

LAYERED ROCKS

- Pb dark grey, aphanitic, amygdaloidal to massive basalt
Easc poorly consolidated siltstone, sandstone and conglomerate

TRIASSIC

- Tgr Grayling - Toad Formations (undivided)
gray, red and green shale interbedded with thin-to thick-bedded, brown sandstone and siltstone; locally calcareous

PERMIAN

- Fantasia Formation
dark grey, siliceous, bedded shale; contains lesser than interbeds of limestone, limestone concretions and sandy limestone

EARLY CARBONIFEROUS

- UNDIVIDED pale grey, strongly indurated, fine-grained, quartz sandstone; grey-weathering; locally contains trace amounts of pyrobitumen and detrital muscovite
UPPER MEMBER orange-weathering, grey, calcareous, rippled, very fine-to fine-grained sandstone and siltstone
LOWER MEMBER alternating quartz-rich, fine-grained, well sorted, well indurated sandstone and dark grey to black shale on a scale of 10 to 15 m; local ripples and load casts

DEVONIAN TO EARLY CARBONIFEROUS

- Besa River Formation
dark grey to black, carbonaceous shale, siltstone, bedded chert and siliceous limestone; weathers recessively to pale bluish-grey

DEVONIAN

- Dundin Formation
buff to grey-weathering, medium grey, argillaceous limestone, micritic with the exception of local thin graptolite beds containing two-hole crinoids
medium dark grey to dark grey, thin to thickly bedded, feld dolostone; fossiliferous; local black, discontinuous chert bands and nodules

DEVONIAN

- Muncho-Muncho-Comet-Stone Formations (undivided)
buff to grey-weathering, light to medium grey, thick-bedded, fine-grained, slightly waxy, unfossiliferous dolostone

DEVONIAN

- Nonda-Muncho-MC-Muncho-Comet-Stone Formations (undivided)
buff to grey-weathering, light to medium grey, thick-bedded, fine-grained, slightly waxy, unfossiliferous dolostone and limestone, locally fossiliferous, locally slightly waxy

DEVONIAN

- Road River Group
dark grey to black, sparsely fossiliferous, siliceous, silty shale; weathers as pale grey platelets
dark grey to black, locally calcareous or dolomitic, argillaceous shale or siltstone with lesser very fine-grained sandstone, bedded chert and limestone, weathers recessively

SILURIAN

- Nonda Formation
dark grey, feld, medium- to thick-bedded, fossiliferous dolostone; contains discontinuous lenses and beds of black chert

ORDOVICIAN TO SILURIAN

- grey to buff, quartz-rich sandstone to pebbly sandstone; contains beds up to 2 m thick of heavily burrowed, slightly dolomitic, very fine-grained sandstone and siltstone

ORDOVICIAN

- Sunblossom Formation
mottled, light to dark grey, medium-bedded dolostone; lesser limestone interbeds; weathers light brownish-grey to buff; locally laminated

CAMBRIAN TO ORDOVICIAN

- Crow Formation
cream to pink, indistinctly bedded, quartz sandstone to subarkic sandstone interbedded with maroon to greyish-red, laminated siltstone to argillite; locally contains quartz-sandstone conglomerate and limestone or dolostone interbeds
grey-weathering, thick-bedded, basaltic agillite luffs and breccias interbedded with amygdaloidal to vesicular, pillowed flows, fresh colours are greyish-green with lesser maroon

PROTEROZOIC

- Rabbitkettle Formation
COR thin-bedded, brownish grey, slightly domoic siltstone; uppermost part contains thin interbeds of nodular limestone

PROTEROZOIC

- Toobally Formation
PT dark grey to black, orange-brown weathering, polyimic, matrix-supported conglomerate; matrix mudstone to fine siltstone; clasts dominantly sedimentary sandstone, siltstone and limestone

PROTEROZOIC

- Pa green to grey, locally greyish-red, banded siltstone to argillite with very fine-grained sandstone, sandstone beds, 1 to 5 cm thick, are quartzose, internally laminated and graded; minor green, matrix-supported, volcanoclastic conglomerate beds

PROTEROZOIC

- Pa-bc BASALT CONGLOMERATE MEMBER greyish-red, clast-supported conglomerate; subangular to subround clasts, clasts predominantly basalt with lesser amounts of quartz, carbonate and sandstone; unit is up to 20 m thick

PROTEROZOIC

- Ps white to light grey quartzites; very fine-grained to sugary, massive to fanaly laminated; interbeds of dark grey to black, laminated siltstone

ECONE

- Ting Suite
Eib greyish-red and pale green, aphanitic igneous breccia; xenoliths include Pool Creek syenite, volcanic rocks and quartz sandstone; microphenocrysts of quartz and K-feldspar

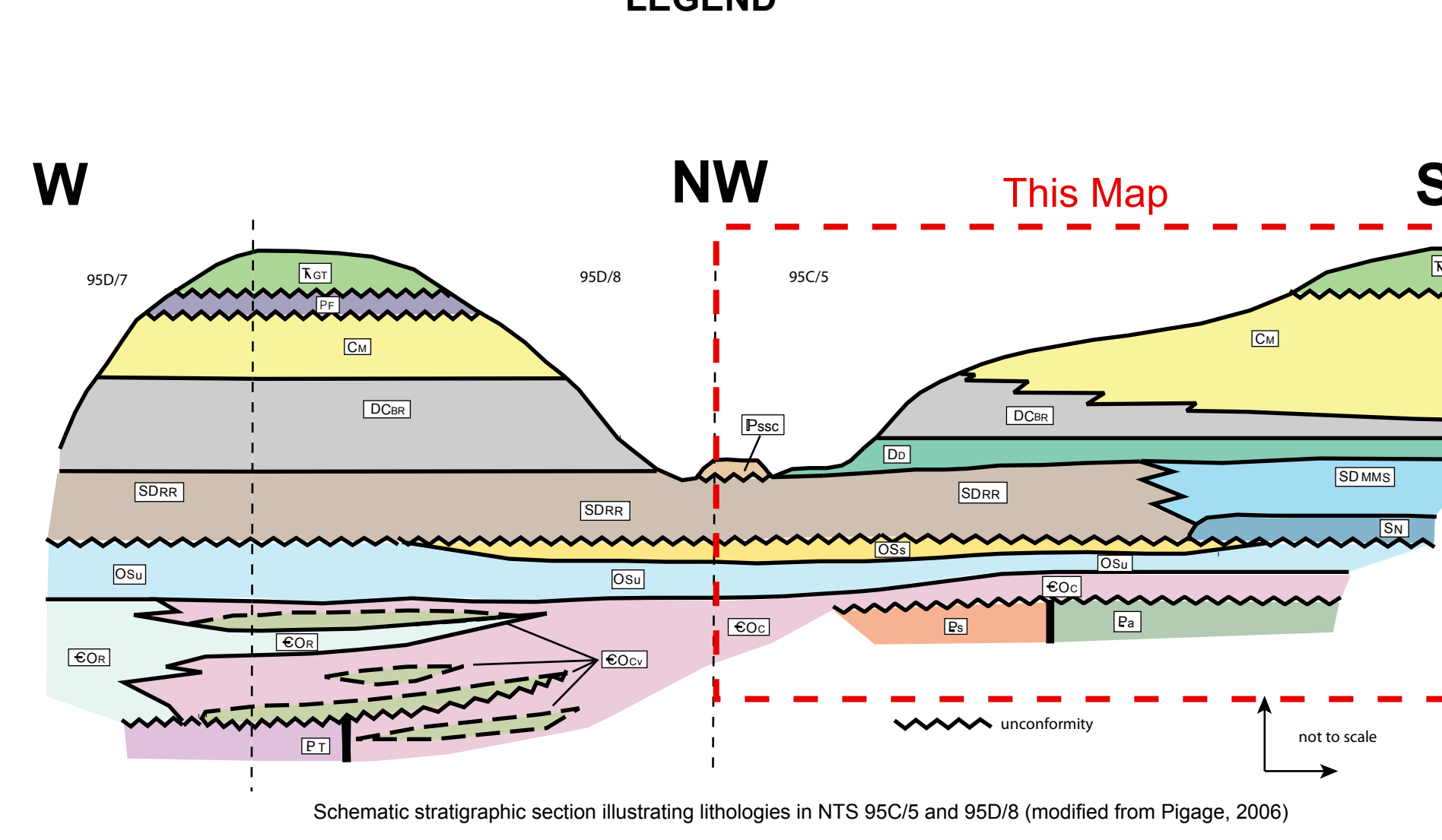
PROTEROZOIC

- Ebay coarsely crystalline, unfoliated syenite; white-weathering K-feldspar and plagioclase with lesser coarse biotite

PROTEROZOIC

- Ppcby POOL CREEK SYENITE: pink, medium to coarsely crystalline, unfoliated nepheline syenite; predominantly randomly oriented pink K-feldspar crystals with lesser subparallel nepheline and minor dark, strongly oriented biotite; associated dikes range from dark grey to distinctly banded pink and dark green

LEGEND



Schematic stratigraphic section illustrating lithologies in NTS 95C/5 and 95D/6 (modified from Pigage, 2006)

Table with 12 columns: Map ID, QGC ID, Field Station, Formation, Lithology, Age, etc. Lists various geological units and their characteristics.

Isotopic Age Dating Samples - Pool Creek map area

Table with 7 columns: Map ID, Lab ID, Field Stn, Unit, Method, Age (Ma), Error (Ma), etc. Lists isotopic age dating samples.

Mineral Occurrences Yukon MINFILE (Deklerk, 2008)

Table with 3 columns: Occurrence ID, Name, and Notes. Lists mineral occurrences in the area.

ACKNOWLEDGEMENTS

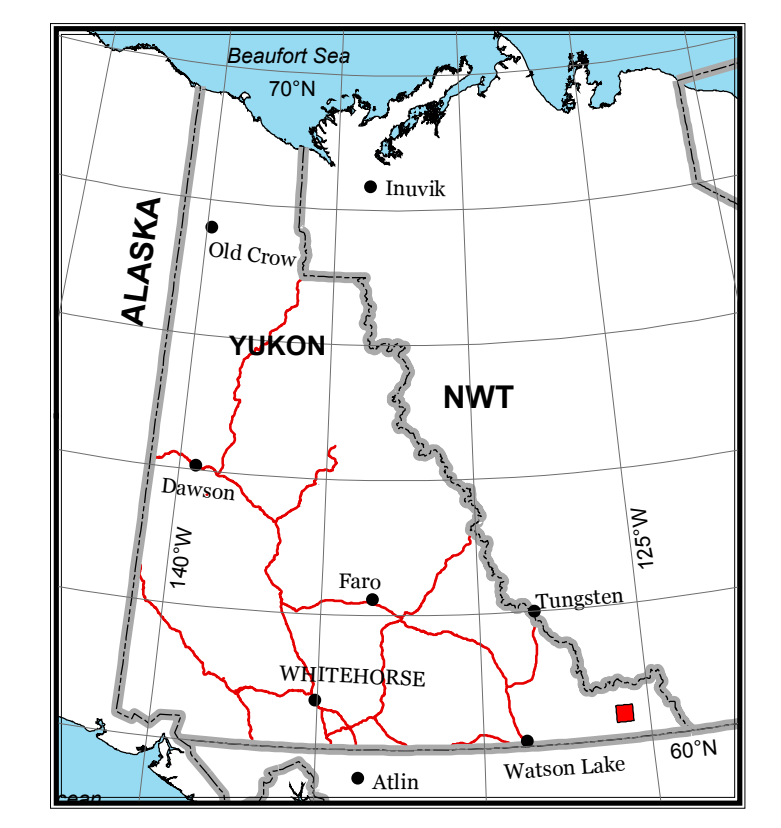
This map is a product of the Central Foreland NATMAP Project which provided logistical support during 2000-2002. Jordyn Barclay, Annie Daigle, Kristen Kennedy, Jesse Kirby, Andre Label, Jami Lloyd, Andrew McNeil and Kyle McWilliam assisted in the field. Tammy Allen worked with the project as senior assistant geologist during 2000-2001. Helicopter support was provided by Talon Helicopters (2000), Wildcat Helicopters (2001), Mustang Helicopters (2002) and Trans North Air (2003-2005).

RECOMMENDED CITATION

Pigage, L. 2008. Geological map of the Pool Creek area (NTS 95C/5), southeast Yukon. (1:50 000 scale). Yukon Geological Survey, Geoscience Map 2008-1, also Plate 1 in Bulletin 16.

REFERENCES

Allen, T.L. and Pigage, L.C., 2000. Geological map of Pool Creek (NTS 95C/5), southeast Yukon (1:50 000 scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2000-11.
Allen, T.L., Pigage, L.C., and MacNaughton, R.B., 2001. Preliminary geology of the Pool Creek map area (95C/5), southeastern Yukon. In: Yukon Exploration and Geology 2000, D.S. Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 53-72.



1:50 000-scale topographic base data provided by CENTRE FOR TOPOGRAPHIC INFORMATION NATURAL RESOURCES CANADA
ONE THOUSAND METRE GRID
North American Datum 1983
Zone 10
CONTOUR INTERVAL 100 FEET
Elevations in feet above Mean Sea Level

BEDROCK GEOLOGY
POOL CREEK
NTS 95C/5
YUKON
SCALE 1:50 000
kilometres

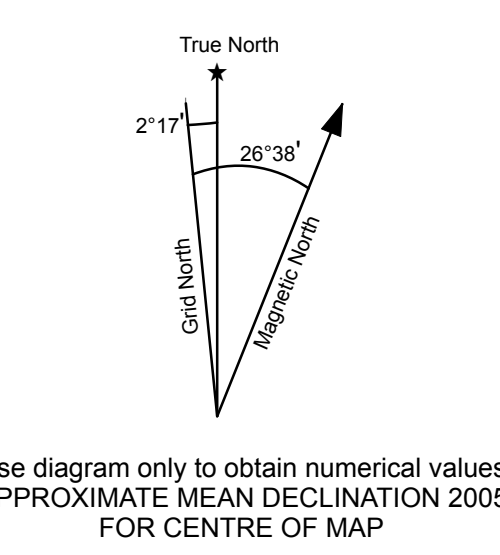


Table with 3 columns: QGC ID, Field Station, Formation. Lists geological units and their locations.

Note: darker colour for each unit indicates areas of outcrop.

Note: units with no colour in legend are not exposed in this map sheet.

Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon
Geoscience Map 2008-1
Geological map of the Pool Creek area (NTS 95C/5), southeast Yukon, (1:50 000 scale)
by
Lee Pigage