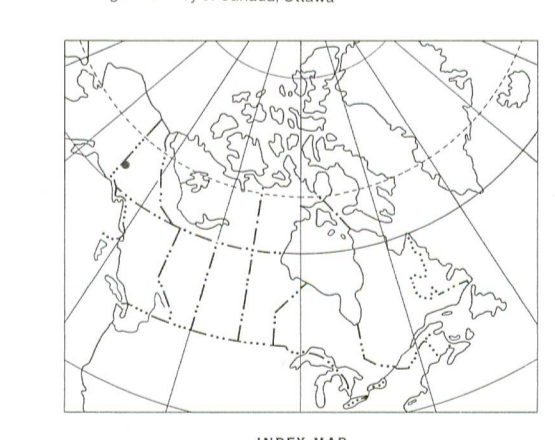
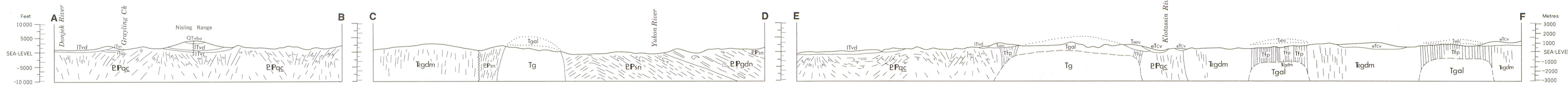


LEGEND

- PLEISTOCENE(?)**
- QTvbo OLIVINE BASALT
- Eocene or Younger**
- ITvd DONIK volcanic: grey-weathering, resistant, green and purple massive tuff-breccia. The volcanic fragments characteristically contain feldspar phenocrysts. Includes ITvr undifferentiated
  - ITvr FELSIC VOLCANICS: white to buff, recessive weathering, felsic volcanic flow rocks and quartz feldspar porphyries; commonly pyritic. May include ITvd undifferentiated
  - ITsp SANDSTONE: brown-weathering, grey, medium-bedded, poorly sorted, coarse- to fine-grained sandstone with minor interbedded black shale and siltstone; quartzite-pebble conglomerate near the base
  - Tcgr QUARTZITE CONGLOMERATE: thick bedded to massive unsorted quartzite-pebble and boulder conglomerate; clasts are locally derived from EPqc; minor sandstone and shale
  - Tcgr GRANITE CONGLOMERATE: thick-bedded to massive unsorted granite-pebble and boulder conglomerate; clasts are derived locally from Tgdm; minor sandstone and shale
- CENOZOIC**
- eTcv CARMACKS VOLCANICS: chocolate brown weathering, brown amygdaloidal augeite olivine basalt and flow breccia; includes fine-grained gabbro feeder rocks
- Eocene(?)**
- Tva CASINO VOLCANICS: ochre and orange weathering acid tuff, ignimbrite and tuff-breccia and minor related quartz feldspar porphyry (Tfp). Weathering colours commonly obscured by dense black lichen cover on stable slopes. Commonly pyritic
- AREA SOUTHWEST OF SHAKMAK FAULT**
- TmN MOUNT NANSEN GROUP: dark grey to black weathering (blocky talus), dark greenish-grey, aphanitic, intermediate to acid, massive, tuff and tuff-breccia. Locally includes undifferentiated feldspar porphyry dykes (Tfp)
  - Tfp FELDSPAR PORPHYRY: feldspar and quartz feldspar porphyry dykes and flow rocks of intermediate to acid composition, commonly with miarolitic cavities. Where these rocks are represented by intrusive phases this is indicated by a lined pattern defining the trend of dykes; where they are extrusive this pattern is not shown
  - Tgal NISLING RANGE ALASKITE: buff to yellowish weathering, fine- to medium-grained, equigranular, microclitic homogeneous leucocratic granite (alaskite). Castellated weathering forms common. Locally includes undifferentiated intermediate to acid feldspar porphyry dykes (Tfp)
  - Tg COFFEE CREEK GRANITE: coarse-grained, equigranular, homogeneous, biotite granite and quartz monzonite
- CRETACEOUS(?)**
- Kgd HORNBLENDE BIOTITE GRANODIORITE
- TRIASSIC(?)**
- PKub ULTRAMAFIC ROCKS: partly serpentinized peridotite
- PERMIAN AND/OR MESOZOIC**
- PMs SEDIMENTARY ROCKS: argillite, siltstone, greywacke, pebble conglomerate and minor limestone
  - PMv VOLCANIC ROCKS: green massive aphanitic basalt and related tuff and tuff-breccia; bright orange gossans are common
- Geological boundary (defined, approximate, assumed) ...**  
**Bedding tops known (horizontal, inclined, vertical) ...**  
**Foliation (inclined, vertical) ...**  
**Lination (horizontal, inclined) ...**  
**Trend of dykes (from air photographs) ...**  
**Fault (defined, inferred) ...**  
**Jointing (inclined, vertical) ...**  
**Antiform (location approximate) ...**  
**Synform (location approximate) ...**  
**Mineral occurrence ...**
- METALS AND MINERALS**
- |                       |                      |
|-----------------------|----------------------|
| Chalcopyrite ..... cp | Molybdenite ..... mo |
| Copper ..... cu       | Nickel ..... ni      |
| Galena ..... ga       | Sphalerite ..... sp  |
| Gold ..... au         | Tungsten ..... w     |
| Manganese ..... mn    |                      |
- Geology by D.J. Tempelman-Kluit 1970, 1971, 1972
- To accompany Paper 73-41 by D.J. Tempelman-Kluit
- This preliminary edition may be subject to revision and correction
- 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 at the same scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources in 1971
- Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa
- Magnetic declination 1973 varies from 29°40' easterly at centre of west edge to 31°09' easterly at centre of east edge. Mean annual change 3.6' westerly
- Elevations in feet above mean sea-level
- PERMIAN(?) AND/OR TRIASSIC(?)**
- Pc LIMESTONE: white weathering, light grey, massive coarsely crystalline marble
  - Ppt ARGILLACEOUS CHERT: interbedded brown argillite, cherty slate and quartzite
  - Ppl HORNFELS: purplish brown fine-grained hornfels
  - PMub DUNITE: dun-brown weathering, massive, resistant, black and dark green, partly serpentinized dunite and harzburgite
  - PMb GABBRO: dark weathering, medium-grained, equigranular hornblende gabbro; may include PMv undifferentiated
  - PMv MASSIVE GREENSTONE: dark green, massive aphanitic epidotized basalt; includes gabbro (PMb), undifferentiated
  - PMpr PERIDOTITE: dun-brown weathering, dark green to black, partly serpentinized massive harzburgite; may include volcanic rocks (PMv) undifferentiated
  - Pv SHEARED GREENSTONE: sheared and foliated greenstone and related volcanic rocks, minor cherty tuff
- PALEOZOIC(?) AND/OR MESOZOIC**
- EPqc NASINA QUARTZITE: black-weathering, massive, dark grey to black graphitic quartzite with lesser grey micaceous quartzite and quartz mica schist. Commonly shows alternating light and dark colour lamination. May include undifferentiated granitic rocks west of Onion Creek
  - EPsb BIOTITE SCHIST: brown grey weathering, recessive, chlorite muscovite biotite quartz schist and micaceous quartzite; garnetiferous; minor amphibolite, marble and skarn
  - EPm AMPHIBOLITE: dark grey to black weathering amphibolite; includes minor granitic and metamorphic rocks of surrounding map-units
  - EPgd FOLIATED BIOTITE GRANODIORITE: foliated to gneissic biotite granodiorite; minor interfoliated phyllite, schist and amphibolite
  - EPsb SCHIST: biotite schist and gneiss
  - EPps PHYLLITE: silvery grey muscovite chlorite quartz phyllite
  - EPqm KLONDIKE SCHIST: black and orange weathering well foliated pale green chlorite muscovite quartz schist; includes augen gneiss and amphibolite
  - EPm SCHIST GNEISS: brownish weathering, grey muscovite biotite-quartzite and quartz feldspar mica schist; includes amphibolite and augen gneiss and minor marble undifferentiated; includes rocks of Pelly Gneiss and Klondike Schist undifferentiated
  - EPgd PELLY GNEISS: strongly foliated to gneissic muscovite chlorite biotite granodiorite; minor augen gneiss; grades locally to garnetiferous amphibolite
- PROTEROZOIC AND/OR PALEOZOIC**



MAP 16-1973  
PAPER 73-41  
GEOLOGY  
**SNAG**  
YUKON TERRITORY  
Scale 1:250,000

Miles 4 0 4 8 12 Miles  
Kilometres 6 0 6 12 18 Kilometres

Universal Transverse Mercator Projection  
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