

GEOLOGICAL SURVEY BRANCH

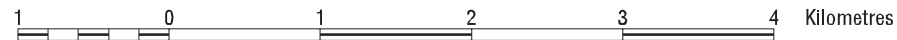
OPEN FILE 2001-5

GEOLOGY OF GODWIN CREEK (NTS 104N/09E)

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Richard M. Friedman, Charles F. Roots and Tom P. Gleeson

Digital cartography by Pam Dhesi (Geological Survey of Canada), and Mitchell G. Mihalynuk
Digital base map compiled by the Province of British Columbia, Ministry of Environment Land and Parks, modified
by the Geological Survey of Canada
TRIM 59E, 60, 69E, 70, 79SE, 80S

Scale 1:50 000



Universal Transverse Mercator Projection

North American Datum 1983

Magnetic declination 2001, 25°41' SE, decreasing 19.6 annually.

Centre of the map

Elevations in metres above mean sea level

LEGEND

QUATERNARY

Qb Tuya Basalt: olivine basalt, tuff

LATE SYN - TO POST - ACCRETIONARY INTRUSIONS

EARLY JURASSIC

MJSt Slaughterhouse quartz diorite and tonalite; weakly foliated to non-foliated; circa 170 Ma

MJsg Slaughterhouse granite; weakly foliated to non-foliated with discrete shear bands; circa 170 Ma

EJsy Polyphase intrusive body (circa 184 Ma): salmon pink syenite, quartz syenite, hornblende diorite, quartz diorite, biotite hornblende quartz monzonite and monzonite

EJct Cocconino biotite-hornblende quartz diorite/tonalite, foliated, pre- to syntectonic?; circa 196 Ma.

ATLIN COMPLEX - EXOTIC OCEANIC CRUSTAL ASSEMBLAGE

CARBONIFEROUS TO JURASSIC

PTl Permian Teslin Formation limestone, Tethyan fusulinids

CPKh Carboniferous to Permian Kedahda Formation hemipelagites: chert, argillite, slate, quartzite; wacke interbedded with chert near Teslin Fault; hornfels near plutons

BIG SALMON COMPLEX -

PERICRATONIC SEDIMENTS AND OVERLYING ARC COMPLEX

PRE-DEVONIAN TO CARBONIFEROUS

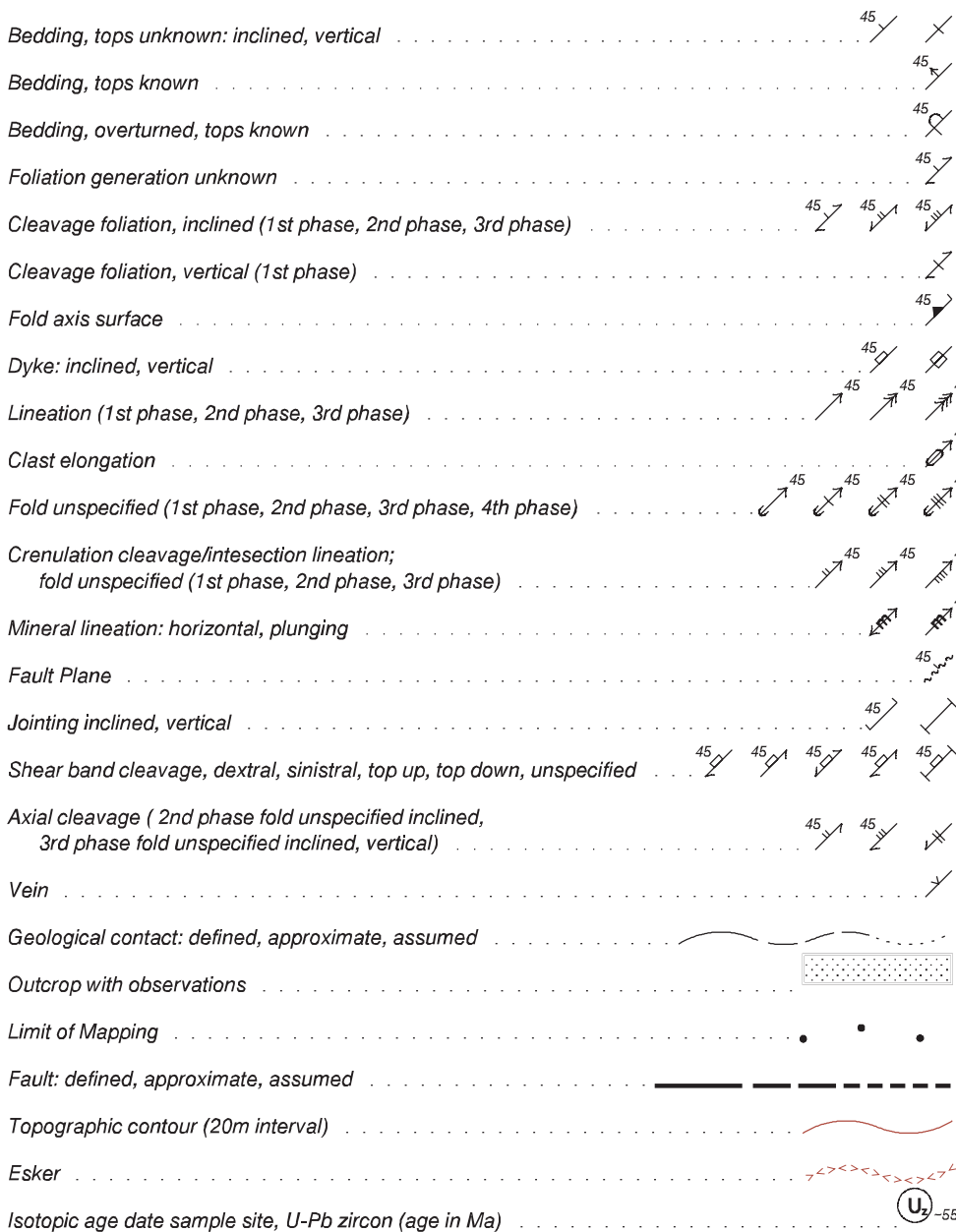
DCB Devonian - Mississippian Big Salmon Complex (undivided)

DCbv Strongly pyritic metarhyolite, dacite, andesite tuff and minor marble; circa 335 Ma in part

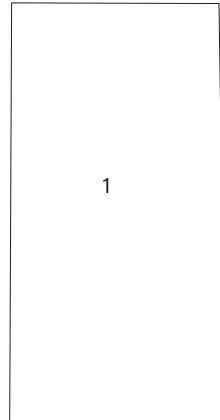
DCbl Marble, limestone, dolomite

DBb Metabasalt, tuff, tuffite; locally augite-phyric

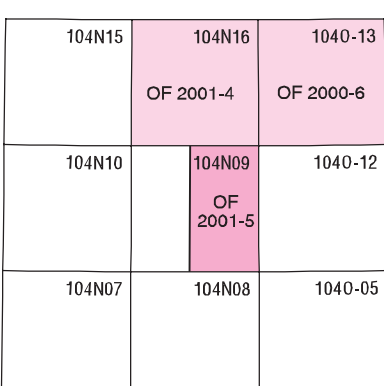
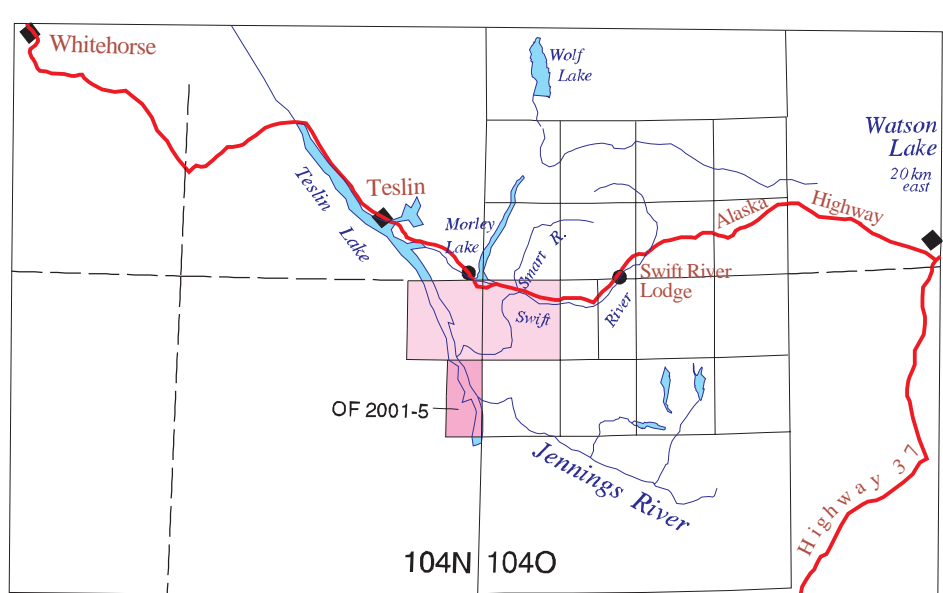
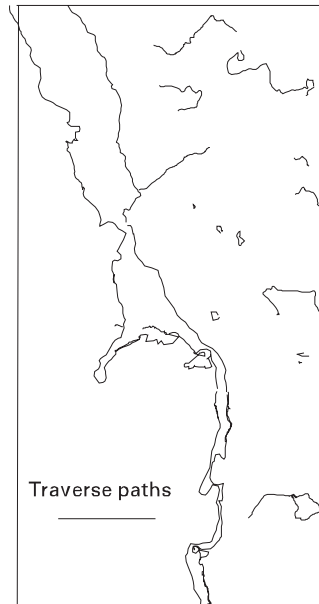
SYMBOLS



COMPILATION SOURCES:



RELIABILITY DIAGRAM



Recommended citation:
Mihalynuk, M. G., Nelson, J. L., de Keijzer, M.,
Friedman, R. M., Roots, C. F. and Gleeson, T. P.
(2001): Geology of Godwin Creek (NTS 104N/09E);
British Columbia Ministry of Energy and Mines,
Open File 2001-5, scale 1:50 000.

**NATMAP
CARTNAT**
Canada's National Geoscience Mapping Program
Le Programme national de cartographie géoscientifique du Canada



For information on the extensive surficial deposits
Dixon-Warren, A. and Hickin, A. (2000): Surficial Geology of the Swift River Area, NTS 104N/9, 16 and
104O/NW; *B.C. Ministry of Energy and Mines*, Open File 2000-5.
Dixon-Warren, A. and Hickin, A. (2000): Ancient Pacific Margin NATMAP Part III: Surficial mapping and till
geochemistry in the Swift River Area, north western British Columbia; *in Geological Fieldwork 1999*,
B.C. Ministry of Energy and Mines, Paper 2000-1, pages 47-70.