

LEGEND

QUATERNARY

17 Unconsolidated Alluvium, includes high level terraces along Big Creek.

LATE CRETACEOUS TO PALEOCENE

15 LATE INTRUSIONS: 15a, aphanitic intermediate to mafic dykes, possibly Carmacks feeders; 15c, medium to coarse grained potassic gabbro; 15d, diabase dykes, plugs.

CARMACKS SUITE

14 UPPER BASALT MEMBER: 14a, andesite flow; 14b, basalt flow; 14bx, basal debris flow, breccia.

13 LOWER ANDESITE MEMBER: 13a, andesite flow; 13at, andesite tuff, tuffaceous sediment, conglomeration; 13b, andesite breccia, debris flow; 13b, bt, 21, 22, andesite basalt flow.

12 BASAL FELSIC MEMBER: 12a, grey to white weathering crystal-lithic tuff, minor lapilli tuff; 12b, rhyolite dome.

10 CARIBOU CREEK CONGLOMERATE: conglomerate-quartz pebble to boulder associated black clastic sediment.

CRETACEOUS TO PALEOCENE

MOUNT NANSEN SUITE

9 PORPHYRY DYKES: 9a, plagioclase-hornblende porphyry, dykes and small plugs; 9b, plagioclase-hornblende-quartz +/- biotite +/- K-feldspar porphyry dykes; 9c, quartz-feldspar porphyry dykes, white weathering, commonly pyritic; 9c, porphyritic granodiorite to quartz monzonite stocks; 9e, gabbro to syenite, plagioclase +/- hornblende porphyritic, fine-grained to medium-grained, multiple dykes and plugs on Victoria Mountain.

8 BOW CREEK GRANITE: 8a, fine-grained biotite granite; 8b, fine to very fine grained, pink weathering, often microlitic granite, minor chlorite, biotite; 8c, pink weathering aphanitic dykes and border phase to pluton, typically quartz and feldspar porphyritic.

7 MOUNT NANSEN VOLCANICS: 7a, andesite to latite massive flows and feeders; 7at, tuff, tuffaceous sediments, in part laharic; 7b, leucocratic latite to rhyolite; 7bt, welded vitric tuff, tuffaceous sediments; 7bx, lapilli tuff, pyroclastics; 7c, felsic dome-commonly flow-banded, quartz and feldspar porphyry.

EARLY CRETACEOUS

DAWSON RANGE PLUTONIC SUITE

5 DAWSON RANGE BATHOLITH: 5a, Casino granodiorite; 5c, Coffee Creek granite.

EARLY JURASSIC

4 MOUNT FREEGOLD META-PLUTONIC SUITE: 4a, orthoclase-hornblende porphyritic granite; 4b, plagioclase-hornblende monzonite; 4c, hornblende segregations in subunit 4a.

3 KLOTASSIN META-PLUTONIC SUITE: 3a, foliated hornblende-biotite granodiorite; 3b, leucogranodiorite.

PALEOZOIC AND OLDER

BASEMENT METAMORPHIC COMPLEX

2 SCHIST AND GNEISS UNITS: 2a, hornblende-biotite-feldspar gneiss, grades locally to unit 3; 2b, pink granite gneiss; 2c, schist-gneiss subunit includes biotite-quartz-feldspar schist, feldspar augen gneiss, amphibolite and minor quartzite and marble; 2d, amphibolite.

1 METASEDIMENTARY UNIT: 1a, quartzite, micaceous quartzite; 1b, quartz-feldspar-mica schist, quartzofeldspathic gneiss; 1L, limestone.

SYMBOLS

- Outcrop and felsenmeer
Geological boundary (defined, assumed)
Bedding
Schistosity, foliation (inclined, vertical)
Minor fold axis, lineation
Joints (inclined, horizontal, vertical)
Faults, sense of movement unknown (observed, assumed)
Mineral deposit or prospect, reference number
Intrusive breccia

MINERAL OCCURRENCES

Table with 3 columns: Name (Commodity), YEX Number, and Occurrence details. Includes entries like KLAZAN (Cu, Mo, Au, Ag), COM (Cu), REVENUE (Cu), COMBO (Pb, Zn), BOW (NEWKIRK) (Cu, Mo), CARIBOU CREEK (Au, Ag), KOOK (CAR, CASTLE) (Cu), RED FOX (Ag, Pb), GUDER (MARGARETE AUGUSTA) (Au, Ag), LAFORMA (Au, Ag), EMMONS HILL (DART) (Au, Ag, Sb), TINTA HILL (Cu, Au, Ag, Pb, Zn), NUCLEUS (Au), ZIT (Cu, Au), GOLDY (WHALE) (Au), VERLENE (Cu), ANTONIUK (Au, Ag).

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Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region

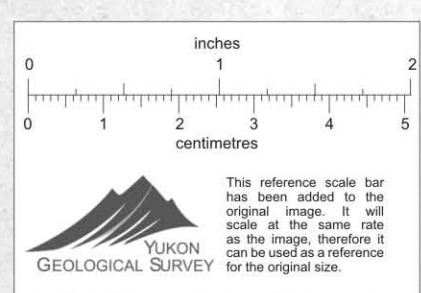
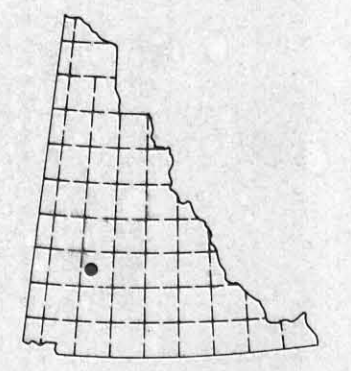
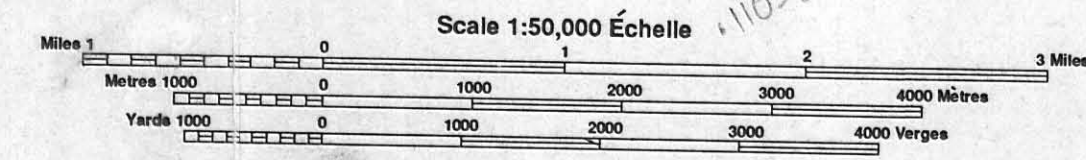
GEOLOGICAL MAP OF STODDART CREEK MAP AREA (115 I-6)

to accompany
OPEN FILE REPORT 1987-2

Geology of Mount Nansen (115 I-3) and Stoddart Creek (115 I-6) map areas by G. Carlson.

Funded by Canada-Yukon Economic Development Agreement (Contract YEDA 04/86)

Approximate magnetic declination in 1989 was N33°43'E and decreasing at an annual change of 3.6'



Index to adjoining Maps of the National Topographic System. Grid showing map sheets 115 V/2, 115 V/1, 115 V/0, 115 V/5, 115 V/6, 115 V/7, 115 V/4, 115 V/3, 115 V/2.

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