

QUATERNARY
 Q Unconsolidated alluvium, colluvium and glacial deposits

INTRUSIVE ROCKS
PENNSYLVANIAN AND/OR PERMIAN
 PPum Yellow-green weathering, pale green to tan, variably serpentinized ultramafic rock. Texture varies from scaly and foliated to massive, with pseudomorphs after orthopyroxene. Intrusive contacts locally preserved. Nephrite jade locally developed near basal contact.

LAYERED ROCKS
MID-PERMIAN
 mPcgl Red-brown to pale green matrix- and framework-supported polymictic conglomerate, pale green sandstone and lesser dark grey shale. Conglomerate clasts include porphyritic basalt, aphyric massive basalt, chloritic phyllite, quartz-mica phyllite, siliceous carbonaceous phyllite, carbonate, white bull quartz and chert. Clasts of serpentinite, blueschist and eclogite have been reported from this unit elsewhere (Mortensen, Erdmer and Ghent, 1997). Mid-Permian conodonts have been reported from this unit in Watson Lake map area (J. Mortensen, pers. comm., 2000).

unconformity?
PENNSYLVANIAN
 Pd Dark grey to black carbonaceous argillite, dark grey chert, dark grey matrix-supported diamictite, grey chert-pebble conglomerate, grey-brown, poorly sorted, quartzofeldspathic greywacke, uncommon tan quartz sandstone. Uncommon limestone-pebble conglomerate at base.

unconformity?
 Pc Massive to thickly bedded, light to medium grey, light grey-weathering marble. Locally crinoidal. Pennsylvanian to Early Permian conodonts have been reported from this unit elsewhere (Orchard, M. in Gordey and Makepeace, 1999).

MISSISSIPPIAN
 Mvcl Medium to dark grey, hard argillite and lesser gritty quartzofeldspathic sandstone. Includes laterally variable amounts of pale to medium green chlorite-muscovite-feldspar-quartz phyllite (intermediate meta-volcanic rocks) identical to unit Mv.
 Mv Light to medium green, locally quartz- and feldspar-phylic intermediate meta-volcanic rocks. A Mississippian U-Pb age has been reported for this unit elsewhere (Mortensen, 1992).
 Mch Dark grey argillite and chert
 Mgc Pale to olive green, locally magnetite-bearing chert and argillite
 Mc Light grey-weathering, light to medium grey massive marble
 Me Coarse-grained metamorphic rocks including muscovite schist and pale to dark green garnet, pyroxene- and magnetite-bearing meta-basalt. This unit is thought to have been metamorphosed to eclogite facies (Erdmer et al., 1998). Also includes chert, chert-pebble conglomerate and dark argillite with uncertain contact relationships with the coarse-grained metamorphic rocks. White mica from this rock unit yielded an integrated $^{40}\text{Ar}/^{39}\text{Ar}$ age of 345 ± 1 Ma age (Erdmer et al., 1998).

SYMBOLS

Geological contacts (defined, approximate, inferred, covered).....
 Fault (defined, approximate, inferred, covered).....
 Limit of outcrop.....
 Limit of mapping.....
 Bedding.....
 Compositional layering.....
 Dominant foliation (inclined, vertical).....
 Fold axial surface trace (anticline: upright, overturned; syncline: upright, overturned).....
 Line of cross-section.....

MINERAL OCCURRENCES
 Yukon Minfile (1997)

105H 014 Δ KING ARCTIC jade, asbestos

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RECOMMENDED CITATION

MURPHY, D.C., 2000. Preliminary geological map of part of Klatsa River area (105H/3), southeastern Yukon (1:50 000 scale). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 2000-15.

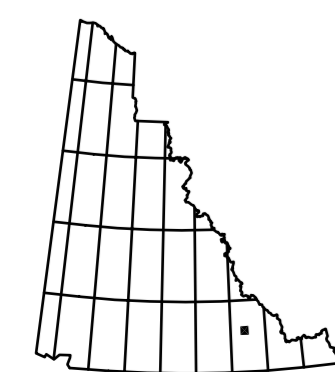
Digital cartography and drafting by D.C. Murphy, Yukon Geology Program.

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geology Program.

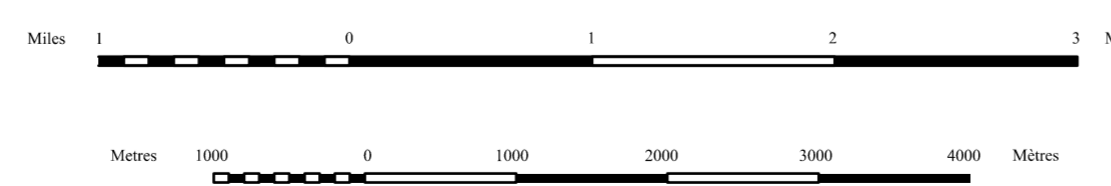
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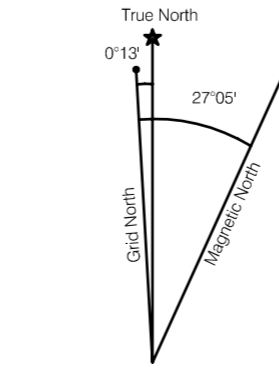
KLATSA RIVER
YUKON TERRITORY
SCALE 1:50 000



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ONE THOUSAND METRE
 Universal Transverse Mercator Grid
 ZONE 9



CONTOUR INTERVAL 20 METRES
 Elevations in metres above Mean Sea Level
 North American Datum 1983
 Transverse Mercator Projection



Use diagram to obtain numerical values
 APPROXIMATE MEAN DECLINATION 2000
 FOR CENTRE OF MAP
 Annual change decreasing 5.1"

105 H/5	105 H/6	105 H/7
105 H/4	105 H/3 THIS MAP	105 H/2
105 A/13	105 A/14	105 A/15

Indian and Northern Affairs Canada
 Exploration and Geological Services Division
 Yukon Region
 Open File 2000-15
**Preliminary geological map of part of
 Klatsa River area (105H/3),
 southeastern Yukon (1:50 000 scale)**
 by
 Donald C. Murphy
 Yukon Geology Program