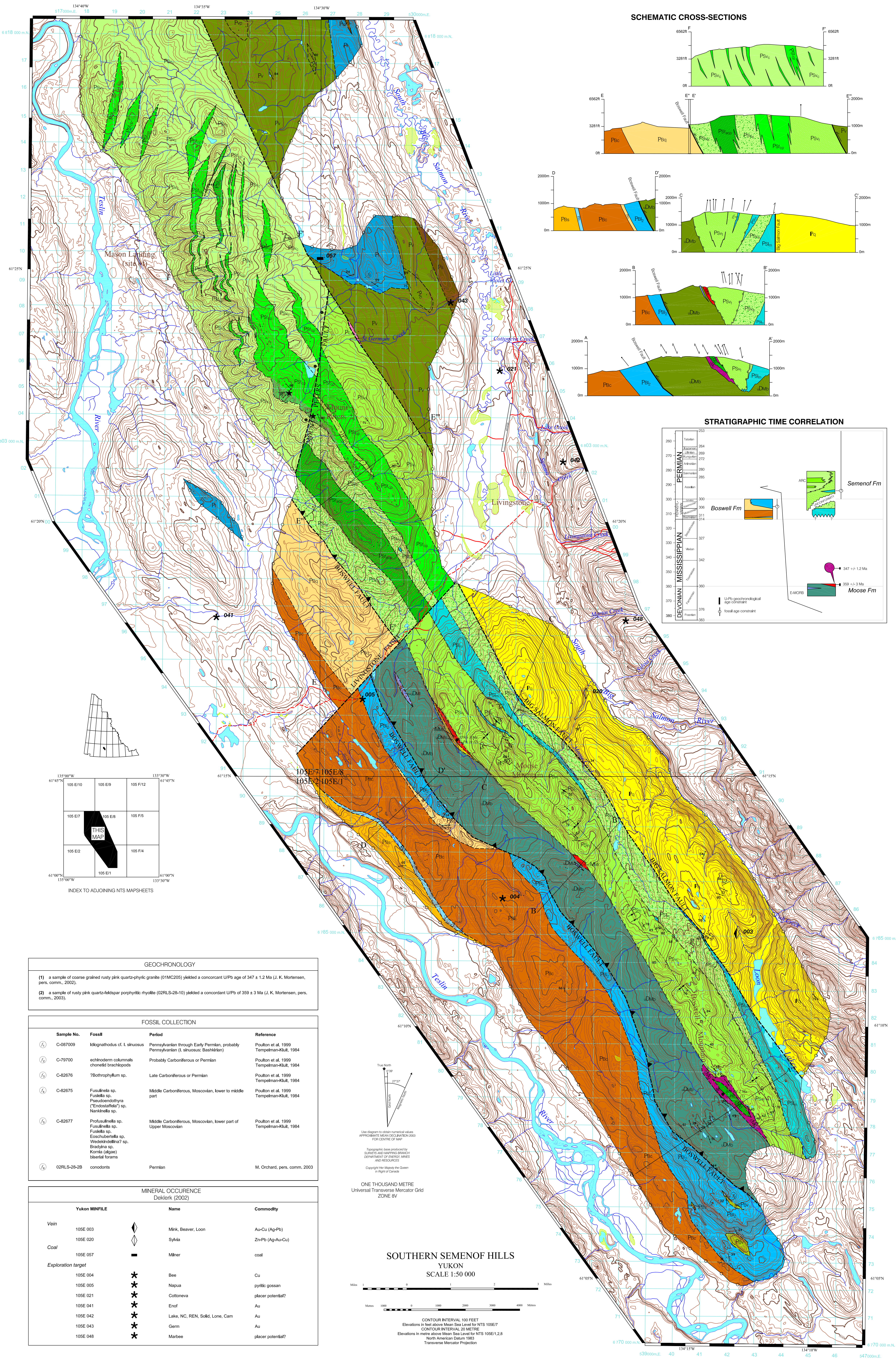




LEGEND

INTRUSIVE ROCKS

EARLY MISSISSIPPIAN

- Medium- to coarse-grained, pink to green granite (U-Pb zircon age 347 ± 1.2 Ma); quartz-porphyrific texture is common in the northern part of this body; intrudes the dioritic phase (L₂M₁)**
- Fine- to medium-grained hornblende diorite; intruded by or in enclaves in the granitic phase (L₂M₃)**

LAYERED ROCKS

PERMIAN

Semenof Formation

Porphyritic flow Member

- Clinopyroxene-plagioclase-phryc flow facies - Clinopyroxene-plagioclase-phryc, light to medium grey/green massive, locally brecciated (L₂) and/or amygdaloidal mafic flows locally outlasted to red/purple colour (pattern) in association with copper-filled amygdaloids (★) and sparse malachite**
- Clinopyroxene-phryc flow facies - Clinopyroxene-phryc, dark green, massive, amygdaloidal mafic flows**
- Amphibole-clinopyroxene-plagioclase-phryc flow facies - Amphibole-clinopyroxene-plagioclase-phryc, medium to dark green, massive, locally brecciated, mafic flows**

Volcaniclastic Member

- Volcanic conglomerate facies - Massive dark green/brown/purple volcanic pebble to cobble conglomerate; rounded pebbles and cobbles, often highly amygdaloidal; unsorted, angular, crystal- and litho-rich matrix**
- Tuffaceous facies - Well-bedded light green tuffaceous rocks; mainly coarse-grained crystal and lithic tuff grading into fine-grained ash tuff, with minor beds of lapilli tuff**
- Epilastic facies - Massive, dark to light gray, mainly volcanic-derived, coarse-grained lithic tuff with minor black argillite beds, and angular, locally-derived, clast-supported pebble to cobble conglomerate; limestone clasts are locally abundant**

Limestone Member

- Massive limestone facies - Massive light grey to beige, massive, moderately recrystallized limestone; abundant quartz veins**
- Conglomeratic limestone facies - Lenses of pebble to cobble, clast-supported limestone conglomerate; contains 15-30% of angular mafic volcanic and bedded chert clasts and 70-85% rounded fossiliferous limestone clasts**

PENNSYLVANIAN AND OLDER

Boswell Formation

- Beige to grey limestone, lightly to moderately recrystallized; commonly bioclastic**
- Massive dark green mafic volcanic and volcanoclastic rocks; forms resistant ridges within massive limestone (P₂b₁)**
- Rusty weathering medium-grained quartz sandstone**
- Calcareous, massive, poorly sorted polymictic conglomerate and litharenite; contains angular fragments of black chert, argillite, mafic and felsic volcanic rocks and limestone**
- Beige to grey limestone**
- Arkose sandstone and interbedded siltstone**

PENNSYLVANIAN (Moscovian)

- Beige to grey blocky limestone; lightly recrystallized**

PENNSYLVANIAN AND OLDER

- Mainly massive dark green mafic volcanic rock, locally contains pillow structures (P₂v₁); well-bedded, light green tuffaceous volcanoclastic rocks (P₂v₂)**
- Massive red chert**
- Dark grey carbonaceous siltstone; quartz sandstone in places**

MISSISSIPPIAN AND OLDER

Moose Formation

Felsic Member

- Pink rusty quartz-feldspar porphyritic rhyolite (U-Pb zircon age at 359 ± 3 Ma)**

Basalt Member

- Dark green fine-grained massive and pillow basalt**
- Light grey massive limestone**
- Green conglomeratic sandstone with volcanic and sedimentary clasts**

PALEOZOIC (?)

- Foliated interbedded quartzite and siltstone with minor muscovite schist intervals**

SYMBOLS

- Geological contacts (defined, approximate, inferred).....
- Unconformity (defined, approximate, inferred).....
- Thrust fault (inferred, covered).....
- Normal fault (inferred).....
- Strike-slip fault (dextral; inferred, covered).....
- Unknown movement fault (inferred, covered).....
- Fold axial surface trace (synform: upright, overturned).....
- Limit of mapping.....
- Bedding (inclined, upright, overturned).....
- Dominant foliation (inclined, vertical).....
- Dyke / vein.....
- Minor fault.....
- Apparent dip of bedding, foliation (in cross-section).....
- Field station.....
- Fossil locality.....
- Geochronology sample (U-Pb; zircon; number refers to Geochronology Table).....
- Winter roads.....
- Trails.....
- Wetlands.....

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Keep this map in a dark area to keep colours from fading.

Yukon Geological Survey

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GEOLOGICAL MAP OF SOUTHERN SEMENOF HILLS
(part of NTS 105 E/1, 7, 8),
SOUTH-CENTRAL YUKON (1:50 000 scale)

by

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