

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, siltstone and fine grained sandstone; shale

**PALEOZOIC**  
**MISSISSIPPIAN TO PERMIAN**  
**MPMC** MOUNT CHRISTIE FORMATION: unbedded; 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: SDS2, (silty limestone member - upper Sapper) tan, buff or dark grey weathering, recessive, thin bedded, laminated, argillaceous, fine crystalline limestone

**ORDOVICIAN AND SILURIAN**  
**UPPER SILURIAN**  
**SS** ROAD RIVER GROUP (Os0 - Ss)

**LOWER ORDOVICIAN TO MIDDLE SILURIAN**  
**OSD** DUO LAKE FORMATION: OS01, 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

**MINERAL OCCURRENCES**

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

**MINERALS**

Mineral occurrence	W	Zinc
Tungsten	.....	.....

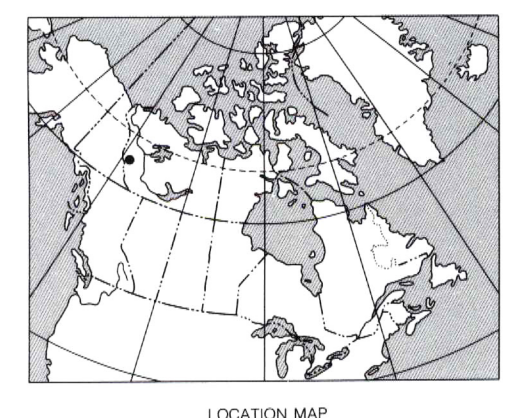
**Geological boundary (defined, approximate, assumed, extrapolated beneath overburden)** .....  
**Bedding, top known (inclined)** .....  
**Slaty cleavage (inclined)** .....  
**Fault, steeply dipping (defined, approximate, assumed or extrapolated beneath overburden; solid circle indicates downthrow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

**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 9-1967

**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 1051 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

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8, 3503-35th Street, N.W., Calgary, Alberta T2L 2A7, 100 West Pender Street, Vancouver, B.C. V6B 1R6



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

Kilometres 0 1 2 3 4 Kilometres

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