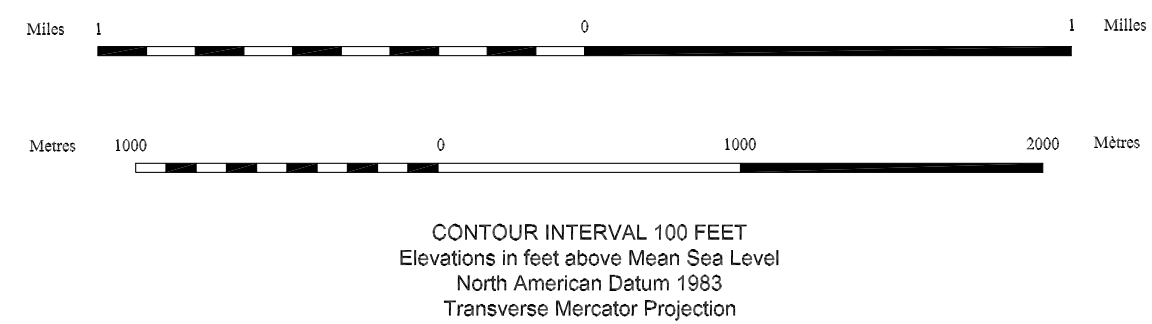
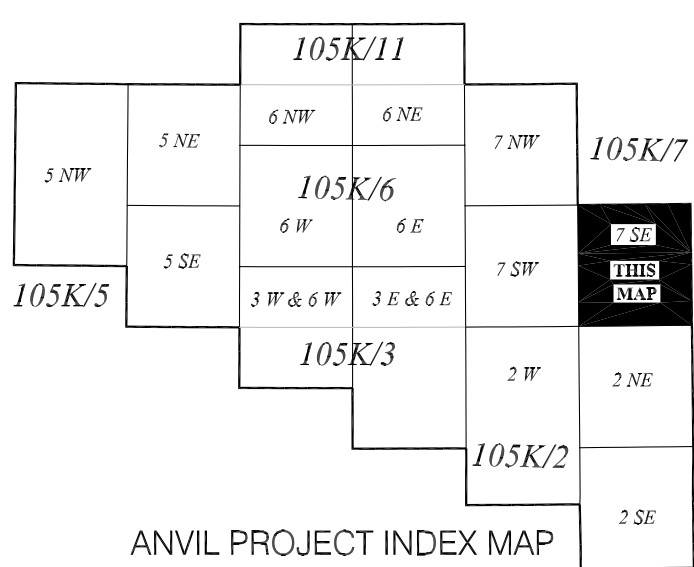


105K/7 SE
YUKON
SCALE 1:25 000



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



INTRUSIVE ROCKS

EOCENE

quartz-feldspar porphyry
white-weathering, aphanitic to fine-grained, locally flow-banded quartz-feldspar porphyry; commonly contains phenocrysts of smoky grey quartz, biotite and white feldspar

CRETACEOUS

granite to granodiorite undifferentiated
grey, resistant, generally medium- to coarse-grained, locally megacrystic, undifferentiated Tay River plutonic suite or Anvil plutonic suite granite to granodiorite

Tay River plutonic suite
Orchay phase - biotite ± hornblende granite to granodiorite

Anvil plutonic suite
Mount Mye phase - biotite-muscovite granite; locally foliated

PERMIAN?

gabbro, harzburgite, serpentinite
mafic and ultramafic intrusive rocks; locally extensively sheared and serpentinitized
P₁ - serpentinite; P₁z - harzburgite; P₂ - gabbro

ORDOVICIAN-SILURIAN

gabbro
dark green, locally magnetic, coarse- to fine-grained, massive to foliated gabbro; subvolcanic dykes and sills to Menzies Creek basalt (OSMCb); enclosing phyllites locally display thin contact metamorphic aureoles

pyroxenite
dark green, locally magnetic, coarse-grained, massive to foliated, variably serpentinitized pyroxenite; subvolcanic dykes and sills to Menzies Creek basalt (OSMCb); enclosing phyllites locally display thin contact metamorphic aureoles

LAYERED ROCKS

YUKON-TANANA TERRANE

TRIASSIC

Faro Peak formation
resistant, massive, polymictic conglomerate; clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite
dark grey carbonaceous, locally calcareous shale or siltstone interbedded with medium to dark grey, fine-grained limestone
interbedded cherty argillite, chert, sandstone and mafic greywacke or conglomerate
normal fault
massive, dark green, fine-grained to aphanitic basalt; may be equivalent to Anvil Range Group basalt

PALEOZOIC

metasedimentary and metavolcanic rocks
medium to dark grey, locally gritty, muscovitic meta-quartzite to quartzose schist; contains bands of greywacke, gabbro, phyllite; rarely contains oolitic lenses
grey to tan, massive limestone or dolostone
medium to dark olive green, chloritic phyllite to amphibolite; locally displays relict eugeoclinal igneous texture; locally includes ultramafic rocks and/or oolite (P₁py)
felsic orthogneiss or paragneiss

SLIDE MOUNTAIN TERRANE

PERMIAN

Campbell Range formation
epidiotized, locally hornblitic, dark green, resistant, massive, poorly foliated basalt or brecciated basalt; contains lesser grey, green, red and black bedded chert, and pale green epivolcaniclastic sandstone or conglomerate

EARLY CARBONIFEROUS-PERMIAN

Rose Mountain formation
pale green, tan-weathering, bedded phyllitic 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

DEVONIAN-PERMIAN

undivided Rose Mountain formation and Mount Aho formation
dark grey to black, pale green, and maroon noncalcareous argillite and bedded chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

DEVONIAN-EARLY CARBONIFEROUS

Mount Aho formation
silvery cream, tan-weathering, bedded phyllitic chert with light grey banded beds
dark grey to black, noncalcareous, siliceous argillite and bedded chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone
pale green, noncalcareous argillite and bedded chert with lesser shale chip and siltstone breccia, grey sandstone and chert-pebble conglomerate; locally contains maroon argillite and bedded chert

ANCIENT NORTH AMERICA

DEVONIAN-EARLY CARBONIFEROUS

Earn Group

dark grey to black, noncalcareous, siliceous argillite with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

SILURIAN

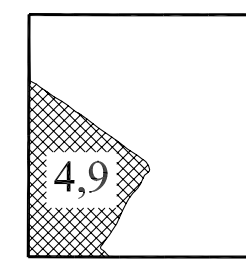
siltstone

dark grey to black, platy, tan-weathering, thinly laminated, dolomitic siltstone

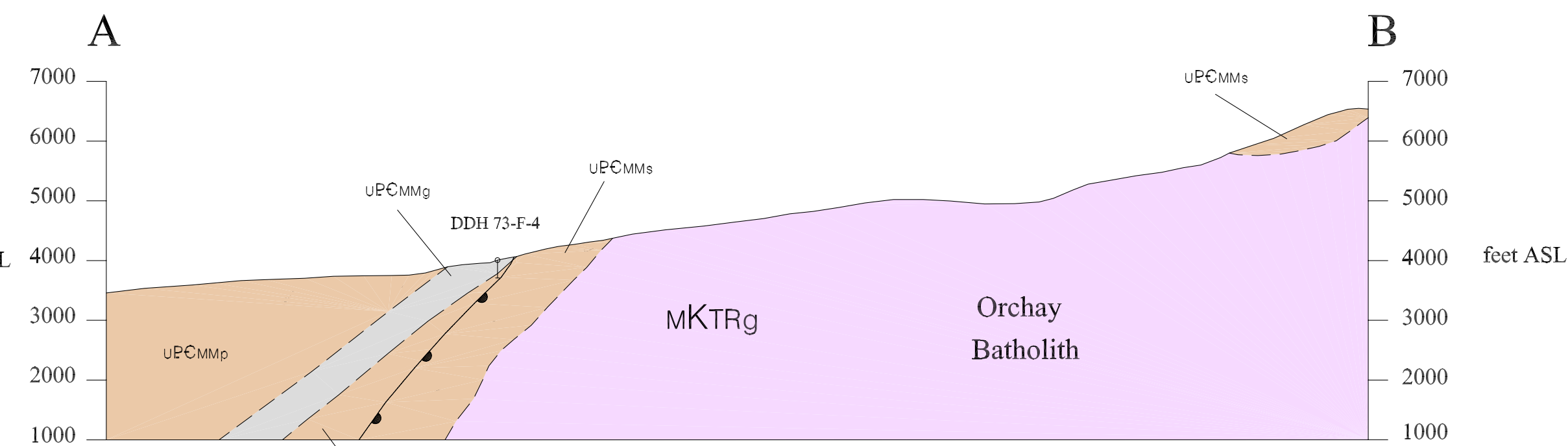
Road River Group
Steel Formation

tan- to orange-weathering, dolomitic, bioturbated, silty mudstone

COMPILATION SOURCES



105K/7 SE



LEGEND

ORDOVICIAN-DEVONIAN

quartz sandstone and dolostone

Massive, medium-grained, quartz sandstone interbedded with pale tan-weathering limestone or dolostone

Road River Group

Duo Lake Formation

dark grey to black, graptolitic argillite; contains lesser medium to pale grey siltstone and fine sandstone, medium grey limestone and basalt flows

Menzies Creek formation

undivided dark grey green, foliated basalt; includes massive and pillowed, locally amygdaloidal flows and heterolithic or monolithic breccias with lesser limestone, argillite and tuff

dark grey green, locally amygdaloidal, massive and pillowed basalt with minor monolithic basalt breccia, volcanoclastic sandstone, siltstone and tuff

dark grey green, monolithic basalt breccia with lesser volcanoclastic sandstone, siltstone and tuff, and massive and pillowed flows

grey to off-white limestone locally interbedded with orange-weathering dolostone

CAMBRIAN-ORDOVICIAN

Vangorda formation

soft, silvery grey, calcareous phyllite with lesser medium crystalline, grey marble, dark grey to black phyllite and dark green gabbro sills and dykes (CS₂)

pale green and dark purplish brown, thinly banded calc-silicate rock with lesser black schist, marble and dark green gabbro dykes and sills (CS₂)
black, locally calcareous, carbonaceous phyllite or schist; commonly contains thin quartzose siltstone interbeds, interbedded with dark green gabbro dykes and sills (CS₂)
pale to dark grey, foliated marble

UPPER PROTEROZOIC-CAMBRIAN

Mount Mye formation

brownish grey, noncalcareous, pervasively foliated phyllite; locally indistinctly bedded; contains minor siltstone, marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (CS₂)

brownish grey, noncalcareous, pervasively foliated muscovitic biotite schist; may contain staurolite, garnet, andalusite, or fibrolite; locally indistinctly bedded; contains minor siltstone, marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (CS₂)

pale green and dark purplish brown, thinly banded calc-silicate rock; contains marble and silicified marble beds and dark green gabbro dykes and sills (CS₂); lithologically similar to Vangorda calc-silicate rock

dark to pale grey, medium crystalline marble; typically contains abundant boudins of calc-silicate rock and/or quartz; locally contains coarsely crystalline garnet-pyroxene skarn

black phyllite to schist; locally contains lenses and beds of black carbonaceous limestone and dark green gabbro dykes and sills (CS₂)

MINERAL OCCURRENCES

Yukon MINFILE

105K/28	★	DOMO	Exploration Target
Decker, R., 2003. Yukon MINFILE - a database of mineral occurrences. Yukon Geological Survey, CD-ROM.			

ISOTOPIC AGE DATES

Sample	Date	System	Mineral	Comments	Ref.
AR18	89±2.5 Ma	Rb-Sr	wr-3 point isochron	invasion cooling age	(7)
GS4-85-30F1	97.4±0.2 Ma	U-Pb	zircon	invasion crystallization	(1,6)

Abbreviations: wr=whole rock

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RECOMMENDED CITATION

Piggle, L.C., 2004. Geological map of Blind Creek (NTS 105K/7 SE), central Yukon (1:25 000 scale). Yukon Geological Survey, Geoscience Map 2004-15, also Plate 15 in Bulletin 15.

This map accompanies the bulletin:

Piggle, L.C., 2004. Bedrock geology compilation of the Anvil District (parts of 105K/2, 3, 5, 6, 7, and 11), central Yukon. Yukon Geological Survey, Bulletin 15.

An earlier version of this map was published as Open File 1999-15 by Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.

The legend shown here is for the entire Anvil District (shown in Plate 2 - Geoscience Map 2004-2). Rock units not present in this map area are not coloured in this legend.

Digital cartography and drafting by L.C. Piggle, Yukon Geological Survey.

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

Paper copies of this map, the accompanying report and Yukon MINFILE may be purchased from the Geoscience Information and Sales, c/o Whitehorse Mining Recorder, P.O. Box 2703, K-1C0, Whitehorse, Yukon, Y1A 2C6. Phone 867-667-5200, Fax 867-667-5150. Email gesales@gov.yk.ca.

A digital PDF (Portable Document Format) file of this map may be downloaded free of charge from the Yukon Geological Survey website at www.geology.gov.yk.ca.

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

Yukon Geological Survey
Energy, Mines and Resources
Yukon Government

Plate 15
Geoscience Map 2004-15
Geological Map of Blind Creek
(NTS 105K/7 SE)
Central Yukon (1:25 000 scale)

compiled by
L. C. Piggle