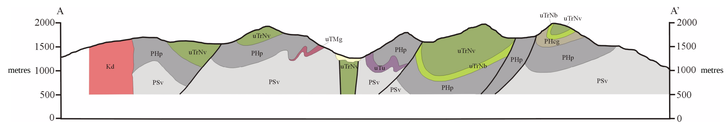
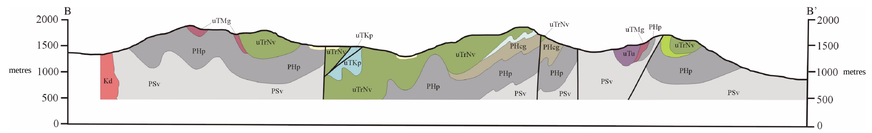
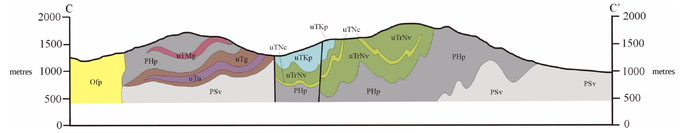
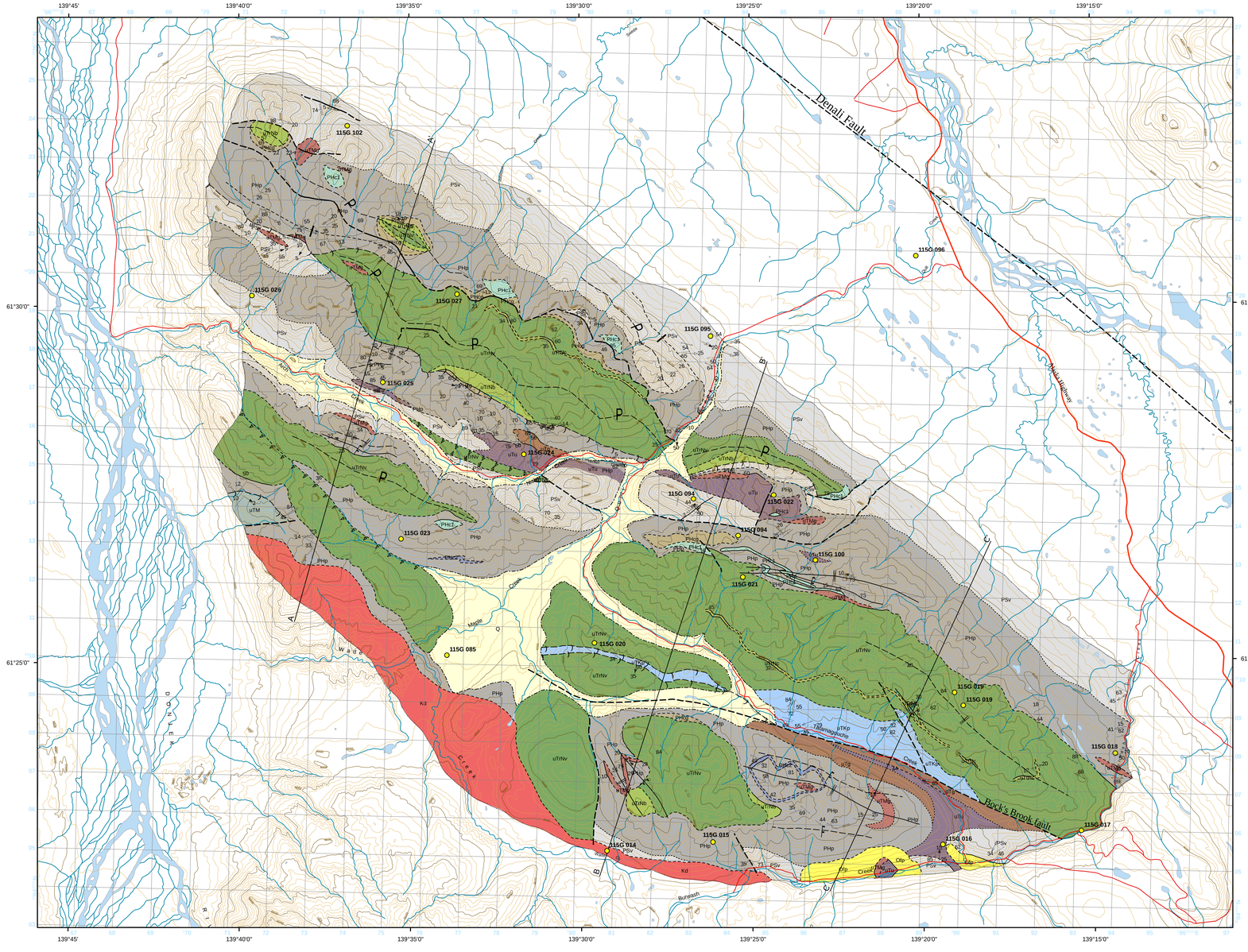






YUKON GEOLOGICAL SURVEY

Yukon
Energy, Mines and Resources



LEGEND

QUATERNARY

Q — unconsolidated alluvium, colluvium and glacial deposits

INTRUSIVE ROCKS

OLIGOCENE

Tkope suite

Ofp — fine- to medium-grained, equigranular hornblende +/- biotite quartz-feldspar porphyry

CRETACEOUS

Kluane Ranges suite

Kd — fine- to medium-grained, equigranular hornblende +/- pyroxene diorite and gabbro

TRIASSIC

Maple Creek gabbro

uTMg — fine- to coarse-grained diabase and gabbro sills and dykes, locally abundant epidote- and chlorite-altered. Locally columnar jointed

Kluane mafic-ultramafic complex

uTg — coarse-grained and pegmatitic gabbro

uTu — peridotite, dunite and clinopyroxenite, layered intrusions, locally with gabbroic chilled margins

STRATIGRAPHIC ROCKS

TRIASSIC TO CRETACEOUS

Tatamagouche succession

uTKp — dark to light grey phyllite, minor greywacke and brick red pebble conglomerate, may include upper parts of McCarthy Formation

UPPER TRIASSIC

McCarthy Formation

uTM — light to dark grey shale and argillite interbedded with buff-coloured limestone

Nikolai formation

uTrNc — thinly bedded grey limestone and minor maroon to olive green argillite

uTrNv — dark green to maroon amygdaloidal basalt and basaltic andesite flows, locally pyroxene-and plagioclase-phyric; and developed pillows. Rare olivine crystals

uTrNb — light to dark green volcanic breccia; angular clasts of amygdaloidal and pyroxene porphyry volcanic rocks and minor argillite in a fine-grained matrix

PENNSYLVANIAN (?) AND PERMIAN

Hasen Creek Formation

PHcg — pebble- to cobble-conglomerate, rounded to sub-angular clasts of siltstone, chert, greywacke and minor mafic volcanic rocks. massive to graded beds several metres thick

PHc2 — light to dark grey limestone, fossiliferous and frequently pebbly, commonly graded and cross-bedded

PHc1 — light grey to white bioclastic limestone, local cherty interbeds

PHp — dark to light grey/brown siltstone turbidites, siliceous argillite, chert and minor volcaniclastic sandstone and tuffs

Station Creek Formation

PSv — dark to light green volcanic breccia, crystal tuff and tuffaceous sandstone; breccia clasts consist of augite phyric basalt within tuffaceous matrix; minor augite phyric, local amygdaloidal basalt flows

SYMBOLS

geologic contacts (defined, approximate, inferred)
limit of mapping
limit of outcrop
fault; movement not known (known, approximate)
thrust fault (known, approximate)
normal fault (inferred)
bedding (tops known, tops unkonwn, vertical, overturned)
foliation (dominant, late)
elongation or mineral lineation
intersection lineation
fold axis (first phase, second phase, vergence known)
fold axial trace (antiform: upright, overturned; synform: upright, overturned)
crenulation lineation
dyke
Yukon MINFILE location
Road (paved highway, unpaved road)

Mineral Occurrences
Yukon MINFILE (Deklerk, 2003)

115G 014	Amp	anomaly
115G 015	Cork	drilled prospect
115G 016	Glen	drilled prospect
115G 017	Burwash	drilled prospect
115G 018	Nelms	unkown
115G 019	Jaquot	drilled prospect
115G 020	Vug	unknown
115G 021	Quill	drilled prospect
115G 022	Versluce	drilled prospect
115G 023	Callinan	unknown
115G 024	Wellgreen	underground past producer
115G 025	Airways	drilled prospect
115G 026	Musketeer	showing
115G 027	Swede Johnson	showing
115G 094	Linda	drilled prospect
115G 095	Arby	unknown
115G 102	Tremblay	unknown

REFERENCES

Deklerk, R. (compiler), 2003. Yukon MINFILE - A database of mineral occurrences. Yukon Geological Survey, CD-Rom.

Read, PB. and Monger, J.W.H. 1976. Pre-Cenozoic assemblages of the Kluane and Alsek Ranges, southwest Yukon Territory. Geological Survey of Canada, Open File 381, 96 p.

RECOMMENDED CITATION

Israel, S. and Van Zeyl, D., 2004. Preliminary geological map of the Quill Creek area (parts of NTS 115G/5, 6, 12), southwest Yukon (1:50 000-scale). Yukon Geological Survey, Open File 2004-20.

Digital cartography and drafting by S. Israel, Yukon Geological Survey.

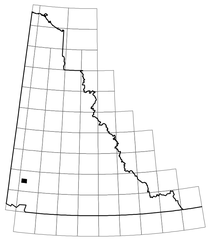
Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

Paper copies of this map, the accompanying report and Yukon MINFILE may be purchased from the Geosciences Information and Sales, c/o Whitehorse Mining Recorder, PO. Box 2703 (K-102), Whitehorse, Yukon, Y1A 2C6. Phone 867-5200, 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.

Additional geology from Read and Monger (1976) and T. Bremner (unpublished data).



Topographic base produced by SURVEYS AND MAPPING BRANCH DEPARTMENT OF ENERGY, MINES AND RESOURCES.

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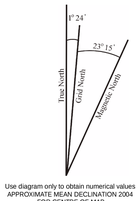
ONE THOUSAND METRE
Universal Tranverse Mercator Grid
Zone 7

QUILL CREEK
(PARTS OF 115G/5, 6, 12)
YUKON TERRITORY
SCALE 1:50 000

1 0 1 2 3 miles

1000 0 1000 2000 3000 4000 metres

CONTOUR INTERVAL 100 FEET
Elevation in Feet above Mean Sea Level
North American Datum NAD 83
Tranverse Mercator Projection



Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 2004
FOR CENTRE OF MAP
Annual change decreasing 2.9'

115G/12	115G/11	115G/10
115G/5	This Map	115G/6 115G/7
115G/4	115G/3	115G/2

Yukon Geological Survey
Energy Mines and Resources
Yukon Territorial Government

Open File 2004-20

Preliminary geological map of the Quill Creek area, (parts of NTS 115G/5, 6, 12), southwest Yukon (1 : 50 000 scale)

by
Steve Israel and David Van Zeyl