DEVONIAN STRATIGRAPHIC SECTIONS MEASURED IN NORTHERN MACKENZIE MOUNTAINS IN 2016

SUPPLEMENTARY MATERIAL TO PUBLICATION:

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SUMMARY

This report provides illustrated descriptions, lithologs, and spectral gamma-ray (SGR) surveys of eight Devonian stratigraphic sections measured in 2016 in the northern Mackenzie Mountains (NTS map areas 106G and 106H). The measured sections intersect the sub-Devonian unconformity and cover Peel, Tatsieta, Arnica, Bear Rock, Landry, Hume (basal and uppermost parts), Hare Indian, Ramparts, Canol formations, and the basal beds of the overlying Imperial Formation.

RESUMÉ

Ce rapport offre des descriptions illustrées, des colonnes lithologiques et des études de spectrométrie gamma de huit coupes stratigraphiques de roches dévoniennes mesurées en 2016 dans le nord des Mackenzie Mountains (régions des cartes 106G et 106H du SNRC). Les coupes mesurées croisent l'inconformité sub-dévonienne et comprennent les formations de Peel, Tatsieta, Arnica, Bear Rock, Landry, Hume (partie basale et partie supérieure), Hare Indian, Ramparts et Canol et la partie inférieure de la Formation d'Imperial.

SECTION NAME	STATIONID	VISITDATE	LAT	LONG	ELEV	PDOP	SATSUSED	NOTES
Powell Creek Canol	16KOA005	2016-07-17	65.2775	-130.7716	351	3	7	Base of section
Powell Creek Canol	16KOA006	2016-07-17	65.2776	-130.7739	346	5	3	Units 4-6 of type Canol section
Powell Creek Canol	16KOA007	2016-07-17	65.2776	-130.7736	345	3	3	Units 6-10 of type Canol section
By camp site	16KOA008	2016-07-18	65.2730	-130.7774	369	4	5	By camp site
Powell Creek L. Devonian	16KOA011	2016-07-19	65.2706	-130.7798	378	8	4	Base section. LP-01 section in NWT.OR 2007-004
Powell Creek L. Devonian	16KOA012	2016-07-19	65.2720	-130.7780	368	3	6	Unit 26 at creek level.a.
Powell Creek L. Devonian	16KOA013	2016-07-21	65.2712	-130.7761	445	4	6	Units 26-27 along cliffs gully
Powell Creek L. Devonian	16KOA015	2016-07-21	65.2683	-130.7679	573	4	6	Contact of units 28 and 29 along cliffs gully
Powell Creek L. Devonian	16KOA016	2016-07-21	65.2730	-130.7754	351	8	4	End of measured section, top of unit 29
Powell Creek Landry-Hume	16KOA017	2016-07-21	65.2735	-130.7792	354	3	7	Base of section
Powell Creek Landry-Hume	16KOA018	2016-07-21	65.2746	-130.7769	352	2	4	Top of section
Rumbly Creek tributary waterfall	16KOA020	2016-07-23	65.4054	-131.3997	640	3	5	Base of section
Rumbly Creek Canol*	16KOA021	2016-07-23	65.4076	-131.3091	570	0*	0*	Base of section
Powell Creek West	16KOA023	2016-07-28	65.2771	-130.7883	415	4	5	Hume-Bonnet contact; Base of section
Powell Creek West	16KOA025	2016-07-28	65.2774	-130.7880	458	3	7	Base of silty grey shales and top of section
Rumbly Creek west ridge	16KOA026	2016-07-28	65.3725	-131.0130	1191	6	7	Sub-Devonian unconformity, base of section
Rumbly Creek west ridge	16KOA027	2016-07-28	65.3716	-131.0183	1173	2	7	Peel-Tatsieta contact
Rumbly Creek west ridge	16KOA028	2016-07-28	65.3748	-131.0185	1193	4	7	Tatsieta-Arnica contact
Rumbly Creek west ridge	16KOA029	2016-07-30	65.3771	-131.0178	1165	4	4	Unit 33 in Arnica Fm., 197 m from base of Peel Fm.
Turnabout Creek	16KOA030	2016-08-01	65.5237	-129.6443	508	3	6	Base of section, upper Bell Creek Mbr.
Turnabout Creek	16KOA031	2016-08-01	65.5246	-129.6457	512	2	7	Canol-Imperial transitional beds, end of section
upper Rumbly Creek station	16KOA033	2016-08-02	65.3813	-131.3430	697	2	4	Peel Fm. in ambulinas/tongue
Rumbly Creek west ridge	16KOA034	2016-08-02	65.3784	-131.4174	1160	2	7	Arnica-Landry contact
Rumbly Creek west ridge	16KOA035	2016-08-02	65.3811	-131.4183	1119	4	6	End of section inside Landry Fm.

Table 1. List of field stations made by Devonian stratigraphy team. ELEV is barometric elevation above sea level in meters; coordinates are given in NAD83 (LAT is latitude, LONG is longitude). *Manual station entry

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RUMBLY CREEK WEST RIDGE

POWELL CREEK LANDRY-HUME

POWELL CREEK LOWER DEVONIAN

RUMBLY CREEK CANOL

RUMBLY CREEK TRIBUTARY WATERFALL

TURNABOUT CREEK

POWELL CREEK CANOL

POWELL CREEK WEST