

TERTIARY

T_q White-weathering, aphanitic to fine-grained, locally flow-banded **quartz-feldspar porphyry**.

CRETACEOUS

ANVIL PLUTONIC SUITE

mK_U Grey, resistant, generally medium- to coarse-grained, locally megacrystic, undifferentiated **granite to granodiorite**.

mK_M Majorite phase - **blotite + hornblende granite to granodiorite**. Characterized by phenocrysts of smoky grey quartz and white feldspar.

mK_O Orchay phase - **blotite + hornblende granite to granodiorite**.

mK_M Mount Mye phase - **blotite-muscovite granite**. Locally foliated.

TRIASSIC

T_q Resistant, massive, polymictic **conglomerate**. Clasts include quartzite, chert, limestone, and serpentinite. Matrix contains detrital muscovite.

T_q Dark grey carbonaceous, locally calcareous **shale or siltstone** interbedded with medium to dark grey, fine-grained **limestone**.

T_q Grey, green, red, or black **bedded chert**.

T_q Interbedded **cherty argillite, chert, sandstone, and mafic greywacke or conglomerate**.

T_q Massive, dark green, fine-grained to aphanitic **basalt**. Occurs within Vangorda Creek fault zone; may be equivalent to Anvil Range Group basalt.

PALEOZOIC

YUKON-TANANA COMPLEX

P_Y Medium to dark grey, locally grifty **muscovite meta-quartzite to quartzose schist**. Contains bands of greywacke, gabbro, phyllite. Rarely contains eclogite lenses.

P_Y Grey to tan, massive **limestone or dolomite**.

P_Y Medium to dark olive green, **chlorite phyllite to amphibolite**. Locally displays relict equigranular igneous texture. Locally includes ultramafic and/or eclogite (P_Yg). Contains lesser beds of medium to dark grey muscovitic quartzite to quartzose schist.

P_Yg Granitic **orthogneiss**, locally with feldspar augen.

PERMIAN

ANVIL RANGE GROUP

PARG₅ Epitotized, locally hematitic, dark green, resistant, massive, poorly foliated **basalt or brecciated basalt**. Contains lesser grey, green, red, and black bedded chert and pale green siltstone/sandstone conglomerate.

PENNSYLVANIAN

MOUNT CHRISTIE FORMATION ?

Pale green, tan-weathering, **bedded phyllite chert** interbedded with lesser maroon chert and argillite, especially near top of unit. Also contains minor black bedded chert, black chert pebble conglomerate, siltstone, limestone and argillite. May be broadly similar to and lithologically equivalent to Mount Christie Formation.

DEVONIAN-PENNSYLVANIAN

UNDIVIDED MOUNT CHRISTIE FORMATION and EARN GROUP

DPW₅ Dark grey to black, pale green, and maroon, noncalcareous **argillite and bedded chert** with lesser grey siltstone, sandstone, chert pebble conglomerate, and limestone.

DEVONIAN-MISSISSIPPIAN

EARN GROUP

DME Dark grey to black, noncalcareous, siliceous **argillite and bedded chert** with lesser grey siltstone, sandstone, chert pebble conglomerate, and rhythmically bedded limestone.

DME₁ Silvery cream, tan-weathering, **bedded phyllitic chert** with light grey **barite** beds.

DME₂ Pale green, noncalcareous **argillite and bedded chert** with lesser pale green shale chip and siltstone breccia, medium to dark grey sandstone, and grey to green chert pebble conglomerate. Locally contains maroon argillite and bedded chert, especially near bottom and top of unit.

ORDOVICIAN-DEVONIAN

UNDIVIDED ROAD RIVER GROUP

ODRR₄ Dark grey to black **argillite** with lesser medium to pale grey siltstone and fine sandstone, medium grey limestone, and basalt flows. Upper part of unit locally contains middle Devonian limestone beds with 2-hole crinoid macrofossils. Includes Duo Lake Formation and unnamed Devonian sedimentary rocks. Steel Formation is not present.

QUARTZ ARENITE and DOLOSTONE

ODRR Massive, medium-grained, **quartz arenite** interbedded with pale tan-weathering limestone or dolomite. Interbedded with units OSDL, ODRRal, and OSMC₅.

ORDOVICIAN-SILURIAN

ROAD RIVER GROUP

STEEL FORMATION

SS Tan to orange-weathering, dolomitic, bioturbated, **ally mudstone**. Not differentiated southwest of the Anvil Batholith.

DUO LAKE FORMATION

OSDL Dark grey to black, graphitic **argillite**. Contains lesser medium to pale grey siltstone and fine sandstone, medium grey limestone, and basalt flows.

MENZIE CREEK FORMATION

OSMC₁ Undivided dark grey green, foliated **basalt**. Includes massive and pillowed, locally amygdaloidal flows and heterolithic or monolithic breccias with lesser limestone, argillite, and tuff. Interbedded with undivided Road River Group (ODRRal), Duo Lake Formation (OSDL), ODQd, and Vangorda Formation (COV).

OSMC₂ Dark grey green, locally amygdaloidal, **massive and pillowed basalt** with minor monolithic basalt breccia, volcanoclastic sandstone, siltstone, and tuff. Interbedded with undivided Road River Group (ODRRal), Duo Lake Formation (OSDL), ODQd, and Vangorda Formation (COV).

OSMC₃ Dark grey green, monolithic **basalt breccia** with lesser volcanoclastic sandstone, siltstone and tuff, and massive and pillowed flows. Interbedded with undivided Road River Group (ODRRal), Duo Lake Formation (OSDL), ODQd, and Vangorda Formation (COV).

OSMC₄ Grey to off-white **limestone** locally interbedded with orange-weathering **dolomite**.

OSMC₅ Dark green, locally magnetic, coarse- to fine-grained, massive to foliated **gabbro**. Subvolcanic dykes and sills to Menzie Creek basalt (OSMC₅) in Vangorda (COV) and Mount Mye (UPCMM) formations. Enclosing phyllites locally display fine contact metamorphic aureoles.

OSMC₆ Dark green, locally magnetic, coarse-grained, massive to foliated, variably serpenitized **gabbro**. Subvolcanic dykes and sills to Menzie Creek basalt (OSMC₅) in Vangorda (COV) and Mount Mye (UPCMM) formations. Enclosing phyllites locally display this contact metamorphic aureoles.

CAMBRIAN-ORDOVICIAN

VANGORDA FORMATION

COV₁ Soft, silvery grey, **calcareous phyllite** with lesser medium crystalline grey marble (COV₁), dark grey to black phyllite (COV₂), and dark green gabbro dykes and sills (OSMC₂). Greenish-tan facies equivalent of calc-silicate (COV₁). Regionally correlated with Rabbitkettle Formation.

COV₂ Pale green and dark purplish brown, thinly bedded **calc-silicate** with lesser black schist (COV₂), marble (COV₁), and dark green gabbro dykes and sills (OSMC₂). Amphibolite facies equivalent of calcareous phyllite (COV₁). Regionally correlated with Rabbitkettle Formation.

COV₃ Black, locally calcareous, **carbonaceous phyllite or schist**. Commonly contains thin quartzose siltstone interbeds. Interbedded with dark green gabbro dykes and sills (OSMC₂).

COV₄ Pale to dark grey, foliated **limestone to marble**.

UPPER PROTEROZOIC-CAMBRIAN

MOUNT MYE FORMATION

UPCMM₁ Brownish grey, noncalcareous, pervasively foliated **phyllite**. Locally indistinctly bedded. Contains minor siltstone, limestone/marble, calc-silicate, and carbonaceous phyllite beds and dark green gabbro dykes and sills. Regionally correlated with Gull Lake Formation.

UPCMM₂ Brownish grey, noncalcareous, pervasively foliated **muscovite-biotite schist**. May contain staurolite, garnet, andalusite, or fibrolite. Locally indistinctly bedded. Contains minor siltstone, limestone/marble, calc-silicate, and carbonaceous phyllite beds and dark green gabbro dykes and sills. Regionally correlated with Gull Lake Formation.

UPCMM₃ Interbedded pale green **calc-silicate** and purplish brown biotite phyllite. Contains thin, medium to dark grey marble and siliceous marble beds and dark green gabbro dykes and sills. Lithologically similar to Vangorda calc-silicate.

UPCMM₄ Dark to pale grey, medium crystalline **marble**. Typically contains abundant boudins of calc-silicate and/or quartz. Locally contains coarsely crystalline garnet-pyroxene skarn.

UPCMM₅ Black **phyllite to schist**. Locally contains lenses and beds of black carbonaceous limestone and dark green gabbro dykes and sills.

COMPILATION SOURCES

SYMBOLS

Geological contact (defined, approximate, assumed).....

Fault or vein-fault, displacement unknown (defined, approximate, assumed).....

Thrust fault (defined, approximate, assumed, teeth on hanging wall).....

Normal fault (defined, approximate, assumed, dot on downthrown side).....

Strike-slip fault (defined, approximate, assumed).....

Fold surface axial trace (upright anticline, syncline, overturned anticline, syncline).....

Metamorphic boundary (symbol on higher grade side).....

Bedding (tops not known).....

Foliation (one tick indicates earliest phase of deformation, two or more indicates subsequent phase(s) of deformation).....

Foliation (phase of deformation unknown).....

Lineation (one arrow indicates earliest phase of deformation, two or more indicates subsequent phase(s) of deformation).....

Joint.....

Igneous compositional banding.....

Igneous mineral lineation.....

Fault plane orientation, shear band (C-bands) orientation.....

Shear band plane of flattening (S bands).....

Mineral lineation/rodding associated with shear bands.....

Apparent dip of measured bedding, foliation (in cross-section).....

Foliation form lines in cross-section.....

Limit of outcrop, subcrop.....

Projection to surface of mineral resource.....

Limit of mapping.....

Isotopic age determination sample location and age (includes radiometric age, 2 sigma error, and sample number).....

Fossil sample, includes sample number and reference.....

Geochronological sample-whole rock with major oxides, minor and trace elements, includes assay number and reference.....

Survey control station with station name and elevation (in metres).....

Diamond drill hole collar (overburden depth/total depth) in metres.....

Rotary drill hole collar (overburden depth/total depth) in metres.....

Field station.....

Trench.....

Line of cross-section.....

MINERAL OCCURRENCES Yukon MINFILE (1997)			
105K 34	★	ADAMSON (ACE)	Exploration Target
105K 35	★	TEL	Exploration Target
105K 36	★	BETA	Exploration Target
105K 48	★	ELBCW	Exploration Target
105K 49	★	ST LUCIE	Exploration Target
105K 112	★	STARLIGHT	Exploration Target

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RECOMMENDED CITATION

Pigage, Lee C., 2000. Geological map of Blind Creek (NTS 105K/7 SW), central Yukon (1:25 000 scale). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 2000-8.

Digital cartography and drafting by Lee C. Pigage, Yukon Geology Program.

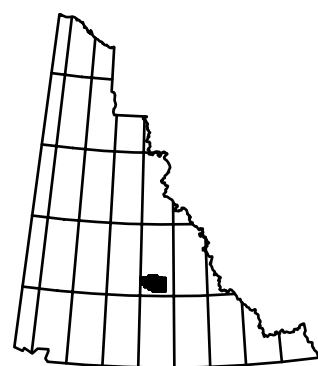
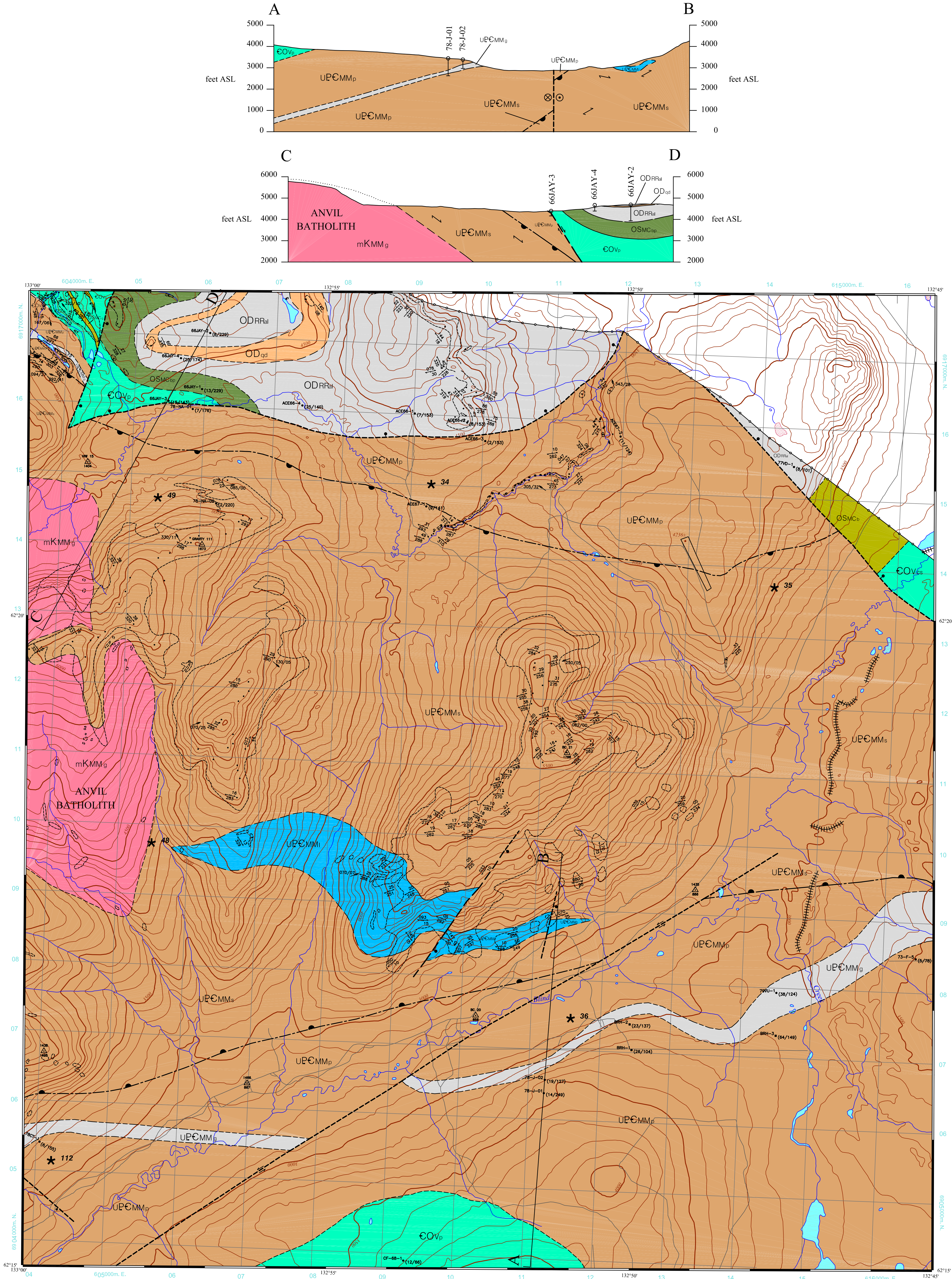
Any revisions or additional geological information known to the user would be welcomed by the Yukon Geology Program.

Copies of this map, the accompanying report and Yukon Minfile may be purchased from the Geoscience Information and Sales, c/o Whitehorse Mining Recorder, Indian and Northern Affairs Canada, Room 102-300 Main St. Whitehorse, Yukon, Y1A 2B5. Ph. 867-667-3296, Fx. 867-667-3297.

Keep this map in a dark area to keep colours from fading.

compiled by

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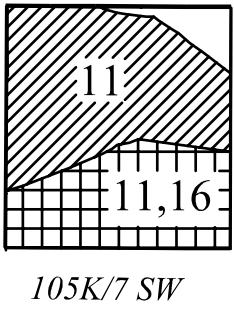
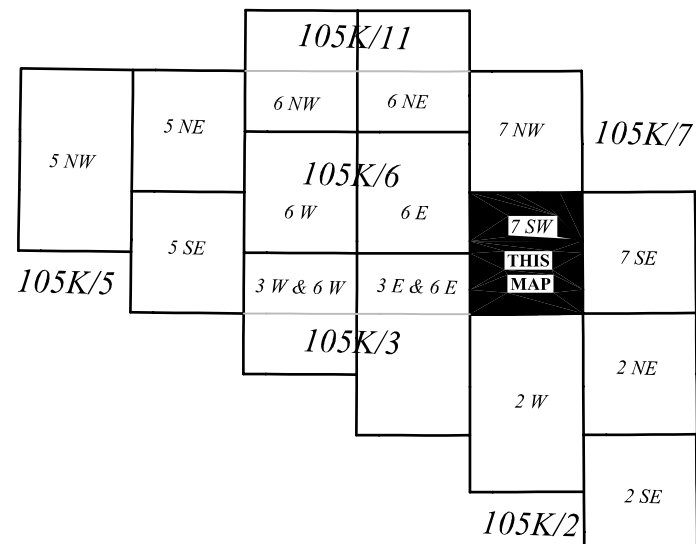
ONE THOUSAND METRE
Universal Transverse Mercator Grid
ZONE 8

Miles 1 0 1
Metres 1000 0 1000 2000

CONTOUR INTERVAL 100 FEET
Elevations in feet above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection

True North
210°
30° 49'
MAGNETIC NORTH
210° 49'

Use diagram to obtain numerical values
APPROXIMATE MEAN DECLINATION 1979
FOR CENTRE OF MAP
Annual change decreasing 4.2'



Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region

Open File 2000-8

Geological Map of Blind Creek
(NTS 105K/7 SW),
Central Yukon (1:25 000 scale)