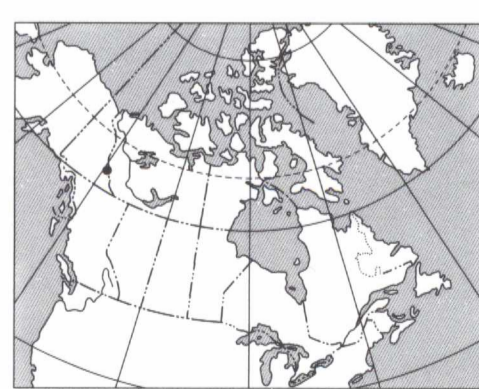


Diagrammatic rock stratigraphic cross-section

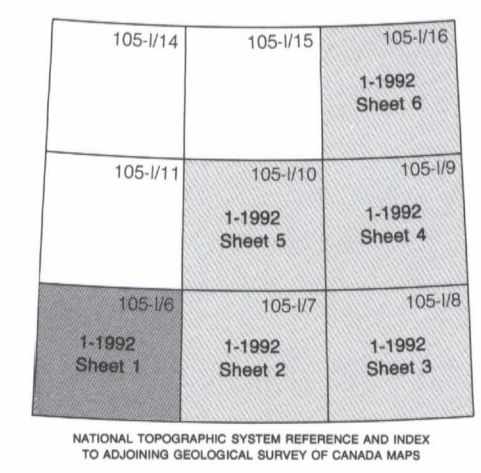
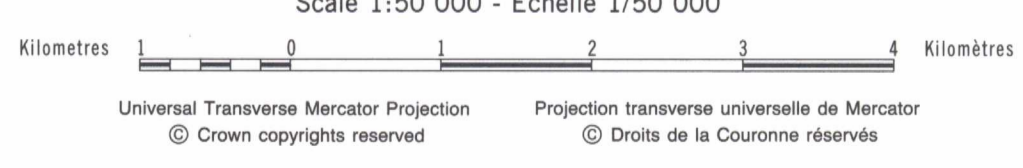
LEGEND

- CENOZOIC**
PLEISTOCENE AND RECENT
 Q Unconsolidated glacial and alluvial deposits
- 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: DP1, (patterned) black to gun-blue weathering, chert-quartz wacke, and massive pebbly mudstone; 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 (OSd - Ss)
 STEEL FORMATION: orange weathering, resistant, thick bedded, dolomitic, silty, grey burrowed mudstone with locally abundant small pyrite cubes
- LOWER ORDOVICIAN TO MIDDLE SILURIAN**
 DUO LAKE FORMATION: OSd1, black, gun-blue, or silvery-white weathering, massive, black shale and minor thin interbeds of fine crystalline black limestone and black chert; OSd2, black weathering, thin to medium-bedded, dark grey to black chert and minor black siliceous shale; minor tan to brown weathering, recessive dark grey shale at base
- CAMBRIAN AND ORDOVICIAN**
UPPER CAMBRIAN AND LOWER ORDOVICIAN
 RABBITKETTLE FORMATION: COR1, white to buff weathering, laminated or thin bedded, fine crystalline, locally nodular; blue-grey limestone; local volcanic tuff
- LOWER AND MIDDLE? CAMBRIAN**
 GULL LAKE FORMATION: Cg1, (local basal limestone conglomerate member) white weathering limestone conglomerate and minor blue-grey fine crystalline limestone; Cg2, (shale member - lower Gull Lake) brown to orange-brown weathering, recessive, thin bedded, blue-grey shale and siltstone; minor fine grained subarkose to quartz arenite; Cg3, (grey mudstone member - upper Gull Lake) tan weathering, resistant, medium bedded, burrowed, blue-grey siltstone and mudstone
- PROTEROZOIC AND PALEOZOIC**
UPPER PROTEROZOIC AND LOWER CAMBRIAN
 HYLAND GROUP (Py - PCn)
 NARCHILLA FORMATION: PCn1, maroon, dark blue-grey, or green weathering, recessive shale, thin bedded or laminated in similar colours; minor thin to medium bedded, fine grained, pale green, quartz arenite to subarkose and pale green to tan shale; PCn2, orange, grey or tan weathering, thin to medium bedded, fine grained, pale green, quartz arenite and pale green to tan shale
- UPPER PROTEROZOIC**
 YUSEZYU FORMATION: grey to brown weathering, thin to thick bedded, fine- to coarse-grained, gritty quartz sandstone and quartz-pebble conglomerate; brown to pale green shale; minor limestone
- 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
- MINERAL OCCURRENCES**
- | Property | Mineralization | Host |
|----------------|-----------------------|---------------------------|
| 6 HOWARDS PASS | stratiform Pb, Zn | Duo Lake Fm. |
| 6 SHIELD | stratiform Pb, Zn | Duo Lake Fm. |
| 9 WINKIE | stratiform? Pb, Zn | Duo Lake Fm. |
| 10 NESS | vein Cu | Prevost Fm. |
| a3 unnamed | stratiform Ba | Portrait Lake Fm. |
| a4 unnamed | stratiform Ba | Portrait Lake Fm. |
| a5 unnamed | stratiform Ba | Portrait Lake Fm. |
| G FERN | skarn Pb, Zn | Rabbitkettle Fm. |
| H CING | stratiform Zn, Pb, Cu | Duo L. or Portrait L. fm. |
| X GRAND | stratiform Pb, Zn | Duo Lake Fm.? |
| Y CMC | Stratiform Ba, Pb, Zn | Portrait Lake Fm. |
- MINERALS**
- | Barium | Cu | Lead | Pb | Zinc | Zn |
|--------|-------|-------|-------|-------|-------|
| | | | | | |
- Geology by S.P. Gordey 1977-78, 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, Ontario, K1A 0E9
- Magnetic declination 1992, 30°36' East, decreasing 12.8' annually
- Elevations in feet above mean sea level

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



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