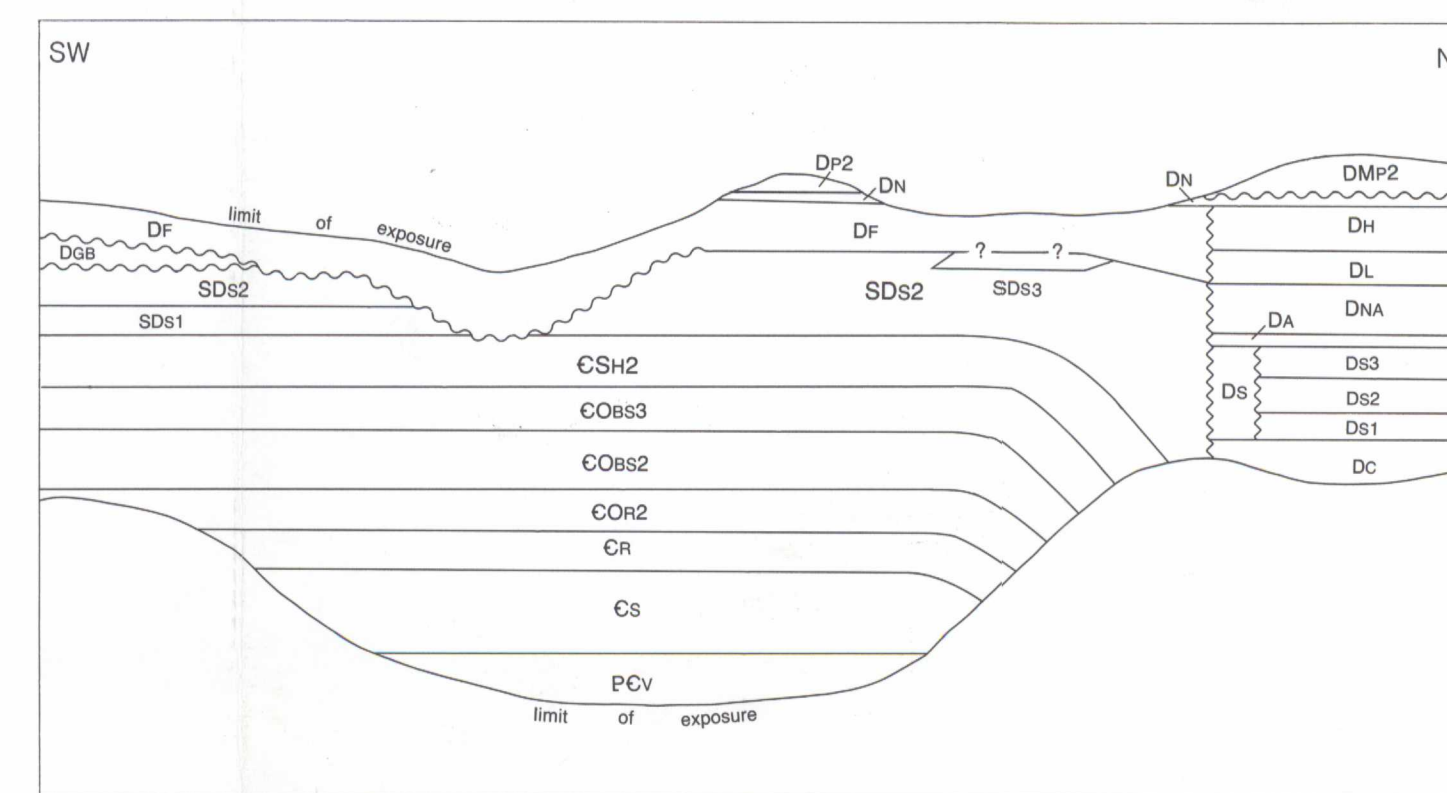
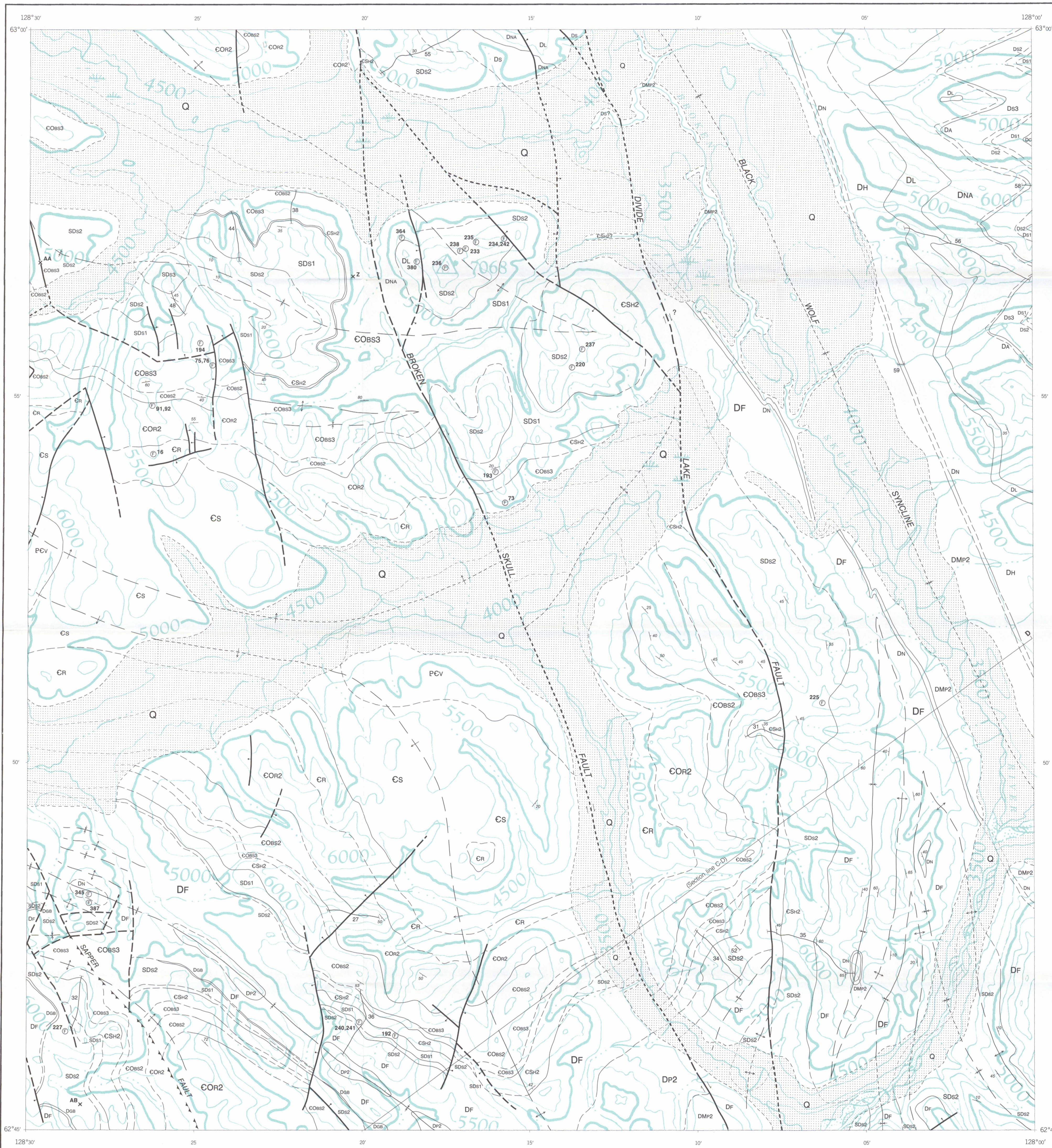




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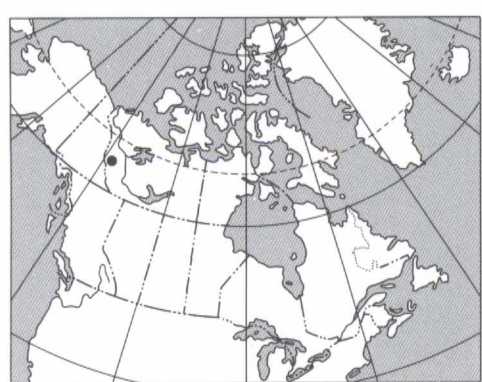


Diagrammatic rock stratigraphic cross-section

LEGEND

- CENOZOIC**
PLEISTOCENE AND RECENT
 Q Unconsolidated glacial and alluvial deposits
- PALEOZOIC**
DEVONIAN AND MISSISSIPPIAN
UPPER DEVONIAN TO MID-MISSISSIPPIAN
EARN GROUP (Dp - DMP)
 DMP PHEVOST FORMATION: DMP2, brown weathering shale; minor chert-quartz sandstone
 Dp PORTRAIT LAKE FORMATION: Dp2, black, gun-blue and bluish-white weathering, black siliceous shale; thin- to medium-bedded, black chert
- LOWER TO UPPER DEVONIAN**
 DN NAHANNI FORMATION: light grey weathering, resistant, thin- to thick-bedded, fine crystalline, dark grey limestone
 DH HEADLESS FORMATION: orange-brown weathering, thin- to medium-bedded, fine crystalline, light to dark grey limestone
 DL LANDRY FORMATION: light grey to brown grey weathering, resistant thin- to thick-bedded, fine crystalline, dark grey limestone
 DNa NATLA FORMATION: dark grey weathering, recessive, thin bedded, fine crystalline, black limestone, in part crinoidal
 DA ARNICA FORMATION: dark grey weathering, thick bedded, fine crystalline, black, cherty dolostone
 Ds SOMBRE FORMATION: undivided; Ds1, (white dolostone member - lower Sombre) light grey weathering, medium bedded, fine- to medium-crystalline, grey dolostone; Ds2, (black dolostone member - middle Sombre) dark grey weathering, medium- to thick-bedded, dark grey, fine- to medium-crystalline, in part crinoidal dolostone; Ds3, (striped dolostone member - upper Sombre) basal part is like Ds1, upper part includes alternating light and dark grey weathering, light and dark grey dolostone
 Dc CAMSELL FORMATION: grey, black and white weathering, medium bedded, grey to black, fine crystalline dolostone
- 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, massive, grey, locally cherty dolostone
- SILURIAN TO LOWER DEVONIAN**
 SDS SAPPER FORMATION: SDs1, (limestone member - lower Sapper) blue-grey weathering, thin bedded, cryptocrystalline to fine crystalline, black limestone; SDs2, (silty limestone member - upper Sapper) tan, buff, or dark grey weathering, recessive, thin bedded, laminated argillaceous, fine crystalline limestone; SDs3, (dark limestone member) dark grey weathering, thin- to medium-bedded, fine crystalline, black limestone; stratigraphic relations uncertain
- UPPER CAMBRIAN TO LOWER SILURIAN**
 CSH HAYWIRE FORMATION: CSh2, white to dark grey weathering, thick- to very thick-bedded, massive, grey, locally cherty dolostone
- CAMBRIAN AND ORDOVICIAN**
 COBS BROKEN SKULL FORMATION: COBS2, (dolostone member - lower Broken Skull) grey to white weathering, thick bedded, massive, fine- to medium-crystalline, grey to black dolostone; COBS3, (limestone member - upper Broken Skull) blue-grey weathering, recessive, thin bedded, fine crystalline, dark grey to black limestone
- COR2** RABBITKETTLE FORMATION: COR2, tan to orange brown weathering, thin bedded, fine crystalline, locally nodular, blue-grey limestone
- CAMBRIAN**
MIDDLE CAMBRIAN
 CR ROCKSLIDE FORMATION: tan to brown weathering, recessive, thin bedded, fine crystalline, grey limestone
- LOWER CAMBRIAN**
 CS SEKIWI FORMATION: undivided; Cs1, (carbonate member - lower Sekiwi) 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 dolostone; Cs2, (clastic member - upper Sekiwi) light orange to brown weathering, medium- to thick-bedded, medium grained, grey quartz sandstone; purple weathering, purple siltstone and dolomitic siltstone; bright orange weathering, thin- to thick-bedded, fine crystalline dolostone
- PROTEROZOIC AND PALEOZOIC**
UPPER PROTEROZOIC AND LOWER CAMBRIAN
 PCV VAMPIRE FORMATION: dark brown to rust weathering, thin- to thick-bedded, greenish grey shales, siltstone, and very fine grained quartz sandstone
- MINERAL OCCURRENCES**
- | Property | Mineralization | Host |
|--------------|-------------------|--------------------------------------|
| Z JOLI GREEN | vein Zn | Haywire, Sapper, or Broken Skull fm. |
| AA SKULL | vein Pb, Zn, Ag | Broken Skull or Sapper fm. |
| AB HAN | stratiform Zn, Cu | Sapper fm. |
- MINERALS**
- | Copper | Lead | Cu | Pb | Silver | Zinc | Ag | Zn |
|--------|-------|-------|-------|--------|-------|-------|-------|
| | | | | | | | |
- Geological boundary (defined, approximate, assumed, extrapolated beneath overburden)
 Bedding, top known (inclined, vertical)
 Fault, steeply dipping (defined, approximate, assumed or extrapolated beneath overburden, solid circle indicates relative movement)
 Thrust fault (approximate; teeth indicate upthrust side)
 Fault, strike slip (defined, approximate, assumed or extrapolated beneath overburden; arrows indicate relative movement)
 Anticline (defined, approximate, extrapolated beneath overburden)
 Syncline (defined, approximate, extrapolated beneath overburden)
 Monocline (defined, approximate, extrapolated beneath overburden)
 Fossil locality
 Location of measured section
 Mineral occurrence x z

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8, 3303-33rd Street, N.W., Calgary, Alberta T2L 2A7, 100 West Pender Street, Vancouver, B.C. V6B 1H6



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

Universal Transverse Mercator Projection / Projection transversale universelle de Mercator
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105-114	105-115	105-116
105-111	105-110	105-109
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 1-1992 Sheet 4
 1-1992 Sheet 5
 1-1992 Sheet 6

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APR 27 1992

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Geology by S.P. Gordey 1979-81, with contributions by S.L. Bussan, 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, 31°17' East, decreasing 13.2' annually

Elevations in feet above mean sea level

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