to blue-grey chert; minor pale green shale
- DEVONIAN AND MISSISSIPPIAN**
UPPER DEVONIAN TO MID-MISSISSIPPIAN
EARN GROUP (Dp - DMP)
DMP PREVOST FORMATION: DMP1, (patterned) chert-quartz sandstone, chert pebble conglomerate, and minor shale; DMP2, brown weathering shale, minor chert-quartz sandstone
- LOWER TO UPPER DEVONIAN**
DP PORTRAIT LAKE FORMATION: DP2, black, gun-blue and bluish-white weathering, black, siliceous shale; thin- to medium-bedded, black chert

DEVONIAN

- MIDDLE DEVONIAN**
DF FUNERAL FORMATION: buff orange weathering recessive, thin bedded, fine crystalline, variably argillaceous to silty limestone
- LOWER DEVONIAN**
DGB GRIZZLY BEAR FORMATION: blue-grey weathering resistant; thin- to very thick bedded, grey crystalline limestone characterized by abundant crinoid stem fragments with twin axial canals
- SILURIAN TO LOWER DEVONIAN**
SDS SAPPER FORMATION: SD2, (silty limestone member - upper Sapper) tan, buff or dark grey weathering, recessive, thin bedded, laminated, argillaceous, fine crystalline limestone

ORDOVICIAN AND SILURIAN

- UPPER SILURIAN**
ROAD RIVER GROUP (OSo - Ss)
Ss STEEL FORMATION: not present
- LOWER ORDOVICIAN TO MIDDLE SILURIAN**
OSD DUO LAKE FORMATION: OSO1, 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**
COR1 RABBITKETTLE FORMATION: COR1, white to buff weathering, laminated or thin bedded, fine crystalline, locally nodular, blue-grey limestone; minor volcanic tuff

UPPER CAMBRIAN TO LOWER SILURIAN

- CSH** HAYWIRE FORMATION: CSH2, white to dark grey weathering, thick- to very thick bedded, massive, grey, locally cherty dolomite
- MIDDLE CAMBRIAN**
CR ROCKSLIDE FORMATION: tan to brown weathering, recessive, thin bedded, fine crystalline, grey limestone

- Geological boundary (defined, approximate assumed, extrapolated beneath overburden)
 Bedding, top known (inclined)
 Slaty cleavage (inclined)
 Fault, steeply dipping (defined, approximate assumed or extrapolated beneath overburden; solid circle indicates downthrow side)
 Anticline (defined, approximate, extrapolated beneath overburden)
 Syncline (defined, approximate, extrapolated beneath overburden)
 Fossil locality
 Mineral occurrence
 Hornfels
 Glacier

Property	MINERAL OCCURRENCES	Host
S BLUE	Mineralization	Rockslide Fm.
AC BONNIE	skarn W replacement? Zn	Haywire Fm.

Tungsten	MINERALS	Zinc
.....	W

REFERENCE

Green, L.H., Roddick, J.A., and Blusson, S.L. 1968. Geology, Nahanni, District of Mackenzie and Yukon Territory, Geological Survey of Canada, Map 8-1967.

Geology by S.P. Gorley 1979-81, with contributions by S.L. Blusson, L.H. Green and J.A. Roddick, 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°52' East, decreasing 13.0' annually

Elevations in feet above mean sea level

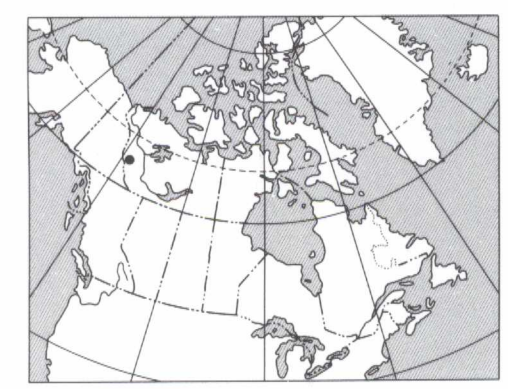
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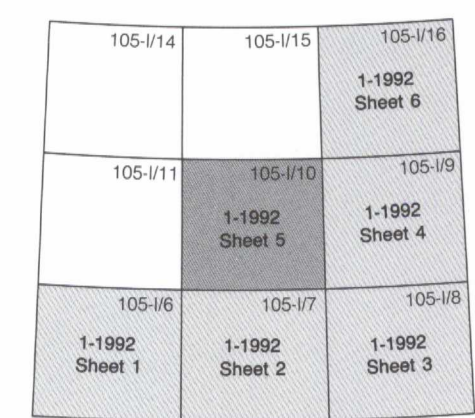
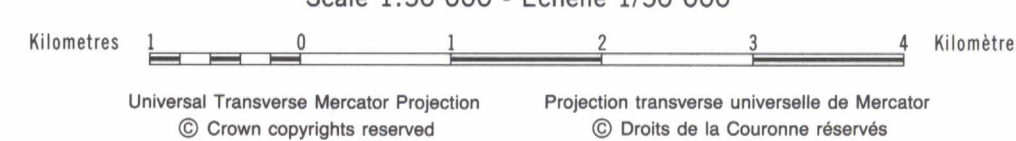
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MAP 1-1992
 SHEET 5 OF 6
 GEOLOGY
SOUTH NAHANNI RIVER AREA
 DISTRICT OF MACKENZIE
 NORTHWEST TERRITORIES
 Scale 1:50 000 - Échelle 1/50 000



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