



## 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

LEGEND

CRETACEOUS

granite to granodiorite undifferentiated

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

MKTRg 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 Ps - serpentinite; Phz - harzburgite; Pg - gabbro

## ORDOVICIAN-SILURIAN

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

dark green, locally magnetic, coarse-grained, massive to foliated, variably serpentinized pyroxenite; subvolcanic dykes and sills to Menzie Creek basalts (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

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 eclogite PYI grey to tan, massive <u>limestone or dolostone</u>

medium to dark olive green, chloritic phyllite to amphibolite; locally displays relict equigranular igneous texture; locally includes ultramafic rocks and/or eclogite (Pygre) Pyog felsic orthogneiss or paragneiss

# SLIDE MOUNTAIN TERRANE

Campbell Range formation

Epidotized, locally hematitic, dark green, resistant, massive, poorly foliated PCR 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

# DEVONIAN-PERMIAN

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

## **DEVONIAN-EARLY CARBONIFEROUS**

Mount Aho formation

silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds dark grey to black, noncalcareous, siliceous argillite and bedded chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

pale green, noncalcareous <u>argillite and bedded chert</u> 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

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

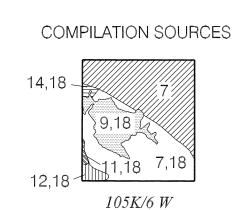
## SILURIAN

Earn Group

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

#### Road River Group Steel Formation

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



	[	MINERAL OCCURRE Yukon MINFILE	
K 59	*	LO	Exploration Target
K 60	*	TAY	Exploration Target
K 61	<b>•</b>	FARO	Past Producer, SEDEX
K 62	*	FLAGSTONE	Exploration Target
K 63	*	BRIDEN	Exploration Target

Deklerk, R., 2003.	Yukon MINFILE-a mineral occurrence database.	Yukon	
Geological Survey	. CD-ROM.		

### 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

#### Menzie 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, volcaniclastic sandstone, siltstone and tuff

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

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

### CAMBRIAN-ORDOVICIAN

Vangorda formation soft, silvery grey, calcareous phyllite with lesser medium crystalline, grey €Ovp marble, dark grey to black phyllite and dark green gabbro sills and dykes (O\$g)

pale green and dark purplish brown, thinly banded <u>calc-silicate rock</u> with lesser black schist, marble and dark green gabbro dykes and sills ( OSg)

black, locally calcareous, carbonaceous phyllite or schist; commonly contains €Ovg thin quartzose siltstone interbeds; interbanded with dark green gabbro dykes 」 and sills (OSg)

€0∨ı pale to dark grey, foliated <u>marble</u>

### UPPER PROTEROZOIC-CAMBRIAN

Mount Mye formation brownish grey, noncalcareous, pervasively foliated <a href="phyllite">phyllite</a>; locally indistinctly UP€MMp bedded; contains minor siltstone, marble, calc-silicate rock, carbonaceous

phyllite and dark green gabbro dykes and sills (  $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$  ) brownish grey, noncalcareous, pervasively foliated muscovite-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 (  $\bigcirc \bigcirc \bigcirc$  ) pale green and dark purplish brown, thinly banded <u>calc-silicate rock</u>; contains marble and silicated marble beds and dark green gabbro dykes and sills

OSa ); 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 ( OSg)

## SYMBOLS

geological contact

(defined, approximate, assumed)...

secondary road, trail, cut line.....

fault or vein-fault, displacement unknown

fault or vein-fault, displacement unknown (defined, approximate, assumed)	D
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)	XX
metamorphic boundary (symbol on higher grade side)	schist
bedding (tops not known)	090
foliation (one tick indicates earliest phase of deformation, two or more ticks indicate subsequent phase(s) of deformation)	090 090 20
foliation (phase of deformation unknown)	090
lineation (one arrow indicates earliest phase of deformation, two or more arrows indicate subsequent phase(s) of deformation)	1 045/05 \$\text{045/05}
joint	<u>090</u> 20
igneous compositional banding	
igneous mineral lineation	<b>7</b> 045/05
fault plane orientation, shear band (C-bands) orientation	090
shear band plane of flattening (S bands)	090
mineral lineation/rodding associated with shear bands	045/05
apparent dip of measured bedding, foliation (in cross-section)	
foliation form lines in cross-section	/
limit of outcrop, subcrop	
projection to surface of mineralized volume	(ZZ)
limit of mapping	
isotopic age determination sample location and age includes radiometric age, 2 sigma error, and sample number	• $69.3 \pm 0.5 Ma$ GSC70-45
fossil sample, includes sample reference number	f GC-98-05
barren fossil sample, includes sample reference number	(X) GC-98-05
geochemical sample-whole rock with major oxides, minor and trace elements, includes assay number and reference	■ A098, (1)
survey control station with station name and elevation (in metres)	HIW10
diamond drill hole collar (overburden depth/ total depth) in metres	70X-01 <sub>°</sub> (15/100
rotary drill hole collar (overburden depth/ total depth) in metres	70RH-01 <sub>□</sub> (15/100
field station	•
trench	$\sim$
line of cross-section	A B
primary road	

		ISOT	OPIC AGE D	ATES	
Sample	Date	System	Mineral	Comments	Re
GSC67-47	102±5 Ma	K-Ar	muscovite	metamorphic cooling age	(*
GSC67-48	96±4 Ma	K-Ar	biotite	metamorphic cooling age	(*
GSC72-32	101±4 Ma	K-Ar	biotite	intrusion cooling age	('
GSC92-36	96.7±1.0 Ma	Ar-Ar	biotite	intrusion cooling age	(
GSC92-37	95.6±1.0 Ma	Ar-Ar	biotite	intrusion cooling age	(
GAR1	109.3±1.2 Ma	U-Pb	monazite	intrusion age	(

FOSSILS				
GSC Location No.	Material	Age Range	Ref	
C-304782	conodont	Barren - Indeterminate	(8)	

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## RECOMMENDED CITATION

Pigage, L.C., 2004. Geological map of Mount Mye (NTS 105K/6 W), central Yukon (1:25 000 scale). Yukon Geological Survey, Geoscience Map 2004-7, also Plate 7 in Bulletin 15.

This map accompanies the bulletin:

Northern Affairs Canada.

Pigage, 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 2001-28 by Exploration and Geological Services Division, Yukon Region, Indian and

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

Digital cartography and drafting by L.C. Pigage, 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-102), Whitehorse, Yukon, Y1A 2C6. Phone 867-667-5200, Fax 867-667-5150, Email geosales@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 7 Geoscience Map 2004-7 Geological Map of Mount Mye (NTS 105K/6 W), Central Yukon (1:25 000 scale)

compiled by

L. C. Pigage