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NOTES

ACCESS
 The map area has no roads, although old pack-horse trails are present in most major valleys. It lies within the traditional territory of the Tahltal Tlingit Council. There are also specific land claims at the outlet of Slim Lake, and on the east side of Morris Lake.

PHYSIOGRAPHY
 The map area is part of the Nisutlin Plateau (cf. Mulligan, 1963, p. 4-11). The granitic bedrock produces high rounded hills and slopes of frost-fractured boulders. The central part of the map is underlain by metamorphic rocks that are typically exposed as knobs and spires. Large ice flows from the south and east covered this area (Klassen, 1982) as recently as 15,000 years ago.

PREVIOUS WORK
 Reconnaissance mapping in 1953-55 (Pool et al., 1960) defined the major rock types. The south central area was examined by Stevens and Harris (1995, 2000). Helicopter-supported traverses and approaches in 1998 and 2000 as part of regional investigations (see Roots et al., 2000; Colborn and the Yukon-Tanana Working Group, 2001) contributed to this map.

REGIONAL GEOLOGY
 Between the Cordilleran granites (Hake Batholith on the west; Cassiar Batholith to the east) are three belts of metamorphic rocks, collectively part of Yukon-Tanana Terrane (Mortensen, 1992). These are remnants of oceanic and continental volcanic arcs and marginal basin sediments of Early to mid-Palaeozoic age. At the head of Borden Creek are thick carbonate and andesitic volcanic rocks correlated with Klituk Group (Simant et al., 2003). The Ram Creek Fault (Pool, 1960) and Hidden Lake Fault are not exposed but deduced to be steeply dipping brittle structures with north-southward thrust or transpressional offset, based upon more complete exposure to the northwest in 105B/10 map area. The former is likely of Cordilleran age; the latter was active between mid-Pennsylvanian and Early Jurassic time.

YUKON-TANANA TERRANE
 The Ram Creek Complex constitutes a narrow volcano-sedimentary belt between Dorsey Complex and the massive sediments of Cassiar Terrane, bounded below by the Ram Creek Fault and above by the Hidden Lake Fault. A large knob 2 km east of Slim Lake is a pluton of dykes and gabbros and green gneisses, interpreted as an intrusive complex. Ridge 2 km southeast of Ram Creek is a series of low-grade mafic rocks intruded by a foliated granite of c. 340 Ma (Roots and Heaman, 2001). This intrusive age is consistent with both extrusive and intrusive rocks in analogous stratigraphic position in northern BC (Nelson, 2000).
 The Dorsey Complex includes amphibolite, mainly meta-chert, quartzite and gneissic meta-sediments that exhibit additional to that seen in overlying and adjacent units. Metamorphic mineral assemblages in the lower limit of Dorsey Complex attest to high temperature and pressure conditions (Stevens, 1996) prior to intrusion of the Ram Creek (cf. 350 Ma; Mortensen, 1999). Minor marble lenses and colour banding reveal abundant rocks of local origin.
 The contact to the west with Swift River Group is not exposed. It is likely a tectonically modified sedimentary gradation through fine grained clastics, now accentuated by the upward decrease in metamorphic grade (cf. Nelson, 2000; Roots et al., 2000). The Swift River Group includes metamorphically banded black mica-chert and argillite, lesser quartzite and stretched quartz-pyroxene conglomerates. No carbonate layers are known.
 The Big Salmon Complex is exposed on a single ridge in the southwest part of the map area. Strongly foliated biotite-chlorite banded metagabbro and fine grained gneisses, including at least three exposures of magnetite-bearing and hematite meta-chert (possibly tectonically reworked) of likely hydrothermal origin (cf. Mihalynuk et al., 1998). Regionally the Big Salmon and Ram Creek complexes have similar textures and metamorphic characteristics. In this map area both include a distinctively banded on-ly-onite rock interpreted as an altered sulf-quartzite (cf. Pool, 1960, p. 64-65), well exposed downstream of Slim Lake. The two are successions are correlative and considered correlative by Nelson (2000).
 Klituk Group carbonate and volcanic rocks were deposited on both Swift River and Big Salmon rocks but the stratigraphic contact has not been observed in this map area. Here the ridges of light grey limestone and volcanoclastic breccia are strongly normalised by the adjacent Hake Batholith.

UNFOLIATED PLUTONIC ROCKS
 Seagull batholith (ca. 107 Ma; K-Ar; Mats et al., 1983; Mortensen, 1999) extends across the southern end of the map area, on trend with Hake batholith to the northwest and Italy connected to it at depth. Samples from this trend indicate an evolved magma, with Fe-rich mica and albite (Liverton and Botelho, 2001).
 The 350 km long Cassiar batholith reaches its northwestern limit in this map area. A belt from several hundred metres to a few kilometres wide along its western side is defined in both ductile and brittle fabrics, interpreted as intrusion during activity of the Cassiar Fault (Gabrielse, 1985; Driver, 1998) approximately 112 Ma (Mortensen, 1999).

ECONOMIC MINERALIZATION
 Minor vein occurrences and geochemical anomalies occur near the east margin of the Hake batholith. At the Karahuhni occurrence (Convent diamy) 10 km west of Slim Lake are galena-bearing veins with relatively high silver and 1% Sn.

COPIES OF THIS MAP MAY BE OBTAINED FROM THE GEOLOGICAL SURVEY OF CANADA
 901 Booth Street, Ottawa, Ontario K1A 0E8
 200-855-9535 (toll free) or 1-800-953-6677
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 Yukon Geological Survey, 6000-10th Avenue, Whitehorse, Yukon Territory, Canada
 Fax: 279-2181 (0-1-202), Whitehorse, Yukon Y1A 2S1

Geology by: C. Roots, and J.L. Nelson, 1999-2000; R. Stevens, 1995
 includes traverses by R.L. Simant and T. Harris, 2000

Digital cartography by: P. Dési, Geological Survey of Canada, Pacific Division

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

LEGEND

OVERLAP ASSEMBLAGES

LAYERED ROCKS

UPPER CARBONIFEROUS TO PERMIAN
KLITUK GROUP

- CPc: Beige-weathering marble, locally silicified; rare chloritic interbeds
- CPv: Volcanic fragmental member: Undifferentiated meta-tuff and volcanic breccia of intermediate composition; minor chloritic meta-sandstone and meta-siltstone "outcrops"
- CSc: Screw Creek Limestone: Thin- to thick-bedded, light grey weathering, commonly bioclastic limestone and dolomitic marble; minor marion to phyllite and bedded green chert

YUKON-TANANA TERRANE

DEVONIAN TO LOWER CARBONIFEROUS
BIG SALMON COMPLEX

- DCEh: Laminated quartzite, locally rich in pink pectinonite and hematite (Crickle chert of Mihalynuk et al., 1998; 2000)
- Dbb: Smart River Greenstone: Chloritic metabasalt and meta-tuff of intermediate to mafic composition; minor volcanic meta-sandstone

fault, sense of motion unclear

PERMIAN
PRg: Ram Stock: Coarse-grained monzonite, granodiorite (U-Pb zircon 258 ± 2 Ma; J.K. Mortensen, pers. comm., 2002) (intrudes Dorsey Complex)

LOWER CARBONIFEROUS TO UPPER SILURIAN
SWIFT RIVER GROUP

- PSR: Dark-colored quartz-pyroxene gneiss, meta-sandstone; minor phyllite argillite, quartzite, conglomerate, limestone and chloritic meta-tuff (U-Pb zircon dates as young as 422 Ma; Gleason et al., 2001), carbonaceous siltstone, grey chert and volcanic breccia (intermediate composition)
- PSRv: Chloritic andesitic intrusions, breccia and tuff; green siliceous argillite

CARBONIFEROUS AND OLDER
DORSEY COMPLEX

- PPDs: Upper Dorsey unit: Biotite-garnet schist, quartz meta girt, minor marble
- PPDm: Lower Dorsey unit: Hornblende schist and gneiss, (locally contains felsic leucosome with U-Pb zircon date: 373 ± 14 Ma; amphibolite)

Hidden Lake Fault

RAM CREEK COMPLEX
EARLY CARBONIFEROUS

- Cg: Foliated granodiorite (U-Pb zircon age: >337 Ma; Roots and Heaman, 2001) (intrudes Ram Creek Complex)

DEVONIAN TO LOWER CARBONIFEROUS

- CRCv: Chloritic metabasalt and meta-tuff of intermediate to mafic composition; minor volcanic meta-sandstone (Amphibolite units; includes metagabbro-basalt complex 2 km west of Slim Lake)
- CRCs: Quartzite, phyllite, Diotite-muscovite-garnet schist; minor quartz-sericite schist (felsic meta-tuff)
- CRCc: Beige-weathering limestone and marble

Ram Creek Fault

Mineral Occurrences 105B/5
Yukon MINFILE (Decker, 2003)

No.	Name	Minerals
105B 075	Hake	unknown
105B 076	Mork	unknown
105B 087	Meprea	Cu, Mo porphyry
105B 120	Karahuhni	Sn skarn
105B 143	Convent	volcanogenic

SYN- AND POST-OROGENIC

INTRUSIVE ROCKS

EARLY CRETACEOUS

- EKg: Biotite granite, granodiorite, leuco-quartz monzonite, alkaliite
- EKsg: Seagull Batholith
- EKCg: Cassiar Batholith: Granite, granodiorite, quartz monzonite, diorite

EARLY JURASSIC

- EJg: Non-foliated, K-feldspar porphyritic granodiorite, monzonite; minor diorite, gabbro

ANCESTRAL NORTH AMERICA
CASSIAR TERRANE

LAYERED ROCKS

LOWER DEVONIAN TO LOWER MISSISSIPPIAN
SEAGULL GROUP

- DME: Recrystallized, carbonaceous shale and slate, locally phyllitic

SILURIAN TO UPPER DEVONIAN

- SDM: McDame Formation: Grey to black laminated and thin-bedded field limestone

SYMBOLS

Bedding: inclined, upright, overturned
 Dominant foliation (transpositional foliation; commonly parallel to compositional layering): inclined, vertical
 Igneous layering
 Compositional layering
 Crumpled lineation
 Elongation or mineral lineation
 Intersection lineation, with vergence: M fold
 Folds, with vergence: M fold
 Cleavage
 Jointing
 U/Pb zircon date, age in Ma
 Fossil locality
 Geological contact: defined, approximate, assumed
 Limit of outcrop
 Normal fault: defined, approximate, inferred
 Spill crack on downthrow side
 Thrust fault: defined, approximate, inferred
 Teeth on upthrow side
 Upright folds: antiform, synform
 Overturned folds: antiform, synform
 Cross-section line
 Yukon MINFILE (105B) occurrence



Scale 1:50 000/Echelle 1/50 000

MORRIS LAKE
YUKON TERRITORY

Scale 1:50 000/Echelle 1/50 000

Universal Transverse Mercator Projection
 North American Datum 1983
 © Her Majesty the Queen in Right of Canada 2004

Projection transversée universelle de Mercator
 Système de référence géodésique nord-américain, 1983
 © Sa Majesté la Reine du chef du Canada 2004

Universal Transverse Mercator Grid Zone 9

Mean magnetic declination 2003, 25°28' E decreasing 18.0' annually

Elevations in metres above mean sea level
 Contour interval 20 metres

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE
 This and other of these editing maps are listed in References

Canada

NATMAP **CARTNAV**
 Ancienne marge du Pacifique

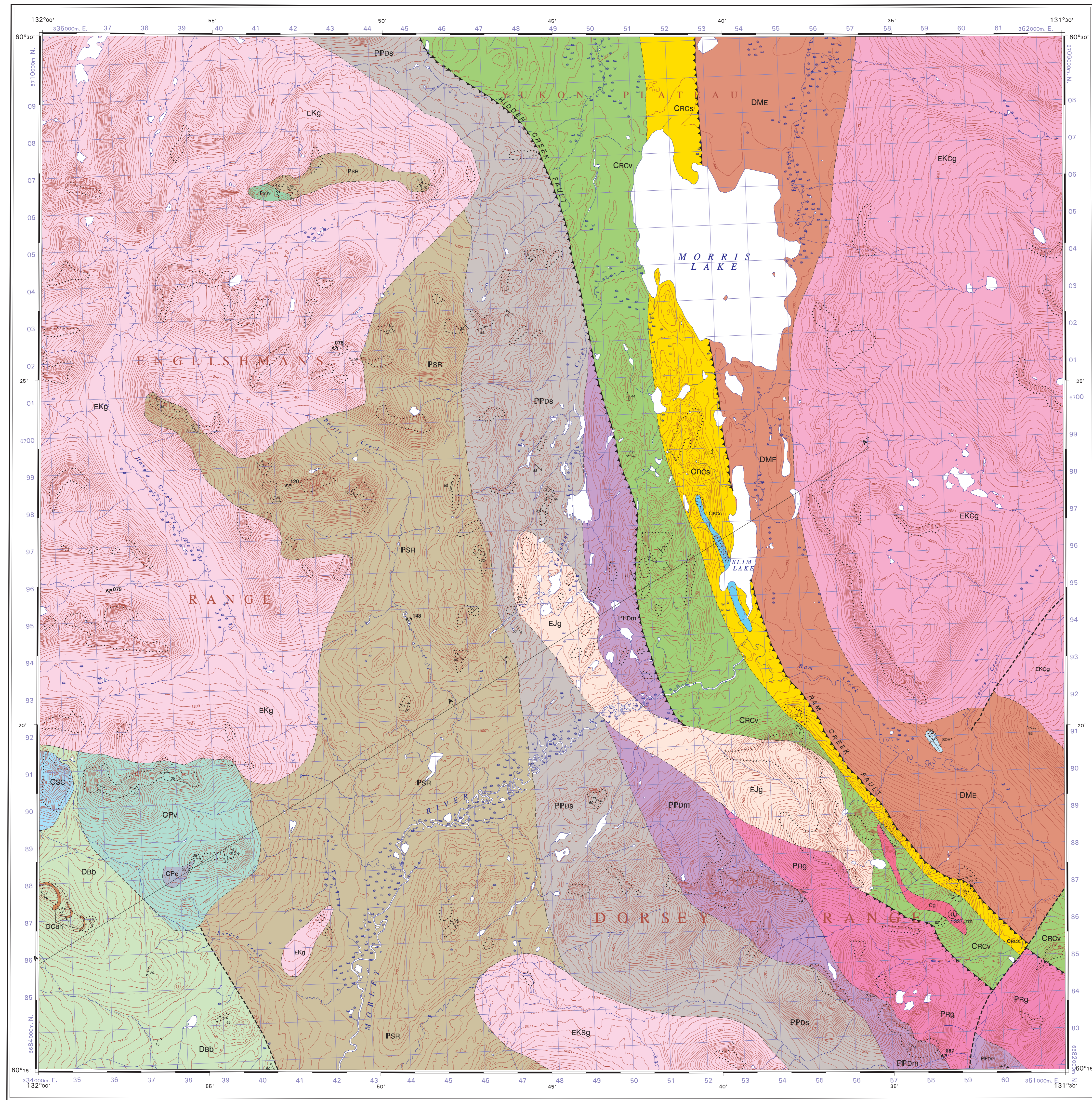
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 Yukon Government
 Open File 2004-3
Bedrock geology, Morris Lake (NTS 105B/5)
 Yukon Territory
 (1:50,000 scale)

by
C. Roots, J. Nelson and R. Stevens

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