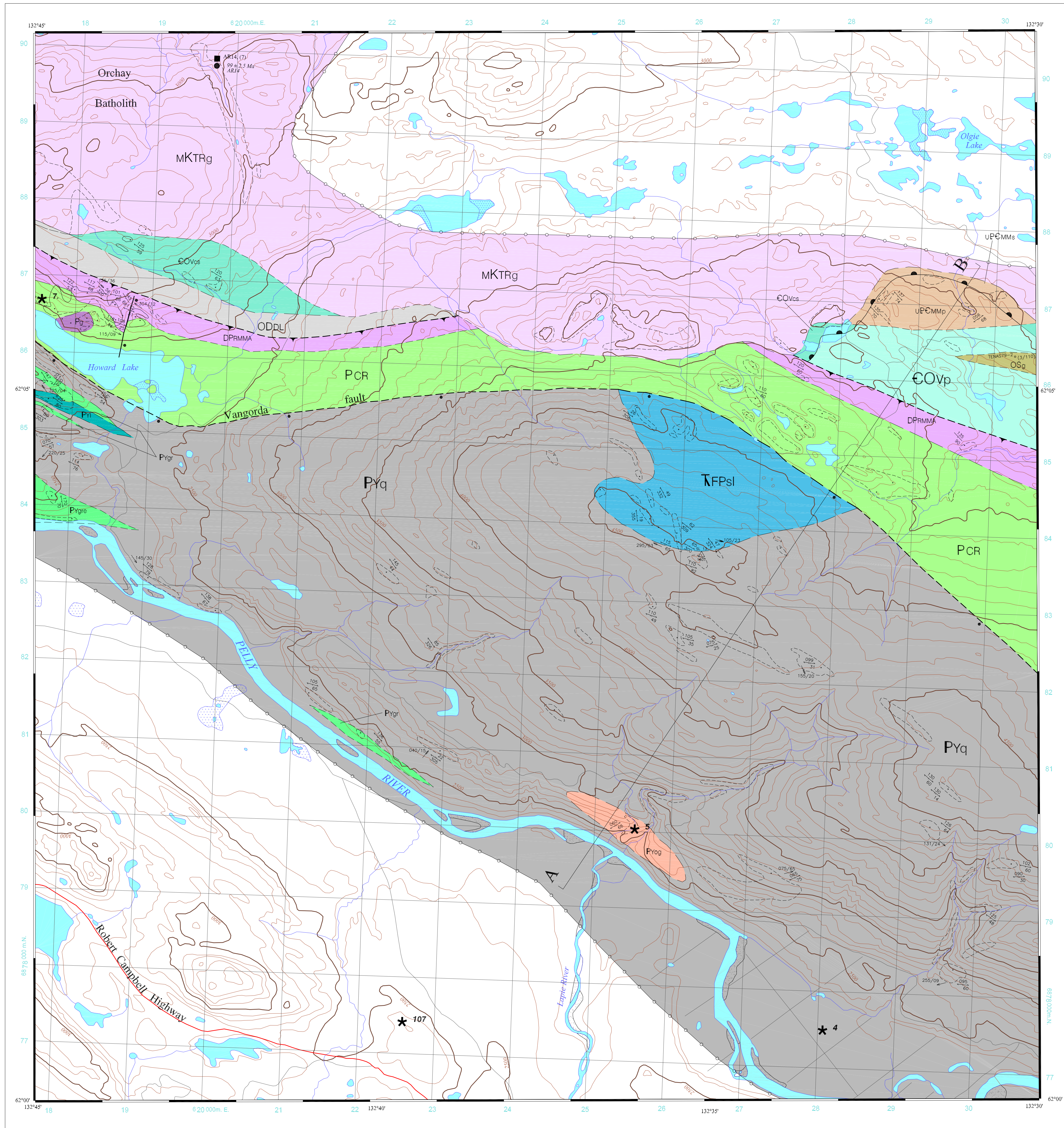
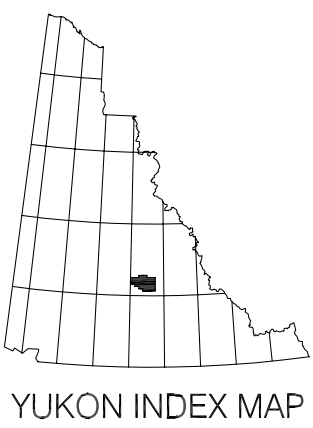
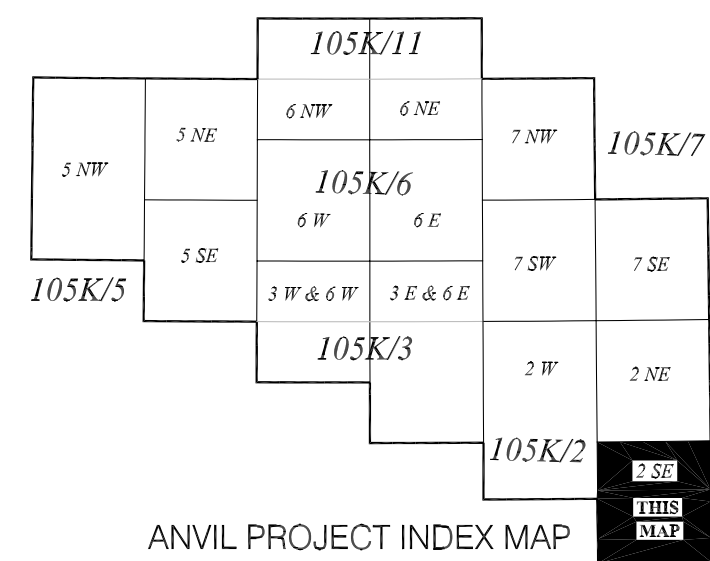
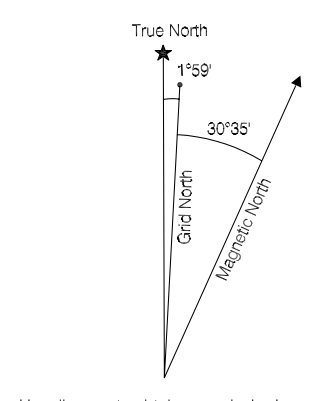
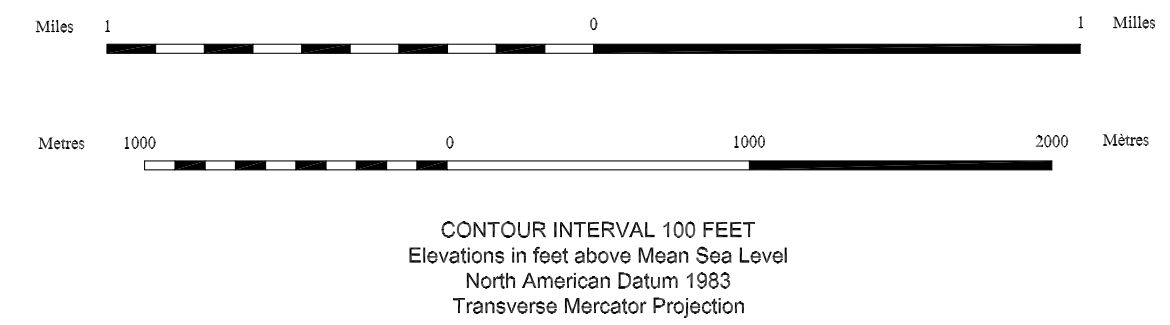




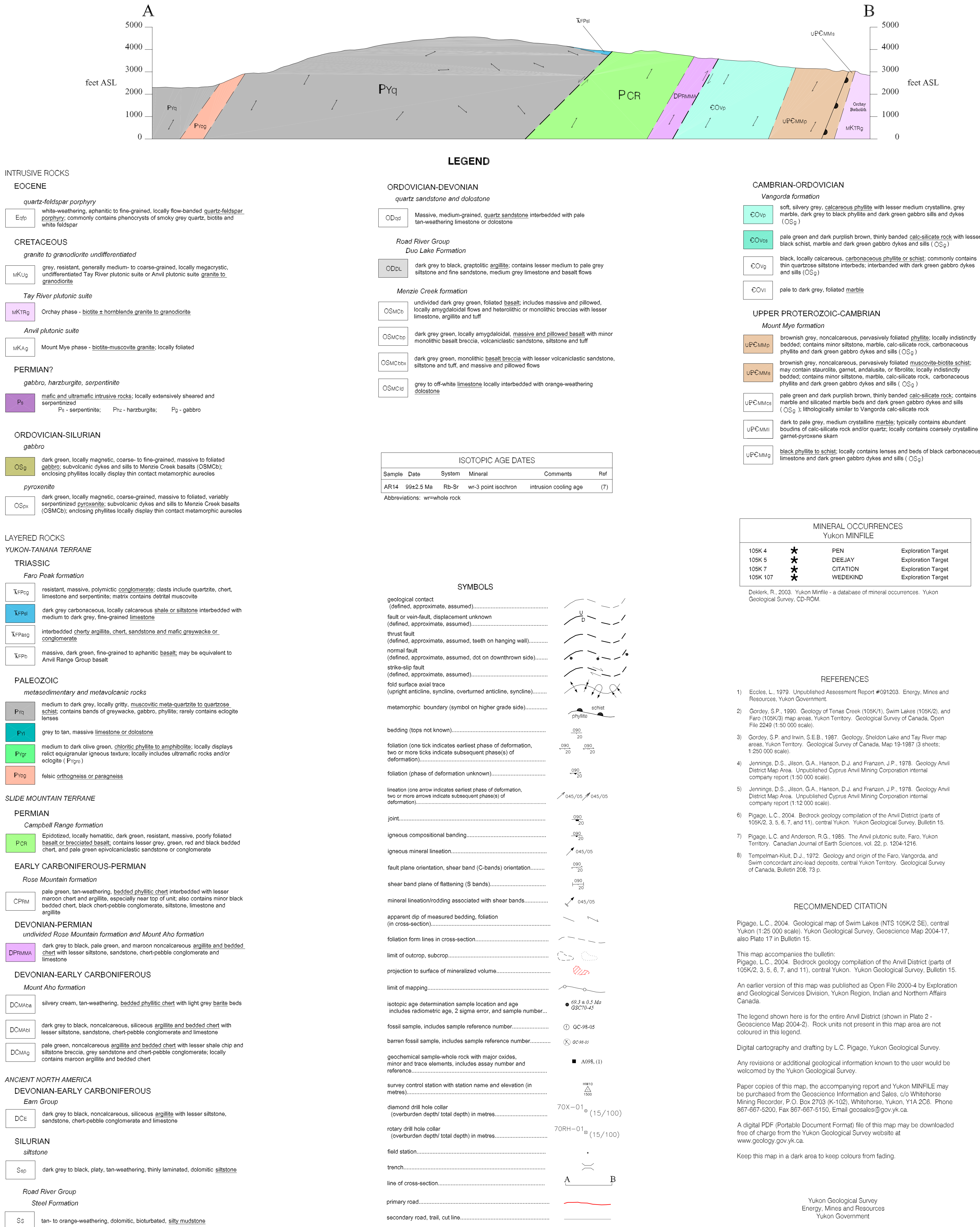
105K/2 SE
YUKON
SCALE 1:25 000



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ONE THOUSAND METRE
Universal Transverse Mercator Grid
ZONE 8

USE DATUM 1983 NORTH AMERICAN DATUM
APPROXIMATE MEAN DECLINATION 1970
FOR CENTRE OF MAP
Annual change decreasing 4"



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

MKTRg Orchard phase - biotite ± hornblende granite to granodiorite

Anvil plutonic suite

MKAq Mount Mye phase - biotite-muscovite granite; locally foliated

PERMIAN?

gabro, harzburgite, serpentinite

Pi mafic and ultramafic intrusive rocks, locally extensively sheared and serpentinitized
Pi - serpentinite; Pli - harzburgite; P2 - gabro

ORDOVICIAN-SILURIAN

gabro

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

pyroxenite

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

LAYERED ROCKS

YUKON-TANANA TERRANE

TRIASSIC

Faro Peak formation

XiPqg resistant, massive, polymictic conglomerate; clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite

XiPsl

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

XiPsg

interbedded cherty argillite, chert, sandstone and mafic greywacke or conglomerate

XiPo

massive, dark green, fine-grained to aphanitic basalt; may be equivalent to Anvil Range Group basalt

PALEOZOIC

metasedimentary and metavolcanic rocks

Piq medium to dark grey, locally gritty, muscovitic meta-quartzite to quartzose schist; contains bands of greywacke, gabro, phyllite; rarely contains eclogite lenses

Pv

grey to tan, massive limestone or dolostone

Pvg

medium to dark olive green, chloritic phyllite to amphibolite; locally displays relict enigmatically igneous texture; locally includes ultramafic rocks and/or eclogite (Pvgs)

Pvg

felsic orthogneiss or paragneiss

SLIDE MOUNTAIN TERRANE

PERMIAN

Campbell Range formation

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 spirocalciclastic sandstone or conglomerate

EARLY CARBONIFEROUS-PERMIAN

Rose Mountain formation

CPRM 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

DCMba silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds

DCMba

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

DCMba

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

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

SILURIAN

siltstone

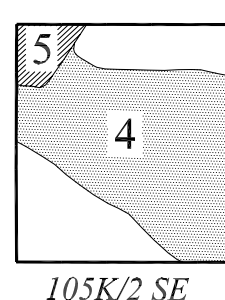
Ssp dark grey to black, platy, tan-weathering, thinly laminated, dolomitic siltstone

Road River Group

Steel Formation

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

COMPILATION SOURCES



LEGEND

ORDOVICIAN-DEVONIAN

Vangorda formation

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

Road River Group

Duo Lake Formation

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

Menzies Creek formation

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

OSMcR

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

OSMcR

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

OSMcR

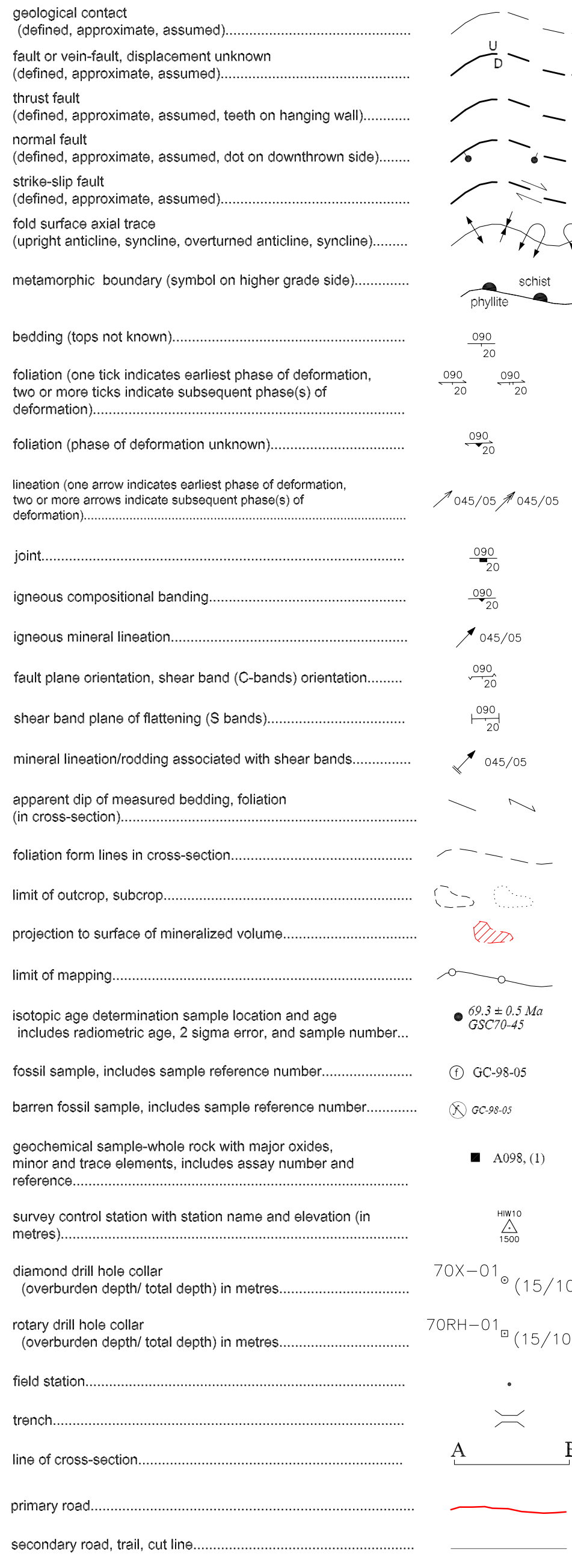
grey to off-white limestones locally interbedded with orange-weathering dolostone

ISOTOPIC AGE DATES

Sample	Date	System	Mineral	Comments	Ref
AR14	99±2.5 Ma	Rb-Sr	wt-3 point isochron	intrusion cooling age	(7)

Abbreviations: w=whole rock

SYMBOLS



CAMBRIAN-ORDOVICIAN

Vangorda formation

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

COvq

pale green and dark purplish brown, thinly bedded calc-silicate rock with lesser black schist, marble and dark green gabbro dykes and sills (OSq)

COvq

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

COvq

pale to dark grey, foliated marble

UPPER PROTEROZOIC-CAMBRIAN

Mount Mye formation

UECMba 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 (OSq)

UECMba

brownish grey, noncalcareous, pervasively foliated muscovite-biotite schist; may contain silicified, gneiss, endosilex, or flintlike, locally indistinctly bedded; contains minor siltstone, marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (OSq)

UECMba

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

UECMba

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

UECMba

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

MINERAL OCCURRENCES

Yukon MINFILE

105K/4	★	PEN	Exploration Target
105K/5	★	DEJAY	Exploration Target
105K/7	★	CITATION	Exploration Target
105K/107	★	WEDEKIND	Exploration Target

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RECOMMENDED CITATION

Pigage, L.C. 2004. Geological map of Swim Lakes (NTS 105K/2 SE), central Yukon (1:25 000 scale). Yukon Geological Survey, Geoscience Map 2004-17, also Plate 17 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 2000-4 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 2004-21). Rock units not present in this map area are not coloured in this legend.

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 17
Geoscience Map 2004-17
Geological Map of Swim Lakes
(NTS 105K/2 SE)
Central Yukon (1:25 000 scale)

compiled by
L. C. Pigage