

Descriptive Notes

The Mount Raymond 1:50 000 scale map area lies within the Eagle River map area (Norris, 1981) on the western side of the Richardson anticlinorium. Targeted fieldwork augmented by new biostratigraphic and airphoto analysis has refined the map distribution of stratigraphic units and clarified the location and significance of major structures. The updated stratigraphy consists of two Paleozoic successions.

In the east, the Richardson trough contains strata of Cambrian to Devonian age. The oldest strata present in the map area comprise sandstone, siltstone, and shale of the Slat Creek Formation of early and middle Cambrian age (Fritz, 1997) derived largely from a western source (reviewed in Lane and Gehrels, 2014). This unit is overlain gradationally by a deep-water succession dominated by limestone and argillaceous shale of the Road River Group, originally the Road River Group (Jackson and Lenz, 1982). Here, we use the nomenclature previously used informally, in part by Morrow (1999), based on Cecile, et al., (1982), as revised by Cecile (in press).

In the Mt. Raymond map area, an informal basal member of the Cronin Formation was mapped. It consists of interbedded shale and limestone, and is distinguished from the rest of the Cronin Formation by its darker, more recessive weathering character. This unit is presumably equivalent to the CDRO unit of Norris (1981) in that it occurs between the more resistant carbonate-dominated overlying beds and the underlying classic beds of the Slat Creek Formation (e.g., Fritz, 1985, 1997). In the northeast, the outcrop width of this unit is nearly 5 km. However, in the southeast, this basal shaly interval is very thin or absent, and the Cronin Formation carbonate rocks appear to lie more or less directly on sandstone succession of the Slat Creek Formation. Accordingly, the shaly basal member of the Cronin is inferred to pinch out southwest. Given the known tectonic environment during middle Cambrian time, characterized by block faulting in Richardson trough and local disconformities at the top of the Slat Creek Formation in this vicinity (Fritz, et al., 1991, p. 169-170), the significant thickness change in the basal Cronin member within the map area may reflect this active tectonic setting.

In the western part of the map area, exposed strata comprise deposits of the Ellesmerian orogenic foredeep succession, dominated by siltstone, shale, and turbidite fine sandstones of the Late Devonian Imperial Formation (Braman and Hills, 1992), the overlying coarse clastic strata of the Tuttle Formation, comprising more proximal channelized slope deposits of latest Devonian and Early Carboniferous age (Lane, 2013a), and finally by shale and siltstone of the Ford Lake Formation, of Early Carboniferous age.

The (informal) lower member of the Imperial Formation predominantly consists of shale and siltstone. Exposures are largely confined to river cutbanks. The overlying middle member contains abundant prominent sandstone-rich units that commonly form distinct topographic ribs. Individual sandstone units are readily traceable for several kilometres; however, only a few of the larger units are traceable for more than ~10 km. The persistent sandstone unit that defines the middle member in the adjacent Mount Hare map area to the north becomes indistinct southward and presumably due to thinning and fringing of the unit. Accordingly, the base of the middle member is mapped southward at the base of the east overlying sandstone unit, which persists for some 12 km until it is truncated by a fault.

Three major thrust faults transect the map area from north to south. The most westerly fault, Deception Fault, is a moderately east-dipping structure (Lane, 2013a) that juxtaposes rocks of Frasnian to Early Famennian (Late Devonian) age in the east against strata of Famennian to Viséan age in the west. As in the case in the adjacent map areas to the north (Lane, 2013a, 2013b), thermal maturities on the east side of the fault are distinctly higher than on the west. However, this effect diminishes significantly as displacement diminishes in that direction. A minor splay in the footwall of the Deception Fault, the Vyah K1 Gwynn Fault, extends westward into adjacent map areas. An associated footwall syncline (Vyah K1 Gwynn syncline) is locally preserved beneath the fault.

The Mount Raymond Fault is oblique to the strike of the Deception Fault, cutting upsection (southward) from the Road River Group into the Imperial Formation. It juxtaposes Ordovician to Devonian strata in the hanging wall against Late Devonian Imperial Formation in the footwall. This fault appears to die out northward, within the Road River Group a few kilometres into the adjacent Mount Hare map area. In the hanging wall of the fault, the map width of the Road River Group broadens, and the succession displays abundant minor folds. The Mount Raymond Fault merges southward with the Canyon Creek Fault, which continues southward parallel to structural strike.

The Canyon Creek Fault also appears to die out northward, a short distance into the adjacent map area. Previous reconnaissance mapping indicated that the Deception fault deflects eastward to link with the Canyon Creek Fault (Norris, 1981). However, the Deception anticline in the hanging wall of the Deception Fault appears to be continuous across the map, implying that the two faults remain distinct, subparallel structures in this area. Also, faunally dated Carboniferous Ford Lake strata in the west (locally F15; also Lane, 2013a) are abruptly juxtaposed against Late Devonian strata, requiring that a fault must lie to the west of Deception anticline, from north to south, as displacement diminishes on the Deception Fault, the regional shortening is increasingly accommodated on the Mount Raymond and Canyon Creek faults. These regional-scale structures are products of Late Cretaceous-Cenozoic regional progressions (Lane, 1998).

Trending north-south near the eastern edge of the map are two steeply east-dipping faults mapped as reverse faults, with associated splays. They appear to have east-side-up stratigraphic separation; however, their kinematics are unstated. Although they define distinct lineaments on airphoto imagery, their displacement magnitudes appear to be modest. Possibly, they may be linked to reactivation of deeper faults, related to the middle Cambrian rifting in Richardson trough.

Diamond-drill cores were recovered from several mineral-exploration bore holes in the southern part of the map area, with the permission of the diamond/mineral owners. These cores, penetrating the lowermost Imperial and Canol formations, and uppermost Road River Group, provided valuable information about the age, mineralogy, thermal maturation, and organic carbon (TOC) content in relation to targeted studies of the regional hydrocarbon potential (Allen et al., 2011; Fraser et al., 2012).

Acknowledgments

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Abstract

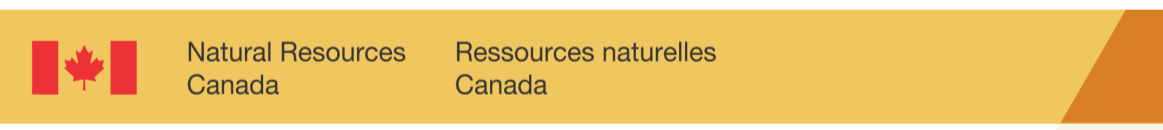
The Mount Raymond map area incorporates the western limb of the Richardson anticlinorium, southern Richardson Mountains, northern Yukon. It is underlain by four Paleozoic sedimentary successions: middle Cambrian Slat Creek Formation, Cambrian to Early Devonian Road River Group, Devonian Canol Formation, and Late Devonian to Carboniferous Imperial and Tuttle formations. The Richardson trough, a depositional setting of the first three successions is succeeded by a deep-marine, turbidite, Ellesmerian, orogenic foredeep setting for the Imperial-Tuttle succession. Several major thrust faults and related folds transect the map area from north to south. The carbonate-dominated Road River Group is overlain by a west-dipping homocline, modified by the Mount Raymond thrust fault with minor folds in its footwall. In the region cartographic of the north to south, the Group of Road River, a predominantly of roches carbonatées, définit un homocline à pendage ouest, modifié par la faille de chevauchement de Mount Raymond ainsi que par des plis mineurs présents dans le mur de la faille. Dans la succession d'Imperial-Tuttle sus-jacente, des pils à échelle de la carte sont définies là où des grès persistants sont interstratifiés dans les shales. Des failles inverses abruptes à fest ont pu réactiver des failles de rift du Cambrien. La géométrie structurale est un reflet du tectonique régional de la Cordillère au Crétacé tardif-Cénozoïque.

19419	19418	19417
CGM 73	CGM 72	
19417	19418	19419
CGM 70	CGM 71	
19420	19421	19424

National Topographic System reference and index to adjoining published Geological Survey of Canada maps

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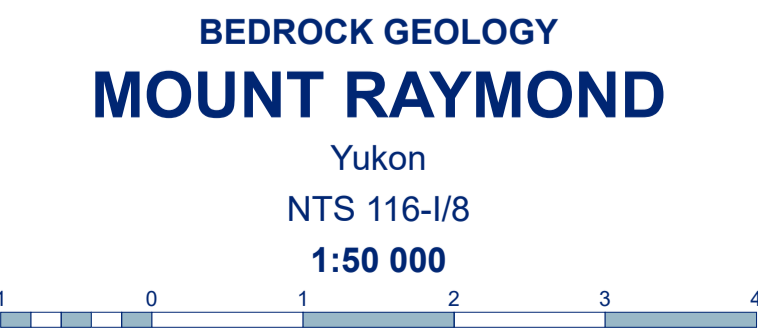


CANADIAN GEOSCIENCE MAP 71
BEDROCK GEOLOGY
MOUNT RAYMOND
Yukon
NTS 116-1/8
1:50 000

Geological Survey of Canada
Canadian Geoscience Maps

Author: L.S. Lane
Geology by L.S. Lane in 2011 to 2014, based on new mapping by L.S. Lane (2009 and 2010), evaluation of archival field data and fossil identifications from Operation Porcupine (1962–1976), additional field data from T.L. Allen (2009 and 2010), and K.M. Bell and D.A. Hurley (2012), new fossil identifications by J. Little, G. Dohy, and S.A. Goway, and analysis of photos and satellite imagery (2008–2018).
Geology conforms to Bedrock Data Model v. 4.0.
Geomatics and cartography by L.E. MacDonald, D. Lemay, F. Hanzjwirogo, and K. Rentmeister.
Scientific editing by A. Weatherston

CANADIAN GEOSCIENCE MAP 71
BEDROCK GEOLOGY
MOUNT RAYMOND
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NTS 116-1/8
1:50 000



Initiative of the Geological Survey of Canada, conducted under the auspices of the Yukon Sedimentary Basins project as part of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) program
Map projection Universal Transverse Mercator, zone 8 North American Datum 1983
Base map at the scale of 1:50 000 from Natural Resources Canada, with modifications
Elevations in metres above mean sea level
Magnetic declination 2020, 19°50'E, decreasing 28.9' annually
This map is not to be used for navigational purposes.

- CARBONIFEROUS**
- CF FORD LAKE FORMATION: shale, calcareous, pyritic; locally contains thin sandstone or siltstone beds. Locally, basal beds may be Upper Devonian.
- DEVONIAN AND CARBONIFEROUS**
- DCT-sh TUTTLE FORMATION (shale unit): shale-dominated lithofacies: dark grey, locally with siltstone beds.
 - DCT-ss TUTTLE FORMATION (sandstone unit): sandstone-dominated lithofacies: quartz- and chert-dominated, chert commonly typolitic; light grey to white, local woody debris, porous.
 - DCT-cs TUTTLE FORMATION (sandstone and conglomerate unit): sandstone- and conglomerate-dominated lithofacies: quartz and chert, light grey to white, local woody debris, lacks fine-grained matrix.
- DEVONIAN**
- uDu IMPERIAL FORMATION: shale and siltstone, laminated; sandstone, turbidite; divisible into three informal members.
 - uDm IMPERIAL FORMATION (upper member): shale, dark grey, laminated; weathers medium grey, siltstone, dark grey, minor sandstone, pyritic.
 - uDl IMPERIAL FORMATION (middle member): shale, dark grey, siliceous; sandstone, dark grey, laminated and ripple crosslaminated, weathers rusty, siltstone, dark grey, fine-grained, poorly sorted, turbidite.
 - DC CANOL FORMATION: shale, black, siliceous, locally cherty, weathers light grey.
- LATE CAMBRIAN TO MIDDLE DEVONIAN**
- ROAD RIVER GROUP**
- SDV VITREKKE FORMATION: shale, black, may be pyritic, calcareous, siliceous, or cherty; graptolite, locally bioturbated; limestone, locally shaly, locally ripple crosslaminated, dolostone, black, pyritic.
 - ST TELLIT FORMATION: argillite, green, grey, weathers brown; dolostone, light grey, weathers orange, local coloration and traces.
 - OSMH MOUNT HARE FORMATION: chert, black, thin- to thick-bedded, locally brecciated; graptolite, shale, siliceous, locally calcareous or pyritic; graptolite, limestone, grey, medium- to thick-bedded calcarenite, locally shaly or cherty, locally ripple crosslaminated, locally intracast conglomerate.
- CAMBRIAN**
- CS SLATS CREEK FORMATION: sandstone, weathers reddish brown to orange; maroon and orange siltstone; shale, local solitary beds of sandy chert-pebble conglomerate; few scattered limestone nodules.

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- Contacts:**
- Defined
 - Approximate
 - Inferred
- Traces:**
- Lineament, defined
 - Motion undefined, defined
 - Motion undefined, approximate
 - Thrust fault, approximate
 - Thrust fault, inferred
 - Reverse, defined
 - Reverse, approximate
 - Reverse, inferred
- Folds:**
- Anticline, upright, defined
 - Anticline, upright, approximate
 - Anticline, upright, inferred
 - Anticline, overturned, inferred
 - Monocline, anticlinal bend, upright, approximate
 - Monocline, synclinal bend, upright, approximate
 - Syncline, upright, approximate
- Thin Lithologies:**
- Marker bed
 - Station
 - Drillhole
 - Bedding:
 - Inclined, measured, younging known
 - Inclined, measured, younging unknown
 - Inclined, estimated, younging known
 - Inclined, estimated, younging unknown
 - Horizontal, estimated
- Fossil Locality:**
- Fossil

Table 1. Outcrop fossil localities

Label	Curion	Sample Name	Sample Type	Easting	Northing	Unit Name	Report	Age
F1	C-029997	04NC-1m1	Hard Sample	437356	7363024	Upper Imperial	W.W. Bristeau, GSC Paleontological Report 3 (Gen.), 1974	Paleozoic, Devonian?
F2	C-486281	2008.HA080201	Hard Sample	436453	736460	Upper Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Early Famennian
F3	C-486280	2008.HA012A01	Hard Sample	436214	734721	Upper Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Early Famennian
F4	C-486294	2008.HA016B01	Hard Sample	436002	737084	Imperial Fm	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Frasnian
F5	C-486307	2008.HA027A01	Hard Sample	433959	736360	Ford Lake Shale	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Viséan
F6	C-486310	2008.HA026B01	Hard Sample	438162	737356	Imperial Fm	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Indeterminate
F7	C-486323	2008.HA043A01	Hard Sample	444386	736556	Imperial Fm	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Frasnian-early Famennian
F8	C-486325	2008.HA048A01	Hard Sample	443284	736506	Imperial Fm	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Indeterminate
F9	C-486326	2008.HA052A01	Hard Sample	442672	736506	Upper Imperial Fm	C. Dohy, unpub. Paleontological Report AJ-2009-06, 2009	Frasnian or early Famennian
F10	C-486327	2008.HA044A01	Hard Sample	442030	736500	Upper Imperial Fm	C. Dohy, unpub. Paleontological Report AJ-2009-06, 2009	Frasnian or early Famennian
F11	C-486328	2008.HA055A02	Hard Sample	441609	736564	Lower Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Frasnian-early Famennian
F12	C-486330	2008.HA056A01	Hard Sample	441400	736561	Upper Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	early Famennian
F13	C-491873	2010.HA101B01	Hard Sample	436384	736498	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	Indeterminate
F14	C-491875	2010.HA102B01	Hard Sample	436177	736564	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	Frasnian
F15	C-491877	2010.HA105A01	Hard Sample	435661	736430	Turtite?	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	late Turonian
F16	C-491888	2010.HA113A01	Hard Sample	442452	736080	Road River Gp.	B.S. Norford, unpub. GSC Paleontological Report 0-1-B8N, 2011, 2011	Ludlow
F17	C-491890	2010.HA115A01	Hard Sample	442140	736050	Canol	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	probably Middle Devonian
F18	C-491891	2010.HA116A01	Hard Sample	441699	736032	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	Devonian
F19	C-491893	2010.HA118C01	Hard Sample	441168	736080	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	middle Frasnian
F20	C-491894	2010.HA119B01	Hard Sample	439661	736030	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	middle Frasnian
F21	C-542104	2010T.L.A.E.T-19-1A	Hard Sample	440507	736304	Turtite?	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	Indeterminate
F22	C-542109	2010T.L.A.E.T-19-1A	Hard Sample	438615	735126	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2011	late Famennian

Table 2. Diamond-drill hole fossil localities

Label	Curion	Sample Name	Sample Type	Easting	Northing	Interval (m)	Unit Name	Report	Age
F23	C-486457	DDH-R08-241	Core	443763	736495	955	Canol	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Middle Devonian
F23	C-486458	DDH-R08-242	Core	443763	736495	546.5-649	Canol	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Middle Devonian
F23	C-486473	DDH-R08-247	Core	443763	736495	507.7	Canol	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Middle Devonian
F23	C-486478	DDH-R08-248	Core	443763	736495	496.5	Canol	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Middle Devonian
F23	C-486477	DDH-R08-241A	Core	443763	736495	472.47-375	Canol	Goway, 2017 use "S.A. Goway, unpub. GSC Paleontological Report 4-SAG-2017, 2017	late Frasnian
F23	C-486478	DDH-R08-241B	Core	443763	736495	470.75-471.1	Canol	Goway, 2017 use "S.A. Goway, unpub. GSC Paleontological Report 4-SAG-2017, 2017	Frasnian
F23	C-486481	DDH-R08-241A	Core	443763	736495	425	Canol	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Middle to Late Devonian
F23	C-486483	DDH-R08-241B	Core	443763	736495	407.7	Canol/Imperial transition	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Middle to Late Devonian
F23	C-486484	DDH-R08-241C	Core	443763	736495	386.3	Canol/Imperial transition	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Middle to Late Devonian
F23	C-486485	DDH-R08-241D	Core	443763	736495	376.2	Canol/Imperial transition	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Middle to Late Devonian
F23	C-486486	DDH-R08-241E	Core	443763	736495	360	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Late Devonian
F23	C-486487	DDH-R08-2420	Core	443763	736495	306.8	Canol/Imperial transition	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Late Devonian
F23	C-486488	DDH-R08-2421	Core	443763	736495	300	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Late Devonian
F23	C-486489	DDH-R08-2426	Core	443763	736495	302.8	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Late Devonian
F23	C-486490	DDH-R08-2430	Core	443763	736495	244.1	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Late Devonian
F23	C-491520	DDH-R08-2431	Core	443763	736495	196.5	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Late Devonian
F23	C-491528	DDH-R08-2441	Core	443763	736495	128.9	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Late Devonian
F23	C-491512	DDH-R08-2445	Core	443763	736495	66.9	Imperial	C. Dohy, unpub. GSC Paleontological Report MSC 1, 2010	Late Devonian
F24	C-491525	DDH-R07-07A	Core	444283	736805	66.266-45	Canol	Goway, 2017 use "S.A. Goway, unpub. GSC Paleontological Report 4-SAG-2017, 2017	early Frasnian

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Tile photograph: Southern Richardson Mountains, view northward from Cambrian Shales in the core of the Richardson Mountains toward west-dipping Ordovician and Silurian limestones of the Road River Group forming the western slopes of the range, Yukon. Photograph by L.S. Lane. NRCCan photo 2019-531

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