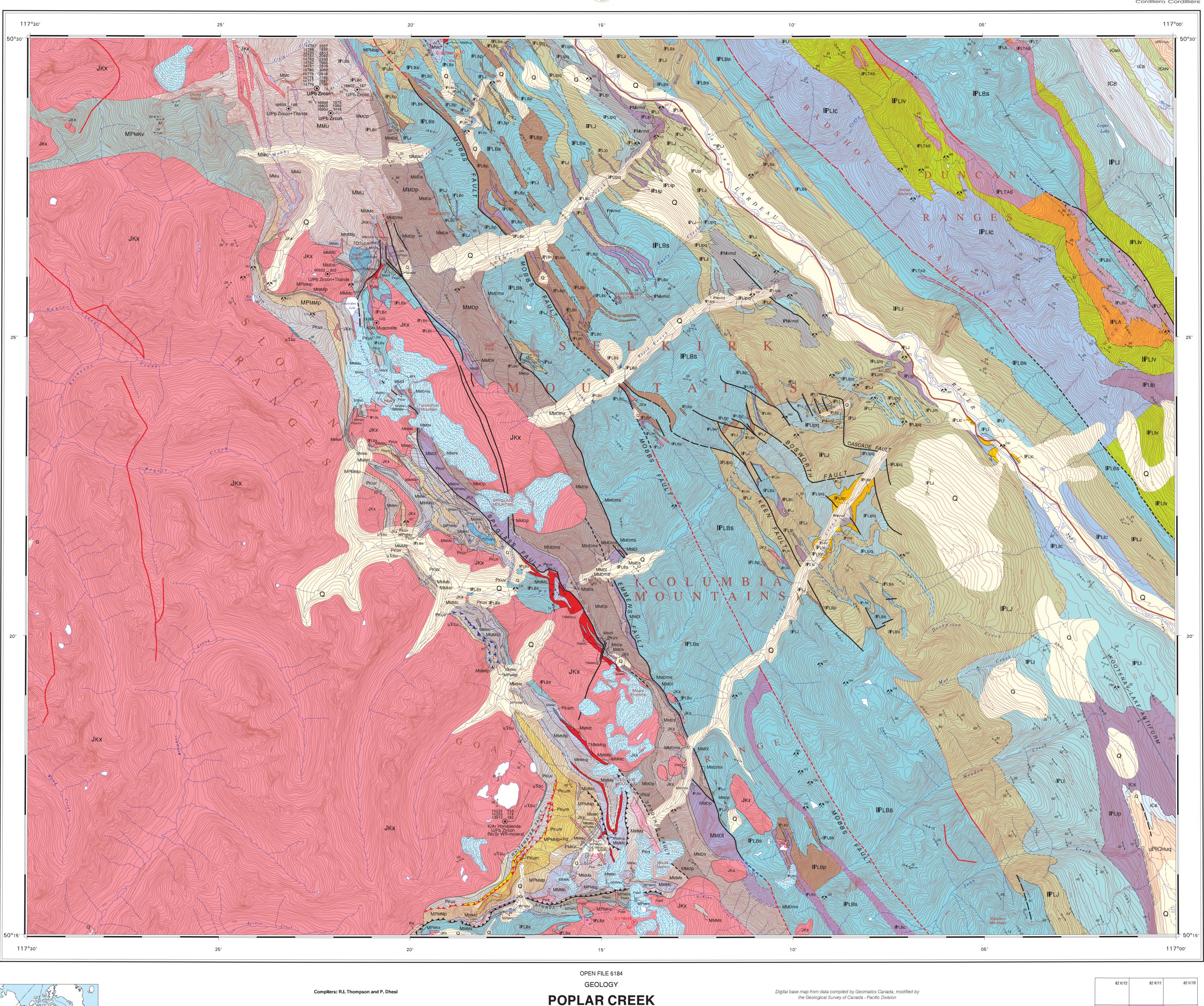
Canadian Geochronology Knowledgebase: http://gdr.nrcan.gc.ca/geochron/index\_e.php

1973: Petrology and structure of Poplar Creek Map-Area, Geological Survey of Canada, Bulletin 193, 144p. Read, P. B. and Wheeler, J. O. 1976: Geology of Lardeau W/2 (82K W/2). Geological Survey of Canada, Open File Map 432, 1: 125,000.

/INFILE NO	NAME	COMMODITY*
082KSW056	GRIZZLY (L.15015)	AG,CU
082KSW057	SPYGLASS	AG,PB,AU,ZN,CU
082KSW061	LINSON VIEW	AG,PB,ZN,CU
082KSW070	SENORITA	AG,PB,CU
082KSW072	LUCKY JACK (L.4731)	AU,PB,ZN,NI,UR
082KSW080	BS	PB,ZN,AG,CU
)82KSW081	PHD	PB,AG,AU,ZN,CU
)82KSW084	UPPER COMSTOCK	AG,PB,ZN
082KSW086	SNOWSTORM	AG,PB,ZN
)82KSW087	BULLOCK	AU,AG,PB,ZN,NI,UR
)82KSW088	SWEDE	AU,PB,ZN,CU
)82KSW089	MOTHER LODE (L.1497)	AG,PB,ZN,AU
082KSW090	RIO TINTO	PB,ZN,AG
082KSW091	ASBESTOS	AB
082KSW092	TELLURIDE	AU,AG
082KSW094	CALUMET AND HECLA	AU,AG,PB
)82KSW095	LARDEAU RIVER	AU
082KSW096	MOBBS	AG,PB,AU
082KSW097	PEDRO	AG,PB,ZN,CU
082KSW098	MAGNET AND MAYBE	AG,AU,PB,ZN,CU,GT
)82KSW102	MAGGIE MAY (L.2437)	AG,PB
)82KSW103	JOHN L. (L.5898)	AU,AG,PB,ZN
)82KSW105	MORNING	AG,PB
082KSW106	HANDY (L.1369)	AU,AG,CU
082KSW107	COLUMBIA	AG,PB,ZN
082KSW108	CROWN KING	PB,AU,
)82KSW110	SB 1	PB,ZN
)82KSW112	REDHILL	AG,ZN
)82KSW113	GRAND SOLO	AG,PB,ZN
)82KSW114	RUBYSILVER	AG,PB,ZN,CU
)82KSW117	JOE	AG,PB,ZN,CU
)82KSW118	SILVER QUEEN	AG,PB,AU
)82KSW119	CROWN POINT	AU
)82KSW120	NORTH STAR (L.7859)	AU
)82KSW121	TOPSY	AG,PB
)82KSW122	MARQUIS & GILBERT	AU,AG,PB
)82KSW123	TWO BROTHERS (L.2005)	CU,AG
)82KSW125	JUNO	AG,AU,PB,ZN
)82KSW126	WHITE EAGLE	AG,AU,PB,ZN
)82KSW127	NOONDAY	AG,PB,ZN
)82KSW143	SILVER SPARROW	AG,AU,PB,ZN
)82KSW149	NORTH STAR AMBER	AG,CU,PB,SB
)82KSW164	MAGGIE	AU,CU
)82KSW165	POCKET LAKE (L.5633)	AG,PB
)82KSW170	BLINKE	PB,ZN,CU
)82KSW173	CASCADE	MO,PB
)82KSW194	SB 2	PB,ZN
)82KSW195	SB 5	PB,ZN
)82KSW196	BROKEN HILL (L.7042)	AU
	WEST DID OF	AC DD CD CLI
082KSW197 082KSW198	WEST RIDGE  LAKEVIEW	AG,PB,SB,CU AU,AG,PB,ZN

Source: British Columbia Ministry of Energy and Mines, MINFILE database available at: http://www.em.gov.bc.ca/Mining/Geolsurv/Minfile/

Abbreviations for commodities: AB – asbestos; AG – silver; AU – gold; CU – copper; DE – diatomite; GT – graphite, MO – molybdenum, NI - nickel, PB – lead, SB – antimony, UR – uranium, ZN – zinc



**BRITISH COLUMBIA** 

Scale 1:50 000/Échelle 1/50 000

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North American Datum 1983 Système de référence géodésique nord-américain, 1983

Projection transverse universelle de Mercator

Universal Transverse Mercator Projection

Mean magnetic declination 2009, 16°43'E, increasing 13' annually.

Elevations in feet above mean sea level

Contour interval 100 feet

Universal Transverse Mercator Grid

North American Datum 1983

Zone 11

Geology by: D.W. Klepacki, 1982-84

Geological compilation by R.I. Thompson, 2002

Co-ordinated by R.I. Thompson through the auspices of the Targeted Geoscience

Initiative 3 (TGI-3)

Digital cartography by P. Dhesi, 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

## PLEISTOCENE AND RECENT outcrops; probable subcrop unit within parentheses MIDDLE JURASSIC Kuskanax intrusives suite: medium-grained aegerine-augite leucogranite and JKX leuco-quartz monzonite with hornblende, biotite or rare feldspar megacrysts or UPPER TRIASSIC SLOCAN GROUP uTSu Grey to black phyllite, argillite, quartzite siltstone with shale interbeds Dcqm diopside-bearing calcareous quartzite; quartzite; marble (equivalent to Milford Group) Rocks in the hanging wall of the Whitewater Fault PERMIAN AND(?) OLDER KAŠĹO GROUP Upper Plate Volcanic Member: Tholeiitic, pyroxene-plagioclase porphyry pillow lava; PKuv greenstone; breccia; massive tuffaceous rocks; rare volcanic conglomerate. Assumed equivalent to part of unit 13d of Read (1973) along the eastern fringe of the LOWER PERMIAN OR OLDER Ultramafic Member: Serpentinite, talc schist, talc-chlorite schist; locally intensely PKam Grey to green amphibolite (unit 13b of Read) Rocks in the hanging wall of the Stubbs Thrust Fault and west of the Spyglass Fault MISSISSIPPIAN to ?PERMIAN UPPER MISSISSIPPIAN AND THE PROPERTY OF TH brecciated and/or foliated MMu Milford Group: undivided PKamc Grey to green amphibolite (unit 13c of Read) MMc Milford Group: Grey marble, pelitic marble MILFORD GROUP: McHardy Assemblage Siliceous argillite member and diorite, undivided Siliceous Argillite Member: Bedded grey siliceous argillite and chert; massive grey MPMMp siliceous argillite; white siliceous argillite where bleached by intrusives; bedded grey calc-schist; chert pebble conglomerate. Assumed equivalent to unit 15 of Read Carbonate Member: Mostly massive, locally bedded grey limestone; cream MMMC dolostone; medium- to coarse-grained white marble. Equivalent to unit 14 of Read west of Spyglass Fault Tuffaceous Sandstone Member: Tan and light grey tuffaceous sandstone, bedded, MMMs plagioclase-rich. Assumed equivalent to unit 15 of Read (1973) between Mt. Marion and Cascade Mountain; assumed equivalent to unit 17 of Read (1973) at Cascade Calcareous Argillite Member: Medium to dark grey argillaceous limestone; grey MMMIp argillite; amphibole-rich marble. Assumed equivalent to unit 16 of Read (1973) in core of Cascade anticline MMMam Medium grey to green, noncalcareous amphibolite, local porphyry and metabreccia. Unit 13c of Read (1973) MMMamc Green, calcareous amphibolite (N. side Poplar Creek). Unit 13b of Read (1973)

OF 6185 OF 6184 OF 6183

OF 6186 OF 6187 OF 6188

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

82 K/4 82 K/3 82 K/2

Cenozoic QUATERNARY

Unconsolidated sediments; glacial deposits, colluvium and alluvium; few if any Slocan Carbonaceous Limestone: Black, finely crystalline limestone, calcareous Calcareous Quartzite Marker (Chase Quartzite?) pitted, calcareous quartzite; POPLAR CREEK GREENSTONES Rocks in the footwall of the Whitewater Fault PERMIAN AND (?)OLDER LOWER PERMIAN and (?)older Amphibolite and hornblende metadiorite (unit 20a of Read) Kane Creek Diorite: Light grey to greenish-grey hornblende diorite and metadiorite, PKd locally foliated and altered to chlorite and saussurite; feeder intrusive for Kaslo Group. Includes unit 13c of Read (1973) where it outcrops immediately east and southeast of Meta-andesite and metadiorite, sills and dykes (unit 20b of Read) Cascade Mountain Pd Undifferentiated Diorite: Medium-grained, equigranular hornblende diorite; locally foliated; may be either PKd or PWd Rocks in the footwall of the Stubbs Thrust Fault and west of the Spyglass (Schroeder) Fault MISSISSIPPIAN AND PENNSYLVANIAN UPPER MISSIISSPIPPIAN TO LOWER PENNSYLVANIAN MILFORD GROUP (Keen Creek Assemblage) Upper Limestone Member: Grey limestone white marble; interbedded with PMKp Upper Volcanic Member: Tholeiitic pyroxene-plagioclase porphyry pillow lava; PMKv massive greenstone; grades westward into PMKp. Includes units 13b and 19 of Read (1973) in immediate footwall of Stubbs Thrust Fault, headwaters of Wilson (1973) where it crops out along the eastern margin of the Kuskanax Batholith Rocks east of the Spyglass (Schroeder) Fault MPMKv Lower Volcanic Member: Tholeiitic pyroxene-plagioclase porphyry pillow lava; massive greenstone. Equivalent to units 13a of Read (1973) in immediate footwall of UPPER MISSISSIPPIAN Stubbs Thrust Fault, headwaters of Wilson Creek MILFORD GROUP (Davis Assemblage) Siliceous Argillite Member: Bedded black, grey and white siliceous argillite and Basal Clastic Member: Bedded plagioclase granule sandstone or argillite; locally phyllite; subordinate limestone and cherty tuff MPMKs contains clasts of quartz and feldspar; local basal conglomerate and metasandstone. Cooper Conglomerate: Boulder to pebble, matrix-supported with clasts of pebble Assumed equivalent in part to unit 19 of Read (1973) in immediate footwall of Stubbs conglomerate, grit, gneiss, diorite, volcanic rock, and quartz monzonite. Assumed equivalent to unit 19 of Read (1973) where it crops out along the eastern and western Sandstone and Phyllite Member (Klepacki, 1985): Mainly grey phyllite or slate MMDs interbedded with pink to brown feldspathic sandstone; minor calcarenite; limey micaceous metasandstone (map unit 16) of Read (1973) east of Spyglass Fault MMDms Micaceous meta-sandstone (map unit 15) of Read (1973) east of Spyglass Fault Mountain and in core of Cascade anticline, and north of headwaters of Poplar Creek Limestone Member: Mainly grey or blue-grey limestone; well-bedded, flaggy, locally MMDI with argillaceous partings and basal black carbonaceous argillite and white quartz pebble conglomerate (unit 14 of Read east of Spyglass Fault) CAMBRIAN TO MIDDLE DEVONIAN LARDEAU GROUP **BROADVIEW FORMATION** SYMBOLS Limestone, grey phyllitic limestone and grey phyllite Foliation (unclassified): inclined, horizontal, vertical Foliation (1st generation): inclined, horizontal, vertical Grey and green phyllitic grit and phyllite Foliation (2nd generation): inclined, horizontal, vertical Bedding: inclined, horizontal, vertical, PLBp Dark grey phyllite (unit 10 of Read) Mineral lineation Fold hinge: crenulation lineation

LEGEND

JOWETT FORMATION: Green phyllite, limy green phyllite, greenstone IPLJm Chloritic marble (unit 4a of Read) Geochronology sample (http://gdr.nrcan.gc.ca/geochron/index\_e.php) isotopic sys. mineral Mineral Occurrence . TRIUNE, AJAX, SHARON CREEK FORMATIONS: Undivided Geological boundary (taken from Klepacki, 1985): defined, approximate, assumed Geological boundary (taken from Reesor, 1973): IPLSC SHARON CREEK FORMATION: Dark grey to black siliceous phyllite defined, approximate, assumed Geological boundary (interpreted by compiler): defined, approximate, assumed AJAX FORMATION: Massive grey quartzite Geological boundary: arbitrary . TRIUNE FORMATION: Grey to black siliceous phyllite Fault, contraction (teeth indicate upthrust side): defined, approximate, assumed Fault, contraction (teeth indicate upthrust side); INDEX FORMATION: Grey and light green phyllite; minor phyllitic limestone and Permian age (Whitewater Fault): quartz grit (unit 3 of Fyles, 1964) defined, approximate, assumed Fault, contraction (teeth indicate upthrust side); interpreted by compiler: defined, approximate, assumed . . . Grey schist: Fine-grained grey mica schist and garnet mica schist (units 3a and 3b of Fyles, 1964) Fault, extension (solid circles on downthrown side): defined, approximate, assumed Phyllitic and arenaceous limestone; minor grey phyllite (unit 2 of Read) (unit 3b of Fault, unclassified: defined, approximate, assumed -----Fault, unclassified, (taken from Read and Wheeler, 1979): defined, approximate, assumed \_\_\_\_\_ Green phyllite, limy green phyllite, chlorite-actinolite schist, garnet mica schist, Fault, unclassified, (interpreted by compiler): greenstone (units 3d and 3c of Fyles, 1964) Anticline: upright, overturned, plunging . Syncline: upright, overturned, plunging . Grey to green quartz mica schist and meta-grit BADSHOT FORMATION: Tan or grey marble, dolomitic marble and minor calcareous or dolomitic schist Hadrynian (WINDEMERE) AND/OR CAMBRIAN Hadrynian (WINDEMERE) AND/OR LOWER CAMBRIAN HAMILL GROUP (ICMP TO ICMGq) MOHICAN FORMATION (IEMP, IEMV, IEMc):

IEMV Green phyllite, minor grey phyllite and limestone

Upper quartzite: Upper part equivalent to MARSH ADAMS FORMATION (Fyles,

Lower part equivalent to MT. GAINER FORMATION (Fyles and Eastwood, 1962;

uPICHug 1964): intercalated grey and tan quartzite, micaceous quartzite and pelitic schist.

Read and Wheeler, 1976): Discontinuous white quartzite

Late Neoproterozoic to Lower Cambrian

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Canada, Open File 6184, scale 1:50 000.

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2009

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6184