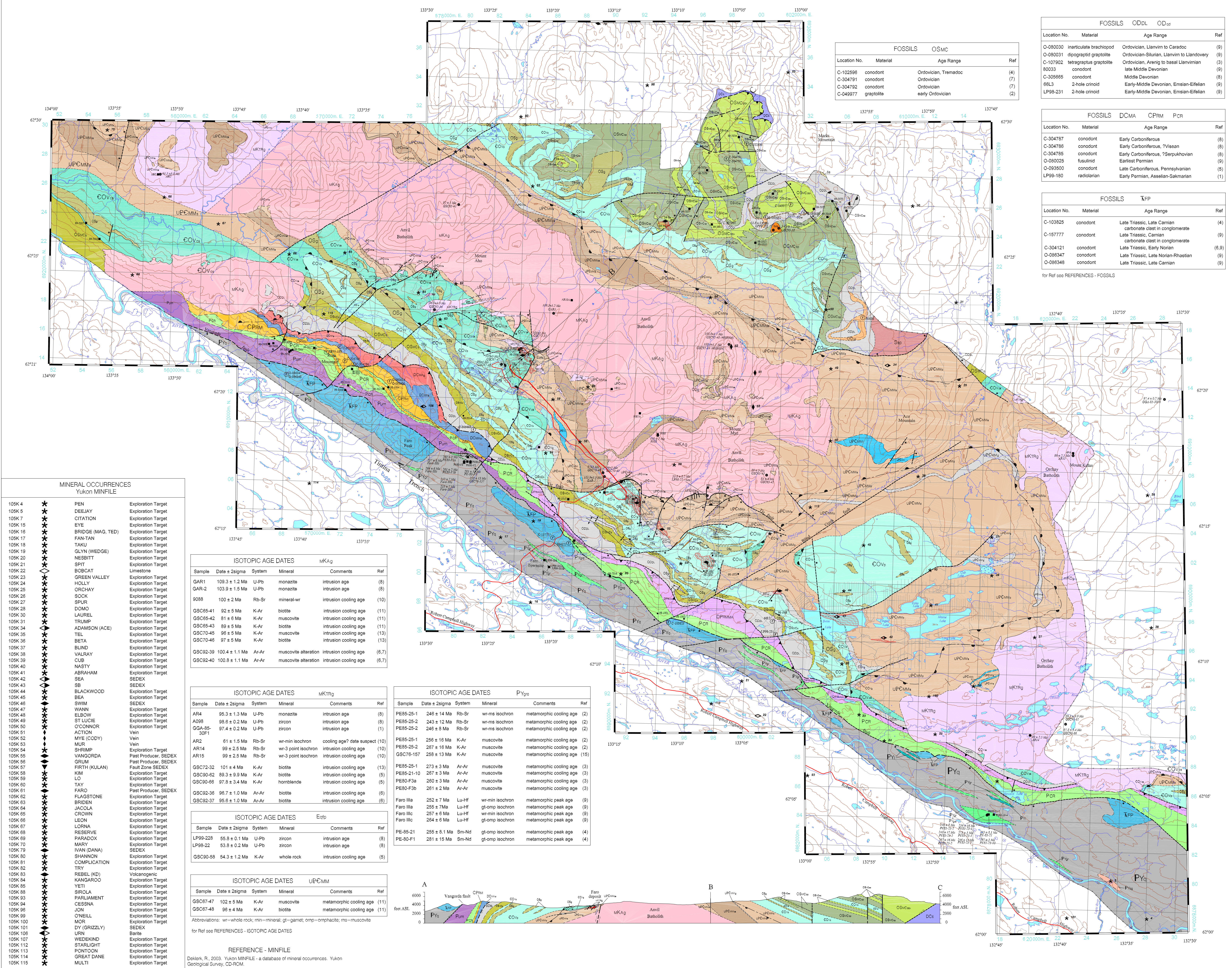
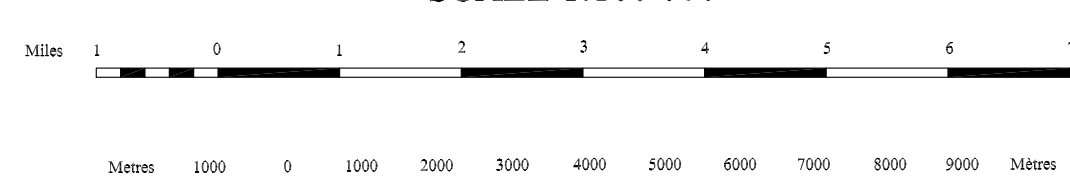


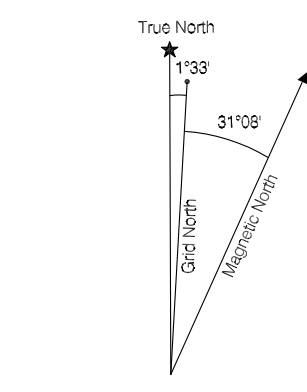


ANVIL DISTRICT (105K/2, 3, 5, 6, 7, 11)

YUKON
SCALE 1:100 000



CONTOUR INTERVAL 500 FEET
Elevations in feet above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection



ANVIL PROJECT INDEX MAP

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

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

CRETACEOUS

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 serpentinized

ORDOVICIAN-SILURIAN

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

LAYERED ROCKS

YUKON-TANANA TERRANE

TRIASSIC

Faro Peak formation
resistant, massive, polymictic conglomerate; interbedded with carbonaceous shale or siltstone, fine-grained limestone, grey, green, red or black bedded chert, sandstone and mafic greywacke, and aphanitic basalt

PALEOZOIC

metasedimentary and metavolcanic rocks

P₁₀ medium to dark grey, locally gritty, muscovite-met-quartzite to quartzose schist; contains bands of greywacke, gabbro, phyllite; rarely contains eclogite lenses
P₁₁ grey to tan, massive limestone or dolostone
P₁₂ medium to dark olive green, chloritic phyllite to amphibolite; locally displays relict equigranular igneous texture, locally includes ultramafic rocks and/or eclogite (P₁₀-P₁₂)
P₁₃ felsic orthogneiss or paragneiss

SLIDE MOUNTAIN TERRANE

PERMIAN

Campbell Range formation
Epizotized, locally hematitic, dark green, resistant, massive, poorly foliated basalt or brecciated basalt; contains lesser grey, green, red and black bedded chert, and pale green volcanoclastic 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
dark grey to black, noncalcareous, siliceous argillite and bedded chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone, contains silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds
DCM₁ 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; contains silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds

ANCIENT NORTH AMERICA

DEVONIAN-EARLY CARBONIFEROUS

Earn Group
DC₁ dark grey to black, noncalcareous, siliceous argillite with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

SILURIAN

siltstone
S₁₀ dark grey to black, platy, tan-weathering, thinly laminated, dolomitic siltstone

Road River Group
Steel Formation
S₈ tan-to orange-weathering, dolomitic, biturbated, silty mudstone

ORDOVICIAN-DEVONIAN

Road River Group
Duo Lake Formation
OD₁ dark grey to black, graptolitic argillite; contains lesser medium to pale grey siltstone and fine sandstone, medium grey limestone and basalt flows

quartz sandstone and dolostone
OD₂ Massive, medium-grained, quartz sandstone interbedded with pale tan-weathering limestone or dolostone

Menzies Creek formation
dark green, locally amygdaloidal, massive and pillowed basalt with minor monolithic basalt breccia; volcaniclastic sandstone, siltstone and tuff
OSMc₁ dark grey green, monolithic basalt breccia with lesser volcaniclastic sandstone, siltstone and tuff, and massive and pillowed flows
OSMc₂ dark grey green, locally amygdaloidal, massive and pillowed basalt with minor monolithic basalt breccia; volcaniclastic sandstone, siltstone and tuff

quartz sandstone and dolostone
OSMc₃ soft, silty grey, calcareous phyllite with lesser medium crystalline, grey marble; dark grey to black phyllite and dark green gabbro dykes and sills (OS₂)

black, locally calcareous, carbonaceous phyllite or schist; commonly contains thin quartzose siltstone interbeds; interbedded with dark green gabbro dykes and sills (OS₂)

black phyllite to schist; locally contains lenses and beds of black carbonaceous limestone and dark green gabbro dykes and sills (OS₂)

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LEGEND

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)
projection to surface of mineralized volume
limit of mapping
isotopic age determination sample location and age includes radiometric age, 2 sigma error, and sample number
fossil sample, includes sample number
geochemical sample, includes sample number
line of cross section
primary road
secondary road, trail, cut line

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RECOMMENDED CITATION

Pigage, L.C., 2004. Geological map of Anvil District (NTS 105K/2, 3, 5, 6, 7, 11), central Yukon (1:100,000 scale). Yukon Geological Survey, Geoscience Map 2004-2, also Plate 2 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.

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.

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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.

An earlier version of this map was published as Open File 2001-31 by Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.

Yukon Geological Survey
Energy, Mines and Resources
Yukon Government

Plate 2

Geoscience Map 2004-2

Geological Map of Anvil District

(NTS 105K/2, 3, 5, 6, 7, 11)

Central Yukon (1:100 000 scale)

compiled by

L.C. Pigage