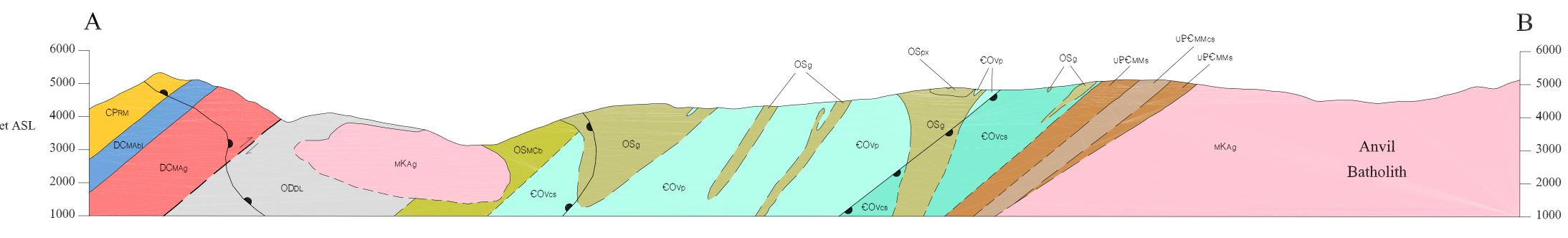


YUKON INDEX MAP





LEGEND

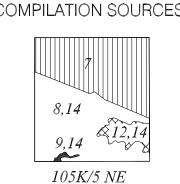
YUKON GEOLOGICAL SURVEY				Energy, Mines and Resources	
					LEC
133°45' 65 66 67	68 _{133°40′} 69	5 70 000m. E. 71 72	73 133°35'	75 76 77 _{133°30′}	INTRUSIVE ROCKS
UP€MMs 0				EOVp 62'	e30' EOCENE quartz-feldspar porphyry white-weathering, aphanitic to fine-grained, locally flow-banded quartz-feldspar porphyry; commonly contains phenocrysts of smoky grey quartz, biotite and white feldspar
UPEMMCs.				270	O CRETACEOUS granite to granodiorite undifferentiated
MKTRg			62 262 295 53 262	UPEMMs	grey, resistant, generally medium- to coarse-grained, locally megacrystic, undifferentiated Tay River plutonic suite or Anvil plutonic suite granite to granodiorite
				UPCMMcs 2	Tay River plutonic suite MKTRg Orchay phase - biotite ± hornblende granite to granodiorite
				OL CIVILOS DE LA CONTRACTOR DE LA CONTRA	Anvil plutonic suite
				UPEMMs UPEMMg	MKAg Mount Mye phase - biotite-muscovite granite; locally foliated PERMIAN?
			0	28	8 mafic and ultramafic intrusive rocks; locally extensively sheared and serpentinized
				3500	Ps - serpentinite; Phz - harzburgite; Pg - gabbro
					ORDOVICIAN-SILURIAN gabbro dark green, locally magnetic, coarse- to fine-grained, massive to foliated gabbro; subvolcanic dykes and sills to Menzie Creek basalts (OSMCb);
		MKAg			enclosing phyllites locally display thin contact metamorphic aureoles pyroxenite
				MKAg	dark green, locally magnetic, coarse-grained, massive to foliated, variably serpentinized <u>pyroxenite</u> ; subvolcanic dykes and sills to Menzie Creek basalts (OSMCb); enclosing phyllites locally display thin contact metamorphic aureoles
	Anvil	5500		26	LAYERED ROCKS YUKON-TANANA TERRANE
250/45	Batholith 6000				TRIASSIC Faro Peak formation
190/32/	6000			25	resistant, massive, polymictic <u>conglomerate</u> ; clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite The conglomerate Clasts include quartzite, chert, limestone Clasts include quartzite, limestone Clasts include quartzite, limestone Clasts include quartzite, limestone Clasts include quartzite, limestone Clasts include quart
UPEMM 130/15 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3					interbedded cherty argillite, chert, sandstone and mafic greywacke or conglomerate
25 100 Per 100 2500	705.74				massive, dark green, fine-grained to aphanitic <u>basalt;</u> may be equivalent to Anvil Range Group basalt
	100 00 00 00 00 00 00 00 00 00 00 00 00			24	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
		155/T0 105 20 20 47×142)		Anvil	Pyq schist; contains bands of greywacke, gabbro, phyllite; rarely contains eclogite lenses Pyl grey to tan, massive limestone or dolostone
		000 6VE-3 (26/37X)		Batholith	medium to dark olive green, <u>chloritic phyllite to amphibolite</u> ; locally displays relict equigranular igneous texture; locally includes ultramafic rocks and/or eclogite (Pygre)
	JPEMMcs OSg	6VE-1 (5XX319) UP€	CMMs	5500	PYog felsic orthogneiss or paragneiss SLIDE MOUNTAIN TERRANE
	Side of the second seco	089	UP€MMcs UP€MMs	B	PERMIAN Campbell Range formation
€OVcs UP€MMs	* 66	EOVcs * 65	OS ₉	222	PCR Epidotized, locally hematitic, 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
OO VCS	£Ovcs •		UPEMMs	62°2	Rose Mountain formation
0058	3		8800 156/11 107 156/11	218/71 184/32 COVCS 21	pale green, tan-weathering, <u>bedded phyllitic chert</u> 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
		080	140/03. 322/08 10 138 UPCN	IMOS OF UPENMS	DEVONIAN-PERMIAN undivided Rose Mountain formation and Mount Aho formation dark grey to black, pale green, and maroon noncalcareous argillite and bedded
		190/04	6 W-3 (8/267) 5	099 37 721 105 COVC\$ 28 72 105	DPRMMA chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone DEVONIAN-EARLY CARBONIFEROUS
MKAQ SED 317008	OSg	155/08	322/03 099 20 310/09	089 096 33 33 20 33 20 33 20 33	Mount Aho formation DCMAba silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds
710 6	€Qvost 30	324/06	COVO COVO X	098 MKTRg	dark grey to black, noncalcareous, siliceous <u>argillite</u> and <u>bedded chert</u> with lesser siltstone, sandstone, chert-pebble conglomerate and limestone
ODDL ***********************************	312/04	4000 4000 338/04	08g 10g 24	MKTR9 8802 098 168/25 098 1088 1088	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
	MILITAGE	€OV _P	OSpx	153/12 78 3160/06 160/18	ANCIENT NORTH AMERICA DEVONIAN-EARLY CARBONIFEROUS
	Rose 38	OSMCb	EOVp /	OSg MKIRg	DCE dark grey to black, noncalcareous, siliceous argillite with lesser siltstone, sandstone, chert-pebble conglomerate and limestone
1000F	240/40 295 66 30 30 30 30 30 30 30 30 30 30 30 30 30	* 115	Creek	OSg COVCS 36.	SILURIAN siltstone
CPRIV DOMADIA DOMADIA SILATIONAL DOMADIA DOMAD	188/28 31 31 31 31 31 31 31 31 31 31 31 31 31	MULTI68-M-1 (4/153) OSMCb	338/20 ODDL	© Oyo	S _{Sp} dark grey to black, platy, tan-weathering, thinly laminated, dolomitic <u>siltstone</u>
235 42 65 65 65 65 65 65 65 65 65 65 65 65 65	0DDL 133°40′ 57000	ODDL QDDL	133°35'	0Sg 17	Road River Group Steel Formation
<u> </u>	<u>57000</u>	105K/5 NE	70 00	133°30'	Ss tan- to orange-weathering, dolomitic, bioturbated, silty mudstone
Topographic base prod SURVEYS AND MAPPING DEPARTMENT OF ENER AND RESOURC	duced by G BRANCH GY, MINES Miles 1	YUKON SCALE 1:25 000	True North 1 Milles	5 NE 6 NW 6 NE 7 NW 105K/7	
Copyright Her Majesty t in Right of Cana	the Queen da Metres 1000	0 1000 2000	Mètres (5)	105K/6 6W 6E 105K/5 3W&6W 3E&6E	COMPILATION SOURCES
ONE THOUSANE Universal Transverse ZONE 8	METRE Mercator Grid	CONTOUR INTERVAL 100 FEET Elevations in feet above Mean Sea Level North American Datum 1983	Gird I	105K/3 2W 2NE	
WZ		Transverse Mercator Projection	Use diagram only to obtain numerical values	105K/2	8 14

Use diagram only to obtain numerical values APPROXIMATE MEAN DECLINATION 1972 FOR CENTRE OF MAP Annual change decreasing 4.0'

ANVIL PROJECT INDEX MAP

ORDOVICIAN-DEVONIAN quartz sandstone and dolostone ODqd Massive, medium-grained, quartz sandstone interbedded with pale tan-weathering limestone or dolostone. lly flow-banded quartz-feldspar noky grey quartz, biotite and Road River Group Duo Lake Formation ined, locally megacrystic, plutonic suite granite to Menzie Creek formation limestone, argillite, and tuff nodiorite ally foliated

sively sheared and Pg - gabbro



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

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

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

dark grey green, monolithic <u>basalt breccia</u> with lesser volcaniclastic sandstone, OSMCbbx 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 COvp marble, dark grey to black phyllite and dark green gabbro sills and dykes (OSg)

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 (OS_g)

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

€Ovi pale to dark grey, foliated <u>marble</u>

UPPER PROTEROZOIC-CAMBRIAN Mount Mye formation

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

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 (OSg)

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 (OSg); 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

line of cross-section...

secondary road, trail, cut line...

primary road....

(defined, approximate, assumed)....

(,	
ault 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)	XXX
metamorphic boundary (symbol on higher grade side)	schist
pedding (tops not known)	<u>090</u> 20
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
ineation (one arrow indicates earliest phase of deformation, wo or more arrows indicate subsequent phase(s) of deformation)	\$\int 045/05 \text{\$\textit{M}} 045/05\$
joint	<u>090</u> 20
gneous compositional banding	<u>090</u> 20
gneous mineral lineation	/ 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	
imit of outcrop, subcrop	(5 (5)
projection to surface of mineralized volume	
imit of mapping	
sotopic age determination sample location and age includes radiometric age, 2 sigma error, and sample number	● 69.3 ± 0.5 Ma GSC70-45
fossil sample, includes sample reference number	f GC-98-05
parren fossil sample, includes sample reference number	(K) 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 _° (15/100
otary drill hole collar (overburden depth/ total depth) in metres	70RH-01 ₀ (15/100)
field station	•
ranah	

	1	MINERAL OCCURR	RENCES
		Yukon MINFII	_E
105K 64	*	JACOLA	Exploration Target
105K 65	*	CROWN	Exploration Target
105K 66	*	LEON	Exploration Target
105K 115	*	MULTI	Exploration Target

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RECOMMENDED CITATION

Pigage, L.C., 2004. Geological map of Rose Mountain (NTS 105K/5 NE), central Yukon (1:25 000 scale). Yukon Geological Survey, Geoscience Map 2004-4, also Plate 4 in Bulletin 15.

This map accompanies the bulletin: 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 2000-13 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.

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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 4 Geoscience Map 2004-4

Geological Map of Rose Mountain (NTS 105K/5 NE) Central Yukon (1:25 000 scale)

> compiled by L. C. Pigage