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Analytical methods and non-interpretative data compilation for unconventional shale plays of Yukon's Liard basin

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RATIONALE

In 2012, Yukon Geological Survey (YGS) entered into a multi-jurisdictional, collaborative research study of unconventional shale gas potential in Liard basin. The project was initiated due to increasing industry exploration interests in Liard basin and the adjacent Horn River Basin in northeast British Columbia (BC). Early work focused on outcrop field studies of the Besa River Formation in BC (Ferri *et al.*, 2011; 2012; 2013), Yukon (Fraser *et al.*, 2012) and the Northwest Territories (*e.g.*, Rocheleau *et al.*, 2014; Pyle *et al.*, in press). The publication of unconventional resource assessments for the Horn River Basin (BCMEM and NEB, 2011), and later for the Cordova Embayment (BCMNDG, 2015), redirected the study's objective towards collecting subsurface data that could inform a Besa River Formation shale resource assessment in Liard basin. This resource assessment was published by the National Energy Board in March 2016 (NEB, 2016), and the results presented at the 10th BC Unconventional Gas Technical Forum the following April. The detailed geology and analytical results that comprised Yukon Geological Survey's contribution to this multi-jurisdictional resource assessment were presented at the 2016 CSPG GeoConvention (Hutchison and Fraser, 2016) and have been submitted for external publication by this author.

In support of the external publication, this YGS Open File report presents the detailed analytical methodologies and a non-interpretative compilation of outcrop and subsurface data specific to Yukon's Liard basin. It mainly comprises data collected in the 2012-2016 unconventional study, but also includes legacy data extracted from various sources (principally Geological Survey of Canada publications) on conventional source rock and reservoir potential.

This report is organized into two sections: a) a summary of the basin's geology, exploration history and ultimate resource potential; and b) detailed methods for each of the analytical techniques used to assess unconventional shale potential in the basin. Raw data, including formation tops and thicknesses, are presented in the suite of appendices.

BASIN SUMMARY

Regional Geology

Liard basin lies between the Rocky Mountains to the south and the Mackenzie Mountains to the north. The area includes the physiographic features of the Liard Plateau and parts of the southernmost Mackenzie Mountains. The basin constitutes the northernmost extension of the Western Canada Sedimentary Basin. In Yukon, the basin is approximately 6 500 km^2 in area (Fig. 1). Structures within Liard basin are characterized by northwesterly to northeasterly trending box folds and east-verging and west-verging thrust faults developed during the Cordilleran orogeny (Fallas *et al.*, 2014; NEB, 2001). Topographic lows are typically underlain by synclines containing Triassic and Cretaceous siliciclastic sedimentary rocks.

Depositional basement consists of the Neoproterozoic Pool Creek syenite and un-named Proterozoic siliciclastic and volcaniclastic sediments. These are unconformably overlain by a Cambrian through Middle Devonian sedimentary sequence consisting of continental shelf platformal limestone and dolostone that transition westwards into basinal shale (Fallas *et al.*, 2014). Locally within these carbonate rocks are coarsely crystalline, hydrothermally-dolomitised sediments termed the 'Manetoe' facies. This diagenetic facies has primary and vuggy to cavernous porosity (Morrow and Potter, 1998) and is one of two principal conventional reservoir targets for natural gas within Liard basin.

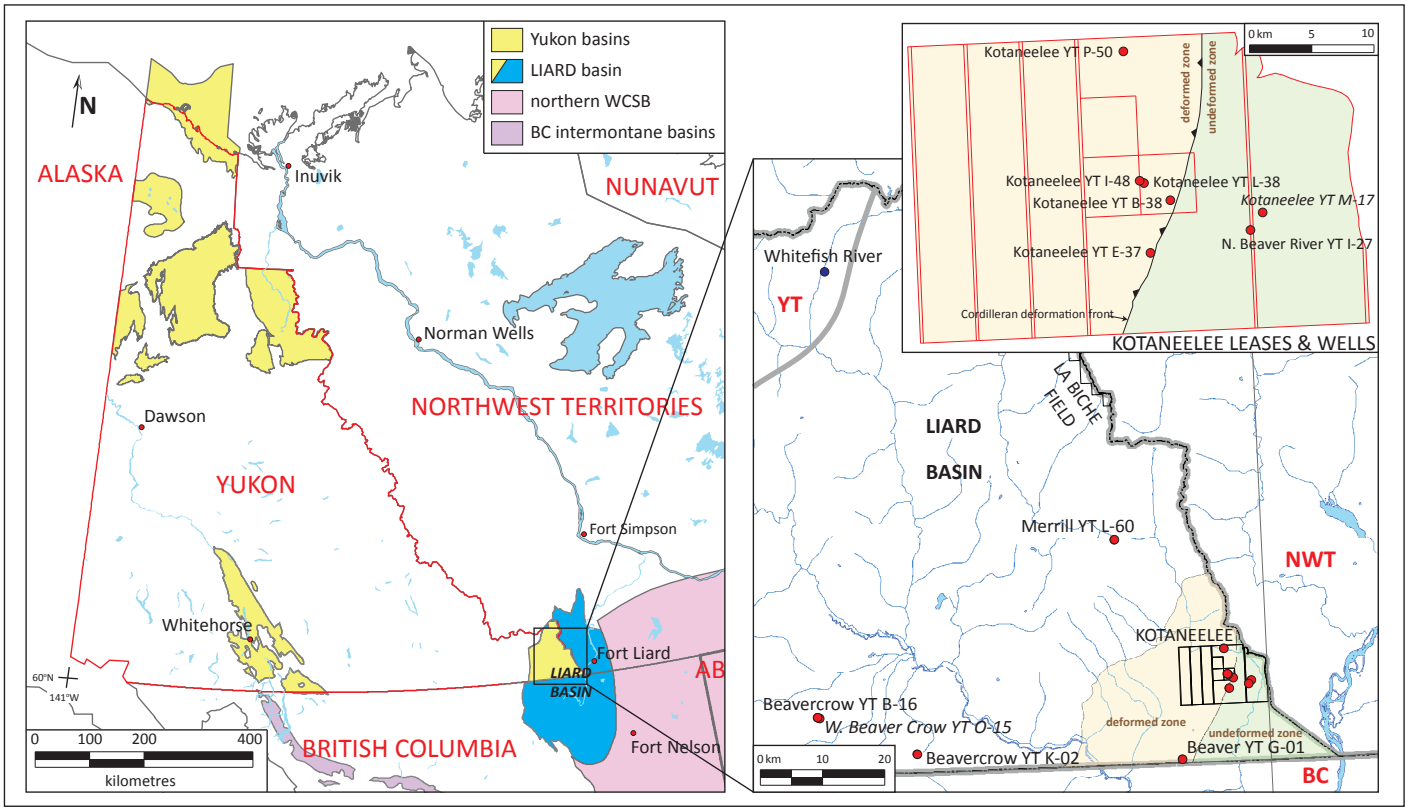


Figure 1. *Location map of Liard basin in northwest Canada, with the Yukon portion shaded in yellow. Wells in italics were not used in this study. The green and brown coloured zones relate to those areas assessed in the NEB (2016) resource calculations. Basins map modified from Mossop et al. (2004).*

Conformably overlying these carbonate rocks is fissile, grey to black marine shale of the Devonian to Carboniferous 'Besa River Formation' (Fig. 2): a generic historical unit now recognized to incorporate the distal, time-equivalent shale of the Horn River Group and Fort Simpson, Kotcho, Exshaw, Banff, Prophet and Golata formations in Yukon and northeastern BC (Hutchison and Fraser, 2016; Ferri *et al.*, 2015). New wireline log and cuttings analyses have facilitated differentiation of these individual shale units and the construction of a robust, basin-wide correlative framework across Yukon, BC and Northwest Territories (*e.g.*, NEB, 2016). The Carboniferous Prophet Formation is the basinal equivalent of the platformal Pekisko to Debolt formations of the Rundle Group, and in Yukon is thick and limestone-prone. It represents the second principal conventional reservoir target for natural gas in the basin.

Liard basin contains hydrocarbon bearing shale (source rocks) of Middle Devonian to Mississippian age within: the Horn River Group (Evie, Otter Park and Muskwa formations), the middle unit of the Fort Simpson Formation, the Patry shale (Kotcho Formation basinal equivalent), the Exshaw Formation and the Banff Formation. The NEB resource assessment of Liard basin recognizes two shale units as having the most potential for unconventional natural gas in Yukon's Liard basin: the Horn River shale and the Exshaw-Patry shale (NEB, 2016). These shales are restricted marine source rocks that correlate extensively across the Western Canada Sedimentary Basin.

The Golata Formation overlies the Rundle Group carbonate and calcareous shale facies in the basin. It is gradational with the Middle to Upper Mississippian Mattson Formation, and is the distal basinal shale equivalent of the proximal Mattson Formation deltaic complex. The Mattson delta prograded to the west-southwest and contains friable and porous sandstone interbedded with siltstone, shale, limestone, dolostone and minor chert (Fallas *et al.*, 2014). Permian and Triassic strata consist dominantly of chert and shallow

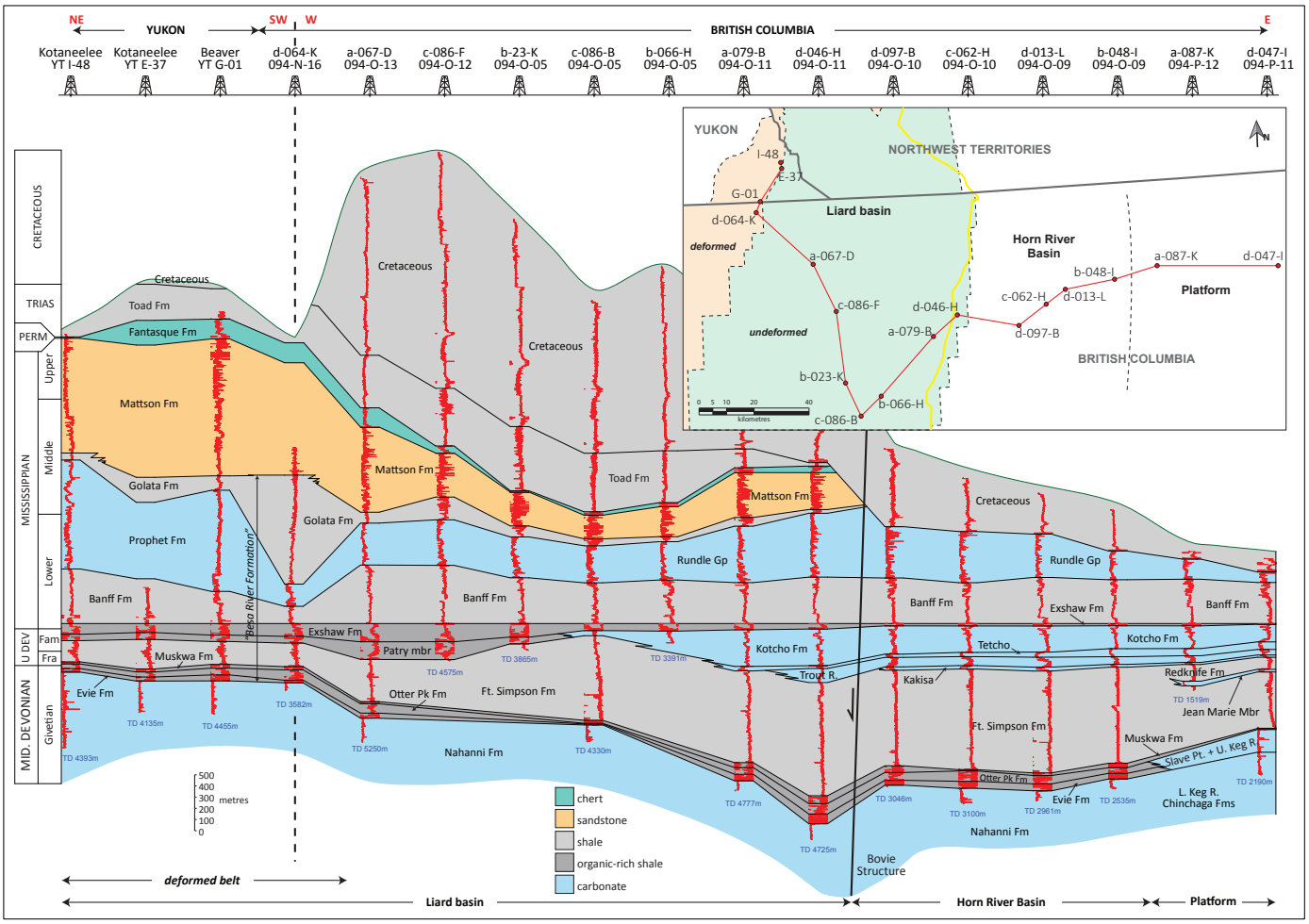


Figure 2. *Stratigraphic relationships of the Middle Devonian to Mississippian carbonate platform to shale basin succession in the northwestern WCSB. Note location of Apache's Patry well b-023-K in BC (referred to in text). The section, modified from Ferri et al. (2015), is hung from the top Exshaw Formation. Gamma ray logs are shown in red.*

water shale and siltstone of the Fantasque and Toad-Grayling formations respectively. Cretaceous marine sandstone and shale unconformably overlie all other units in the map area.

Exploration history

The first recorded evidence of active petroleum exploration was in 1955 with reconnaissance field work by California Standard, the predecessor to Chevron. The first well in Yukon was SOBC Shell Beavercrow YT K-02 completed in 1963. A total of 13 wells have been completed to date in Liard basin in southeast Yukon. Approximately 570 line-kilometres of two-dimensional seismic have also been acquired by industry.

Yukon contains portions of three discovered gas fields: the Beaver River Field, the Kotaneelee Field, and the La Biche Field. The Beaver River Field in Yukon is a former producer from well PanAm C-1 Beaver River YT G-01. Production from the Kotaneelee gas field is currently suspended. Both of these fields consist of pools and prospects hosted in fractured, diagenetic hydrothermal dolomite of the Manetoe facies within carbonate rocks of the Middle Devonian Arnica, Landry and Nahanni formations. The gas is structurally trapped above water in closures formed by anticlines, normal faults and reverse faults. Seal and source for the reservoirs are provided by shale of the Horn River Group.

The potential for unconventional exploration opportunities exists in the Liard basin. From 2009 to 2012, Apache Corporation drilled and validated a new unconventional Devonian age 'Besa River' shale gas play in the Liard basin of northeastern BC with net estimated sales gas of 48 Tcf over an area of 175 000 ha. Apache's D-34-K/94-O-5 well had a thirty-day initial production rate of 21 mmcf/d and an estimated ultimate recovery of 17.9 Bcf (Macedo, 2012). More than 400 conventional wells have been drilled in the northeastern part of Liard basin. Exploration targets for Devonian shale gas in Yukon's portion of Liard basin have been identified by EFL Overseas Inc. at Kotaneelee (EFLO, 2014), and by Lone Pine Resources Inc. at Pointed Mountain in Northwest Territories. To date, these unconventional reservoirs remain untested for their potential in either territory.

Play types and resource potential

Five immature but proven conventional gas plays have been identified in Liard basin (NEB, 2001). The mean total resource potential for all plays, calculated on a probabilistic basis, is 1.99 Tcf initial marketable gas and 0.015 million barrels of oil. The Manetoe facies dolomite, within the Nahanni Formation, is the only established play with proven discoveries and former production from the Beaver River and Kotaneelee gas fields (NEB, 2001). This play is a sour, acidic, dry gas play with 6-10% CO_2, and is considered the most significant one in the region. The Yukon portion of this play has a total discovered resource estimated at 0.503 Tcf gas in place and 0.184 Tcf initial marketable gas (NEB, 2001). The NEB (2001) also indicates that between a 90% and 10% probability confidence range in the Nahanni-Manetoe play there is a marketable gas potential of 295-3830 Bcf respectively, with a mean confidence of 1548 Bcf.

Unconventional play potential exists in two high quality source rocks within the Devonian-aged basinal shale succession: the Exshaw-Patry and Horn River shale. Although there has been no unconventional exploration drilling within Yukon, core and cuttings samples and wireline log signatures from wells that have drilled through these source rocks indicate that these unconventional reservoirs align very well with those drilled in Liard basin in northeastern British Columbia (*e.g.*, Hutchison and Fraser 2016). The NEB (2016) unconventional resource assessment indicates a total expected gas in place volume of 68 Tcf (47 Tcf from the Exshaw-Patry shale and 21 Tcf from the Horn River). Using an expected recovery factor of approximately 17% in Yukon, the NEB (2016) calculates dry expected ultimate recoveries of 7.8 Tcf from the Exshaw-Patry shale in the basin (the Horn River marketable gas was not calculated in this assessment). The total mean gas in place potential for Yukon from both conventional and unconventional resources is summarized in Table 1.

Table 1. *Yukon's oil and gas resource potential, reported as mean/expected in-place volumes. Data from: Hannigan (2000, 2001a, 2001b, 2014); Hannigan et al. (2000); Hayes (2012); NEB (2000, 2001, 2016); Osadetz et al. (2005).*

Basin	Mean gas potential (Bcf)	Mean oil potential (MMbbls)	Discovered gas (Bcf)	Discovered oil (MMbbls)
Kandik	649	99		
Beaufort-Mackenzie	1,008	217		
Bonnet Plume	800			
Eagle Plain	3,400	329	165	20
Liard - conventional	4,460	0.1	417	
Liard - unconventional	68,000			
Old Crow	1,149			
Peel Plateau & Plain	2,916			
Whitehorse Trough	380	17.5		
TOTAL	**82,762**	**662.6**	**582**	**20**

METHODS

Only those sampling and analytical methods used by the Yukon Geological Survey for this (2012-16) study are presented in this report. A summary of Yukon's entire Liard basin sample dataset is presented in Table 2 (*see* Fig. 1 for outcrop/well location map). The reference sources for all additional data compiled within this dataset are provided where applicable.

Table 2. *Outcrop and well sample dataset for Yukon's Liard basin. Note that sample depth ranges for Kotaneelee YT I-48 are presented in post-shift measured depth (see text for discussion).*

Section/well ID	UWI	Easting	Northing	UTM zone	Elevation (KB asl)	Deviated?	TD (mMD)
Beaver YT G-01	300/G-01-6010-12415/0	429467	6652839	10	797.60	yes	4499.50
Beavercrow YT B-16	300/B-16-6010-12515/0	371896	6663005	10	1152.40	no	2288.40
Beavercrow YT K-02	300/K-02-6010-12500/0	387353	6656330	10	1133.90	no	3976.10
Kotaneelee YT B-38	300/B-38-6010-12400/1	438289	6665340	10	685.80	yes	3898.10
Kotaneelee YT E-37	300/E-37-6010-12400/2	437588	6663894	10	621.20	yes	4191.00
Kotaneelee YT I-48	300/I-48-6010-12400/4	437308	6666031	10	832.70	yes	4430.00
Kotaneelee YT I-48A	300/I-48-6010-12400/5	437308	6666031	10	832.70	yes	3915.00
Kotaneelee YT L-38A	300/L-38-6010-12400/0	437710	6666092	10	810.40	yes	4124.00
Kotaneelee YT M-17	300/M-17-6010-12400/1	441087	6664393	10	419.10	no	1333.00
Kotaneelee YT P-50	300/P-50-6010-12400/0	437108	6670086	10	454.20	yes	4410.50
Merrill YT L-60	300/L-60/6020-12415/0	420757	6688450	10	594.40	no	1634.30
North Beaver River YT I-27	300/I-27-6010-12540/3	440735	6664293	10	1445.80	yes	4418.10
West Beaver Crow YT O-15	300/O-15-6010-12515/0	372211	6662860	10	1147.90	yes	4418.10
Whitefish River	outcrop	378293	6734735	10			254.00

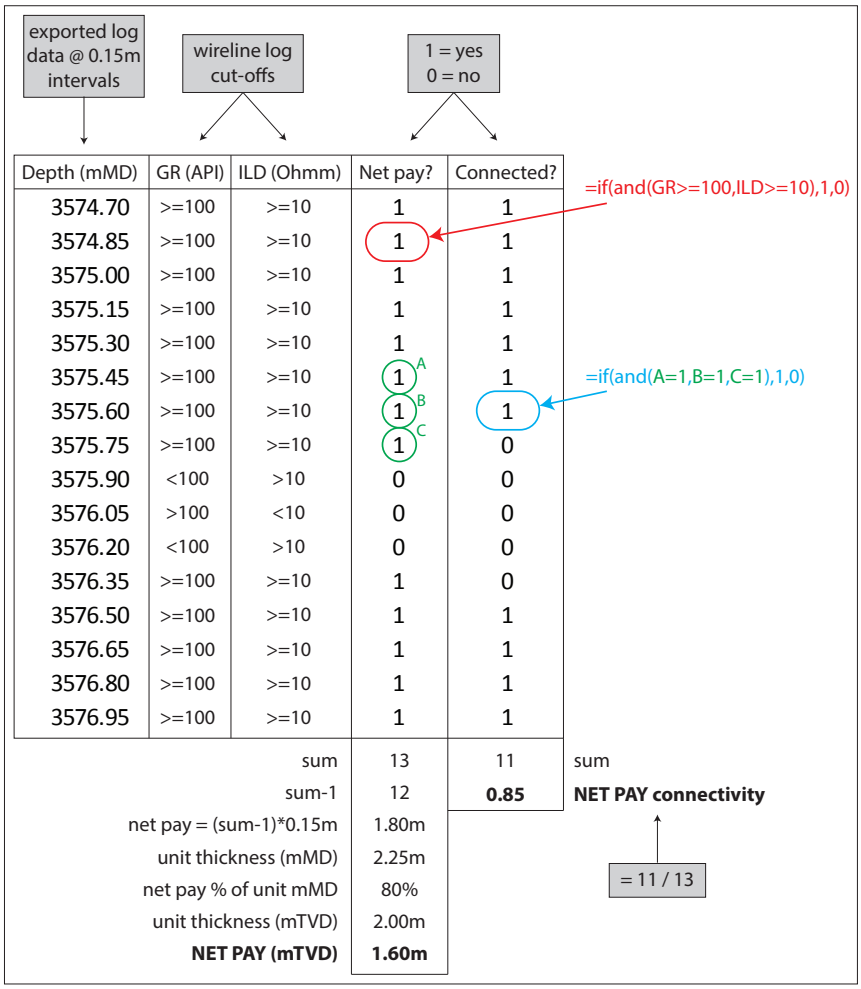
	SAMPLE RANGES (mMD)														
Section/ well ID	Rock-Eval/TOC			Vitrinite reflectance			ICP-ES/MS			$\delta^{13}C_{org}$ (+TOC)			Porosity		
	No.	Top	Base	No.	Top	Base	No.	Top	Base	No.	Top	Base	No.	Top	Base
G-01	241	124.70	4395.52	69	125.00	4396.00	76	3529.58	4123.94	n/s			4	3608.83	4099.56
B-16	78	1189.00	1710.00	1	1505.71		17	1453.90	1563.62	n/s			n/s		
K-02	53	935.74	1423.42	5	1018.30	1402.08	50	972.31	1423.42	n/s			n/s		
B-38	n/s			n/s			n/s			n/s			n/s		
E-37	86	3413.76	3958.44	n/s			n/s			n/s			5	3478.68	3883.30
I-48	232	801.72	3640.00	5	3207.00	3634.00	114	3030.00	3697.00	184	2982.00	3684.00	1	3225.00	
I-48A	n/s			n/s			n/s			n/s			n/s		
L-38A	n/s			n/s			n/s			n/s			n/s		
M-17	n/s			n/s			n/s			n/s			n/s		
P-50	n/s			n/s			n/s			n/s			n/s		
L-60	27	1024.13	1514.86	1	1136.90		n/s			n/s			n/s		
I-27	95	963.17	3819.00	42	45.72	3816.80	19	3611.88	3712.46	n/s			1	3621.02	
O-15	n/s			n/s			n/s			n/s			n/s		
Whitefish River	94	0.00	254.00	2	0.00	254.00	94	0.00	254.00	n/s			n/s		
	906			**125**			**370**			**184**			**11**		

Outcrop samples consist of homogenized, 2 m intervals of fresh rock chips. Samples were not collected from heavily weathered exposures. Each outcrop sample was sent to Bureau Veritas Laboratories (BVL) in Whitehorse to be crushed. The resultant pulps were riffle-split, with half shipped to BVL in Vancouver for lithogeochemical analysis and half shipped to the Geological Survey of Canada (GSC) for Rock-Eval/TOC analysis.

Yukon well cuttings were sampled at the Geological Survey of Canada's core repository in Calgary during early December 2014 and transported to Whitehorse for subsequent preparation (washing, picking and weighing). Cuttings were sampled and approximately every third bag (30 ft/9 m) in the wells selected, and every bag (10 ft/3 m) sampled in Kotaneelee YT I-48 from top Banff Formation into the Nahanni Formation. Cuttings were also sampled for vitrinite reflectance analysis every 500 ft (156 m) over the entire penetrated stratigraphy in North Beaver River YT I-27 in order to build a complete thermal maturation profile for this well. Cuttings samples were sieved using a 35 grade (500 µm) sieve and the larger fraction retained and washed to remove drilling fluids or buoyant additives (*e.g.*, walnut shells). The remaining sample was then hand-picked to retain the largest, most competent cuttings chips and to remove rusted ironwork (sheared drill bit?) prior to being weighed for shipment to the laboratory.

Depth, thickness & net pay calculation

Re-interpreted formation tops, depths, gross thicknesses and net unconventional pay thicknesses are presented in Appendix A. Depth and thickness data are given in both metric and imperial units in measured depth (mMD or ftMD) and true vertical depth (mTVD or ftTVD). Data from vertical wells are provided in TVD only. Formation tops were picked using wireline logs only, with the exception of the top Patry shale which was picked on the basis of its distinctive geochemical signature. Log data were plotted in mMD (due to samples being referenced to measured rather than true vertical depth) using version 5.1 of ALT's WellCAD software. GeoSCOUT software was used to generate equivalent TVD and thickness data. The methodology for calculating net pay and net pay connectivity is presented in Figure 3.



Depth (mMD)	GR (API)	ILD (Ohmm)	Net pay?	Connected?
3574.70	>=100	>=10	1	1
3574.85	>=100	>=10	1	1
3575.00	>=100	>=10	1	1
3575.15	>=100	>=10	1	1
3575.30	>=100	>=10	1	1
3575.45	>=100	>=10	1	1
3575.60	>=100	>=10	1	1
3575.75	>=100	>=10	1	0
3575.90	<100	>10	0	0
3576.05	>100	<10	0	0
3576.20	<100	>10	0	0
3576.35	>=100	>=10	1	0
3576.50	>=100	>=10	1	1
3576.65	>=100	>=10	1	1
3576.80	>=100	>=10	1	1
3576.95	>=100	>=10	1	1
		sum	13	11
		sum-1	12	**0.85**
		net pay = (sum-1)*0.15m	1.80m	
		unit thickness (mMD)	2.25m	
		net pay % of unit mMD	80%	
		unit thickness (mTVD)	2.00m	
		NET PAY (mTVD)	**1.60m**	

sum

NET PAY connectivity

Figure 3. *Method for calculating net pay and net pay connectivity from exported GR and ILD wireline log data.*

Rock-Eval & TOC analysis

Outcrop and well cuttings were analyzed using a Rock-Eval 6 Turbo (RE 6) instrument at the GSC's Organic Petrology Laboratory in Calgary. The RE 6 instrument uses nitrogen as the pyrolysis gas to allow for more accurate temperature

control (Obermajer *et al.*, 2012; also *see* Behar *et al.*, 2001 for further details on the RE 6 unit). Sample pulps are first heated at 300°C for three minutes to volatize naturally occurring free and adsorbed hydrocarbon, followed by ramped heating at a rate of 25°C/minute to a temperature of 650°C when decomposition of kerogen occurs. The initially volatized hydrocarbon and hydrocarbon evolved from kerogen are quantitatively determined using a flame ionization detector and recorded as the S1 and S2 peaks respectively. Finally, the residual organic matter is oxidised and combusted at 850°C. The Tmax parameter is calculated by subtracting approximately 40°C from Tpeak (the temperature at the maximum S2 peak), and the amounts of CO and CO_2 are quantitatively determined by infrared detectors. The carbon percentage in the CO_2 formed during oxidation and during generation of the S1 and S2 peaks is used to calculate the TOC (expressed as a weight percentage). Rock-Eval and TOC data are presented in Appendix B.

Vitrinite reflectance analysis

Samples were analyzed at the GSC's Organic Petrology Laboratory in Calgary using standard procedures based on Mackowsky (1982), and further detailed in Reyes *et al.* (2013). Unwashed cuttings were crushed into 1-5 mm particulates and then epoxy-mounted and polished. A Leitz reflected-light microscope with an oil immersion objective, and white and fluorescent light sources, was used to make random reflectance ($\%Ro_{random}$) measurements, and the readings taken by a Leitz MPV II-COMBI photometer. Reflectance was calibrated using Schott precision glass standards, and the microscope was calibrated before and mid-way through each analysis in accordance with standard procedures. Reflectance measurements were made on vitrinite, bituminite and bitumen macerals, together with alginite and sporinite-derived macerals. In the absence of vitrinite, vitrinite equivalent ($\%Ro_{equivalent}$) was calculated using the measured reflectance of bitumen ($\%Ro_{bitumen}$) or pyrobitumen ($\%Ro_{pyrobitumen}$) and equations from Jacob (1989). Data presented in Appendix C include maceral type, average %Ro, the standard deviation and number of particulates measured for each sample where available.

Lithogeochemical analysis

Outcrop and cuttings samples were subject to total whole rock geochemical characterization (analytical package code LF202) at BVL in Vancouver. Samples were pulverised so that 85% of material passed through a 200 grade mesh sieve and washed using an extra silica wash with glass between each sample. Pulps were then subject to aqua regia acid digestion and analyzed for 21 standard major oxides via ICP-ES, and 45 standard trace elements via ICP-MS. Leco carbon and sulphur concentrations were also obtained as part of the major oxide analytical package. Key element and oxide concentrations were used to determine: chemical gamma ray (chemGR); redox enrichment factors (Ef TE, where TE = redox sensitive trace element); terrigenous influx profiles (TIP); and mineralogical stiffness ranks (MSR) using the following calculations:

- $chemGR = (0.83 * 16.32 * K\%) + (8.08 * U_{ppm}) + (3.93 * Th_{ppm})$: after Rider (2002), modified to convert K_2O to K (G. Hildred, 2015, pers. comm.)
- $Ef\ TE = (TE_{sample} / Al_{sample}) / (TE_{avshale} / Al_{avshale})$: from Tribovillard *et al.* (2006)
- $TIP = Al_2O_3 + TiO_2 + Na_2O + K_2O$: modified from Pyle *et al.* (2014)
- $MSR = (SiO_2 + MgO + CaO) / (SiO_2 + MgO + CaO + Al_2O_3)$: modified from Wang & Gale (2009), c.f. Tinnin *et al.* (2014)

In Kotaneelee YT I-48, up-section sample depth shifts of 8 m below and 6 m above 3543 mMD were required. These were identified by comparing the down-hole wireline GR to the chemGR curve calculated from K, U and Th concentrations using the above equation. Lithogeochemical data from Yukon's Liard basin are presented in Appendix D.

$\delta^{13}C_{org}$ stable isotope analysis

In total, 184 samples from Kotaneelee YT I-48 were analyzed for $\delta^{13}C_{org}$ stable isotopes by Iso-analytical Ltd in the UK (on behalf of Chemostrat Canada Ltd.). Weighed sub-samples were first subject to preparatory carbonate removal by acidification with 2M hydrochloric acid followed by oven heating (2 hours at 60°C) and subsequent natural drying for 24 hours to allow all carbonate to be liberated as CO_2. The sample fractions were then isolated and washed by centrifugation with distilled water, then oven dried at 60°C before finally being re-ground *in situ* ready for Elemental Analyser – Isotope Ratio Mass Spectrometry (EA-IRMS) analysis at 1700°C. Samples and reference material were analyzed in a batch process using a Europa Scientific 20-20 IRMS instrument (Fig. 4).

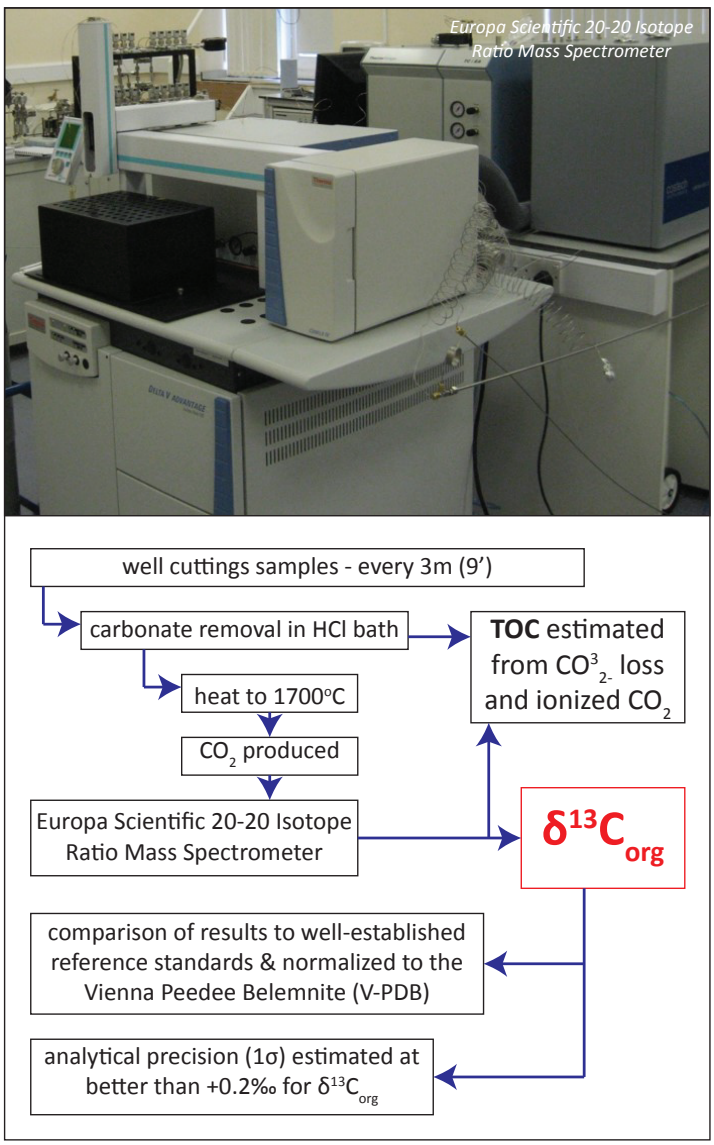


Figure 4. *Stable carbon isotope analysis workflow chart (modified from Hutchison et al., 2015). Mass spectrometer photograph courtesy of Chemostrat Canada Ltd.*

The reference material used for the analysis was IA-R001 (wheat flour, $\delta^{13}C_{V\text{-}PDB}$=-26.43‰). For quality control purposes, check samples of IA-R005 (beet sugar, $\delta^{13}C_{V\text{-}PDB}$=-26.03‰) and IA-R006 (cane sugar, $\delta^{13}C_{V\text{-}PDB}$=-11.64‰) were also analyzed. All three IA reference samples were calibrated and traceable to IAEA-CH-6 (sucrose, $\delta^{13}C_{V\text{-}PDB}$=-10.43‰), an inter-laboratory comparison standard distributed by the International Atomic Energy Agency (IAEA) in Vienna.

The total ionized CO_2 beam data from the mass spectrometer were also used to determine the carbon percentage of the samples. Together with the weight loss percentages acquired from the acid washing process, these data were used to calculate the total organic carbon (TOC) percentage for each sample. All sample results are presented in Appendix E.

Porosity analysis

Porosity data are presented in Appendix F. Six cuttings samples were subjected to mercury porosimetry analysis at Trican Geological Solutions Ltd. in Calgary. Each sample was vacuum oven dried, loaded into a 3 cc powder penetrometer with a 0.412 cc stem and tested using a Micrometrics Autopore 9520 mercury porosimeter. The initial stage of the test involved low pressure mercury intrusion in several pressure steps from vacuum to 30 psi during

which bulk density was calculated. The second stage involved high pressure mercury intrusion in several steps from 30 to 60 000 psi. A variation of Washburn's (1921) equation was used to calculate pore size distribution from applied pressure and the consistent attributes of triple distilled mercury (Trican, 2016a).

Five 1.18 inch (29.972 mm) core plug samples from Kotaneelee YT E-37 were subjected to helium stress porosity analysis at Trican Geological Solutions Ltd. in Calgary. After end trimming, each plug was solvent extracted via the Dean Stark method to remove free fluids and then weighed and dimensioned prior to confined pressure testing in a modified Hoek cell. Radial confining pressure was applied to the sample via an external hydraulic pump connected to the membrane jacket of the cell and the pressure increased from atmospheric to 300 psi (2.07 MPa). Three distinct helium gas pressure regimes were produced during testing, and the porosity of the sample was calculated from the difference between the bulk volume and sample (skeletal) volume at each stress condition (Trican, 2016b).

ATFERWORD

This report presents the detailed analytical methodologies and a non-interpretative compilation of outcrop and subsurface data specific to Yukon's Liard basin. In addition to supporting external publication and conference presentation materials authored by the Yukon Geological Survey on the unconventional potential of Liard basin, this report now represents an up-to-date, sole-source dataset that can be interrogated by industry and academia during future exploration or research programs in the basin. This dataset will also be a useful reference document for YGS personnel who hold responsibility for processing industry sample requests – in Yukon, well material from a specific depth is prohibited from being tested using the same analytical technique on multiple occasions.

ACKNOWLEDGEMENTS

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APPENDIX A Reinterpreted formation tops, depths, gross thickness and net unconventional pay thickness.

Well/section ID	Stratigraphy	MEASURED DEPTH				TRUE VERTICAL DEPTH								
		top (m)	top (ft)	thickness (m)	thickness (ft)	elevation (m)	elevation (ft)	top (m)	top (ft)	thickness (m)	thickness (ft)	pay (m)	pay (ft)	pay connectivity
Beaver YT G-01	Fort St John	5.20	17.06	116.70	382.87	792.40	2599.74	5.20	17.06	116.70	382.87			
	Toad-Grayling	121.90	399.93	312.20	1024.28	675.70	2216.86	121.90	399.93	312.20	1024.28			
	Fantasque	434.10	1424.21	202.80	665.35	363.50	1192.59	434.10	1424.21	202.80	665.35			
	Mattson	636.90	2089.57	1397.90	4586.29	160.70	527.23	636.90	2089.57	1395.40	4578.08			
	Golata	2034.80	6675.85	144.70	474.74	-1234.70	-4050.85	2032.30	6667.65	143.20	469.82			
	Prophet	2179.50	7150.59	1024.30	3360.56	-1377.90	-4520.67	2175.50	7137.47	1014.70	3329.07			
	Banff - *shale*	3203.80	10511.16	300.60	986.22	-2392.60	-7849.74	3190.20	10466.54	298.60	979.66			
	Banff - *carbonate*	3504.40	11497.38	26.00	85.30	-2691.20	-8829.40	3488.80	11446.19	25.90	84.97			
	Exshaw	3530.40	11582.68	113.40	372.05	-2717.10	-8914.37	3514.70	11531.17	111.90	367.13	74.30	243.77	0.87
	Patry	3643.80	11954.72	68.40	224.41	-2829.00	-9281.50	3626.60	11898.29	66.80	219.16	42.34	138.91	0.90
	Fort Simpson - *upper*	3712.20	12179.13	53.10	174.21	-2895.80	-9500.66	3693.40	12117.45	51.80	169.95			
	Fort Simpson - *middle*	3765.30	12353.35	60.00	196.85	-2947.60	-9670.60	3745.20	12287.40	58.50	191.93			
	Fort Simpson - *lower*	3825.30	12550.20	118.70	389.44	-3006.10	-9862.53	3803.70	12479.33	114.60	375.98			
	Muskwa	3944.00	12939.63	37.60	123.36	-3120.70	-10238.52	3918.30	12855.32	35.90	117.78	22.34	73.29	0.91
	Otter Park	3981.60	13062.99	69.20	227.03	-3156.60	-10356.30	3954.20	12973.10	65.80	215.88	36.80	120.73	0.81
	Evie	4050.80	13290.03	61.30	201.12	-3222.40	-10572.18	4020.00	13188.98	58.40	191.60	41.73	136.91	0.86
	Nahanni	4112.10	13491.14	387.40	1271.00	-3280.80	-10763.78	4078.40	13380.58	376.30	1234.58			
	TD	**4499.50**	**14762.14**			**-3657.10**	**-11998.36**	**4454.70**	**14615.16**					
Beavercrow YT B-16	Mattson					1148.10	3766.73	4.30	14.11	1219.47	4000.89			
	Golata					-71.37	-234.15	1223.77	4014.99	29.57	97.01			
	Prophet					-100.94	-331.17	1253.34	4112.01	39.01	127.99			
	Banff - *shale*					-139.95	-459.15	1292.35	4239.99	146.55	480.81			
	Banff - *carbonate*					-286.50	-939.96	1438.90	4720.80	14.60	47.90			
	Exshaw					-301.10	-987.86	1453.50	4768.70	50.60	166.01	44.85	147.15	0.96
	Patry					-351.70	-1153.87	1504.10	4934.71	44.90	147.31	37.20	122.05	0.92
	Fort Simpson - *upper*					-396.60	-1301.18	1549.00	5082.02	13.10	42.98			
	Fort Simpson - *middle*					-409.70	-1344.16	1562.10	5125.00	35.80	117.45			
	Fort Simpson - *lower*					-445.50	-1461.61	1597.90	5242.45	23.00	75.46			
	Muskwa					-468.50	-1537.07	1620.90	5317.91	26.70	87.60	25.95	85.14	0.98
	Otter Park					-495.20	-1624.67	1647.60	5405.51	34.90	114.50	13.95	45.77	0.91
	Evie					-530.10	-1739.17	1682.50	5520.01	39.62	129.99	8.55	28.05	0.93
	Nahanni					-569.72	-1869.16	1722.12	5650.00	167.08	548.16			
	Arnica					-736.80	-2417.32	1889.20	6198.16	399.20	1309.71			
	TD					**-1136.00**	**-3727.03**	**2288.40**	**7507.87**					
Beavercrow YT K-02	Mattson					1129.20	3704.72	4.70	15.42	595.00	1952.10			
	Golata					534.20	1752.62	599.70	1967.52	135.50	444.55			
	Prophet					398.70	1308.07	735.20	2412.07	120.00	393.70			
	Banff - *shale*					278.70	914.37	855.20	2805.77	100.40	329.40			
	Banff - *carbonate*					178.30	584.97	955.60	3135.17	24.90	81.69			
	Exshaw					153.40	503.28	980.50	3216.86	61.80	202.76	39.15	128.44	0.88
	Patry					91.60	300.52	1042.30	3419.62	93.90	308.07	30.00	98.43	0.83
	Fort Simpson - *upper*					-2.30	-7.55	1136.20	3727.69	48.00	157.48			
	Fort Simpson - *middle*					-50.30	-165.03	1184.20	3885.17	30.10	98.75			
	Fort Simpson - *lower*					-80.40	-263.78	1214.30	3983.92	59.00	193.57			
	Muskwa					-139.40	-457.35	1273.30	4177.49	42.00	137.80	22.50	73.82	0.79
	Otter Park					-181.40	-595.14	1315.30	4315.29	52.70	172.90	9.45	31.00	0.70
	Evie					-234.10	-768.04	1368.00	4488.19	37.70	123.69	9.00	29.53	0.69
	Nahanni					-271.80	-891.73	1405.70	4611.88	48.20	158.14			
	Manetoe					-320.00	-1049.87	1453.90	4770.01	2005.00	6578.08			
	Delorme					-2325.00	-7627.95	3458.90	11348.10	424.60	1393.04			
	Whittaker					-2749.60	-9021.00	3883.50	12741.14	92.60	303.81			
	TD					**-2842.20**	**-9324.80**	**3976.10**	**13044.95**					
Kotaneelee YT B-38	Toad-Grayling	235.31	772.01	101.50	333.01	450.49	1477.99	235.31	772.01	101.50	333.01			

APPENDIX A Reinterpreted formation tops, depths, gross thickness and net unconventional pay thickness.

Well/section ID	Stratigraphy	MEASURED DEPTH				TRUE VERTICAL DEPTH								
		top (m)	top (ft)	thickness (m)	thickness (ft)	elevation (m)	elevation (ft)	top (m)	top (ft)	thickness (m)	thickness (ft)	pay (m)	pay (ft)	pay connectivity
	Fantasque	336.81	1105.02	168.60	553.15	348.99	1144.98	336.81	1105.02	168.60	553.15			
	Mattson	505.41	1658.17	1133.20	3717.85	180.39	591.83	505.41	1658.17	1128.19	3701.41			
	Golata	1638.61	5376.02	49.70	163.06	-947.80	-3109.58	1633.60	5359.58	49.20	161.42			
	Prophet	1688.31	5539.07	958.80	3145.67	-997.00	-3271.00	1682.80	5521.00	951.50	3121.72			
	Banff - *shale*	2647.11	8684.74	376.60	1235.56	-1948.50	-6392.72	2634.30	8642.72	375.70	1232.61			
	Banff - *carbonate*	3023.71	9920.31	57.20	187.66	-2324.20	-7625.33	3010.00	9875.33	57.00	187.01			
	Exshaw	3080.91	10107.97	87.10	285.76	-2381.20	-7812.34	3067.00	10062.34	86.80	284.78	41.41	135.86	0.95
	Patry	3168.01	10393.73	60.75	199.31	-2468.00	-8097.11	3153.80	10347.11	60.60	198.82	60.45	198.33	1.00
	Fort Simpson - *upper*	3228.76	10593.04	76.85	252.13	-2528.60	-8295.93	3214.40	10545.93	76.60	251.31			
	Fort Simpson - *middle*	3305.61	10845.18	51.90	170.28	-2605.20	-8547.24	3291.00	10797.24	51.70	169.62			
	Fort Simpson - *lower*	3357.51	11015.45	99.00	324.80	-2656.90	-8716.86	3342.70	10966.86	98.60	323.49			
	Muskwa	3456.51	11340.26	14.80	48.56	-2755.50	-9040.35	3441.30	11290.35	14.70	48.23	14.60	47.90	0.98
	Otter Park	3471.31	11388.81	41.50	136.15	-2770.20	-9088.58	3456.00	11338.58	41.20	135.17	40.21	66.31	0.99
	Evie	3512.81	11524.97	32.80	107.61	-2811.40	-9223.75	3497.20	11473.75	32.60	106.96	24.30	79.72	0.95
	Nahanni	3545.61	11632.58	352.49	1156.46	-2844.00	-9330.71	3529.80	11580.71	350.00	1148.29			
	TD	**3898.10**	**12789.04**			**-3194.00**	**-10479.00**	**3879.80**	**12729.00**					
Kotaneelee YT E-37	Toad-Grayling	265.18	870.00	332.23	1089.99	356.00	1167.98	265.20	870.08	331.90	1088.91			
	Fantasque	597.41	1960.01	219.45	719.98	24.10	79.07	597.10	1958.99	219.20	719.16			
	Mattson	816.86	2679.99	1216.16	3990.03	-195.10	-640.09	816.30	2678.15	1197.60	3929.13			
	Golata	2033.02	6670.01	228.60	750.00	-1392.70	-4569.23	2013.90	6607.28	221.70	727.36			
	Prophet	2261.62	7420.01	703.17	2306.99	-1614.40	-5296.59	2235.60	7334.65	688.70	2259.51			
	Banff - *shale*	2964.79	9727.00	345.21	1132.58	-2303.10	-7556.10	2924.30	9594.16	337.40	1106.96			
	Banff - *carbonate*	3310.00	10859.58	56.90	186.68	-2640.50	-8663.06	3261.70	10701.12	55.90	183.40			
	Exshaw	3366.90	11046.26	82.20	269.69	-2696.40	-8846.46	3317.60	10884.51	81.30	266.73	50.14	164.50	0.96
	Patry	3449.10	11315.95	58.90	193.24	-2777.70	-9113.19	3398.90	11151.25	58.40	191.60	55.48	182.02	0.97
	Fort Simpson - *upper*	3508.00	11509.19	79.70	261.48	-2836.10	-9304.79	3457.30	11342.85	79.10	259.51			
	Fort Simpson - *middle*	3587.70	11770.67	80.40	263.78	-2915.20	-9564.30	3536.40	11602.36	79.60	261.15			
	Fort Simpson - *lower*	3668.10	12034.45	113.10	371.06	-2994.80	-9825.46	3616.00	11863.52	111.80	366.80			
	Muskwa	3781.20	12405.51	25.20	82.68	-3106.60	-10192.26	3727.80	12230.32	25.10	82.35	23.61	77.46	0.96
	Otter Park	3806.40	12488.19	49.30	161.75	-3131.70	-10274.61	3752.90	12312.66	49.10	161.09	45.71	149.97	0.96
	Evie	3855.70	12649.93	36.70	120.41	-3180.80	-10435.70	3802.00	12473.75	36.30	119.09	32.49	106.59	0.95
	Nahanni	3892.40	12770.34	298.60	979.66	-3217.10	-10554.79	3838.30	12592.85	296.50	972.77			
	TD	**4191.00**	**13750.00**			**-3513.60**	**-11527.56**	**4134.80**	**13565.62**					
Kotaneelee YT I-48	Toad-Grayling	5.40	17.72	251.10	823.82	827.30	2714.24	5.40	17.72	251.00	823.49			
	Mattson	256.50	841.54	1172.20	3845.80	576.30	1890.75	256.40	841.21	1163.20	3816.27			
	Golata	1428.70	4687.34	65.70	215.55	-586.90	-1925.52	1419.60	4657.48	64.40	211.29			
	Prophet	1494.40	4902.89	1105.20	3625.98	-651.30	-2136.81	1484.00	4868.77	1092.70	3584.97			
	Banff - *shale*	2599.60	8528.87	497.10	1630.91	-1744.00	-5721.78	2576.70	8453.74	492.50	1615.81			
	Banff - *carbonate*	3096.70	10159.78	56.50	185.37	-2236.50	-7337.60	3069.20	10069.55	56.20	184.38			
	Exshaw	3153.20	10345.14	113.40	372.05	-2292.70	-7521.98	3125.40	10253.94	112.80	370.08	55.06	180.64	0.86
	Patry	3266.60	10717.19	61.40	201.44	-2405.50	-7892.06	3238.20	10624.02	61.20	200.79	59.21	194.26	0.99
	Fort Simpson - *upper*	3328.00	10918.64	69.50	228.02	-2466.70	-8092.85	3299.40	10824.80	69.00	226.38			
	Fort Simpson - *middle*	3397.50	11146.65	63.40	208.01	-2535.70	-8319.23	3368.40	11051.18	62.90	206.36			
	Fort Simpson - *lower*	3460.90	11354.66	88.00	288.71	-2598.60	-8525.59	3431.30	11257.55	87.40	286.75			
	Muskwa	3548.90	11643.37	16.30	53.48	-2686.00	-8812.34	3518.70	11544.29	16.20	53.15	12.37	40.58	0.93
	Otter Park	3565.20	11696.85	46.00	150.92	-2702.20	-8865.49	3534.90	11597.44	45.50	149.28	41.54	136.29	0.96
	Evie	3611.20	11847.77	36.50	119.75	-2747.70	-9014.76	3580.40	11746.72	36.20	118.77	35.85	117.62	0.98
	Nahanni	3647.70	11967.52	291.30	955.71	-2783.90	-9133.53	3616.60	11865.49	288.00	944.88			
	Headless	3939.00	12923.23	58.00	190.29	-3071.90	-10078.41	3904.60	12810.37	57.40	188.32			
	Arnica	3997.00	13113.52	433.00	1420.60	-3129.30	-10266.73	3962.00	12998.69	430.60	1412.73			
	TD	**4430.00**	**14534.12**			**-3559.90**	**-11679.46**	**4392.60**	**14411.42**					
Kotaneelee YT L-38A	Exshaw	3311.60	10864.83	76.50	250.98	-2297.83	-7538.81	3108.23	10197.61	68.60	225.07			
	Patry	3388.10	11115.81	81.30	266.73	-2366.43	-7763.88	3176.83	10422.67	73.58	241.40			

APPENDIX A Reinterpreted formation tops, depths, gross thickness and net unconventional pay thickness.

Well/section ID	Stratigraphy	MEASURED DEPTH				TRUE VERTICAL DEPTH								
		top (m)	top (ft)	thickness (m)	thickness (ft)	elevation (m)	elevation (ft)	top (m)	top (ft)	thickness (m)	thickness (ft)	pay (m)	pay (ft)	pay connectivity
	Fort Simpson - *upper*	3469.40	11382.55	97.10	318.57	-2440.01	-8005.28	3250.41	10664.08	87.94	288.52			
	Fort Simpson - *middle*	3566.50	11701.12	76.50	250.98	-2527.95	-8293.80	3338.35	10952.59	70.10	229.99			
	Fort Simpson - *lower*	3643.00	11952.10	103.80	340.55	-2598.05	-8523.79	3408.45	11182.58	94.13	308.83			
	Muskwa	3746.80	12292.65	24.30	79.72	-2692.18	-8832.61	3502.58	11491.40	22.19	72.80			
	Otter Park	3771.10	12372.38	126.30	414.37	-2714.37	-8905.41	3524.77	11564.21	102.38	335.89			
	Evie	3897.40	12786.75	49.30	161.75	-2816.75	-9241.31	3627.15	11900.10	36.83	120.83			
	Nahanni	3946.70	12948.49	228.30	749.02	-2853.58	-9362.14	3663.98	12020.93	101.20	332.02			
	TD	**4175.00**	**13697.51**			**-2954.78**	**-9694.16**	**3765.18**	**12352.95**					
Kotaneelee YT P-50	Fort St John	4.50	14.76	432.50	1418.96	449.70	1475.39	4.50	14.76	432.50	1418.96			
	Toad-Grayling	437.00	1433.73	1240.40	4069.55	17.20	56.43	437.00	1433.73	1236.90	4058.07			
	Prophet	1677.40	5503.28	1841.30	6041.01	-1219.70	-4001.64	1673.90	5491.80	1821.70	5976.71			
	Banff - *shale*	3518.70	11544.29	513.90	1686.02	-3041.40	-9978.35	3495.60	11468.50	504.00	1653.54			
	Banff - *carbonate*	4032.60	13230.32	14.50	47.57	-3545.40	-11631.89	3999.60	13122.05	13.10	42.98			
	Exshaw	4047.10	13277.89	25.00	82.02	-3558.50	-11674.87	4012.70	13165.03	22.50	73.82			
	Patry	4072.10	13359.91	33.20	108.92	-3581.00	-11748.69	4035.20	13238.85	29.80	97.77			
	Fort Simpson - *upper*	4105.30	13468.83	70.20	230.31	-3610.80	-11846.46	4065.00	13336.61	63.10	207.02			
	Fort Simpson - *middle*	4175.50	13699.15	46.30	151.90	-3673.90	-12053.48	4128.10	13543.64	41.60	136.48			
	Fort Simpson - *lower*	4221.80	13851.05	43.60	143.04	-3715.50	-12189.96	4169.70	13680.12	39.20	128.61			
	Muskwa	4265.40	13994.09	15.30	50.20	-3754.70	-12318.57	4208.90	13808.73	13.70	44.95	6.72	22.05	0.88
	Otter Park	4280.70	14044.29	55.70	182.74	-3768.40	-12363.52	4222.60	13853.67	50.10	164.37	42.36	138.98	0.92
	Evie	4336.40	14227.03	53.30	174.87	-3818.50	-12527.89	4272.70	14018.05	47.90	157.15	41.65	136.65	0.97
	Nahanni	4389.70	14401.90	20.80	68.24	-3866.40	-12685.04	4320.60	14175.20	18.70	61.35			
	TD	**4410.50**	**14470.14**			**-3885.10**	**-12746.39**	**4339.30**	**14236.55**					
Merrill YT L-60	Mattson					590.60	1937.66	3.80	12.47	148.60	487.53			
	Golata					442.00	1450.13	152.40	500.00	402.80	1321.52			
	Prophet					39.20	128.61	555.20	1821.52	365.90	1200.46			
	Banff - *shale*					-326.70	-1071.85	921.10	3021.98	129.50	424.87			
	Banff - *carbonate*					-456.20	-1496.72	1050.60	3446.85	31.40	103.02			
	Exshaw					-487.60	-1599.74	1082.00	3549.87	54.00	177.17	38.40	125.98	0.90
	Patry					-541.60	-1776.90	1136.00	3727.03	49.80	163.39	34.20	112.20	0.97
	Fort Simpson - *upper*					-591.40	-1940.29	1185.80	3890.42	34.80	114.17			
	Fort Simpson - *middle*					-626.20	-2054.46	1220.60	4004.59	72.60	238.19			
	Fort Simpson - *lower*					-698.80	-2292.65	1293.20	4242.78	75.20	246.72			
	Muskwa					-774.00	-2539.37	1368.40	4489.50	30.90	101.38	19.65	64.47	0.88
	Otter Park					-804.90	-2640.75	1399.30	4590.88	64.70	212.27	19.65	54.63	0.73
	Evie					-869.60	-2853.02	1464.00	4803.15	58.20	190.94	10.20	33.46	0.70
	Nahanni					-927.80	-3043.96	1522.20	4994.09	32.50	106.63			
	Manetoe					-960.30	-3150.59	1554.70	5100.72	79.60	261.15			
	TD					**-1039.90**	**-3411.75**	**1634.30**	**5361.88**					
North Beaver River YT I-27	Quaternary	4.00	13.12	72.20	236.88	436.70	1432.74	4.00	13.12	72.20	236.88			
	Fort St John	76.20	250.00	276.50	907.15	364.50	1195.87	76.20	250.00	276.50	907.15			
	Toad-Grayling	352.70	1157.15	355.20	1165.35	88.00	288.71	352.70	1157.15	354.80	1164.04			
	Fantasque	707.90	2322.51	176.02	577.49	-266.80	-875.33	707.50	2321.19	175.70	576.44			
	Mattson	883.92	2900.00	978.98	3211.88	-442.50	-1451.77	883.20	2897.64	975.00	3198.82			
	Golata	1862.90	6111.88	96.50	316.60	-1417.50	-4650.59	1858.20	6096.46	95.60	313.65			
	Prophet	1959.40	6428.48	967.80	3175.20	-1513.10	-4964.24	1953.80	6410.11	959.20	3146.98			
	Banff - *shale*	2927.20	9603.67	252.40	828.08	-2472.30	-8111.22	2913.00	9557.09	252.30	827.76			
	Banff - *carbonate*	3179.60	10431.76	52.30	171.59	-2724.60	-8938.98	3165.30	10384.84	52.20	171.26			
	Exshaw	3231.90	10603.35	70.80	232.28	-2776.80	-9110.24	3217.50	10556.10	70.80	232.28	17.10	56.10	0.90
	Patry	3302.70	10835.63	64.50	211.61	-2847.60	-9342.52	3288.30	10788.39	64.50	211.61	28.95	94.98	0.80
	Fort Simpson - *upper*	3367.20	11047.24	73.50	241.14	-2912.10	-9554.13	3352.80	11000.00	73.50	241.14			
	Fort Simpson - *middle*	3440.70	11288.39	82.30	270.01	-2985.60	-9795.28	3426.30	11241.14	82.20	269.69			
	Fort Simpson - *lower*	3523.00	11558.40	90.10	295.60	-3067.80	-10064.96	3508.50	11510.83	90.10	295.60			

APPENDIX A Reinterpreted formation tops, depths, gross thickness and net unconventional pay thickness.

Well/section ID	Stratigraphy	MEASURED DEPTH				TRUE VERTICAL DEPTH								
		top (m)	top (ft)	thickness (m)	thickness (ft)	elevation (m)	elevation (ft)	top (m)	top (ft)	thickness (m)	thickness (ft)	pay (m)	pay (ft)	pay connectivity
	Muskwa	3613.10	11854.00	22.10	72.51	-3157.90	-10360.56	3598.60	11806.43	22.10	72.51	13.35	43.80	0.90
	Otter Park	3635.20	11926.51	44.50	146.00	-3180.00	-10433.07	3620.70	11878.94	44.50	146.00	21.30	69.88	0.88
	Evie	3679.70	12072.51	26.70	87.60	-3224.50	-10579.07	3665.20	12024.93	26.70	87.60	21.60	70.87	0.92
	Nahanni	3706.40	12160.11	213.30	699.80	-3251.20	-10666.67	3691.90	12112.53	213.30	699.80			
	Headless	3919.70	12859.91	6.10	20.01	-3464.50	-11366.47	3905.20	12812.34	6.10	20.01			
	Landry	3925.80	12879.92	189.60	622.05	-3470.60	-11386.48	3911.30	12832.35	189.50	621.72			
	Arnica	4115.40	13501.97	302.70	993.11	-3660.10	-12008.20	4100.80	13454.07	302.70	993.11			
	TD	**4418.10**	**14495.08**			**-3962.80**	**-13001.31**	**4403.50**	**14447.18**					
Whitefish River	Banff - *shale*							254.00	833.33	35.00	114.83			
	Banff - *carbonate*							219.00	718.50	20.00	65.61			
	Exshaw							199.00	652.89	40.00	131.24			
	Patry							159.00	521.65	34.00	111.54			
	Fort Simpson - *upper*							125.00	410.11	37.00	121.40			
	TD							**88.00**	288.71					

Notes:

Stratigraphic hierarchy still in revision by Liard project working group
Stratigraphic tops below top Nahanni are taken directly from Fraser & Hogue (2007)
Digitial .las file not available above top Exshaw for L-38 (GR only below), TVDs for L-38A sidetrack calculated from sidetrack deviation survey
Toad-Grayling faulted at 960.1mMD in Kotaneelee YT P-50
Stratigraphy highlighted in blue is that assessed by the NEB (2016) for unconventional resources
Stratigraphy only interpreted where continuous lithogeochemistry data in Whitefish River (above 88m)

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Beavercrow YT B-16	1189.00	3900.00			Mattson		0.05	0.05	0.19	0.50					0.28		18		68								RE II	Lane et al. (2010)
Beavercrow YT B-16	1198.00	3930.00			Mattson		0.07	0.05	0.03	0.58					0.55		9		5								RE II	Lane et al. (2010)
Beavercrow YT B-16	1207.00	3960.00			Mattson		0.09	0.07	0.06	0.56					1.11		6		5								RE II	Lane et al. (2010)
Beavercrow YT B-16	1216.00	3990.00			Mattson		0.05	0.02	0.02	0.71					1.06		2		2								RE II	Lane et al. (2010)
Beavercrow YT B-16	1225.00	4020.00			Golata		0.05	0.00	0.02	1.00					0.77		0		3								RE II	Lane et al. (2010)
Beavercrow YT B-16	1234.00	4050.00			Golata		0.09	0.06	0.05	0.60					1.14		5		4								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1244.00	4080.00			Golata		0.13	0.04	0.21	0.76					2.01		2		10								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1253.00	4110.00			Golata		0.08	0.03	0.26	0.73					1.83		2		14								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1262.00	4140.00			Prophet		0.11	0.04	0.22	0.73					1.51		3		15								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1271.00	4170.00			Prophet		0.06	0.03	0.31	0.67					0.94		3		33								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1280.00	4200.00			Prophet		0.07	0.04	0.19	0.64					0.98		4		19								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1289.00	4230.00			Prophet		0.12	0.03	0.28	0.80					1.51		2		19								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1298.00	4260.00			Banff - *shale*		0.13	0.06	0.34	0.68					1.70		4		20								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1308.00	4290.00			Banff - *shale*		0.11	0.05	0.49	0.69					1.73		3		28								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1317.00	4320.00			Banff - *shale*		0.07	0.05	0.38	0.58					1.25		4		30								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1326.00	4350.00			Banff - *shale*		0.13	0.16	0.40	0.45					1.38		12		29								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1335.00	4380.00			Banff - *shale*		0.08	0.07	0.31	0.53					1.16		6		27								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1344.00	4410.00			Banff - *shale*		0.17	0.17	0.41	0.50					1.28		13		32								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1353.00	4440.00			Banff - *shale*		0.14	0.08	0.30	0.64					1.31		6		23								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1362.00	4470.00			Banff - *shale*		0.12	0.09	0.23	0.57					1.71		5		13								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1372.00	4500.00			Banff - *shale*		0.09	0.06	0.21	0.60					1.55		4		14								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1381.00	4530.00			Banff - *shale*		0.08	0.01	0.15	0.89					2.05		0		7								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1390.00	4560.00			Banff - *shale*		0.08	0.08	0.15	0.50					1.77		5		8								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1399.00	4590.00			Banff - *shale*		0.24	0.12	0.16	0.67					1.75		7		9								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1405.13	4610.00			Banff - *shale*	70.8	0.24	0.09	0.28	0.73	300	340	0.22	0.05	2.07	2.02	4	11	14	1.4	12.4	54.5	0.53	1178.00	1.49		RE 6	this study
Beavercrow YT B-16	1408.00	4620.00			Banff - *shale*		0.16	0.03	0.14	0.84					1.61		2		9								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1411.22	4630.00			Banff - *shale*	70.3	0.16	0.05	0.32	0.77	295	335	0.18	0.03	1.78	1.75	3	10	18	0.8	11.0	46.9	0.47	1178.00	1.28		RE 6	this study
Beavercrow YT B-16	1417.00	4650.00			Banff - *shale*		0.07	0.01	0.06	0.88					0.63		2		10								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1420.37	4660.00			Banff - *shale*	70.1	0.15	0.07	0.22	0.69	317	357	0.24	0.03	1.65	1.62	4	15	13	0.5	10.2	43.3	0.44	1178.00	1.18		RE 6	this study
Beavercrow YT B-16	1426.00	4680.00			Banff - *shale*		0.09	0.03	0.12	0.75					1.53		2		8								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1429.51	4690.00			Banff - *shale*	70.3	0.08	0.02	0.30	0.80	294	334	0.19	0.02	1.67	1.65	1	11	18	0.7	10.7	43.8	0.46	1178.00	1.19		RE 6	this study
Beavercrow YT B-16	1436.00	4710.00			Banff - *shale*		0.36	0.10	0.12	0.78					2.19		5		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1438.66	4720.00			Banff - *shale*	70.1	0.26	0.10	0.28	0.72	300	340	0.20	0.05	2.43	2.38	4	8	12	0.9	14.3	65.1	0.61	1178.00	1.77		RE 6	this study
Beavercrow YT B-16	1441.70	4730.00			Banff - *carbonate*	71.0	0.25	0.05	0.34	0.83	297	337	0.19	0.04	3.09	3.05	2	6	11	0.3	19.0	82.0	0.81	1178.15	2.24		RE 6	this study
Beavercrow YT B-16	1445.00	4740.00			Banff - *carbonate*		0.20	0.07	0.07	0.74					1.05		7		7								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1447.80	4750.00			Banff - *carbonate*	70.5	0.26	0.15	0.45	0.63	300	340	0.24	0.06	2.57	2.51	6	9	18	0.8	17.7	64.2	0.76	1178.15	1.75		RE 6	this study
Beavercrow YT B-16	1454.00	4770.00			Exshaw		0.17	0.07	0.09	0.71					1.57		4		6								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1463.00	4800.00			Exshaw		0.12	0.05	0.10	0.71					1.84		3		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1469.14	4820.00			Exshaw	69.8	0.19	0.08	0.38	0.72	297	337	0.17	0.04	3.10	3.06	3	5	12	0.5	21.5	78.5	0.92	1178.15	2.14		RE 6	this study
Beavercrow YT B-16	1472.00	4830.00			Exshaw		0.17	0.04	0.14	0.81					2.63		2		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1478.28	4850.00			Exshaw	70.7	0.28	0.08	0.37	0.77	298	338	0.19	0.05	3.61	3.56	2	5	10	0.4	22.1	95.6	0.95	1178.15	2.61		RE 6	this study
Beavercrow YT B-16	1481.00	4860.00			Exshaw		0.23	0.07	0.11	0.77					3.64		2		3								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1487.42	4880.00			Exshaw	70.2	0.07	0.01	0.52	0.91	292	332	0.30	0.04	3.55	3.51	0	8	15	0.3	15.0	105.1	0.64	1178.00	2.87		RE 6	this study
Beavercrow YT B-16	1490.00	4890.00			Exshaw		0.05	0.01	0.17	0.83					3.46		0		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1496.57	4910.00			Exshaw	70.0	0.07	0.02	0.42	0.79	298	338	0.22	0.03	3.26	3.23	1	7	13	0.3	18.0	90.2	0.77	1178.00	2.46		RE 6	this study
Beavercrow YT B-16	1500.00	4920.00			Exshaw		0.00	0.00	0.21						4.23		0		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1505.71	4940.00			Patry	70.3	0.05	0.00	0.66	1.00	270	310	0.23	0.04	4.87	4.83	0	5	14	0.1	21.5	143.4	0.92	1178.00	3.91		RE 6	this study
Beavercrow YT B-16	1509.00	4950.00			Patry		0.00	0.01	0.26	0.00					4.55		0		6								RE II	Lane et al. (2010)
Beavercrow YT B-16	1511.81	4960.00			Patry	70.4	0.08	0.01	0.58	0.89	301	341	0.29	0.04	4.30	4.26	0	7	13	0.1	19.9	125.0	0.85	1178.00	3.41		RE 6	this study
Beavercrow YT B-16	1514.86	4970.00			Patry	70.7	0.07	0.01	0.59	0.93	332	372	0.33	0.05	4.45	4.40	0	7	13	0.1	20.3	129.4	0.87	1178.00	3.53		RE 6	this study
Beavercrow YT B-16	1518.00	4980.00			Patry		0.00	0.01	0.27	0.00					4.63		0		6								RE II	Lane et al. (2010)
Beavercrow YT B-16	1520.95	4990.00			Patry	70.6	0.15	0.06	0.49	0.71	355	395	0.35	0.05	4.36	4.31	1	8	11	0.1	20.6	125.6	0.88	1178.00	3.43		RE 6	this study
Beavercrow YT B-16	1524.00	5000.00			Patry	70.2	0.05	0.02	0.58	0.69	344	384	0.36	0.05	4.18	4.13	0	9	14	0.1	19.9	120.2	0.85	1178.00	3.28		RE 6	this study
Beavercrow YT B-16	1527.00	5010.00			Patry		0.02	0.00	0.26	1.00					4.44		0		6								RE II	Lane et al. (2010)
Beavercrow YT B-16	1533.14	5030.00			Patry	70.8	0.78	0.28	0.45	0.74	300	340	0.27	0.12	4.37	4.25	6	6	10	0.3	26.6	114.0	1.14	1178.00	3.11		RE 6	this study
Beavercrow YT B-16	1536.00	5040.00			Patry		0.22	0.02	0.17	0.92					3.86		1		4								RE II	Lane et al. (2010)
Beavercrow YT B-16	1542.29	5060.00			Patry	70.4	0.06	0.01	0.43	0.84	334	374	0.25	0.03	3.09	3.06	0	8	14	0.1	15.4	87.9	0.66	1178.00	2.40		RE 6	this study
Beavercrow YT B-16	1545.00	5070.00			Patry		0.01	0.00	0.16	1.00					2.81		0		6								RE II	Lane et al. (2010)
Beavercrow YT B-16	1548.38	5080.00			Patry	69.7	0.06	0.02	0.35	0.77	335	375	0.22	0.03	2.32	2.29	1	9	15	0.1	11.0	66.8	0.47	1178.00	1.82		RE 6	this study
Beavercrow YT B-16	1551.43	5090.00			Fort Simpson - *upper*	70.2	0.06	0.05	0.30	0.53	407	447	0.25	0.03	2.08	2.05	2	12	14	0.1	10.3	58.9	0.44	1178.00	1.61		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Beavercrow YT B-16	1554.00	5100.00			Fort Simpson - *upper*		0.00	0.01	0.08	0.00					1.73		1		5								RE II	Lane et al. (2010)
Beavercrow YT B-16	1564.00	5130.00			Fort Simpson - *middle*		0.00	0.01	0.22	0.00					2.14		0		10								RE II	Lane et al. (2010)
Beavercrow YT B-16	1573.00	5160.00			Fort Simpson - *middle*		0.04	0.00	0.12	1.00					2.15		0		6								RE II	Lane et al. (2010)
Beavercrow YT B-16	1582.00	5190.00			Fort Simpson - *middle*		0.11	0.00	0.13	1.00					1.96		0		7								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1591.00	5220.00			Fort Simpson - *middle*		0.10	0.00	0.10	1.00					2.15		0		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1600.00	5250.00			Fort Simpson - *lower*		0.13	0.00	0.04	1.00					1.76		0		2								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1609.00	5280.00			Fort Simpson - *lower*		0.00	0.00	0.14						1.68		0		8								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1618.00	5310.00			Fort Simpson - *lower*		0.44	0.04	0.03	0.92					2.21		2		1								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1628.00	5340.00			Muskwa		0.31	0.05	0.07	0.86					2.07		2		3								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1637.00	5370.00			Muskwa		0.05	0.00	0.16	1.00					3.16		0		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1646.00	5400.00			Muskwa		0.27	0.01	0.16	0.96					4.69		0		3								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1655.00	5430.00			Otter Park		0.24	0.01	0.14	0.96					4.64		0		3								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1664.00	5460.00			Otter Park		0.16	0.03	0.06	0.84					0.60		5		10								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1673.00	5490.00			Otter Park		0.43	0.10	0.21	0.81					1.29		8		16								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1682.00	5520.00			Otter Park		0.18	0.05	0.09	0.78					2.27		2		4								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1692.00	5550.00			Evie		0.01	0.00	0.20	1.00					4.02		0		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1701.00	5580.00			Evie		0.00	0.00	0.16						3.38		0		5								RE II	Fowler et al. (2003)
Beavercrow YT B-16	1710.00	5610.00			Evie		0.10	0.06	0.06	0.63					0.90		7		7								RE II	Fowler et al. (2003)
Beavercrow YT K-02	935.74	3070.00			Banff - *shale*	70.9	0.28	0.27	0.36	0.50	340	380	0.47	0.08	1.25	1.17	22	38	29	1.0	8.8	28.8	0.38	1250.00	0.79		RE 6	this study
Beavercrow YT K-02	941.83	3090.00			Banff - *shale*	70.4	0.33	0.34	0.44	0.49	338	378	0.36	0.08	1.18	1.10	29	31	37	1.6	8.4	27.2	0.36	1250.00	0.74		RE 6	this study
Beavercrow YT K-02	947.93	3110.00			Banff - *shale*	70.7	0.50	0.37	0.32	0.57	332	372	0.20	0.09	1.81	1.72	20	11	18	2.0	14.3	40.6	0.61	1250.00	1.11		RE 6	this study
Beavercrow YT K-02	954.02	3130.00			Banff - *shale*	70.0	0.97	0.75	0.30	0.56	316	356	0.11	0.16	2.63	2.47	29	4	11	0.4	20.6	58.2	0.88	1250.00	1.59		RE 6	this study
Beavercrow YT K-02	957.07	3140.00			Banff - *carbonate*	70.2	0.69	0.65	0.25	0.51	327	367	0.10	0.13	2.34	2.21	28	4	11	0.6	17.3	53.9	0.74	1250.00	1.47		RE 6	this study
Beavercrow YT K-02	972.31	3190.00			Banff - *carbonate*	70.0	0.33	0.11	0.29	0.75	296	336	0.22	0.06	3.16	3.10	3	7	9	0.2	18.3	84.6	0.79	1250.00	2.31		RE 6	this study
Beavercrow YT K-02	993.65	3260.00			Exshaw	50.8	1.03	0.28	0.40	0.79	294	334	0.13	0.13	5.04	4.91	6	3	8	0.3	27.5	136.8	1.18	1250.00	3.73		RE 6	this study
Beavercrow YT K-02	999.74	3280.00			Exshaw	70.8	0.62	0.21	0.34	0.75	297	337	0.14	0.09	4.26	4.17	5	3	8	0.3	24.4	114.4	1.05	1250.00	3.12		RE 6	this study
Beavercrow YT K-02	1005.84	3300.00			Exshaw	71.0	0.43	0.20	0.32	0.68	300	340	0.09	0.07	3.56	3.49	6	3	9	0.3	19.9	96.7	0.85	1250.00	2.64		RE 6	this study
Beavercrow YT K-02	1011.94	3320.00			Exshaw	70.8	0.19	0.08	0.44	0.70	301	341	0.11	0.04	3.50	3.46	2	3	13	0.3	21.9	92.4	0.94	1250.00	2.52		RE 6	this study
Beavercrow YT K-02	1018.03	3340.00			Exshaw	70.5	0.35	0.22	0.43	0.62	308	348	0.32	0.07	2.87	2.80	8	11	15	0.8	17.9	74.4	0.77	1250.00	2.03		RE 6	this study
Beavercrow YT K-02	1024.13	3360.00			Exshaw	70.5	0.55	0.32	0.48	0.63	301	341	0.14	0.10	5.13	5.03	6	3	9	0.1	29.0	138.9	1.24	1250.00	3.79		RE 6	this study
Beavercrow YT K-02	1033.27	3390.00			Exshaw	70.6	0.57	0.25	0.34	0.70	309	349	0.09	0.09	3.37	3.28	7	3	10	0.2	20.6	88.0	0.88	1250.00	2.40		RE 6	this study
Beavercrow YT K-02	1039.37	3410.00			Exshaw	70.4	0.26	0.13	0.34	0.66	322	362	0.08	0.05	2.66	2.61	5	3	13	0.2	16.4	70.2	0.70	1250.00	1.91		RE 6	this study
Beavercrow YT K-02	1045.46	3430.00			Patry	70.3	1.16	0.40	0.39	0.74	299	339	0.33	0.16	4.62	4.46	9	7	8	0.5	27.0	120.9	1.16	1250.00	3.30		RE 6	this study
Beavercrow YT K-02	1051.56	3450.00			Patry	70.9	1.15	0.59	0.58	0.66	318	358	0.82	0.20	4.28	4.08	14	19	14	2.5	27.6	106.2	1.18	1250.00	2.90		RE 6	this study
Beavercrow YT K-02	1057.66	3470.00			Patry	70.6	0.46	0.22	0.35	0.68	298	338	0.10	0.07	3.94	3.87	6	3	9	0.4	30.7	93.4	1.32	1250.00	2.55		RE 6	this study
Beavercrow YT K-02	1063.75	3490.00			Patry	70.7	0.35	0.55	0.36	0.39	330	370	0.10	0.10	4.47	4.37	12	2	8	0.6	38.3	100.1	1.64	1250.00	2.73		RE 6	this study
Beavercrow YT K-02	1069.85	3510.00			Patry	70.2	0.85	0.63	0.35	0.57	312	352	0.10	0.14	4.20	4.06	15	2	8	0.8	35.6	93.2	1.52	1250.00	2.54		RE 6	this study
Beavercrow YT K-02	1075.94	3530.00			Patry	71.0	1.19	0.75	0.32	0.61	313	353	0.22	0.18	4.23	4.05	18	5	8	0.4	29.5	102.1	1.26	1250.00	2.79		RE 6	this study
Beavercrow YT K-02	1082.04	3550.00			Patry	69.9	1.22	0.76	0.18	0.61	325	365	0.09	0.18	4.09	3.91	19	2	4	0.5	34.3	89.6	1.47	1250.00	2.44		RE 6	this study
Beavercrow YT K-02	1088.14	3570.00			Patry	70.1	0.79	0.37	0.25	0.68	324	364	0.09	0.11	3.91	3.80	9	2	6	0.5	31.3	90.3	1.34	1250.00	2.46		RE 6	this study
Beavercrow YT K-02	1094.23	3590.00			Patry	70.5	1.65	0.68	0.28	0.71	302	342	0.14	0.21	5.31	5.10	13	3	5	0.6	47.6	112.1	2.04	1250.00	3.06		RE 6	this study
Beavercrow YT K-02	1106.42	3630.00			Patry	70.8	0.65	0.33	0.18	0.66	303	343	0.08	0.09	3.69	3.60	9	2	5	0.3	28.2	87.5	1.21	1250.00	2.39		RE 6	this study
Beavercrow YT K-02	1112.52	3650.00			Patry	70.4	0.50	0.23	0.20	0.68	303	343	0.09	0.07	2.64	2.57	9	3	8	0.4	18.2	65.6	0.78	1250.00	1.79		RE 6	this study
Beavercrow YT K-02	1118.62	3670.00			Patry	70.1	0.24	0.11	0.27	0.69	295	335	0.30	0.05	2.90	2.85	4	10	9	0.5	22.5	68.8	0.97	1250.00	1.88		RE 6	this study
Beavercrow YT K-02	1124.71	3690.00			Patry	70.8	0.31	0.16	0.31	0.66	309	349	0.20	0.06	2.54	2.48	6	8	12	1.0	19.6	60.3	0.84	1250.00	1.64		RE 6	this study
Beavercrow YT K-02	1136.90	3730.00			Fort Simpson - *upper*	70.4	0.50	0.47	0.30	0.52	323	363	0.24	0.10	2.02	1.92	23	12	15	0.8	16.1	45.2	0.69	1250.00	1.23		RE 6	this study
Beavercrow YT K-02	1143.00	3750.00			Fort Simpson - *upper*	70.6	0.14	0.06	0.31	0.69	292	332	0.18	0.03	2.38	2.35	3	8	13	0.3	16.3	60.6	0.70	1250.00	1.65		RE 6	this study
Beavercrow YT K-02	1152.14	3780.00			Fort Simpson - *upper*	70.7	0.27	0.15	0.28	0.65	297	337	0.29	0.05	2.28	2.23	7	13	12	0.9	17.1	54.8	0.73	1250.00	1.50		RE 6	this study
Beavercrow YT K-02	1158.24	3800.00			Fort Simpson - *upper*	70.6	0.21	0.14	0.26	0.61	300	340	0.19	0.04	2.08	2.04	7	9	13	0.7	16.0	50.0	0.68	1250.00	1.36		RE 6	this study
Beavercrow YT K-02	1167.38	3830.00			Fort Simpson - *upper*	70.5	0.31	0.27	0.37	0.54	307	347	0.22	0.07	2.29	2.22	12	10	16	0.7	16.8	55.0	0.72	1250.00	1.50		RE 6	this study
Beavercrow YT K-02	1258.82	4130.00			Fort Simpson - *lower*	70.2	0.54	0.52	0.15	0.51	329	369	0.12	0.10	1.75	1.65	30	7	9	0.4	12.2	41.4	0.52	1252.00	1.13		RE 6	this study
Beavercrow YT K-02	1267.97	4160.00			Fort Simpson - *lower*	70.5	0.68	0.66	0.19	0.51	339	379	0.10	0.12	1.99	1.87	33	5	10	0.3	14.0	46.8	0.60	1252.00	1.27		RE 6	this study
Beavercrow YT K-02	1277.11	4190.00			Muskwa	70.5	0.43	0.45	0.25	0.49	334	374	0.18	0.09	1.98	1.89	23	9	13	0.7	13.1	48.9	0.56	1252.00	1.33		RE 6	this study
Beavercrow YT K-02	1286.26	4220.00			Muskwa	70.2	0.66	0.73	0.23	0.48	335	375	0.07	0.13	2.18	2.05	33	3	11	0.7	15.2	51.4	0.65	1252.00	1.40		RE 6	this study
Beavercrow YT K-02	1295.40	4250.00			Muskwa	69.8	0.76	0.63	0.25	0.55	325	365	0.25	0.14	2.78	2.64	23	9	9	0.7	17.3	69.7	0.74	1252.00	1.90		RE 6	this study
Beavercrow YT K-02	1304.54	4280.00			Muskwa	70.4	0.59	0.55	0.24	0.52	330	370	0.20	0.11	2.95	2.84	19	7	8	0.5	20.9	71.7	0.89	1252.00	1.95		RE 6	this study
Beavercrow YT K-02	1313.69	4310.00			Muskwa	70.2	1.37	0.75	0.26	0.65	298	338	0.09	0.19	4.75	4.56	16	2	5	0.4	31.3	118.0	1.34	1252.00	3.22		RE 6	this study
Beavercrow YT K-02	1322.83	4340.00			Otter Park	70.1	1.20	0.56	0.19	0.68	316	356	0.16	0.16	3.25	3.09	17	5	6	0.3	20.2	81.9	0.86	1252.00	2.23		RE 6	this study
Beavercrow YT K-02	1331.98	4370.00			Otter Park	70.7	0.96	0.80	0.29	0.54	332	372	0.09	0.16	3.57	3.41	22	3	8	0.4	25.6	84.6	1.10	1252.00	2.31		RE 6	this study
Beavercrow YT K-02	1341.12	4400.00			Otter Park	70.9	0.86	0.80	0.23	0.52	329	369	0.21	0.16	3.55	3.39	23	6	6	0.5	24.9	85.1	1.07	1252.00	2.32		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Beavercrow YT K-02	1350.26	4430.00			Otter Park	70.3	0.40	0.38	0.22	0.51	328	368	0.11	0.08	2.99	2.91	13	4	7	0.7	23.5	69.7	1.01	1252.00	1.90		RE 6	this study
Beavercrow YT K-02	1359.41	4460.00			Otter Park	70.7	0.53	0.43	0.29	0.55	323	363	0.09	0.10	3.26	3.16	13	3	9	0.5	24.2	78.1	1.03	1252.00	2.13		RE 6	this study
Beavercrow YT K-02	1368.55	4490.00			Evie	70.7	1.17	0.76	0.37	0.61	313	353	0.10	0.18	4.31	4.13	18	2	9	1.8	32.6	100.2	1.40	1252.00	2.73		RE 6	this study
Beavercrow YT K-02	1377.70	4520.00			Evie	70.7	0.65	0.70	0.37	0.48	332	372	0.11	0.13	2.75	2.62	25	4	13	1.2	20.8	63.4	0.89	1252.00	1.73		RE 6	this study
Beavercrow YT K-02	1389.89	4560.00			Evie	70.4	0.71	0.70	0.26	0.51	333	373	0.10	0.13	3.03	2.90	23	3	9	0.6	23.0	70.3	0.98	1252.00	1.92		RE 6	this study
Beavercrow YT K-02	1399.03	4590.00			Evie	70.9	0.97	0.78	0.28	0.56	341	381	0.17	0.16	2.78	2.62	28	6	10	2.3	17.5	68.6	0.75	1252.00	1.87		RE 6	this study
Beavercrow YT K-02	1402.08	4600.00			Evie	70.6	0.95	0.59	0.22	0.62	315	355	0.04	0.14	2.66	2.52	22	2	8	1.1	17.7	64.4	0.76	1252.00	1.76		RE 6	this study
Beavercrow YT K-02	1408.18	4620.00			Nahanni	70.5	0.47	0.38	0.35	0.55	333	373	0.23	0.09	2.08	1.99	18	11	17	4.6	13.3	52.3	0.57	1252.00	1.42		RE 6	this study
Beavercrow YT K-02	1411.22	4630.00			Nahanni	70.5	0.28	0.29	0.36	0.50	360	400	0.05	0.07	0.87	0.80	33	6	41	9.6	4.3	22.6	0.18	1252.00	0.62		RE 6	this study
Beavercrow YT K-02	1414.27	4640.00			Nahanni	70.6	0.19	0.17	0.36	0.53	349	389	0.05	0.05	0.70	0.65	24	7	51	9.1	3.6	18.0	0.16	1252.00	0.49		RE 6	this study
Beavercrow YT K-02	1423.42	4670.00			Nahanni	70.7	0.43	0.33	0.23	0.57	330	370	0.06	0.08	1.58	1.50	21	4	15	0.7	10.7	38.2	0.46	1252.00	1.04		RE 6	this study
Beaver YT G-01	124.97	410.00			Toad-Grayling		1.66	1.08	0.29	0.61	296				0.56		193		52								RE II	Obermajer et al. (2012)
Beaver YT G-01	152.40	500.00			Toad-Grayling		1.68	2.04	0.26	0.45	316				0.58		352		45								RE II	Obermajer et al. (2012)
Beaver YT G-01	179.83	590.00			Toad-Grayling		1.70	2.01	0.30	0.46	316				0.58		347		52								RE II	Obermajer et al. (2012)
Beaver YT G-01	365.76	1200.00			Toad-Grayling		1.17	0.72	0.39	0.62	328				0.49		147		80								RE II	Obermajer et al. (2012)
Beaver YT G-01	396.24	1300.00			Toad-Grayling		0.76	0.82	0.36	0.48	305				0.41		200		88								RE II	Obermajer et al. (2012)
Beaver YT G-01	426.72	1400.00			Toad-Grayling		1.42	1.08	0.24	0.57	300				0.83		130		29								RE II	Obermajer et al. (2012)
Beaver YT G-01	457.20	1500.00			Fantasque		0.98	1.46	0.34	0.40	434				0.61		239		56								RE II	Obermajer et al. (2012)
Beaver YT G-01	487.68	1600.00			Fantasque		1.19	1.02	0.16	0.54	436				0.48		212		33								RE II	Obermajer et al. (2012)
Beaver YT G-01	518.16	1700.00			Fantasque		1.25	1.77	0.21	0.41	435				0.81		219		26								RE II	Obermajer et al. (2012)
Beaver YT G-01	548.64	1800.00			Fantasque		1.38	2.35	0.18	0.37	438				1.07		220		17								RE II	Obermajer et al. (2012)
Beaver YT G-01	579.12	1900.00			Fantasque		0.70	1.82	0.21	0.28	435				0.74		246		28								RE II	Obermajer et al. (2012)
Beaver YT G-01	609.60	2000.00			Fantasque		2.65	5.46	0.26	0.33	438				2.22		246		12								RE II	Obermajer et al. (2012)
Beaver YT G-01	637.03	2090.00			Mattson		1.32	2.10	0.34	0.39	433				0.74		284		46								RE II	Obermajer et al. (2012)
Beaver YT G-01	670.56	2200.00			Mattson		0.89	1.09	0.30	0.45	343				0.44		248		68								RE II	Obermajer et al. (2012)
Beaver YT G-01	701.04	2300.00			Mattson		1.16	1.78	0.27	0.39	431				0.59		302		46								RE II	Obermajer et al. (2012)
Beaver YT G-01	731.52	2400.00			Mattson		1.16	1.29	0.32	0.47	347				0.59		219		54								RE II	Obermajer et al. (2012)
Beaver YT G-01	762.00	2500.00			Mattson		1.15	1.20	0.27	0.49	308				0.45		267		60								RE II	Obermajer et al. (2012)
Beaver YT G-01	792.48	2600.00			Mattson		3.31	12.69	0.32	0.21	441				4.53		280		7								RE II	Obermajer et al. (2012)
Beaver YT G-01	822.96	2700.00			Mattson		3.37	8.23	0.48	0.29	438				3.44		239		14								RE II	Obermajer et al. (2012)
Beaver YT G-01	841.25	2760.00			Mattson		2.38	11.19	0.26	0.18	436				3.50		320		7								RE II	Obermajer et al. (2012)
Beaver YT G-01	880.87	2890.00			Mattson		21.33	61.98	23.78	0.26	329				19.34		320		123								RE II	Obermajer et al. (2012)
Beaver YT G-01	914.40	3000.00			Mattson		0.98	1.59	0.31	0.38	430				0.53		300		58								RE II	Obermajer et al. (2012)
Beaver YT G-01	941.83	3090.00			Mattson		1.09	1.51	0.41	0.42	315				0.41		368		100								RE II	Obermajer et al. (2012)
Beaver YT G-01	975.36	3200.00			Mattson		0.71	0.86	0.26	0.45	348				0.28		307		93								RE II	Obermajer et al. (2012)
Beaver YT G-01	1008.89	3310.00			Mattson		1.05	1.09	0.23	0.49	304				0.32		341		72								RE II	Obermajer et al. (2012)
Beaver YT G-01	1033.27	3390.00			Mattson		0.97	1.25	0.24	0.44	341				0.44		284		55								RE II	Obermajer et al. (2012)
Beaver YT G-01	1066.80	3500.00			Mattson		1.64	2.33	0.60	0.41	321				0.76		307		79								RE II	Obermajer et al. (2012)
Beaver YT G-01	1097.28	3600.00			Mattson		0.70	0.94	0.19	0.43	324				0.46		204		41								RE II	Obermajer et al. (2012)
Beaver YT G-01	1127.76	3700.00			Mattson		0.96	2.12	0.22	0.31	437				0.99		214		22								RE II	Obermajer et al. (2012)
Beaver YT G-01	1155.19	3790.00			Mattson		1.02	1.38	0.20	0.43	439				0.77		179		26								RE II	Obermajer et al. (2012)
Beaver YT G-01	1179.58	3870.00			Mattson		0.55	0.84	0.18	0.40	316				0.39		215		46								RE II	Obermajer et al. (2012)
Beaver YT G-01	1207.01	3960.00			Mattson		0.74	0.93	0.20	0.44	331				0.41		227		49								RE II	Obermajer et al. (2012)
Beaver YT G-01	1228.34	4030.00			Mattson		0.86	1.15	0.14	0.43	341				0.36		319		39								RE II	Obermajer et al. (2012)
Beaver YT G-01	1249.68	4100.00			Mattson		0.85	1.18	0.23	0.42	340				0.73		162		32								RE II	Obermajer et al. (2012)
Beaver YT G-01	1260.35	4135.00			Mattson		1.64	1.29	0.48	0.56	389				1.26		103		38							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1262.00	4140.42			Mattson		1.64	1.29	0.48	0.56	389				1.26		102		38							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1280.16	4200.00			Mattson		1.14	1.34	0.26	0.46	343				0.70		191		37								RE II	Obermajer et al. (2012)
Beaver YT G-01	1313.69	4310.00			Mattson		1.45	2.09	0.70	0.41	322				0.92		227		76								RE II	Obermajer et al. (2012)
Beaver YT G-01	1341.00	4399.61			Mattson		1.85	1.03	0.37	0.64	368				0.75		138		50							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1341.12	4400.00			Mattson		1.85	1.03	0.37	0.64	368				0.75		138		50							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1341.12	4400.00			Mattson		1.21	1.86	0.27	0.39	344				0.82		227		33								RE II	Obermajer et al. (2012)
Beaver YT G-01	1371.60	4500.00			Mattson		1.32	1.58	0.38	0.46	310				1.05		150		36								RE II	Obermajer et al. (2012)
Beaver YT G-01	1405.00	4609.58			Mattson		3.14	2.17	0.43	0.59	375				1.43		152		30							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1405.13	4610.00			Mattson		3.14	2.17	0.43	0.59	375				1.43		152		30							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1411.22	4630.00			Mattson		1.81	3.18	0.31	0.36	343				1.56		204		20								RE II	Obermajer et al. (2012)
Beaver YT G-01	1429.51	4690.00			Mattson		2.57	1.58	0.38	0.62	372				1.12		142		34							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1430.00	4691.60			Mattson		2.57	1.58	0.38	0.62	372				1.12		142		34							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1484.38	4870.00			Mattson		1.82	3.26	0.33	0.36	448				2.27		144		15								RE II	Obermajer et al. (2012)
Beaver YT G-01	1513.33	4965.00			Mattson		4.16	2.39	0.41	0.64	372				1.60		149		25							*	RE II	Obermajer et al. (2012)

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Beaver YT G-01	1515.00	4970.47			Mattson		4.16	2.39	0.41	0.64	372				1.60		149		25							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1524.00	5000.00			Mattson		2.69	4.11	0.30	0.40	344				1.90		216		16								RE II	Obermajer et al. (2012)
Beaver YT G-01	1554.48	5100.00			Mattson		2.34	3.78	0.47	0.38	365				1.93		196		24								RE II	Obermajer et al. (2012)
Beaver YT G-01	1584.96	5200.00			Mattson		1.68	2.35	0.35	0.42	348				1.63		144		21								RE II	Obermajer et al. (2012)
Beaver YT G-01	1588.01	5210.00			Mattson		2.29	1.58	0.46	0.59	370				1.20		132		38							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1591.00	5219.82			Mattson		2.29	1.58	0.46	0.59	370				1.20		132		38							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1615.44	5300.00			Mattson		2.11	2.77	0.39	0.43	341				1.66		167		23								RE II	Obermajer et al. (2012)
Beaver YT G-01	1645.92	5400.00			Mattson		1.90	2.75	0.38	0.41	345				1.70		162		22								RE II	Obermajer et al. (2012)
Beaver YT G-01	1676.40	5500.00			Mattson		1.75	2.46	0.38	0.42	348				1.59		155		24								RE II	Obermajer et al. (2012)
Beaver YT G-01	1706.88	5600.00			Mattson		2.07	3.14	0.40	0.40	352				1.48		212		27								RE II	Obermajer et al. (2012)
Beaver YT G-01	1737.36	5700.00			Mattson		2.19	3.19	0.34	0.41	448				2.22		144		15								RE II	Obermajer et al. (2012)
Beaver YT G-01	1764.79	5790.00			Mattson		1.99	3.05	0.46	0.39	455				2.72		112		17								RE II	Obermajer et al. (2012)
Beaver YT G-01	1778.51	5835.00			Mattson		1.81	1.89	0.35	0.49	468				1.76		107		20							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1780.00	5839.90			Mattson		1.81	1.89	0.35	0.49	468				1.76		107		20							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1798.32	5900.00			Mattson		1.36	2.44	0.38	0.36	461				2.86		85		13								RE II	Obermajer et al. (2012)
Beaver YT G-01	1828.80	6000.00			Mattson		1.16	1.92	0.50	0.38	461				2.73		70		18								RE II	Obermajer et al. (2012)
Beaver YT G-01	1859.28	6100.00			Mattson		1.15	2.00	0.60	0.37	461				2.73		73		22								RE II	Obermajer et al. (2012)
Beaver YT G-01	1865.00	6118.77			Mattson		1.51	1.69	0.33	0.47	465				2.33		72		14							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1865.38	6120.00			Mattson		1.51	1.69	0.33	0.47	465				2.33		72		14							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1889.76	6200.00			Mattson		0.72	1.85	0.45	0.28	463				2.73		68		16								RE II	Obermajer et al. (2012)
Beaver YT G-01	1920.24	6300.00			Mattson		0.57	1.16	0.43	0.33	456				2.02		57		21								RE II	Obermajer et al. (2012)
Beaver YT G-01	1950.72	6400.00			Mattson		0.71	1.70	0.35	0.29	463				2.40		71		15								RE II	Obermajer et al. (2012)
Beaver YT G-01	1981.20	6500.00			Mattson		0.73	1.57	0.53	0.32	467				2.87		55		18								RE II	Obermajer et al. (2012)
Beaver YT G-01	1994.92	6545.00			Mattson		1.06	1.32	0.54	0.45	477				2.13		62		26							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	1999.00	6558.40			Mattson		1.06	1.32	0.54	0.45	477				2.13		62		25							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2011.68	6600.00			Mattson		0.74	1.96	0.47	0.27	457				2.69		73		17								RE II	Obermajer et al. (2012)
Beaver YT G-01	2042.16	6700.00			Golata		0.66	1.35	0.58	0.33	471				2.89		47		20								RE II	Obermajer et al. (2012)
Beaver YT G-01	2072.64	6800.00			Golata		0.38	0.97	0.41	0.28	471				2.37		41		17								RE II	Obermajer et al. (2012)
Beaver YT G-01	2103.12	6900.00			Golata		1.46	3.42	0.43	0.30	358				3.09		111		14								RE II	Obermajer et al. (2012)
Beaver YT G-01	2133.60	7000.00			Golata		0.57	1.23	0.60	0.32	470				3.14		39		19								RE II	Obermajer et al. (2012)
Beaver YT G-01	2164.08	7100.00			Golata		0.61	1.34	0.68	0.31	464				3.00		45		23								RE II	Obermajer et al. (2012)
Beaver YT G-01	2176.00	7139.11			Golata		0.79	1.11	0.66	0.41	493				2.51		44		26							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2176.27	7140.00			Golata		0.79	1.11	0.66	0.42	493				2.51		45		26							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2200.66	7220.00			Prophet		1.00	1.98	0.86	0.34	474				3.30		60		26								RE II	Obermajer et al. (2012)
Beaver YT G-01	2225.04	7300.00			Prophet		1.20	5.42	3.03	0.18	325				4.16		130		73								RE II	Obermajer et al. (2012)
Beaver YT G-01	2255.52	7400.00			Prophet		0.44	1.28	0.71	0.26	479				3.02		42		24								RE II	Obermajer et al. (2012)
Beaver YT G-01	2279.90	7480.00			Prophet		1.98	13.72	0.55	0.13	428				4.89		281		11							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2280.00	7480.32			Prophet		1.98	13.72	0.55	0.13	428				4.89		281		11							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2286.00	7500.00			Prophet		0.70	1.92	0.56	0.27	420				3.09		62		18								RE II	Obermajer et al. (2012)
Beaver YT G-01	2316.48	7600.00			Prophet		0.61	5.33	0.48	0.10	416				3.58		149		13								RE II	Obermajer et al. (2012)
Beaver YT G-01	2346.96	7700.00			Prophet		0.27	1.02	0.54	0.21	483				2.41		42		22								RE II	Obermajer et al. (2012)
Beaver YT G-01	2377.44	7800.00			Prophet		0.34	0.88	0.50	0.28	497				2.22		40		23								RE II	Obermajer et al. (2012)
Beaver YT G-01	2390.00	7841.21			Prophet		0.56	0.77	0.60	0.42	487				1.95		39		30							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2391.16	7845.00			Prophet		0.56	0.77	0.60	0.42	487				1.95		40		31							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2404.87	7890.00			Prophet		0.29	0.87	0.56	0.25	496				2.35		37		24								RE II	Obermajer et al. (2012)
Beaver YT G-01	2438.40	8000.00			Prophet		0.22	0.65	0.47	0.25	508				2.20		30		21								RE II	Obermajer et al. (2012)
Beaver YT G-01	2468.88	8100.00			Prophet		0.19	0.58	0.47	0.25	503				2.05		28		23								RE II	Obermajer et al. (2012)
Beaver YT G-01	2499.36	8200.00			Prophet		0.16	0.54	0.35	0.23	510				2.01		27		17								RE II	Obermajer et al. (2012)
Beaver YT G-01	2529.84	8300.00			Prophet		0.16	0.54	0.41	0.23	507				2.04		26		20								RE II	Obermajer et al. (2012)
Beaver YT G-01	2560.32	8400.00			Prophet		0.16	0.54	0.49	0.23	506				2.03		27		24								RE II	Obermajer et al. (2012)
Beaver YT G-01	2590.80	8500.00			Prophet		0.18	0.53	0.32	0.25	514				2.08		25		15								RE II	Obermajer et al. (2012)
Beaver YT G-01	2621.28	8600.00			Prophet		0.18	0.56	0.38	0.24	508				1.77		32		21								RE II	Obermajer et al. (2012)
Beaver YT G-01	2651.76	8700.00			Prophet		0.20	0.57	0.34	0.26	506				1.86		31		18								RE II	Obermajer et al. (2012)
Beaver YT G-01	2672.00	8766.40			Prophet		0.10	0.00	0.09	1.00	0				1.08		0		8							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2681.00	8795.93			Prophet		0.05	0.03	0.02	0.63	536				1.01		3		2								RE II	Obermajer et al. (2012)
Beaver YT G-01	2682.24	8800.00			Prophet		0.05	0.03	0.02	0.63	536				1.01		3		2								RE II	Obermajer et al. (2012)
Beaver YT G-01	2712.72	8900.00			Prophet		0.15	0.45	0.39	0.25	489				1.72		26		23								RE II	Obermajer et al. (2012)
Beaver YT G-01	2743.20	9000.00			Prophet		0.17	0.47	0.33	0.27	491				1.68		28		20								RE II	Obermajer et al. (2012)
Beaver YT G-01	2773.68	9100.00			Prophet		0.30	2.18	0.33	0.12	410				2.38		92		14								RE II	Obermajer et al. (2012)
Beaver YT G-01	2804.16	9200.00			Prophet		0.23	0.58	0.36	0.28	313				1.86		31		19								RE II	Obermajer et al. (2012)

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Beaver YT G-01	2807.21	9210.00			Prophet		0.36	0.36	0.24	0.50	403				1.22		30		19							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2810.00	9219.16			Prophet		0.36	0.36	0.24	0.50	403				1.22		30		19							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2834.64	9300.00			Prophet		0.17	0.38	0.32	0.31	349				1.74		22		18								RE II	Obermajer et al. (2012)
Beaver YT G-01	2865.12	9400.00			Prophet		0.32	0.66	0.19	0.33	319				1.92		34		10								RE II	Obermajer et al. (2012)
Beaver YT G-01	2893.00	9491.47			Prophet		0.28	0.26	0.37	0.52	430				1.19		21		31							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2895.60	9500.00			Prophet		0.18	0.44	0.34	0.29	318				1.75		25		19								RE II	Obermajer et al. (2012)
Beaver YT G-01	2897.12	9505.00			Prophet		0.28	0.26	0.37	0.53	430				1.19		22		31							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	2926.08	9600.00			Prophet		0.22	0.53	0.27	0.29	315				1.82		29		15								RE II	Obermajer et al. (2012)
Beaver YT G-01	2956.56	9700.00			Prophet		0.62	7.21	0.26	0.08	422				3.02		239		9								RE II	Obermajer et al. (2012)
Beaver YT G-01	2987.04	9800.00			Prophet		0.27	0.53	0.37	0.34	318				1.76		30		21								RE II	Obermajer et al. (2012)
Beaver YT G-01	3012.95	9885.00			Prophet		0.36	0.36	0.33	0.51	425				1.16		31		29							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3014.00	9888.45			Prophet		0.36	0.36	0.33	0.50	425				1.16		30		29							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3017.52	9900.00			Prophet		0.20	0.49	0.38	0.29	325				1.63		30		23								RE II	Obermajer et al. (2012)
Beaver YT G-01	3048.00	10000.00			Prophet		0.31	0.62	0.37	0.33	311				1.89		33		20								RE II	Obermajer et al. (2012)
Beaver YT G-01	3071.47	10077.00			Prophet		0.97	0.70	0.61	0.58	303				8.35		8		7								RE II	Obermajer et al. (2012)
Beaver YT G-01	3087.00	10127.95			Prophet		0.99	0.21	0.16	0.83	330				3.08		7		5							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3087.45	10129.42			Prophet		1.02	0.22	0.16	0.82	353				3.00		7		5								RE II	Obermajer et al. (2012)
Beaver YT G-01	3087.45	10129.42			Prophet		0.95	0.19	0.16	0.83	307				3.16		6		5								RE II	Obermajer et al. (2012)
Beaver YT G-01	3098.44	10165.50			Prophet		0.18	0.27	0.14	0.40	608				3.95		7		4								RE II	Obermajer et al. (2012)
Beaver YT G-01	3101.34	10175.00			Prophet		0.16	0.42	0.29	0.28	358				1.52		28		19								RE II	Obermajer et al. (2012)
Beaver YT G-01	3101.68	10176.10			Prophet		0.10	0.19	0.15	0.34	316				1.70		11		9								RE II	Obermajer et al. (2012)
Beaver YT G-01	3103.70	10182.75			Prophet		0.18	0.00	0.11	1.00	0				1.35		0		8							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3104.00	10183.73			Prophet		0.18	0.00	0.11	1.00	0				1.35		0		8							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3104.39	10185.00			Prophet		0.13	0.15	0.21	0.46	297				2.67		6		8								RE II	Obermajer et al. (2012)
Beaver YT G-01	3106.52	10192.00			Prophet		0.21	0.26	0.22	0.45	309				1.78		15		12								RE II	Obermajer et al. (2012)
Beaver YT G-01	3113.04	10213.40			Prophet		0.09	0.11	0.39	0.45	293				1.71		6		23								RE II	Obermajer et al. (2012)
Beaver YT G-01	3119.63	10235.00			Prophet		0.06	0.11	0.15	0.35	328				0.77		14		19								RE II	Obermajer et al. (2012)
Beaver YT G-01	3124.20	10250.00			Prophet		0.20	0.19	0.08	0.51	303				2.24		8		4								RE II	Obermajer et al. (2012)
Beaver YT G-01	3172.97	10410.00			Prophet		0.23	0.79	0.37	0.23	431				1.58		50		23								RE II	Obermajer et al. (2012)
Beaver YT G-01	3200.40	10500.00			Prophet		0.26	0.52	0.29	0.33	326				1.47		35		20								RE II	Obermajer et al. (2012)
Beaver YT G-01	3220.21	10565.00			Banff - *shale*		0.37	0.23	0.23	0.62	394				0.91		25		26							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3222.00	10570.87			Banff - *shale*		0.37	0.23	0.23	0.62	394				0.91		25		25							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3230.88	10600.00			Banff - *shale*		0.20	0.55	0.48	0.27	416				1.46		38		33								RE II	Obermajer et al. (2012)
Beaver YT G-01	3261.36	10700.00			Banff - *shale*		0.24	0.55	0.36	0.30	320				1.51		36		24								RE II	Obermajer et al. (2012)
Beaver YT G-01	3291.84	10800.00			Banff - *shale*		0.26	0.51	0.43	0.34	315				1.48		34		29								RE II	Obermajer et al. (2012)
Beaver YT G-01	3322.32	10900.00			Banff - *shale*		0.37	0.52	0.38	0.42	309				1.46		36		26								RE II	Obermajer et al. (2012)
Beaver YT G-01	3352.80	11000.00			Banff - *shale*		0.18	0.27	0.39	0.40	302				0.86		31		45								RE II	Obermajer et al. (2012)
Beaver YT G-01	3383.28	11100.00			Banff - *shale*		0.10	0.20	0.24	0.33	341				0.36		56		67								RE II	Obermajer et al. (2012)
Beaver YT G-01	3413.76	11200.00			Banff - *shale*		0.10	0.20	0.27	0.33	338				0.51		39		53								RE II	Obermajer et al. (2012)
Beaver YT G-01	3418.33	11215.00			Banff - *shale*		2.11	1.40	0.30	0.60	368				0.70		202		44							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3423.00	11230.32			Banff - *shale*		2.11	1.40	0.30	0.60	368				0.70		201		43							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3429.00	11250.00			Banff - *shale*		0.28	0.78	0.23	0.26	344				0.71		110		32								RE II	Obermajer et al. (2012)
Beaver YT G-01	3459.48	11350.00			Banff - *shale*		0.07	0.16	0.22	0.30	331				0.53		30		42								RE II	Obermajer et al. (2012)
Beaver YT G-01	3477.77	11410.00			Banff - *shale*	70.2	0.38	0.29	0.22	0.57	345	385	0.10	0.07	0.77	0.70	38	13	29	1.7	5.5	16.9	0.24	1630.00	0.46		RE 6	this study
Beaver YT G-01	3483.86	11430.00			Banff - *shale*	70.2	1.10	0.65	0.24	0.63	328	368	0.13	0.16	2.97	2.81	22	4	8	0.7	23.9	65.5	1.02	1630.00	1.79		RE 6	this study
Beaver YT G-01	3489.96	11450.00			Banff - *shale*		1.25	1.09	0.12	0.53	361				3.60		30		3								RE II	Obermajer et al. (2012)
Beaver YT G-01	3496.06	11470.00			Banff - *shale*	70.5	0.59	0.48	0.19	0.55	342	382	0.11	0.10	1.53	1.43	31	7	12	0.7	11.6	34.0	0.50	1630.00	0.93		RE 6	this study
Beaver YT G-01	3502.15	11490.00			Banff - *shale*	70.8	1.60	1.18	0.16	0.58	343	383	0.11	0.24	1.55	1.31	76	7	10	0.9	10.5	31.6	0.45	1630.00	0.86		RE 6	this study
Beaver YT G-01	3505.20	11500.00			Banff - *carbonate*	69.8	0.69	0.61	0.15	0.53	342	382	0.12	0.12	1.69	1.57	36	7	9	0.7	12.7	37.7	0.54	1630.00	1.03		RE 6	this study
Beaver YT G-01	3529.58	11580.00			Banff - *carbonate*	70.7	0.54	0.35	0.19	0.60	333	373	0.13	0.08	1.73	1.65	20	8	11	0.6	13.1	40.1	0.56	1630.00	1.09		RE 6	this study
Beaver YT G-01	3535.68	11600.00			Exshaw		0.72	0.44	0.35	0.62	298				2.44		18		14								RE II	Obermajer et al. (2012)
Beaver YT G-01	3545.00	11630.58			Exshaw		1.73	0.44	0.27	0.80	363				3.39		13		8							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3546.35	11635.00			Exshaw		1.73	0.44	0.27	0.80	363				3.39		13		8							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3550.92	11650.00			Exshaw		0.92	0.58	0.25	0.61	299				2.53		23		10								RE II	Obermajer et al. (2012)
Beaver YT G-01	3557.02	11670.00			Exshaw	70.3	0.43	0.33	0.17	0.57	329	369	0.12	0.07	1.78	1.71	19	7	10	0.4	12.0	43.8	0.52	1630.00	1.19		RE 6	this study
Beaver YT G-01	3563.11	11690.00			Exshaw	70.5	0.31	0.15	0.16	0.66	304	344	0.14	0.05	2.01	1.96	7	7	8	0.6	12.3	52.6	0.53	1630.00	1.43		RE 6	this study
Beaver YT G-01	3569.21	11710.00			Exshaw	70.0	0.46	0.26	0.18	0.64	310	350	0.16	0.07	2.61	2.54	10	6	7	0.5	15.8	68.4	0.68	1630.00	1.86		RE 6	this study
Beaver YT G-01	3575.30	11730.00			Exshaw	70.8	0.48	0.20	0.18	0.71	303	343	0.12	0.07	2.88	2.81	7	4	6	0.4	17.7	75.2	0.76	1630.00	2.05		RE 6	this study
Beaver YT G-01	3581.40	11750.00			Exshaw		0.55	0.27	0.23	0.67	295				2.66		10		9								RE II	Obermajer et al. (2012)
Beaver YT G-01	3587.50	11770.00			Exshaw	70.0	0.66	0.35	0.16	0.65	312	352	0.13	0.09	3.18	3.09	11	4	5	0.7	21.6	79.3	0.93	1630.00	2.16		RE 6	this study

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Beaver YT G-01	3593.59	11790.00			Exshaw	71.0	0.62	0.30	0.27	0.68	312	352	0.13	0.09	2.77	2.68	11	5	10	0.5	17.8	70.5	0.76	1630.00	1.92		RE 6	this study
Beaver YT G-01	3599.69	11810.00			Exshaw	70.4	1.04	0.48	0.25	0.68	310	350	0.18	0.14	3.98	3.84	12	5	6	0.3	24.9	101.6	1.07	1630.00	2.77		RE 6	this study
Beaver YT G-01	3605.78	11830.00			Exshaw	70.3	0.97	0.46	0.22	0.68	308	348	0.08	0.13	3.80	3.67	12	2	6	0.3	23.1	98.3	0.99	1630.00	2.68		RE 6	this study
Beaver YT G-01	3611.88	11850.00			Exshaw		1.08	0.48	0.23	0.69	296				4.02		12		6								RE II	Obermajer et al. (2012)
Beaver YT G-01	3617.98	11870.00			Exshaw	70.4	1.25	0.70	0.18	0.64	316	356	0.16	0.18	3.90	3.72	18	4	5	0.4	25.4	96.4	1.09	1630.00	2.63		RE 6	this study
Beaver YT G-01	3624.07	11890.00			Exshaw	70.4	1.07	0.61	0.16	0.64	327	367	0.14	0.15	3.43	3.28	18	4	5	0.4	21.7	86.0	0.93	1630.00	2.35		RE 6	this study
Beaver YT G-01	3630.17	11910.00			Exshaw	70.4	1.87	1.01	0.16	0.65	313	353	0.08	0.25	5.22	4.97	19	2	3	0.4	36.0	125.8	1.54	1630.00	3.43		RE 6	this study
Beaver YT G-01	3636.26	11930.00			Exshaw	70.9	1.68	0.90	0.16	0.65	316	356	0.18	0.23	4.55	4.32	20	4	4	0.4	34.6	104.0	1.48	1630.00	2.84		RE 6	this study
Beaver YT G-01	3642.36	11950.00			Exshaw		1.46	0.96	0.25	0.60	306				4.09		23		6								RE II	Obermajer et al. (2012)
Beaver YT G-01	3645.41	11960.00			Patry	70.4	1.98	1.27	0.14	0.61	329	369	0.07	0.28	5.09	4.81	25	1	3	0.5	42.8	109.0	1.84	1630.00	2.97		RE 6	this study
Beaver YT G-01	3648.46	11970.00			Patry	70.0	1.82	1.09	0.15	0.63	309	349	0.19	0.26	5.07	4.81	21	4	3	0.6	40.3	113.1	1.73	1630.00	3.08		RE 6	this study
Beaver YT G-01	3654.55	11990.00			Patry	70.4	2.04	1.19	0.15	0.63	318	358	0.10	0.28	5.60	5.32	21	2	3	0.6	44.3	125.4	1.90	1630.00	3.42		RE 6	this study
Beaver YT G-01	3660.65	12010.00			Patry	70.4	1.96	1.21	0.15	0.62	321	361	0.16	0.28	5.41	5.13	22	3	3	0.7	43.8	119.3	1.88	1630.00	3.25		RE 6	this study
Beaver YT G-01	3662.17	12015.00			Patry		2.51	0.62	0.16	0.80	362				3.05		21		6							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3664.00	12021.00			Patry		2.51	0.62	0.16	0.80	362				3.05		21		5							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3666.74	12030.00			Patry	70.0	1.78	1.00	0.26	0.64	312	352	0.09	0.25	4.91	4.66	20	2	5	0.8	41.8	105.4	1.79	1630.00	2.87		RE 6	this study
Beaver YT G-01	3669.79	12040.00			Patry	70.3	1.68	0.85	0.23	0.66	314	354	0.16	0.23	5.27	5.04	16	3	4	0.8	45.0	113.9	1.93	1630.00	3.11		RE 6	this study
Beaver YT G-01	3672.84	12050.00			Patry		1.11	0.73	0.22	0.60	309				4.12		18		5								RE II	Obermajer et al. (2012)
Beaver YT G-01	3675.89	12060.00			Patry	70.3	1.11	0.75	0.25	0.60	330	370	0.19	0.17	5.32	5.15	14	4	5	0.6	41.6	123.4	1.78	1630.00	3.37		RE 6	this study
Beaver YT G-01	3681.98	12080.00			Patry	70.5	1.04	0.73	0.17	0.59	336	376	0.18	0.16	5.38	5.22	14	3	3	0.5	46.9	117.7	2.01	1630.00	3.21		RE 6	this study
Beaver YT G-01	3688.08	12100.00			Patry	70.5	0.79	0.61	0.14	0.56	331	371	0.15	0.13	3.78	3.65	16	4	4	0.6	35.0	78.9	1.50	1630.00	2.15		RE 6	this study
Beaver YT G-01	3694.18	12120.00			Patry	70.4	0.54	0.40	0.13	0.58	330	370	0.14	0.09	3.87	3.78	10	4	3	0.2	35.3	83.2	1.51	1630.17	2.27		RE 6	this study
Beaver YT G-01	3700.27	12140.00			Patry	70.6	0.50	0.33	0.14	0.61	327	367	0.15	0.08	3.46	3.38	10	4	4	0.5	25.1	84.2	1.08	1630.00	2.30		RE 6	this study
Beaver YT G-01	3703.32	12150.00			Patry		0.87	0.90	0.32	0.49	317				3.60		25		9								RE II	Obermajer et al. (2012)
Beaver YT G-01	3709.42	12170.00			Patry	70.9	0.45	0.31	0.12	0.59	330	370	0.10	0.07	2.91	2.84	11	3	4	0.2	21.2	70.9	0.91	1630.00	1.93		RE 6	this study
Beaver YT G-01	3712.46	12180.00			Fort Simpson - *upper*	70.7	0.33	0.21	0.13	0.62	333	373	0.14	0.05	3.00	2.95	7	5	4	0.6	19.5	77.7	0.83	1630.00	2.12		RE 6	this study
Beaver YT G-01	3718.56	12200.00			Fort Simpson - *upper*	69.9	0.24	0.16	0.15	0.60	330	370	0.12	0.04	1.96	1.92	8	6	8	0.5	13.1	50.0	0.56	1630.00	1.36		RE 6	this study
Beaver YT G-01	3733.80	12250.00			Fort Simpson - *upper*		0.15	0.21	0.28	0.42	313				1.06		20		26								RE II	Obermajer et al. (2012)
Beaver YT G-01	3738.37	12265.00			Fort Simpson - *upper*		0.40	0.10	0.05	0.80	363				0.72		14		7							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3740.00	12270.34			Fort Simpson - *upper*		0.40	0.10	0.05	0.80	363				0.72		14		7							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3764.28	12350.00			Fort Simpson - *upper*		0.34	0.25	0.25	0.58	307				1.79		14		14								RE II	Obermajer et al. (2012)
Beaver YT G-01	3794.76	12450.00			Fort Simpson - *middle*		0.47	0.27	0.27	0.64	304				2.84		10		10								RE II	Obermajer et al. (2012)
Beaver YT G-01	3825.24	12550.00			Fort Simpson - *middle*		0.65	0.42	0.29	0.61	311				2.26		19		13								RE II	Obermajer et al. (2012)
Beaver YT G-01	3855.72	12650.00			Fort Simpson - *lower*		0.11	0.16	0.30	0.41	311				0.69		23		43								RE II	Obermajer et al. (2012)
Beaver YT G-01	3860.29	12665.00			Fort Simpson - *lower*		0.19	0.01	0.05	0.95	347				0.41		2		12								RE II	Obermajer et al. (2012)
Beaver YT G-01	3862.00	12670.60			Fort Simpson - *lower*		0.19	0.01	0.06	0.95	174				0.42		2		13							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3886.20	12750.00			Fort Simpson - *lower*		0.12	0.21	0.25	0.36	311				0.71		30		35								RE II	Obermajer et al. (2012)
Beaver YT G-01	3916.68	12850.00			Fort Simpson - *lower*		0.09	0.16	0.21	0.36	310				0.52		31		40								RE II	Obermajer et al. (2012)
Beaver YT G-01	3935.00	12910.11			Fort Simpson - *lower*		0.23	0.03	0.11	0.89	200				0.83		4		13							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3936.49	12915.00			Fort Simpson - *lower*		0.23	0.03	0.11	0.89	200				0.83		4		13							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3941.06	12930.00			Fort Simpson - *lower*	71.0	0.61	0.66	0.27	0.48	321	361	0.03	0.12	1.90	1.78	35	2	14	1.0	14.5	42.4	0.62	1252.00	1.16		RE 6	this study
Beaver YT G-01	3944.11	12940.00			Muskwa	70.4	0.27	0.38	0.26	0.42	319	359	0.04	0.06	1.04	0.98	37	4	25	0.9	7.7	23.9	0.33	1252.00	0.65		RE 6	this study
Beaver YT G-01	3947.16	12950.00			Muskwa	70.3	0.25	0.34	0.27	0.42	321	361	0.07	0.06	0.69	0.63	49	10	39	1.4	4.7	15.8	0.20	1252.00	0.43		RE 6	this study
Beaver YT G-01	3953.00	12969.16			Muskwa		1.04	0.43	0.22	0.71	362				1.21		35		18							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3953.26	12970.00			Muskwa		0.64	0.77	0.33	0.45	319				3.10		25		11								RE II	Obermajer et al. (2012)
Beaver YT G-01	3954.78	12975.00			Muskwa		1.04	0.43	0.22	0.71	362				1.21		36		18							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	3962.40	13000.00			Muskwa	70.9	0.56	0.96	0.26	0.37	341	381	0.12	0.14	3.81	3.67	25	3	7	0.9	29.5	87.8	1.27	1252.00	2.40		RE 6	this study
Beaver YT G-01	3968.50	13020.00			Muskwa	70.8	0.19	0.25	0.21	0.43	321	361	0.08	0.05	1.16	1.11	22	7	18	0.4	7.3	29.3	0.31	1252.00	0.80		RE 6	this study
Beaver YT G-01	3977.64	13050.00			Muskwa		0.55	0.69	0.31	0.44	325				3.60		19		9								RE II	Obermajer et al. (2012)
Beaver YT G-01	3980.69	13060.00			Muskwa	70.3	0.51	0.68	0.23	0.43	331	371	0.03	0.11	2.90	2.79	23	1	8	1.1	25.6	62.0	1.10	1252.00	1.69		RE 6	this study
Beaver YT G-01	3983.74	13070.00			Otter Park	70.7	0.55	0.73	0.18	0.43	343	383	0.05	0.12	2.56	2.44	29	2	7	0.7	23.2	53.1	0.99	1252.00	1.45		RE 6	this study
Beaver YT G-01	3995.93	13110.00			Otter Park	70.7	0.45	0.61	0.19	0.42	359	399	0.09	0.10	2.49	2.39	24	4	8	1.1	25.0	48.4	1.07	1252.00	1.32		RE 6	this study
Beaver YT G-01	4008.12	13150.00			Otter Park		0.31	0.49	0.24	0.39	320				2.91		17		8								RE II	Obermajer et al. (2012)
Beaver YT G-01	4018.79	13185.00			Otter Park		0.69	0.31	0.19	0.69	372				0.93		33		20							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	4020.00	13188.98			Otter Park		0.69	0.31	0.19	0.69	372				0.93		33		20							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	4023.36	13200.00			Otter Park	70.6	0.30	0.59	0.19	0.34	334	374	0.08	0.08	3.01	2.93	20	3	6	1.1	28.2	63.2	1.21	1252.00	1.72		RE 6	this study
Beaver YT G-01	4029.46	13220.00			Otter Park	69.9	0.26	0.47	0.16	0.35	342	382	0.02	0.07	2.57	2.50	18	1	6	0.8	21.7	57.5	0.93	1252.00	1.57		RE 6	this study
Beaver YT G-01	4038.60	13250.00			Otter Park		0.55	0.75	0.28	0.42	321				4.25		18		7								RE II	Obermajer et al. (2012)
Beaver YT G-01	4047.74	13280.00			Otter Park	70.3	0.69	0.83	0.23	0.45	337	377	0.05	0.14	3.95	3.81	21	1	6	1.1	30.8	91.2	1.32	1252.00	2.49		RE 6	this study
Beaver YT G-01	4050.79	13290.00			Otter Park	70.3	0.71	1.02	0.21	0.41	344	384	0.05	0.15	4.20	4.05	24	1	5	1.1	32.2	97.9	1.38	1252.00	2.67		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Beaver YT G-01	4053.84	13300.00			Evie	69.9	0.58	0.95	0.23	0.38	357	397	0.04	0.14	3.10	2.96	31	1	7	0.9	24.9	69.3	1.07	1252.00	1.89		RE 6	this study
Beaver YT G-01	4059.94	13320.00			Evie	70.1	0.40	0.69	0.26	0.37	358	398	0.08	0.10	2.75	2.65	25	3	9	0.8	20.3	65.2	0.87	1252.00	1.78		RE 6	this study
Beaver YT G-01	4069.08	13350.00			Evie		0.36	0.50	0.19	0.42	334				2.42		21		8								RE II	Obermajer et al. (2012)
Beaver YT G-01	4084.32	13400.00			Evie		0.41	0.59	0.31	0.41	328				3.39		17		9								RE II	Obermajer et al. (2012)
Beaver YT G-01	4093.46	13430.00			Evie	70.3	0.54	0.71	0.30	0.44	346	386	0.12	0.12	3.58	3.46	20	3	8	2.4	22.0	92.4	0.94	1252.00	2.52		RE 6	this study
Beaver YT G-01	4102.61	13460.00			Evie	70.2	0.57	0.69	0.28	0.45	357	397	0.05	0.12	4.24	4.12	16	1	7	1.3	23.8	113.8	1.02	1252.00	3.10		RE 6	this study
Beaver YT G-01	4105.66	13470.00			Evie	70.2	0.30	0.38	0.25	0.44	338	378	0.05	0.07	4.14	4.07	9	1	6	0.8	25.0	109.8	1.07	1252.00	3.00		RE 6	this study
Beaver YT G-01	4108.70	13480.00			Evie		0.15	0.28	0.22	0.35	328				2.88		10		8								RE II	Obermajer et al. (2012)
Beaver YT G-01	4111.75	13490.00			Nahanni	70.9	0.20	0.26	0.21	0.43	336	376	0.05	0.05	2.95	2.90	9	2	7	0.6	17.8	78.5	0.76	1252.00	2.14		RE 6	this study
Beaver YT G-01	4114.80	13500.00			Nahanni	70.8	0.25	0.36	0.18	0.41	353	393	0.04	0.06	2.72	2.66	13	1	7	0.5	17.7	69.6	0.76	1252.00	1.90		RE 6	this study
Beaver YT G-01	4165.00	13664.70			Nahanni		0.37	0.00	1.30	1.00	0				2.76		0		47							*	RE II	Obermajer et al. (2012)
Beaver YT G-01	4395.52	14421.00			Nahanni		0.05	0.10	0.18	0.33	327				0.31		32		58								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	807.72	2650.00	801.72	2630.32	Mattson		9.21	3.97	0.62	0.70	422				3.49		114		18								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	822.96	2700.00	816.96	2680.32	Mattson		10.27	5.22	0.39	0.66	424				2.74		191		14								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	853.44	2800.00	847.44	2780.32	Mattson		9.60	5.87	0.39	0.62	427				2.03		289		19								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	883.92	2900.00	877.92	2880.32	Mattson		8.87	6.09	0.71	0.59	429				1.96		311		36								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	899.16	2950.00	893.16	2930.32	Mattson		9.91	6.81	0.89	0.59	426				2.08		327		43								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	911.35	2990.00	905.35	2970.32	Mattson		11.45	5.28	0.77	0.68	424				2.64		200		29								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	968.35	3177.00	962.35	3157.32	Mattson		0.60	0.64	0.25	0.48	337				1.40		46		18								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	970.18	3183.00	964.18	3163.32	Mattson		0.71	0.45	0.31	0.61	312				2.10		21		15								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	972.01	3189.00	966.01	3169.32	Mattson		0.61	0.32	0.28	0.66	311				2.29		14		12								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	973.84	3195.00	967.84	3175.33	Mattson		0.60	0.36	0.27	0.63	313				2.51		14		11								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	975.66	3201.00	969.66	3181.30	Mattson		0.58	0.32	0.32	0.64	308				2.47		13		13								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	977.49	3207.00	971.49	3187.30	Mattson		0.39	0.25	0.36	0.61	308				1.84		14		20								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	979.32	3213.00	973.32	3193.31	Mattson		0.53	0.40	0.29	0.57	314				1.71		23		17								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	981.15	3219.00	975.15	3199.31	Mattson		0.62	0.36	0.32	0.63	309				2.38		15		13								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	982.98	3225.00	976.98	3205.32	Mattson		0.74	0.42	0.34	0.64	304				3.24		13		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	984.81	3231.00	978.81	3211.32	Mattson		0.73	0.34	0.35	0.68	303				3.42		10		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	986.64	3237.00	980.64	3217.32	Mattson		0.82	0.41	0.38	0.67	303				3.47		12		11								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	988.47	3243.00	982.47	3223.33	Mattson		1.04	0.56	0.03	0.65	308				3.63		15		1								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	990.30	3249.00	984.30	3229.33	Mattson		1.04	0.42	0.29	0.71	301				3.88		11		7								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	992.12	3255.00	986.12	3235.30	Mattson		0.73	0.27	0.26	0.73	298				3.71		7		7								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	993.95	3261.00	987.95	3241.31	Mattson		0.72	0.29	0.37	0.71	302				4.43		7		8								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	995.78	3267.00	989.78	3247.31	Mattson		0.85	0.34	0.47	0.71	299				5.25		6		9								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	997.61	3273.00	991.61	3253.31	Mattson		1.24	0.63	0.40	0.66	317				5.68		11		7								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	999.44	3279.00	993.44	3259.32	Mattson		1.07	0.47	0.33	0.69	305				5.13		9		6								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1001.27	3285.00	995.27	3265.32	Mattson		1.11	0.47	0.33	0.70	303				4.99		9		7								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1003.10	3291.00	997.10	3271.33	Mattson		1.35	0.65	0.27	0.68	319				5.09		13		5								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1004.93	3297.00	998.93	3277.33	Mattson		1.45	0.62	0.23	0.70	301				5.05		12		5								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1006.75	3303.00	1000.75	3283.30	Mattson		0.95	0.47	0.30	0.67	304				4.77		10		6								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1008.58	3309.00	1002.58	3289.30	Mattson		1.02	0.52	0.27	0.66	312				4.71		11		6								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1010.41	3315.00	1004.41	3295.31	Mattson		0.84	0.45	0.30	0.65	316				4.61		10		7								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1012.24	3321.00	1006.24	3301.31	Mattson		0.76	0.40	0.37	0.66	307				4.57		9		8								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1014.07	3327.00	1008.07	3307.32	Mattson		0.87	0.46	0.24	0.65	307				3.91		12		6								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1015.90	3333.00	1009.90	3313.32	Mattson		0.77	0.51	0.35	0.60	317				3.83		13		9								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1017.73	3339.00	1011.73	3319.32	Mattson		0.39	0.26	0.41	0.60	334				2.19		12		19								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1019.56	3345.00	1013.56	3325.33	Mattson		0.15	0.25	0.58	0.38	349				0.74		34		78								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1021.38	3351.00	1015.38	3331.30	Mattson		0.40	0.23	0.33	0.63	303				0.45		51		73								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1023.21	3357.00	1017.21	3337.30	Mattson		0.18	0.23	0.59	0.44	323				0.83		28		71								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1025.04	3363.00	1019.04	3343.31	Mattson		0.22	0.16	0.56	0.58	320				0.90		18		62								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1026.87	3369.00	1020.87	3349.31	Mattson		0.48	2.11	0.74	0.19	344				1.30		162		57								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1028.70	3375.00	1022.70	3355.32	Mattson		0.23	0.51	0.30	0.31	360				1.11		46		27								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1030.53	3381.00	1024.53	3361.32	Mattson		0.25	0.26	0.20	0.49	332				1.28		20		16								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1032.36	3387.00	1026.36	3367.32	Mattson		0.39	0.26	0.21	0.60	310				1.52		17		14								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1034.19	3393.00	1028.19	3373.33	Mattson		0.35	0.23	0.27	0.60	314				1.72		13		16								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1036.02	3399.00	1030.02	3379.33	Mattson		0.41	0.26	0.17	0.61	310				1.88		14		9								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1039.67	3411.00	1033.67	3391.31	Mattson		0.50	0.31	0.25	0.62	307				2.59		12		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1041.50	3417.00	1035.50	3397.31	Mattson		0.57	0.31	0.29	0.65	303				3.23		10		9								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1043.33	3423.00	1037.33	3403.31	Mattson		0.58	0.32	0.30	0.64	309				3.48		9		9								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1045.16	3429.00	1039.16	3409.32	Mattson		0.80	0.46	0.25	0.63	304				3.68		12		7								RE II	Obermajer et al. (2012)

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Kotaneelee YT I-48	1046.99	3435.00	1040.99	3415.32	Mattson		0.53	0.74	0.52	0.42	389				3.42		22		15								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1048.82	3441.00	1042.82	3421.33	Mattson		0.99	2.22	0.36	0.31	404				3.40		65		11								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1050.65	3447.00	1044.65	3427.33	Mattson		0.58	0.38	0.32	0.60	313				3.06		12		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1052.47	3453.00	1046.47	3433.30	Mattson		0.55	0.40	0.30	0.58	308				2.61		15		11								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1054.30	3459.00	1048.30	3439.30	Mattson		0.64	0.48	0.32	0.57	329				2.46		20		13								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1056.13	3465.00	1050.13	3445.31	Mattson		0.62	0.40	0.27	0.61	313				2.82		14		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1057.96	3471.00	1051.96	3451.31	Mattson		0.58	0.36	0.28	0.62	308				2.68		13		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1059.79	3477.00	1053.79	3457.32	Mattson		0.53	0.37	0.23	0.59	323				2.34		16		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1061.62	3483.00	1055.62	3463.32	Mattson		0.44	0.27	0.29	0.62	311				1.72		16		17								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1063.45	3489.00	1057.45	3469.32	Mattson		0.19	0.14	0.23	0.58	312				0.86		16		27								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1065.28	3495.00	1059.28	3475.33	Mattson		0.16	0.15	0.26	0.52	319				0.75		20		35								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1067.10	3501.00	1061.10	3481.30	Mattson		0.13	0.11	0.23	0.54	320				0.64		17		36								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1068.93	3507.00	1062.93	3487.30	Mattson		0.15	0.15	0.36	0.50	326				0.79		19		46								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1070.76	3513.00	1064.76	3493.31	Mattson		0.12	0.12	0.31	0.50	323				0.66		18		47								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1072.59	3519.00	1066.59	3499.31	Mattson		0.06	0.09	0.23	0.40	326				0.35		26		66								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1074.42	3525.00	1068.42	3505.32	Mattson		0.13	0.18	0.24	0.42	345				0.80		22		30								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1076.25	3531.00	1070.25	3511.32	Mattson		0.11	0.19	0.10	0.37	340				0.63		30		16								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1078.08	3537.00	1072.08	3517.32	Mattson		0.11	0.12	0.28	0.48	327				0.59		20		47								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1079.91	3543.00	1073.91	3523.33	Mattson		0.12	0.11	0.21	0.52	301				0.61		18		34								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1081.74	3549.00	1075.74	3529.33	Mattson		0.09	0.13	0.23	0.41	317				0.55		24		42								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1083.56	3555.00	1077.56	3535.30	Mattson		0.10	0.11	0.30	0.48	320				0.76		14		39								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1085.39	3561.00	1079.39	3541.31	Mattson		0.34	0.32	0.41	0.52	334				2.94		11		14								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1087.22	3567.00	1081.22	3547.31	Mattson		0.49	0.41	0.33	0.54	316				3.92		10		8								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1089.05	3573.00	1083.05	3553.31	Mattson		0.56	0.73	0.43	0.43	385				4.19		17		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1090.88	3579.00	1084.88	3559.32	Mattson		0.68	0.55	0.35	0.55	352				3.79		15		9								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1092.71	3585.00	1086.71	3565.32	Mattson		0.59	0.50	0.28	0.54	329				3.33		15		8								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1094.54	3591.00	1088.54	3571.33	Mattson		0.47	0.40	0.28	0.54	327				2.83		14		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1096.37	3597.00	1090.37	3577.33	Mattson		0.64	0.46	0.18	0.58	311				2.84		16		6								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1098.19	3603.00	1092.19	3583.30	Mattson		0.41	0.29	0.22	0.59	314				3.02		10		7								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1100.02	3609.00	1094.02	3589.30	Mattson		0.36	0.28	0.23	0.56	309				2.31		12		10								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1101.85	3615.00	1095.85	3595.31	Mattson		0.55	0.37	0.26	0.60	306				4.21		9		6								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1103.68	3621.00	1097.68	3601.31	Mattson		0.65	0.48	0.25	0.58	313				4.48		11		6								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1105.51	3627.00	1099.51	3607.32	Mattson		0.86	1.02	0.28	0.46	377				3.87		26		7								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1107.34	3633.00	1101.34	3613.32	Mattson		1.84	3.05	0.50	0.38	417				3.89		78		13								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1109.17	3639.00	1103.17	3619.32	Mattson		0.56	0.73	0.37	0.43	384				3.93		19		9								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1111.00	3645.00	1105.00	3625.33	Mattson		0.64	1.27	0.43	0.34	412				3.75		34		11								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	1112.82	3651.00	1106.82	3631.30	Mattson		0.21	0.35	0.31	0.37	372				3.36		10		9								RE II	Obermajer et al. (2012)
Kotaneelee YT I-48	2598.00	8523.62	2592.00	8503.94	Prophet	70.5	0.25	0.18	0.36	0.59	342	382	0.03	0.05	1.13	1.08	16	3	32	2.7	8.0	27.1	0.34	1329.00	0.74		RE 6	this study
Kotaneelee YT I-48	2601.00	8533.46	2595.00	8513.78	Prophet	70.8	0.22	0.14	0.35	0.61	346	386	0.04	0.04	1.11	1.07	13	4	32	1.8	8.5	26.1	0.36	1329.00	0.71		RE 6	this study
Kotaneelee YT I-48	2610.00	8562.99	2604.00	8543.31	Banff - *shale*	70.9	0.23	0.19	0.32	0.54	321	361	0.03	0.05	1.25	1.20	15	2	26	0.5	9.7	28.4	0.42	1329.00	0.78		RE 6	this study
Kotaneelee YT I-48	2619.00	8592.52	2613.00	8572.83	Banff - *shale*	70.3	0.18	0.28	0.35	0.40	453	493	0.12	0.06	1.36	1.30	21	9	26	0.8	10.7	30.6	0.46	1329.00	0.84		RE 6	this study
Kotaneelee YT I-48	2628.00	8622.05	2622.00	8602.36	Banff - *shale*	70.5	0.18	0.19	0.44	0.49	320	360	0.35	0.06	1.24	1.18	15	28	35	0.8	9.3	28.6	0.40	1329.00	0.78		RE 6	this study
Kotaneelee YT I-48	2637.00	8651.58	2631.00	8631.89	Banff - *shale*	70.7	0.19	0.15	0.42	0.54	317	357	0.20	0.05	1.24	1.19	12	16	34	0.6	9.8	28.3	0.42	1329.00	0.77		RE 6	this study
Kotaneelee YT I-48	2646.00	8681.10	2640.00	8661.42	Banff - *shale*	70.9	0.22	0.22	0.48	0.50	306	346	0.22	0.06	1.26	1.20	17	17	38	0.5	10.0	28.3	0.43	1329.00	0.77		RE 6	this study
Kotaneelee YT I-48	2655.00	8710.63	2649.00	8690.95	Banff - *shale*	70.8	0.17	0.16	0.63	0.51	308	348	0.95	0.09	1.20	1.11	13	79	53	1.1	8.8	26.6	0.38	1329.00	0.73		RE 6	this study
Kotaneelee YT I-48	2664.00	8740.16	2658.00	8720.47	Banff - *shale*	70.4	0.20	0.21	0.42	0.48	314	354	0.17	0.05	1.27	1.22	17	13	33	0.5	10.4	28.5	0.44	1329.00	0.78		RE 6	this study
Kotaneelee YT I-48	2673.00	8769.69	2667.00	8750.00	Banff - *shale*	70.6	0.21	0.19	0.35	0.53	312	352	0.17	0.05	1.22	1.17	16	14	29	0.4	9.4	28.2	0.40	1329.00	0.77		RE 6	this study
Kotaneelee YT I-48	2682.00	8799.21	2676.00	8779.53	Banff - *shale*	70.6	0.24	0.17	0.34	0.58	296	336	0.09	0.05	1.18	1.13	14	8	29	0.4	9.3	26.6	0.40	1329.00	0.73		RE 6	this study
Kotaneelee YT I-48	2691.00	8828.74	2685.00	8809.06	Banff - *shale*	70.1	0.12	0.13	0.33	0.50	316	356	0.08	0.04	0.71	0.67	18	11	46	0.8	5.3	16.1	0.23	1329.00	0.44		RE 6	this study
Kotaneelee YT I-48	2700.00	8858.27	2694.00	8838.58	Banff - *shale*	70.9	0.17	0.13	0.35	0.58	298	338	0.09	0.04	0.83	0.79	16	11	42	0.8	6.5	18.5	0.28	1329.00	0.51		RE 6	this study
Kotaneelee YT I-48	2709.00	8887.80	2703.00	8868.11	Banff - *shale*	70.6	0.58	4.00	0.38	0.13	389	429	0.13	0.40	1.48	1.08	270	9	26	0.6	8.2	26.9	0.35	1329.00	0.73		RE 6	this study
Kotaneelee YT I-48	2718.00	8917.32	2712.00	8897.64	Banff - *shale*	70.6	0.17	0.17	0.38	0.51	299	339	0.09	0.04	0.85	0.81	20	11	45	1.0	6.8	18.9	0.29	1329.00	0.52		RE 6	this study
Kotaneelee YT I-48	2727.00	8946.85	2721.00	8927.17	Banff - *shale*	70.9	0.15	0.12	0.35	0.56	298	338	0.08	0.04	0.70	0.66	17	11	50	0.4	4.8	16.4	0.21	1329.00	0.45		RE 6	this study
Kotaneelee YT I-48	2736.00	8976.38	2730.00	8956.69	Banff - *shale*	70.7	0.17	0.23	0.33	0.43	315	355	0.10	0.05	0.58	0.53	40	17	57	0.2	3.9	13.1	0.17	1329.00	0.36		RE 6	this study
Kotaneelee YT I-48	2745.00	9005.91	2739.00	8986.22	Banff - *shale*	71.2	0.10	0.10	0.08	0.50	350	390	0.09	0.02	0.50	0.48	20	18	16	0.3	3.8	11.9	0.16	1328.67	0.32		RE 6	this study
Kotaneelee YT I-48	2754.00	9035.43	2748.00	9015.75	Banff - *shale*	70.2	0.07	0.07	0.32	0.49	342	382	0.08	0.02	0.40	0.38	18	20	80	0.3	2.9	9.1	0.13	1329.00	0.25		RE 6	this study
Kotaneelee YT I-48	2763.00	9064.96	2757.00	9045.28	Banff - *shale*	70.7	0.10	0.09	0.32	0.51	293	333	0.08	0.03	0.55	0.52	16	15	58	0.5	4.3	12.4	0.18	1329.00	0.34		RE 6	this study
Kotaneelee YT I-48	2772.00	9094.49	2766.00	9074.80	Banff - *shale*	71.1	0.05	0.07	0.35	0.40	327	367	0.11	0.02	0.30	0.28	23	37	117	0.3	2.3	6.6	0.10	1329.00	0.18		RE 6	this study
Kotaneelee YT I-48	2781.00	9124.02	2775.00	9104.33	Banff - *shale*	70.6	0.07	0.10	0.33	0.40	301	341	0.08	0.03	0.40	0.37	25	20	83	0.2	3.1	9.0	0.13	1329.00	0.24		RE 6	this study
Kotaneelee YT I-48	2790.00	9153.54	2784.00	9133.86	Banff - *shale*	70.8	0.04	0.07	0.34	0.40	341	381	0.03	0.02	0.32	0.30	22	9	106	0.2	2.4	7.3	0.10	1329.00	0.20		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Kotaneelee YT I-48	2799.00	9183.07	2793.00	9163.39	Banff - *shale*	70.5	0.07	0.08	0.32	0.45	358	398	0.10	0.03	0.37	0.34	22	27	86	0.4	2.7	8.2	0.12	1329.00	0.22		RE 6	this study
Kotaneelee YT I-48	2808.00	9212.60	2802.00	9192.91	Banff - *shale*	70.0	0.07	0.09	0.39	0.45	299	339	0.09	0.03	0.39	0.36	23	23	100	0.4	2.8	8.7	0.12	1329.00	0.24		RE 6	this study
Kotaneelee YT I-48	2817.00	9242.13	2811.00	9222.44	Banff - *shale*	70.3	0.11	0.13	0.34	0.45	307	347	0.08	0.03	0.54	0.51	24	15	63	0.4	4.1	12.6	0.17	1329.00	0.34		RE 6	this study
Kotaneelee YT I-48	2826.00	9271.65	2820.00	9251.97	Banff - *shale*	70.7	0.11	0.12	0.31	0.48	301	341	0.07	0.03	0.50	0.47	24	14	62	0.3	3.5	11.8	0.15	1329.00	0.32		RE 6	this study
Kotaneelee YT I-48	2835.00	9301.18	2829.00	9281.50	Banff - *shale*	71.0	0.09	0.11	0.33	0.45	295	335	0.07	0.03	0.50	0.47	22	14	66	0.5	3.7	11.2	0.16	1329.00	0.31		RE 6	this study
Kotaneelee YT I-48	2844.00	9330.71	2838.00	9311.02	Banff - *shale*	70.4	0.07	0.08	0.26	0.49	347	387	0.07	0.02	0.46	0.44	17	15	57	0.5	3.3	11.0	0.14	1329.00	0.30		RE 6	this study
Kotaneelee YT I-48	2853.00	9360.24	2847.00	9340.55	Banff - *shale*	70.3	0.10	0.11	0.34	0.47	297	337	0.10	0.03	0.50	0.47	22	20	68	0.4	3.7	11.4	0.16	1329.00	0.31		RE 6	this study
Kotaneelee YT I-48	2862.00	9389.76	2856.00	9370.08	Banff - *shale*	70.7	0.18	0.18	0.37	0.50	312	352	0.04	0.04	0.83	0.79	22	5	45	0.6	6.5	18.8	0.28	1329.00	0.51		RE 6	this study
Kotaneelee YT I-48	2871.00	9419.29	2865.00	9399.61	Banff - *shale*	70.8	0.07	0.09	0.41	0.45	296	336	0.14	0.03	0.35	0.32	26	40	117	0.4	2.6	7.5	0.11	1329.00	0.21		RE 6	this study
Kotaneelee YT I-48	2880.00	9448.82	2874.00	9429.13	Banff - *shale*	70.7	0.07	0.08	0.37	0.45	303	343	0.11	0.03	0.29	0.26	28	38	128	0.3	2.1	6.3	0.09	1329.00	0.17		RE 6	this study
Kotaneelee YT I-48	2889.00	9478.35	2883.00	9458.66	Banff - *shale*	70.7	0.06	0.11	0.35	0.38	311	351	0.12	0.03	0.32	0.29	34	38	109	0.3	2.4	7.1	0.10	1329.00	0.19		RE 6	this study
Kotaneelee YT I-48	2898.00	9507.87	2892.00	9488.19	Banff - *shale*	70.5	0.05	0.08	0.35	0.37	328	368	0.12	0.03	0.26	0.23	31	46	135	0.3	1.8	5.5	0.08	1329.00	0.15		RE 6	this study
Kotaneelee YT I-48	2907.00	9537.40	2901.00	9517.72	Banff - *shale*	70.1	0.05	0.07	0.37	0.39	338	378	0.17	0.03	0.25	0.22	28	68	148	0.3	1.7	5.6	0.07	1329.00	0.15		RE 6	this study
Kotaneelee YT I-48	2916.00	9566.93	2910.00	9547.24	Banff - *shale*	70.3	0.05	0.06	0.38	0.42	301	341	0.09	0.02	0.24	0.22	25	38	158	0.2	1.7	5.5	0.07	1329.00	0.15		RE 6	this study
Kotaneelee YT I-48	2928.00	9606.30	2922.00	9586.61	Banff - *shale*	70.2	0.06	0.08	0.40	0.42	357	397	0.16	0.03	0.28	0.25	29	57	143	0.3	1.8	6.2	0.08	1329.00	0.17		RE 6	this study
Kotaneelee YT I-48	2937.00	9635.83	2931.00	9616.14	Banff - *shale*	70.6	0.10	0.19	0.37	0.34	357	397	0.13	0.04	0.45	0.41	42	29	82	0.5	3.2	10.0	0.14	1329.00	0.27		RE 6	this study
Kotaneelee YT I-48	2946.00	9665.35	2940.00	9645.67	Banff - *shale*	70.5	0.06	0.10	0.38	0.37	339	379	0.13	0.03	0.34	0.31	29	38	112	0.4	2.4	7.6	0.10	1329.00	0.21		RE 6	this study
Kotaneelee YT I-48	2955.00	9694.88	2949.00	9675.20	Banff - *shale*	70.3	0.07	0.13	0.36	0.34	347	387	0.15	0.03	0.33	0.30	39	45	109	0.4	2.3	7.4	0.10	1329.00	0.20		RE 6	this study
Kotaneelee YT I-48	2964.00	9724.41	2958.00	9704.72	Banff - *shale*	70.2	0.05	0.08	0.33	0.40	290	330	0.06	0.02	0.29	0.27	28	21	114	0.4	2.2	6.8	0.09	1329.00	0.18		RE 6	this study
Kotaneelee YT I-48	2973.00	9753.94	2967.00	9734.25	Banff - *shale*	70.0	0.05	0.08	0.34	0.37	337	377	0.07	0.02	0.28	0.26	29	25	121	0.3	2.1	6.3	0.09	1329.00	0.17		RE 6	this study
Kotaneelee YT I-48	2982.00	9783.46	2976.00	9763.78	Banff - *shale*	70.1	0.06	0.06	0.32	0.49	312	352	0.08	0.02	0.32	0.30	19	25	100	0.5	2.3	7.4	0.10	1329.00	0.20		RE 6	this study
Kotaneelee YT I-48	2991.00	9812.99	2985.00	9793.31	Banff - *shale*	70.6	0.07	0.08	0.34	0.46	327	367	0.03	0.03	0.35	0.32	23	9	97	0.6	2.4	8.0	0.10	1329.00	0.22		RE 6	this study
Kotaneelee YT I-48	3000.00	9842.52	2994.00	9822.83	Banff - *shale*	70.7	0.08	0.08	0.30	0.51	332	372	0.06	0.02	0.37	0.35	22	16	81	0.4	2.5	8.8	0.11	1329.00	0.24		RE 6	this study
Kotaneelee YT I-48	3009.00	9872.05	3003.00	9852.36	Banff - *shale*	70.0	0.06	0.08	0.30	0.44	346	386	0.07	0.02	0.34	0.32	24	21	88	0.4	2.4	8.0	0.10	1329.00	0.22		RE 6	this study
Kotaneelee YT I-48	3018.00	9901.58	3012.00	9881.89	Banff - *shale*	70.8	0.05	0.06	0.34	0.46	334	374	0.12	0.02	0.27	0.25	22	44	126	0.4	2.0	6.4	0.08	1329.00	0.17		RE 6	this study
Kotaneelee YT I-48	3027.00	9931.10	3021.00	9911.42	Banff - *shale*	70.6	0.06	0.08	0.32	0.43	341	381	0.08	0.02	0.28	0.26	29	29	114	0.5	1.9	6.7	0.08	1329.00	0.18		RE 6	this study
Kotaneelee YT I-48	3036.00	9960.63	3030.00	9940.95	Banff - *shale*	70.6	0.06	0.08	0.33	0.43	333	373	0.09	0.02	0.33	0.31	24	27	100	0.5	2.5	7.9	0.10	1329.00	0.21		RE 6	this study
Kotaneelee YT I-48	3045.00	9990.16	3039.00	9970.47	Banff - *shale*	69.8	0.08	0.08	0.35	0.48	293	333	0.09	0.03	0.40	0.37	20	22	88	0.5	2.9	9.2	0.12	1329.00	0.25		RE 6	this study
Kotaneelee YT I-48	3054.00	10019.69	3048.00	10000.00	Banff - *shale*	70.6	0.11	0.16	0.36	0.41	334	374	0.09	0.04	0.37	0.33	43	24	97	0.5	2.6	8.2	0.11	1329.00	0.22		RE 6	this study
Kotaneelee YT I-48	3060.00	10039.37	3054.00	10019.69	Banff - *shale*	70.2	0.09	0.14	0.36	0.39	346	386	0.03	0.03	0.36	0.33	39	8	100	0.7	2.6	8.0	0.11	1329.00	0.22		RE 6	this study
Kotaneelee YT I-48	3072.00	10078.74	3066.00	10059.06	Banff - *shale*	70.3	0.08	0.10	0.34	0.44	337	377	0.08	0.03	0.42	0.39	24	19	81	0.9	3.0	9.5	0.13	1329.00	0.26		RE 6	this study
Kotaneelee YT I-48	3078.00	10098.43	3072.00	10078.74	Banff - *shale*	71.0	0.16	0.12	0.31	0.58	314	354	0.08	0.04	0.60	0.56	20	13	52	0.6	4.3	13.6	0.19	1329.00	0.37		RE 6	this study
Kotaneelee YT I-48	3084.00	10118.11	3078.00	10098.43	Banff - *shale*	70.7	0.17	0.13	0.33	0.57	333	373	0.11	0.04	0.70	0.66	19	16	47	0.6	5.2	16.3	0.22	1329.00	0.44		RE 6	this study
Kotaneelee YT I-48	3090.00	10137.80	3084.00	10118.11	Banff - *shale*	70.5	0.22	0.20	0.32	0.53	319	359	0.04	0.05	0.81	0.76	25	5	40	0.5	6.1	18.3	0.26	1329.00	0.50		RE 6	this study
Kotaneelee YT I-48	3096.00	10157.48	3090.00	10137.80	Banff - *shale*	70.5	0.25	0.17	0.31	0.60	322	362	0.09	0.05	0.90	0.85	19	10	34	0.4	6.8	20.7	0.29	1329.00	0.56		RE 6	this study
Kotaneelee YT I-48	3099.00	10167.32	3093.00	10147.64	Banff - *shale*	70.1	0.26	0.14	0.33	0.65	314	354	0.07	0.05	0.95	0.90	15	7	35	0.4	7.1	22.1	0.30	1329.00	0.60		RE 6	this study
Kotaneelee YT I-48	3108.00	10196.85	3102.00	10177.17	Banff - *carbonate*	71.1	0.17	0.13	0.32	0.57	340	380	0.08	0.04	0.65	0.61	20	12	49	0.6	4.6	15.1	0.20	1329.00	0.41		RE 6	this study
Kotaneelee YT I-48	3117.00	10226.38	3111.00	10206.69	Banff - *carbonate*	70.8	0.09	0.08	0.37	0.53	337	377	0.06	0.03	0.35	0.32	23	17	106	2.5	2.0	8.8	0.08	1329.00	0.24		RE 6	this study
Kotaneelee YT I-48	3126.00	10255.91	3120.00	10236.22	Banff - *carbonate*	69.6	0.10	0.10	0.36	0.50	333	373	0.02	0.03	0.36	0.33	28	6	100	1.1	2.4	8.6	0.10	1329.00	0.23		RE 6	this study
Kotaneelee YT I-48	3135.00	10285.43	3129.00	10265.75	Banff - *carbonate*	70.9	0.09	0.09	0.34	0.51	341	381	0.08	0.03	0.36	0.33	25	22	94	2.1	2.2	8.7	0.09	1329.00	0.24		RE 6	this study
Kotaneelee YT I-48	3144.00	10314.96	3138.00	10295.28	Banff - *carbonate*	70.4	0.12	0.18	0.34	0.41	350	390	0.07	0.04	0.43	0.39	42	16	79	0.9	2.8	9.7	0.12	1329.00	0.27		RE 6	this study
Kotaneelee YT I-48	3153.00	10344.49	3147.00	10324.80	Banff - *carbonate*	70.7	0.10	0.11	0.32	0.47	314	354	0.08	0.03	0.39	0.36	28	21	82	0.9	2.7	8.6	0.12	1329.00	0.24		RE 6	this study
Kotaneelee YT I-48	3156.00	10354.33	3150.00	10334.65	Banff - *carbonate*	70.2	0.09	0.10	0.32	0.47	353	393	0.09	0.03	0.36	0.33	28	25	89	0.7	2.6	8.2	0.11	1329.00	0.22		RE 6	this study
Kotaneelee YT I-48	3162.00	10374.02	3156.00	10354.33	Exshaw	70.3	0.52	0.23	0.23	0.69	328	368	0.16	0.08	1.71	1.63	13	9	13	0.8	13.4	38.3	0.58	1250.00	1.05		RE 6	this study
Kotaneelee YT I-48	3168.00	10393.70	3162.00	10374.02	Exshaw	70.4	0.27	0.18	0.22	0.60	326	366	0.11	0.05	1.04	0.99	17	11	21	0.7	8.1	23.6	0.35	1250.00	0.64		RE 6	this study
Kotaneelee YT I-48	3174.00	10413.39	3168.00	10393.70	Exshaw	70.7	0.41	0.26	0.21	0.61	335	375	0.14	0.07	1.48	1.41	18	9	14	0.9	11.6	33.3	0.50	1250.00	0.91		RE 6	this study
Kotaneelee YT I-48	3180.00	10433.07	3174.00	10413.39	Exshaw	70.9	0.52	0.19	0.24	0.73	303	343	0.15	0.07	1.77	1.70	11	8	14	1.0	13.8	40.7	0.59	1250.00	1.11		RE 6	this study
Kotaneelee YT I-48	3186.00	10452.76	3180.00	10433.07	Exshaw	70.6	0.56	0.24	0.25	0.70	316	356	0.18	0.08	1.95	1.87	12	9	13	1.0	15.5	44.4	0.66	1250.00	1.21		RE 6	this study
Kotaneelee YT I-48	3192.00	10472.44	3186.00	10452.76	Exshaw	70.7	0.63	0.29	0.35	0.69	314	354	0.21	0.10	2.29	2.19	13	9	15	1.0	18.3	51.2	0.79	1252.00	1.40		RE 6	this study
Kotaneelee YT I-48	3198.00	10492.13	3192.00	10472.44	Exshaw	70.6	0.44	0.21	0.21	0.67	315	355	0.15	0.07	1.83	1.76	11	8	11	1.1	14.6	41.9	0.62	1250.00	1.14		RE 6	this study
Kotaneelee YT I-48	3204.00	10511.81	3198.00	10492.13	Exshaw	70.2	0.50	0.22	0.22	0.70	309	349	0.18	0.08	1.97	1.89	11	9	11	0.9	14.8	45.8	0.64	1250.00	1.25		RE 6	this study
Kotaneelee YT I-48	3210.00	10531.50	3204.00	10511.81	Exshaw	70.0	0.32	0.14	0.21	0.70	308	348	0.14	0.05	1.33	1.28	11	11	16	0.9	9.8	31.6	0.42	1250.00	0.86		RE 6	this study
Kotaneelee YT I-48	3216.00	10551.18	3210.00	10531.50	Exshaw	70.5	0.42	0.18	0.15	0.70	309	349	0.13	0.06	1.69	1.63	11	8	9	0.6	13.4	38.8	0.57	1250.00	1.06		RE 6	this study
Kotaneelee YT I-48	3222.00	10570.87	3216.00	10551.18	Exshaw	69.9	0.62	0.28	0.22	0.68	301	341	0.08	0.09	2.76	2.67	10	3	8	0.9	21.5	64.0	0.92	1250.00	1.75		RE 6	this study
Kotaneelee YT I-48	3228.00	10590.55	3222.00	10570.87	Exshaw	70.3	0.78	0.30	0.19	0.72	300	340	0.07	0.10	2.87	2.77	10	2	7	0.5	21.9	67.2	0.94	1250.00	1.83		RE 6	this study
Kotaneelee YT I-48	3234.00	10610.24	3228.00	10590.55	Exshaw	71.1	0.85	0.39	0.25	0.68	301	341	0.09	0.12	3.19	3.07	12	3	8	0.6	24.1	74.8	1.03	1250.00	2.04		RE 6	this study
Kotaneelee YT I-48	3240.00	10629.92	3234.00	10610.24	Exshaw	70.3	0.89	0.50	0.26	0.64	310	350	0.11	0.13	3.36	3.23	15	3	8	0.4	24.1	80.5	1.03	1250.00	2.20		RE 6	this study
Kotaneelee YT I-48	3243.00	10639.76	3237.00	10620.08	Exshaw	70.0	1.04	0.70	0.26	0.60	311	351	0.12	0.16	3.40	3.24	21	4	8	0.4	23.3	82.1	1.00	1250.00	2.24		RE 6	this study
Kotaneelee YT I-48	3249.00	10659.45	3243.00	10639.76	Exshaw	70.7	1.09	0.36	0.23	0.75	300	340	0.11	0.14	3.92	3.78	9	3	6	0.4	26.5	96.9	1.14	1250.00	2.64		RE 6	this study
Kotaneelee YT I-48	3252.00	10669.29	3246.00	10649.61	Exshaw	70.8	0.95	0.31	0.20	0.75	300	340	0.08	0.12	3.66	3.54	8	2	5	0.4	24.5	91.2	1.05	1250.00	2.49		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Kotaneelee YT I-48	3255.00	10679.13	3249.00	10659.45	Exshaw	70.4	0.81	0.26	0.20	0.76	303	343	0.09	0.10	3.41	3.31	8	3	6	0.5	23.1	85.1	0.99	1250.00	2.32		RE 6	this study
Kotaneelee YT I-48	3258.00	10688.98	3252.00	10669.29	Exshaw	70.7	0.78	0.29	0.31	0.73	302	342	0.11	0.11	4.08	3.97	7	3	8	0.5	28.4	100.8	1.22	1250.00	2.75		RE 6	this study
Kotaneelee YT I-48	3261.00	10698.82	3255.00	10679.13	Exshaw	70.3	0.91	0.29	0.31	0.76	299	339	0.11	0.12	4.63	4.51	6	2	7	0.5	34.8	110.6	1.49	1230.00	3.02		RE 6	this study
Kotaneelee YT I-48	3264.00	10708.66	3258.00	10688.98	Exshaw	70.1	0.93	0.30	0.38	0.76	295	335	0.12	0.13	4.34	4.21	7	3	9	0.8	34.0	101.0	1.46	1230.00	2.75		RE 6	this study
Kotaneelee YT I-48	3267.00	10718.50	3261.00	10698.82	Exshaw	70.3	1.14	0.41	0.41	0.73	301	341	0.14	0.16	4.93	4.77	8	3	8	0.6	39.1	113.7	1.67	1230.00	3.10		RE 6	this study
Kotaneelee YT I-48	3270.00	10728.35	3264.00	10708.66	Exshaw	70.1	1.06	0.33	0.43	0.76	300	340	0.18	0.15	4.98	4.83	7	4	9	0.7	38.5	116.6	1.65	1230.00	3.18		RE 6	this study
Kotaneelee YT I-48	3273.00	10738.19	3267.00	10718.50	Patry	70.5	1.31	0.50	0.26	0.72	308	348	0.11	0.17	5.23	5.06	10	2	5	0.5	43.3	117.5	1.85	1230.00	3.21		RE 6	this study
Kotaneelee YT I-48	3276.00	10748.03	3270.00	10728.35	Patry	70.8	1.37	0.54	0.22	0.72	303	343	0.11	0.18	5.07	4.89	11	2	4	0.4	40.7	115.0	1.75	1230.00	3.14		RE 6	this study
Kotaneelee YT I-48	3279.00	10757.87	3273.00	10738.19	Patry	70.9	1.35	0.54	0.29	0.72	327	367	0.22	0.18	5.07	4.89	11	4	6	0.8	41.0	114.8	1.76	1230.00	3.13		RE 6	this study
Kotaneelee YT I-48	3282.00	10767.72	3276.00	10748.03	Patry	70.5	1.30	0.48	0.24	0.73	302	342	0.09	0.16	4.59	4.43	10	2	5	0.6	37.8	103.2	1.62	1230.00	2.81		RE 6	this study
Kotaneelee YT I-48	3285.00	10777.56	3279.00	10757.87	Patry	70.6	1.29	0.42	0.17	0.75	302	342	0.10	0.16	4.71	4.55	9	2	4	0.4	39.0	105.6	1.67	1230.00	2.88		RE 6	this study
Kotaneelee YT I-48	3288.00	10787.40	3282.00	10767.72	Patry	70.4	1.43	0.51	0.20	0.74	300	340	0.11	0.18	5.02	4.84	10	2	4	0.4	42.2	111.1	1.81	1230.00	3.03		RE 6	this study
Kotaneelee YT I-48	3291.00	10797.24	3285.00	10777.56	Patry	70.3	1.47	0.51	0.26	0.74	308	348	0.26	0.18	4.86	4.68	10	5	5	0.6	39.3	110.1	1.68	1230.00	3.00		RE 6	this study
Kotaneelee YT I-48	3294.00	10807.09	3288.00	10787.40	Patry	70.3	1.57	0.67	0.29	0.70	302	342	0.13	0.21	5.20	4.99	13	2	6	0.4	41.7	117.3	1.79	1230.00	3.20		RE 6	this study
Kotaneelee YT I-48	3297.00	10816.93	3291.00	10797.24	Patry	70.4	1.65	0.75	0.17	0.69	309	349	0.11	0.21	4.48	4.27	17	2	4	0.9	36.8	98.5	1.58	1230.00	2.69		RE 6	this study
Kotaneelee YT I-48	3300.00	10826.77	3294.00	10807.09	Patry	71.1	1.27	0.67	0.20	0.65	312	352	0.10	0.18	4.64	4.46	14	2	4	0.9	36.8	105.7	1.58	1230.00	2.88		RE 6	this study
Kotaneelee YT I-48	3303.00	10836.61	3297.00	10816.93	Patry	71.0	1.22	0.59	0.27	0.67	300	340	0.20	0.17	4.95	4.78	12	4	5	0.7	42.0	109.2	1.80	1230.00	2.98		RE 6	this study
Kotaneelee YT I-48	3306.00	10846.46	3300.00	10826.77	Patry	70.2	1.19	0.52	0.18	0.70	301	341	0.10	0.16	4.57	4.41	11	2	4	0.7	38.9	100.8	1.66	1230.00	2.75		RE 6	this study
Kotaneelee YT I-48	3309.00	10856.30	3303.00	10836.61	Patry	70.3	1.01	0.53	0.22	0.66	305	345	0.18	0.15	4.66	4.51	11	4	5	0.7	36.0	108.8	1.54	1230.00	2.97		RE 6	this study
Kotaneelee YT I-48	3312.00	10866.14	3306.00	10846.46	Patry	70.3	0.94	0.40	0.20	0.70	301	341	0.07	0.12	4.17	4.05	10	2	5	1.9	35.7	92.3	1.53	1230.00	2.52		RE 6	this study
Kotaneelee YT I-48	3315.00	10875.98	3309.00	10856.30	Patry	70.7	1.19	0.74	0.24	0.62	309	349	0.09	0.17	4.62	4.45	16	2	5	0.7	43.2	95.5	1.85	1252.00	2.60		RE 6	this study
Kotaneelee YT I-48	3324.00	10905.51	3318.00	10885.83	Patry	70.7	0.96	0.45	0.23	0.68	309	349	0.20	0.13	3.66	3.53	12	5	6	0.4	34.1	76.0	1.46	1252.00	2.07		RE 6	this study
Kotaneelee YT I-48	3327.00	10915.35	3321.00	10895.67	Patry	70.6	1.18	0.75	0.23	0.61	309	349	0.10	0.18	3.91	3.73	19	3	6	0.5	36.6	79.1	1.57	1252.00	2.16		RE 6	this study
Kotaneelee YT I-48	3330.00	10925.20	3324.00	10905.51	Patry	70.5	0.99	0.44	0.21	0.69	306	346	0.09	0.13	3.74	3.61	12	2	6	0.7	33.8	79.3	1.45	1252.00	2.16		RE 6	this study
Kotaneelee YT I-48	3336.00	10944.88	3330.00	10925.20	Fort Simpson - *upper*	70.8	0.58	0.34	0.35	0.63	318	358	0.21	0.10	2.84	2.74	12	7	12	1.5	20.1	69.0	0.86	1252.00	1.88		RE 6	this study
Kotaneelee YT I-48	3342.00	10964.57	3336.00	10944.88	Fort Simpson - *upper*	70.3	0.15	0.16	0.32	0.47	343	383	0.10	0.04	0.58	0.54	28	17	55	1.5	3.7	13.8	0.16	1252.00	0.38		RE 6	this study
Kotaneelee YT I-48	3351.00	10994.09	3345.00	10974.41	Fort Simpson - *upper*	70.4	0.09	0.06	0.31	0.59	334	374	0.04	0.02	0.40	0.38	15	10	78	3.1	2.6	9.8	0.11	1252.00	0.27		RE 6	this study
Kotaneelee YT I-48	3360.00	11023.62	3354.00	11003.94	Fort Simpson - *upper*	70.8	0.27	0.14	0.29	0.66	316	356	0.11	0.05	0.85	0.80	16	13	34	2.1	5.9	20.3	0.25	1252.00	0.55		RE 6	this study
Kotaneelee YT I-48	3369.00	11053.15	3363.00	11033.46	Fort Simpson - *upper*	70.6	0.28	0.48	0.16	0.37	354	394	0.04	0.07	0.98	0.91	49	4	16	1.0	6.8	22.8	0.29	1252.00	0.62		RE 6	this study
Kotaneelee YT I-48	3378.00	11082.68	3372.00	11062.99	Fort Simpson - *upper*	70.1	0.33	0.30	0.16	0.53	344	384	0.10	0.06	1.27	1.21	24	8	13	0.6	9.1	29.9	0.39	1252.00	0.82		RE 6	this study
Kotaneelee YT I-48	3387.00	11112.21	3381.00	11092.52	Fort Simpson - *upper*	70.4	0.43	0.31	0.18	0.58	318	358	0.14	0.07	1.61	1.54	19	9	11	0.9	11.4	38.4	0.49	1252.00	1.05		RE 6	this study
Kotaneelee YT I-48	3396.00	11141.73	3390.00	11122.05	Fort Simpson - *upper*	70.9	0.45	0.31	0.19	0.60	330	370	0.11	0.07	1.82	1.75	17	6	10	0.5	13.9	42.0	0.60	1252.00	1.15		RE 6	this study
Kotaneelee YT I-48	3408.00	11181.10	3402.00	11161.42	Fort Simpson - *middle*	71.1	0.59	0.35	0.21	0.62	310	350	0.11	0.09	2.25	2.16	16	5	9	0.7	17.7	51.5	0.76	1252.00	1.40		RE 6	this study
Kotaneelee YT I-48	3417.00	11210.63	3411.00	11190.95	Fort Simpson - *middle*	70.4	0.76	0.42	0.30	0.64	307	347	0.10	0.11	3.51	3.40	12	3	9	0.7	27.5	81.5	1.18	1252.00	2.22		RE 6	this study
Kotaneelee YT I-48	3426.00	11240.16	3420.00	11220.47	Fort Simpson - *middle*	70.8	0.90	0.50	0.25	0.64	306	346	0.09	0.13	3.26	3.13	15	3	8	0.4	27.9	70.7	1.20	1252.00	1.93		RE 6	this study
Kotaneelee YT I-48	3435.00	11269.69	3429.00	11250.00	Fort Simpson - *middle*	70.2	0.77	0.59	0.26	0.57	341	381	0.07	0.13	3.24	3.11	18	2	8	1.2	28.0	70.2	1.20	1252.00	1.91		RE 6	this study
Kotaneelee YT I-48	3444.00	11299.21	3438.00	11279.53	Fort Simpson - *middle*	70.3	0.66	0.67	0.23	0.49	367	407	0.07	0.12	3.01	2.89	22	2	8	0.4	25.6	65.7	1.10	1252.00	1.79		RE 6	this study
Kotaneelee YT I-48	3453.00	11328.74	3447.00	11309.06	Fort Simpson - *middle*	70.1	0.52	0.34	0.24	0.60	317	357	0.16	0.08	2.45	2.37	14	7	10	0.7	18.7	57.6	0.80	1252.00	1.57		RE 6	this study
Kotaneelee YT I-48	3462.00	11358.27	3456.00	11338.58	Fort Simpson - *middle*	70.5	0.77	0.34	0.18	0.70	309	349	0.06	0.10	2.77	2.67	12	2	6	0.4	23.1	61.5	0.99	1252.00	1.68		RE 6	this study
Kotaneelee YT I-48	3471.00	11387.80	3465.00	11368.11	Fort Simpson - *lower*	70.6	0.69	0.32	0.22	0.69	307	347	0.05	0.09	2.62	2.53	12	2	8	0.6	20.6	60.6	0.88	1252.00	1.65		RE 6	this study
Kotaneelee YT I-48	3480.00	11417.32	3474.00	11397.64	Fort Simpson - *lower*	70.6	0.65	0.32	0.42	0.67	310	350	0.10	0.10	2.03	1.93	16	5	21	3.4	14.0	48.7	0.60	1252.00	1.33		RE 6	this study
Kotaneelee YT I-48	3489.00	11446.85	3483.00	11427.17	Fort Simpson - *lower*	70.8	0.17	0.14	0.22	0.55	342	382	0.10	0.04	0.60	0.56	23	17	37	1.4	4.3	14.0	0.18	1252.00	0.38		RE 6	this study
Kotaneelee YT I-48	3498.00	11476.38	3492.00	11456.69	Fort Simpson - *lower*	70.8	0.17	0.08	0.27	0.67	321	361	0.05	0.03	0.58	0.55	14	9	47	2.1	4.3	13.6	0.18	1252.00	0.37		RE 6	this study
Kotaneelee YT I-48	3507.00	11505.91	3501.00	11486.22	Fort Simpson - *lower*	70.4	0.16	0.08	0.24	0.67	335	375	0.07	0.03	0.58	0.55	14	12	41	1.6	4.3	13.7	0.18	1252.00	0.37		RE 6	this study
Kotaneelee YT I-48	3516.00	11535.43	3510.00	11515.75	Fort Simpson - *lower*	71.0	0.05	0.04	0.14	0.56	320	360	0.03	0.01	0.29	0.28	14	10	48	0.3	1.8	7.4	0.08	1252.00	0.20		RE 6	this study
Kotaneelee YT I-48	3525.00	11564.96	3519.00	11545.28	Fort Simpson - *lower*	70.4	0.17	0.33	0.22	0.34	345	385	0.06	0.05	0.69	0.64	48	9	32	0.5	4.5	16.4	0.19	1252.00	0.45		RE 6	this study
Kotaneelee YT I-48	3531.00	11584.65	3525.00	11564.96	Fort Simpson - *lower*	70.5	0.15	0.14	0.24	0.51	337	377	0.13	0.04	0.67	0.63	21	19	36	0.5	4.6	15.7	0.20	1252.00	0.43		RE 6	this study
Kotaneelee YT I-48	3537.00	11604.33	3531.00	11584.65	Fort Simpson - *lower*	70.2	0.25	0.18	0.20	0.58	327	367	0.07	0.04	0.66	0.62	27	11	30	1.9	4.1	16.1	0.18	1252.00	0.44		RE 6	this study
Kotaneelee YT I-48	3540.00	11614.17	3534.00	11594.49	Fort Simpson - *lower*	70.0	0.20	0.13	0.20	0.61	328	368	0.07	0.04	0.62	0.58	21	11	32	1.6	3.8	15.5	0.16	1252.00	0.42		RE 6	this study
Kotaneelee YT I-48	3549.00	11643.70	3541.00	11617.45	Fort Simpson - *lower*	70.4	0.15	0.13	0.24	0.53	332	372	0.03	0.04	0.51	0.47	25	6	47	1.3	3.0	12.5	0.13	1252.00	0.34		RE 6	this study
Kotaneelee YT I-48	3558.00	11673.23	3550.00	11646.98	Muskwa	70.6	0.32	0.22	0.22	0.59	311	351	0.09	0.06	1.88	1.82	12	5	12	2.6	11.1	49.5	0.47	1252.00	1.35		RE 6	this study
Kotaneelee YT I-48	3564.00	11692.91	3556.00	11666.67	Muskwa	70.1	0.45	0.40	0.20	0.53	331	371	0.08	0.08	4.38	4.30	9	2	5	0.9	32.3	106.7	1.39	1252.00	2.91		RE 6	this study
Kotaneelee YT I-48	3567.00	11702.76	3559.00	11676.51	Muskwa	70.9	0.71	0.49	0.32	0.59	317	357	0.25	0.12	3.86	3.74	13	6	8	0.5	29.7	90.7	1.27	1252.00	2.47		RE 6	this study
Kotaneelee YT I-48	3576.00	11732.28	3568.00	11706.04	Otter Park	70.4	0.75	0.50	0.26	0.60	327	367	0.07	0.12	3.64	3.52	14	2	7	1.5	28.3	84.9	1.21	1252.00	2.31		RE 6	this study
Kotaneelee YT I-48	3597.00	11801.18	3589.00	11774.93	Otter Park	70.0	0.66	0.43	0.20	0.61	326	366	0.20	0.11	2.98	2.87	14	7	7	0.8	21.7	71.1	0.93	1252.00	1.94		RE 6	this study
Kotaneelee YT I-48	3609.00	11840.55	3601.00	11814.30	Otter Park	70.5	0.47	0.32	0.18	0.59	333	373	0.17	0.08	2.52	2.44	13	7	7	0.7	16.9	63.0	0.72	1252.00	1.72		RE 6	this study
Kotaneelee YT I-48	3612.00	11850.39	3604.00	11824.15	Otter Park	70.0	0.64	0.51	0.15	0.55	327	367	0.06	0.11	4.42	4.31	12	1	3	0.4	35.3	102.8	1.51	1252.00	2.80		RE 6	this study
Kotaneelee YT I-48	3618.00	11870.08	3610.00	11843.83	Otter Park	70.7	0.45	0.57	0.21	0.44	340	380	0.17	0.10	4.84	4.74	12	4	4	0.7	32.8	122.2	1.41	1252.00	3.33		RE 6	this study
Kotaneelee YT I-48	3627.00	11899.61	3619.00	11873.36	Evie	69.8	1.24	1.41	0.24	0.47	378	418	0.07	0.24	3.59	3.35	39	2	7	1.3	22.0	88.4	0.94	1252.00	2.41		RE 6	this study
Kotaneelee YT I-48	3630.00	11909.45	3622.00	11883.20	Evie	71.0	3.58	5.65	0.50	0.39	411	451	0.09	0.79	3.61	2.82	157	2	14	1.2	16.7	77.5	0.71	1252.00	2.11		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Kotaneelee YT I-48	3639.00	11938.98	3631.00	11912.73	Evie	70.6	0.51	0.51	0.24	0.50	333	373	0.15	0.10	3.63	3.53	14	4	7	2.2	24.8	90.7	1.06	1252.00	2.47		RE 6	this study
Kotaneelee YT I-48	3642.00	11948.82	3634.00	11922.57	Evie	70.4	0.50	0.56	0.28	0.47	347	387	0.06	0.10	3.65	3.55	15	2	8	1.9	26.0	89.4	1.11	1252.00	2.44		RE 6	this study
Kotaneelee YT I-48	3645.00	11958.66	3637.00	11932.42	Evie	70.5	0.59	1.18	0.31	0.33	417	457	0.12	0.16	3.65	3.49	32	3	8	2.8	20.7	95.5	0.89	1252.00	2.60		RE 6	this study
Kotaneelee YT I-48	3648.00	11968.50	3640.00	11942.26	Evie	70.9	0.18	0.52	0.23	0.25	396	436	0.05	0.07	3.38	3.31	15	1	7	1.2	22.0	87.0	0.94	1252.00	2.37		RE 6	this study
Kotaneelee YT E-37	3413.76	11200.00			Exshaw		0.17	0.22	0.29	0.44	341				1.38		16		21								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3419.86	11220.00			Exshaw		0.31	0.26	0.27	0.54	339				2.81		9		10								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3425.95	11240.00			Exshaw		0.30	0.34	0.29	0.47	349				2.86		12		10								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3432.05	11260.00			Exshaw		0.39	0.41	0.26	0.49	343				3.42		12		8								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3438.14	11280.00			Exshaw		0.49	0.49	0.31	0.50	340				4.81		10		6								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3444.24	11300.00			Exshaw		0.41	0.46	0.37	0.47	359				5.74		8		6								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3450.34	11320.00			Patry		0.57	0.61	0.50	0.48	348				6.86		9		7								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3456.43	11340.00			Patry		0.53	0.50	0.36	0.51	330				4.58		11		8								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3462.53	11360.00			Patry		0.78	0.52	0.33	0.60	307				4.39		12		8								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3468.62	11380.00			Patry		0.61	0.41	0.30	0.60	334				5.11		8		6								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3474.72	11400.00			Patry		0.52	0.57	0.40	0.48	388				5.75		10		7								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3478.00	11412.00			Patry		0.09	0.12	0.04	0.43					3.01		4		1								RE II	Fowler et al. (2003)
Kotaneelee YT E-37	3480.82	11420.00			Patry		0.27	0.35	0.30	0.44	349				3.37		10		9								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3482.00	11423.00			Patry		0.16	0.14	0.03	0.53					4.09		3		1								RE II	Fowler et al. (2003)
Kotaneelee YT E-37	3486.91	11440.00			Patry		0.22	0.33	0.27	0.40	339				2.26		15		12								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3487.00	11441.00			Patry		0.08	0.10	0.00	0.44					3.12		3		0								RE II	Fowler et al. (2003)
Kotaneelee YT E-37	3493.01	11460.00			Patry		0.27	0.26	0.24	0.51	335				2.59		10		9								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3499.10	11480.00			Patry		0.43	0.41	0.37	0.51	339				4.17		10		9								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3505.20	11500.00			Patry		0.46	0.37	0.31	0.55	331				3.61		10		9								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3511.30	11520.00			Fort Simpson - *upper*		0.58	0.44	0.29	0.57	309				4.05		11		7								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3517.39	11540.00			Fort Simpson - *upper*		0.27	0.21	0.27	0.56	311				1.88		11		14								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3523.49	11560.00			Fort Simpson - *upper*		0.21	0.23	0.25	0.48	333				1.39		17		18								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3529.58	11580.00			Fort Simpson - *upper*		0.14	0.16	0.26	0.47	336				1.09		15		24								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3535.68	11600.00			Fort Simpson - *upper*		0.12	0.14	0.24	0.46	333				0.93		15		26								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3541.78	11620.00			Fort Simpson - *upper*		0.17	0.20	0.08	0.46	334				1.24		16		6								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3547.87	11640.00			Fort Simpson - *upper*		0.10	0.14	0.26	0.42	335				0.95		15		27								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3553.97	11660.00			Fort Simpson - *upper*		0.10	0.14	0.27	0.42	341				1.03		14		26								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3560.06	11680.00			Fort Simpson - *upper*		0.11	0.12	0.22	0.48	325				0.87		14		25								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3566.16	11700.00			Fort Simpson - *upper*		0.11	0.15	0.34	0.42	341				1.06		14		32								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3572.26	11720.00			Fort Simpson - *upper*		0.12	0.19	0.23	0.39	340				1.26		15		18								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3578.35	11740.00			Fort Simpson - *upper*		0.18	0.25	0.29	0.42	335				1.47		17		20								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3584.45	11760.00			Fort Simpson - *upper*		0.18	0.29	0.30	0.38	342				1.68		17		18								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3590.54	11780.00			Fort Simpson - *middle*		0.14	0.26	0.27	0.35	342				1.48		18		18								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3596.64	11800.00			Fort Simpson - *middle*		0.20	0.20	0.27	0.50	314				1.74		11		16								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3602.74	11820.00			Fort Simpson - *middle*		0.34	0.27	0.34	0.56	306				2.90		9		12								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3608.83	11840.00			Fort Simpson - *middle*		0.20	0.20	0.34	0.50	308				2.43		8		14								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3614.93	11860.00			Fort Simpson - *middle*		0.20	0.26	0.27	0.43	334				2.81		9		10								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3621.02	11880.00			Fort Simpson - *middle*		0.27	0.36	0.27	0.43	342				3.58		10		8								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3627.12	11900.00			Fort Simpson - *middle*		0.26	0.27	0.28	0.50	314				4.01		7		7							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3633.22	11920.00			Fort Simpson - *middle*		0.29	0.32	0.27	0.48	328				3.77		9		7							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3639.31	11940.00			Fort Simpson - *middle*		0.34	0.37	0.37	0.48	332				4.54		8		8							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3645.41	11960.00			Fort Simpson - *middle*		0.41	0.50	0.27	0.45	342				3.96		13		7							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3651.50	11980.00			Fort Simpson - *middle*		0.52	0.44	0.29	0.55	319				3.88		11		7							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3657.60	12000.00			Fort Simpson - *middle*		0.37	0.36	0.27	0.51	325				2.32		16		12							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3663.70	12020.00			Fort Simpson - *middle*		0.31	0.36	0.25	0.46	333				2.62		14		10							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3669.79	12040.00			Fort Simpson - *middle*		0.24	0.22	0.27	0.53	310				1.54		187		205							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3675.89	12060.00			Fort Simpson - *middle*		0.14	0.21	0.28	0.40	331				1.16		28		33							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3681.98	12080.00			Fort Simpson - *middle*		0.10	0.14	0.21	0.42	327				0.58		240		326							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3688.08	12100.00			Fort Simpson - *middle*		0.08	0.12	0.21	0.40	338				0.35		209		382							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3694.18	12120.00			Fort Simpson - *lower*		0.05	0.08	0.20	0.40	339				0.26		88		212							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3700.27	12140.00			Fort Simpson - *lower*		0.06	0.10	0.21	0.39	340				0.23		260		524							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3706.37	12160.00			Fort Simpson - *lower*		0.10	0.13	0.25	0.43	332				0.54		24		46							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3712.46	12180.00			Fort Simpson - *lower*		0.06	0.08	0.21	0.41	307				0.37		22		58							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3718.56	12200.00			Fort Simpson - *lower*		0.06	0.10	0.32	0.38	314				0.43		24		74							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3724.66	12220.00			Fort Simpson - *lower*		0.06	0.07	0.23	0.44	309				0.41		17		56							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3730.75	12240.00			Fort Simpson - *lower*		0.07	0.10	0.20	0.41	331				0.47		21		43							*	RE II	Obermajer et al. (2012)

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Kotaneelee YT E-37	3736.85	12260.00			Fort Simpson - *lower*		0.06	0.09	0.23	0.40	339				0.45		19		51							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3742.94	12280.00			Fort Simpson - *lower*		0.08	0.10	0.23	0.43	315				0.47		22		49							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3749.04	12300.00			Fort Simpson - *lower*		0.04	0.08	0.28	0.35	329				0.35		22		81							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3755.14	12320.00			Fort Simpson - *lower*		0.05	0.09	0.26	0.36	332				0.41		23		64							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3761.23	12340.00			Fort Simpson - *lower*		0.05	0.09	0.26	0.34	336				0.40		23		65							*	RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3767.33	12360.00			Fort Simpson - *lower*		0.07	0.10	0.27	0.41	337				0.46		22		59								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3773.42	12380.00			Fort Simpson - *lower*		0.05	0.09	0.17	0.36	339				0.45		20		38								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3779.52	12400.00			Fort Simpson - *lower*		0.07	0.10	0.28	0.41	322				0.52		19		54								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3785.62	12420.00			Muskwa		0.07	0.11	0.25	0.39	334				0.75		15		33								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3791.71	12440.00			Muskwa		0.16	0.21	0.32	0.43	320				2.18		10		15								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3797.81	12460.00			Muskwa		0.43	0.41	0.32	0.51	314				3.86		11		8								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3803.90	12480.00			Muskwa		0.32	0.36	0.30	0.47	320				2.74		13		11								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3810.00	12500.00			Otter Park		0.41	0.42	0.30	0.49	323				3.77		11		8								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3816.10	12520.00			Otter Park		0.35	0.41	0.29	0.46	341				2.73		15		11								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3822.19	12540.00			Otter Park		0.31	0.33	0.27	0.48	328				2.32		14		12								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3828.29	12560.00			Otter Park		0.30	0.28	0.25	0.52	327				2.10		13		12								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3834.38	12580.00			Otter Park		0.17	0.23	0.22	0.43	326				2.15		11		10								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3840.48	12600.00			Otter Park		0.31	0.42	0.25	0.42	343				2.29		18		11								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3846.58	12620.00			Otter Park		0.18	0.23	0.17	0.44	330				1.88		12		9								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3852.67	12640.00			Otter Park		0.19	0.22	0.23	0.46	324				1.83		12		13								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3858.77	12660.00			Evie		0.21	0.27	0.32	0.44	311				2.77		10		12								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3864.86	12680.00			Evie		0.28	0.29	0.30	0.49	314				3.41		9		9								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3870.96	12700.00			Evie		0.24	0.30	0.29	0.44	334				2.77		11		10								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3877.06	12720.00			Evie		0.30	0.33	0.31	0.48	332				3.01		11		10								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3879.00	12727.00			Evie		0.00	0.01	0.00	0.00					2.08		0		0								RE II	Fowler et al. (2003)
Kotaneelee YT E-37	3882.00	12738.00			Evie		0.00	0.01	0.00	0.00					1.65		1		0								RE II	Fowler et al. (2003)
Kotaneelee YT E-37	3883.15	12740.00			Evie		0.06	0.13	0.25	0.32	332				0.87		15		29								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3889.25	12760.00			Evie		0.10	0.16	0.35	0.38	323				2.57		6		14								RE II	Obermajer et al. (2012)
Kotaneelee YT E-37	3899.00	12792.00			Nahanni		0.03	0.19	1.19	0.12	594				5.21		3		23							*	RE II	Morrow & Potter (1998)
Kotaneelee YT E-37	3958.44	12987.00			Nahanni		0.11	0.58	0.73	0.16	592				7.85		8		10							*	RE II	Morrow & Potter (1998)
N. Beaver River YT I-27	963.17	3160.00			Mattson		1.00	1.83	0.42	0.42	440				1.07		172		40							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	969.00	3179.13			Mattson		1.18	1.66	0.33	0.42	441				1.08		154		31								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	989.08	3245.00			Mattson		1.00	0.83	0.23	0.58	440				0.92		91		25							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	993.00	3257.87			Mattson		1.10	0.77	0.24	0.59	439				0.89		87		27								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1001.27	3285.00			Mattson		5.50	23.69	0.59	0.19	446				9.38		254		7							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1002.64	3289.50			Mattson		5.14	23.55	0.85	0.19	446				9.97		260		5								RE II	Potter et al. (1993)
N. Beaver River YT I-27	1006.00	3300.53			Mattson		5.14	22.77	0.56	0.18	445				9.97		228		6								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1080.52	3545.00			Mattson		3.00	4.68	1.10	0.39	454				4.81		98		23							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1082.00	3549.87			Mattson		3.00	4.68	1.10	0.39	440				4.80		90		25								RE II	Potter et al. (1993)
N. Beaver River YT I-27	1085.00	3559.71			Mattson		2.90	4.74	1.02	0.38	452				4.73		100		22								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1336.55	4385.00			Mattson		1.00	1.15	0.99	0.43	444				2.16		53		46							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1338.10	4390.09			Mattson		0.88	1.15	0.99	0.43	441				2.12		56		46								RE II	Potter et al. (1993)
N. Beaver River YT I-27	1347.00	4419.29			Mattson		0.83	1.14	0.94	0.42	441				2.03		56		46								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1385.70	4546.26			Mattson		0.57	0.56	0.59	0.44	443				1.29		52		55								RE II	Potter et al. (1993)
N. Beaver River YT I-27	1394.46	4575.00			Mattson		1.00	0.89	0.60	0.39	447				1.29		70		47							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1399.00	4589.90			Mattson		0.55	0.94	0.58	0.37	446				1.29		73		45								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1446.28	4745.00			Mattson		2.00	10.83	5.34	0.15	428				12.45		87		43							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1451.00	4760.50			Mattson		1.90	10.50	5.26	0.15	429				12.17		86		43								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1454.30	4771.33			Mattson		1.90	10.80	5.34	0.15	446				12.50		72		44								RE II	Potter et al. (1993)
N. Beaver River YT I-27	1485.90	4875.00			Mattson		3.00	16.89	11.36	0.14	421				18.46		93		62							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1489.30	4886.16			Mattson		2.77	16.93	11.81	0.14	420				18.40		90		63								RE II	Potter et al. (1993)
N. Beaver River YT I-27	1490.00	4888.45			Mattson		2.89	16.21	11.31	0.15	419				19.64		83		58								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1565.15	5135.00			Mattson		0.00	0.52	0.55	0.34	450				1.26		42		44							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1566.80	5140.42			Mattson		0.27	0.52	0.54	0.34	452				1.25		40		45								RE II	Potter et al. (1993)
N. Beaver River YT I-27	1569.00	5147.64			Mattson		0.28	0.50	0.56	0.36	452				1.23		41		46								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1825.75	5990.00			Mattson		1.00	1.16	0.79	0.34	457				2.22		52		36							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1825.90	5990.49			Mattson		0.58	1.15	3.66	0.34	457				2.27		53		33								RE II	Potter et al. (1993)
N. Beaver River YT I-27	1835.00	6020.34			Mattson		0.54	1.09	0.80	0.33	455				2.14		51		37								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1924.81	6315.00			Golata		0.00	0.47	0.71	0.35	484				1.59		30		45							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	1935.70	6350.72			Golata		0.25	0.47	0.60	0.35	486				1.58		29		45								RE II	Potter et al. (1993)

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
N. Beaver River YT I-27	1941.00	6368.11			Golata		0.23	0.50	0.72	0.32	482				1.47		34		49								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2024.40	6641.73			Prophet		0.19	0.38	0.71	0.34	493				1.40		22		30								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2025.40	6645.00			Prophet		0.00	0.38	1.12	0.34	494				1.40		27		82							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2030.00	6660.11			Prophet		0.18	0.42	1.79	0.30	492				1.35		31		133								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2176.50	7140.75			Prophet		0.19	0.18	0.34	0.54	503				1.06		19		29								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2177.80	7145.00			Prophet		0.00	0.18	0.34	0.53	503				1.06		16		32							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2179.00	7148.95			Prophet		0.17	0.14	0.35	0.55	502				1.04		13		34								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2295.00	7529.53			Prophet		0.47	0.36	0.33	0.57	387				1.56		23		21								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2298.19	7540.00			Prophet		0.50	0.33	0.37	0.61	393				1.51		22		25							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2298.80	7541.99			Prophet		0.50	0.33	0.41	0.60	395				1.50		22		25								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2396.00	7860.89			Prophet		0.48	1.45	1.65	0.25	426				3.08		47		54								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2396.30	7861.88			Prophet		0.43	1.49	2.15	0.26	427				3.25		47		64								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2398.78	7870.00			Prophet		0.50	1.51	2.14	0.26	427				3.23		47		66							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2616.71	8585.00			Prophet		1.00	3.20	3.07	0.16	429				5.14		63		60							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2617.40	8587.27			Prophet		0.59	3.13	3.07	0.16	428				5.15		67		63								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2621.00	8599.08			Prophet		0.57	3.07	3.00	0.16	430				5.37		57		56								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2687.50	8817.26			Prophet		0.66	2.72	3.17	0.20	425				6.20		43		50								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2688.00	8818.90			Prophet		0.70	2.75	3.23	0.20	425				6.39		43		51								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2688.34	8820.00			Prophet		1.00	2.71	3.17	0.20	425				6.26		44		51							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2743.60	9001.31			Prophet		0.50	1.68	1.45	0.23	438						63		55								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2749.00	9019.03			Prophet		0.46	1.59	1.37	0.22	438				2.49		64		55								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2780.00	9120.74			Prophet		0.54	0.12	0.42	0.82	393				1.84		7		23								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2780.50	9122.38			Prophet		0.60	0.17	0.45	0.79	420				1.82		9		23								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2782.82	9130.00			Prophet		1.00	0.17	0.45	0.79	414				1.82		10		25							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2860.55	9385.00			Prophet		0.00	0.47	1.55	0.47	422				1.95		25		80							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2862.50	9391.40			Prophet		0.41	0.47	1.55	0.47	423				1.95		51		35								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2865.00	9399.61			Prophet		0.39	0.45	1.61	0.46	423				1.90		24		85								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2944.37	9660.00			Banff - *shale*		1.00	0.25	0.33	0.69	387				1.34		19		24							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	2944.80	9661.42			Banff - *shale*		0.54	0.25	0.33	0.69	384				1.34		17		24								RE II	Potter et al. (1993)
N. Beaver River YT I-27	2947.00	9668.64			Banff - *shale*		0.50	0.22	0.32	0.69	375				1.31		17		24								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3146.00	10321.52			Banff - *shale*		0.56	1.04	1.41	0.36					3.25		52		35								RE II	Potter et al. (1993)
N. Beaver River YT I-27	3148.00	10328.08			Banff - *shale*		0.52	0.85	1.39	0.38	421				3.03		28		46								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3148.58	10330.00			Banff - *shale*		1.00	1.04	1.41	0.36	425				3.27		32		44							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3251.50	10667.65			Exshaw		0.63	0.52	0.86	0.54	465				3.32		16		25								RE II	Potter et al. (1993)
N. Beaver River YT I-27	3252.22	10670.00			Exshaw		1.00	0.52	0.87	0.55	436				3.32		16		26							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3255.00	10679.13			Exshaw		0.59	0.53	0.84	0.53	465				3.25		16		26								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3282.70	10770.00			Exshaw		1.00	0.23	0.47	0.85	390				6.05		4		8							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3288.00	10787.40			Exshaw		1.35	0.23	0.50	0.85	389				5.83		4		9								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3313.18	10870.00			Patry		1.00	0.30	0.28	0.79	381				3.73		8		8							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3315.60	10877.95			Patry		1.06	0.30	0.28	0.79	380				6.02		7		7								RE II	Potter et al. (1993)
N. Beaver River YT I-27	3316.00	10879.27			Patry		1.00	0.22	0.26	0.82	379				3.82		6		7								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3329.94	10925.00			Patry		1.50	0.61	0.70	0.71	418				4.13		15		17							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3335.10	10941.93			Patry		1.46	0.61	0.70	0.71	418				4.17		14		16								RE II	Potter et al. (1993)
N. Beaver River YT I-27	3337.00	10948.16			Patry		1.37	0.61	0.63	0.69	416				3.92		16		16								RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3614.93	11860.01			Muskwa	70.0	0.19	0.22	0.21	0.46	341	381	0.04	0.04	0.74	0.70	30	5	28	0.9	4.7	18.2	0.20	1252.00	0.50		RE 6	this study
N. Beaver River YT I-27	3617.98	11870.01			Muskwa	70.5	0.36	1.81	1.72	0.16	424	464	0.76	0.27	2.80	2.53	65	27	61	2.8	12.7	73.0	0.54	1252.00	1.99		RE 6	this study
N. Beaver River YT I-27	3624.07	11889.99			Muskwa	70.3	0.28	0.41	0.48	0.40	348	388	0.24	0.08	3.68	3.60	11	7	13	1.0	24.5	93.5	1.05	1252.00	2.55		RE 6	this study
N. Beaver River YT I-27	3630.17	11910.01			Muskwa	70.9	0.19	0.26	0.27	0.42	343	383	0.20	0.06	1.57	1.51	17	13	17	0.5	11.0	38.1	0.47	1252.00	1.04		RE 6	this study
N. Beaver River YT I-27	3636.26	11929.99			Otter Park	70.5	0.20	0.24	0.27	0.46	342	382	0.17	0.05	1.29	1.24	19	13	21	0.6	8.9	31.6	0.38	1252.00	0.86		RE 6	this study
N. Beaver River YT I-27	3645.41	11960.01			Otter Park	70.6	0.22	0.27	0.26	0.44	346	386	0.18	0.06	1.47	1.41	18	12	18	0.6	9.4	37.1	0.40	1252.00	1.01		RE 6	this study
N. Beaver River YT I-27	3651.50	11979.99			Otter Park	70.7	0.17	0.20	0.25	0.47	341	381	0.17	0.04	0.78	0.74	26	22	32	0.6	4.6	20.0	0.20	1252.00	0.54		RE 6	this study
N. Beaver River YT I-27	3654.55	11989.99			Otter Park	69.9	0.27	0.25	0.21	0.51	340	380	0.14	0.06	0.93	0.87	27	15	23	0.7	5.7	23.2	0.24	1252.00	0.63		RE 6	this study
N. Beaver River YT I-27	3669.79	12039.99			Otter Park	70.9	0.17	0.42	0.27	0.30	375	415	0.17	0.07	0.74	0.67	57	23	36	0.9	4.7	17.4	0.20	1252.00	0.47		RE 6	this study
N. Beaver River YT I-27	3672.84	12050.00			Otter Park	70.7	0.29	0.34	0.26	0.46	340	380	0.20	0.07	1.09	1.02	31	18	24	0.7	7.0	26.5	0.30	1252.00	0.72		RE 6	this study
N. Beaver River YT I-27	3678.94	12070.01			Otter Park	69.8	0.27	0.31	0.33	0.47	339	379	0.16	0.07	1.14	1.07	27	14	29	1.0	6.7	28.5	0.29	1252.00	0.78		RE 6	this study
N. Beaver River YT I-27	3685.03	12089.99			Evie	70.7	0.37	0.47	0.28	0.44	340	380	0.21	0.09	1.21	1.12	39	17	23	0.9	7.2	29.7	0.31	1252.00	0.81		RE 6	this study
N. Beaver River YT I-27	3688.08	12100.00			Evie	70.4	0.37	0.43	0.30	0.46	339	379	0.21	0.09	0.85	0.76	51	25	35	0.7	4.9	20.3	0.21	1252.00	0.55		RE 6	this study
N. Beaver River YT I-27	3697.22	12129.99			Evie	70.8	0.17	0.30	0.30	0.36	345	385	0.07	0.05	4.02	3.97	7	2	7	0.8	25.9	105.0	1.11	1252.00	2.86		RE 6	this study
N. Beaver River YT I-27	3700.27	12139.99			Evie	70.3	0.17	0.23	0.29	0.43	340	380	0.13	0.05	2.54	2.49	9	5	11	1.1	16.9	64.9	0.72	1252.00	1.77		RE 6	this study
N. Beaver River YT I-27	3703.32	12150.00			Evie	70.4	0.16	0.27	0.27	0.37	342	382	0.18	0.05	2.12	2.07	13	8	13	0.5	13.2	55.1	0.57	1252.00	1.50		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
N. Beaver River YT I-27	3706.37	12160.01			Evie	70.4	0.19	0.26	0.28	0.43	342	382	0.07	0.05	1.33	1.28	20	5	21	4.1	7.9	34.5	0.34	1252.00	0.94		RE 6	this study
N. Beaver River YT I-27	3709.42	12170.01			Nahanni	70.5	0.37	0.36	0.29	0.51	336	376	0.18	0.08	1.26	1.18	29	14	23	0.6	7.6	31.2	0.33	1252.00	0.85		RE 6	this study
N. Beaver River YT I-27	3814.57	12515.00			Nahanni		4.50	17.34	12.51	0.21	418				16.12		108		78							*	RE II	Obermajer et al. (2012)
N. Beaver River YT I-27	3816.80	12522.31			Nahanni		4.58	17.33	12.51	0.20	418				16.11		107		78								RE II	Potter et al. (1993)
N. Beaver River YT I-27	3819.00	12529.53			Nahanni		4.35	17.28	12.29	0.20	421				16.15		107		76								RE II	Obermajer et al. (2012)
Merrill YT L-60	1024.13	3360.00			Banff - *shale*	70.3	0.18	0.18	0.18	0.50	345	385	0.07	0.04	0.47	0.43	38	15	38	1.3	3.5	10.4	0.15	1250.00	0.28		RE 6	this study
Merrill YT L-60	1030.22	3380.00			Banff - *shale*	70.0	0.25	0.21	0.20	0.54	342	382	0.07	0.05	0.68	0.63	31	10	29	1.3	4.9	15.3	0.21	1250.00	0.42		RE 6	this study
Merrill YT L-60	1036.32	3400.00			Banff - *shale*	70.7	0.79	0.57	0.23	0.58	341	381	0.10	0.12	1.88	1.76	30	5	12	1.5	14.5	42.0	0.62	1250.00	1.14		RE 6	this study
Merrill YT L-60	1051.56	3450.00			Banff - *carbonate*	70.3	0.92	0.89	0.31	0.51	337	377	0.18	0.17	2.65	2.48	34	7	12	0.9	19.7	60.2	0.84	1250.00	1.64		RE 6	this study
Merrill YT L-60	1063.75	3490.00			Banff - *carbonate*	70.9	0.74	0.55	0.25	0.58	335	375	0.18	0.12	2.43	2.31	23	7	10	0.7	18.3	55.8	0.79	1250.00	1.52		RE 6	this study
Merrill YT L-60	1069.85	3510.00			Banff - *carbonate*	70.2	0.46	0.32	0.20	0.59	333	373	0.15	0.08	2.46	2.38	13	6	8	0.7	16.5	61.1	0.71	1250.00	1.67		RE 6	this study
Merrill YT L-60	1075.94	3530.00			Banff - *carbonate*	70.8	0.85	0.47	0.22	0.65	315	355	0.14	0.12	3.55	3.43	13	4	6	0.4	25.3	86.3	1.08	1250.00	2.35		RE 6	this study
Merrill YT L-60	1112.52	3650.00			Exshaw	70.0	1.14	0.58	0.22	0.66	307	347	0.08	0.15	3.52	3.37	16	2	6	0.5	22.6	88.1	0.97	1250.00	2.40		RE 6	this study
Merrill YT L-60	1118.62	3670.00			Exshaw	70.8	1.21	0.52	0.19	0.70	305	345	0.15	0.16	4.09	3.93	13	4	5	0.2	25.2	104.6	1.08	1250.00	2.85		RE 6	this study
Merrill YT L-60	1133.86	3720.00			Exshaw	70.5	0.86	0.77	0.20	0.53	338	378	0.09	0.15	2.23	2.08	35	4	9	0.7	16.5	50.1	0.71	1250.00	1.37		RE 6	this study
Merrill YT L-60	1136.90	3730.00			Patry	70.4	0.79	0.39	0.23	0.67	311	351	0.12	0.11	2.69	2.58	14	4	9	0.6	17.5	67.1	0.75	1250.00	1.83		RE 6	this study
Merrill YT L-60	1179.58	3870.00			Patry	70.3	2.19	1.65	0.22	0.57	390	430	0.11	0.33	6.16	5.83	27	2	4	0.5	53.3	130.0	2.28	1250.00	3.55		RE 6	this study
Merrill YT L-60	1182.62	3880.00			Patry	70.2	2.04	1.09	0.19	0.65	308	348	0.10	0.27	6.13	5.86	18	2	3	0.4	51.2	134.1	2.20	1250.00	3.66		RE 6	this study
Merrill YT L-60	1185.67	3890.00			Patry	70.2	1.57	0.84	0.19	0.65	318	358	0.09	0.21	5.14	4.93	16	2	4	0.3	38.8	119.9	1.66	1250.00	3.27		RE 6	this study
Merrill YT L-60	1191.77	3910.00			Fort Simpson - *upper*	70.6	1.40	1.34	0.21	0.51	361	401	0.06	0.24	3.52	3.28	38	2	6	0.5	26.9	78.1	1.15	1250.00	2.13		RE 6	this study
Merrill YT L-60	1200.91	3940.00			Fort Simpson - *upper*	70.4	1.25	1.17	0.23	0.52	362	402	0.10	0.22	2.00	1.78	58	5	12	1.1	12.9	45.3	0.55	1250.00	1.23		RE 6	this study
Merrill YT L-60	1344.17	4410.00			Fort Simpson - *middle*	70.7	0.30	0.37	0.19	0.45	341	381	0.07	0.07	0.81	0.74	46	9	23	0.3	5.0	19.4	0.21	1252.00	0.53		RE 6	this study
Merrill YT L-60	1365.50	4480.00			Fort Simpson - *middle*	70.5	0.51	0.49	0.19	0.51	338	378	0.08	0.09	1.24	1.15	40	6	15	0.6	8.1	29.2	0.35	1252.00	0.80		RE 6	this study
Merrill YT L-60	1386.84	4550.00			Muskwa	70.3	1.06	0.84	0.22	0.56	344	384	0.12	0.17	3.41	3.24	25	4	6	1.5	21.2	85.6	0.91	1252.00	2.33		RE 6	this study
Merrill YT L-60	1405.13	4610.00			Otter Park	70.7	1.16	0.97	0.20	0.54	342	382	0.07	0.19	3.28	3.09	30	2	6	0.5	22.6	77.6	0.97	1252.00	2.12		RE 6	this study
Merrill YT L-60	1417.32	4650.00			Otter Park	70.2	1.10	0.61	0.23	0.64	332	372	0.08	0.15	3.48	3.33	18	2	7	0.6	28.7	77.1	1.23	1252.00	2.10		RE 6	this study
Merrill YT L-60	1435.61	4710.00			Otter Park	70.5	1.35	1.50	0.29	0.47	339	379	0.20	0.26	2.88	2.62	52	7	10	1.2	21.7	62.1	0.93	1252.00	1.69		RE 6	this study
Merrill YT L-60	1450.85	4760.00			Otter Park	70.1	1.09	0.86	0.30	0.56	336	376	0.16	0.18	3.99	3.81	22	4	8	1.3	27.9	96.1	1.19	1252.00	2.62		RE 6	this study
Merrill YT L-60	1463.04	4800.00			Otter Park	70.5	1.09	0.63	0.22	0.63	323	363	0.13	0.16	4.39	4.23	14	3	5	0.9	31.9	105.0	1.37	1252.00	2.86		RE 6	this study
Merrill YT L-60	1475.23	4840.00			Evie	71.0	0.93	0.63	0.23	0.60	337	377	0.05	0.14	3.55	3.41	18	1	6	1.0	24.0	87.1	1.03	1252.00	2.38		RE 6	this study
Merrill YT L-60	1484.38	4870.00			Evie	70.5	1.16	1.27	0.29	0.48	347	387	0.19	0.22	4.28	4.06	30	4	7	1.6	27.8	105.2	1.19	1252.00	2.87		RE 6	this study
Merrill YT L-60	1514.86	4970.00			Evie	70.5	1.35	1.55	0.27	0.46	345	385	0.19	0.26	6.06	5.80	26	3	4	1.6	36.1	156.0	1.55	1252.00	4.25		RE 6	this study
Whitefish River	254.00	833.33			Banff - *shale*	50.9	0.00	0.01	0.65	0.36	463	502	0.22	0.03	2.66	2.63	0	8	24	0.0	14.0	74.4	0.60	1459.00	2.03		RE 6	this study
Whitefish River	252.00	826.77			Banff - *shale*	50.5	0.01	0.03	0.60	0.17	470	509	0.24	0.03	3.21	3.18	1	7	19	0.0	18.3	88.2	0.78	1459.00	2.40		RE 6	this study
Whitefish River	250.00	820.21			Banff - *shale*	50.4	0.00	0.00	0.48	0.59	463	502	0.17	0.02	2.91	2.89	0	6	16	0.0	17.1	79.1	0.73	1459.00	2.16		RE 6	this study
Whitefish River	248.00	813.65			Banff - *shale*	51.1	0.00	0.01	0.37	0.16	439	478	0.15	0.02	2.49	2.47	0	6	15	0.0	15.7	66.1	0.67	1459.00	1.80		RE 6	this study
Whitefish River	246.00	807.09			Banff - *shale*	50.6	0.00	0.00	0.37	0.46	429	468	0.13	0.02	2.44	2.42	0	5	15	0.0	15.7	64.1	0.67	1459.00	1.75		RE 6	this study
Whitefish River	244.00	800.52			Banff - *shale*	50.7	0.00	0.00	0.40	0.30	490	529	0.13	0.02	3.10	3.08	0	4	13	0.0	20.9	80.4	0.89	1459.00	2.19		RE 6	this study
Whitefish River	242.00	793.96			Banff - *shale*	50.4	0.00	0.01	0.45	0.24	461	500	0.15	0.02	3.42	3.40	0	4	13	0.0	20.5	92.5	0.88	1459.00	2.52		RE 6	this study
Whitefish River	240.00	787.40			Banff - *shale*	50.2	0.00	0.00	0.53	0.55	464	503	0.12	0.02	3.71	3.69	0	3	14	0.0	21.7	101.0	0.93	1459.00	2.76		RE 6	this study
Whitefish River	238.00	780.84			Banff - *shale*	50.3	0.00	0.01	0.70	0.16	463	502	0.12	0.03	3.31	3.28	0	4	21	0.0	17.1	93.7	0.73	1459.00	2.55		RE 6	this study
Whitefish River	236.00	774.28			Banff - *shale*	50.7	0.00	0.02	0.84	0.16	464	503	0.17	0.04	3.19	3.15	1	5	26	0.0	15.5	91.2	0.66	1459.00	2.49		RE 6	this study
Whitefish River	234.00	767.72			Banff - *shale*	50.9	0.00	0.00	0.85	0.17	474	513	0.14	0.04	3.25	3.21	0	4	26	0.0	17.3	90.7	0.74	1459.00	2.47		RE 6	this study
Whitefish River	232.00	761.15			Banff - *shale*	70.4	0.00	0.01	0.77	0.27	455	494	0.11	0.04	3.14	3.10	0	4	25	0.0	15.9	88.9	0.68	1459.00	2.42		RE 6	this study
Whitefish River	230.00	754.59			Banff - *shale*	50.5	0.00	0.00	1.07	0.56	464	502	0.16	0.04	5.48	5.44	0	3	20	0.0	27.2	156.4	1.17	1466.00	4.27		RE 6	this study
Whitefish River	228.00	748.03			Banff - *shale*	50.5	0.00	0.01	0.81	0.09	461	499	0.14	0.03	3.40	3.37	0	4	24	0.0	16.1	98.3	0.69	1466.00	2.68		RE 6	this study
Whitefish River	226.00	741.47			Banff - *shale*	50.9	0.00	0.00	0.69	0.78	466	504	0.11	0.03	3.67	3.64	0	3	19	0.0	17.7	105.6	0.76	1466.00	2.88		RE 6	this study
Whitefish River	224.00	734.91			Banff - *shale*	50.6	0.00	0.01	0.85	0.06	477	515	0.13	0.04	4.01	3.97	0	3	21	0.0	19.6	114.8	0.84	1466.00	3.13		RE 6	this study
Whitefish River	222.00	728.35			Banff - *shale*	50.1	0.00	0.01	0.85	0.29	492	530	0.16	0.04	5.19	5.15	0	3	16	0.0	28.3	144.5	1.21	1466.00	3.94		RE 6	this study
Whitefish River	220.00	721.78			Banff - *shale*	50.8	0.00	0.00	1.45	0.08	466	504	0.13	0.05	2.95	2.90	0	4	49	0.0	11.8	87.7	0.51	1466.00	2.39		RE 6	this study
Whitefish River	218.00	715.22			Banff - *carbonate*	51.0	0.00	0.00	0.91	0.33	493	531	0.11	0.04	3.26	3.22	0	3	28	0.0	16.7	91.9	0.72	1466.00	2.50		RE 6	this study
Whitefish River	216.00	708.66			Banff - *carbonate*	50.2	0.00	0.00	0.53	0.65	425	463	0.11	0.02	4.24	4.22	0	3	13	0.0	25.7	114.2	1.10	1466.00	3.12		RE 6	this study
Whitefish River	214.00	702.10			Banff - *carbonate*	50.5	0.00	0.01	0.35	0.40	438	476	0.09	0.01	3.33	3.32	0	3	11	0.0	21.4	88.0	0.92	1466.00	2.40		RE 6	this study
Whitefish River	212.00	695.54			Banff - *carbonate*	50.2	0.01	0.01	0.28	0.36	434	472	0.09	0.01	3.08	3.07	0	3	9	0.0	20.6	80.1	0.88	1466.00	2.19		RE 6	this study
Whitefish River	210.00	688.98			Banff - *carbonate*	51.1	0.01	0.00	0.45	0.60	325	363	0.14	0.02	2.80	2.78	0	5	16	0.0	16.0	76.5	0.69	1466.00	2.09		RE 6	this study
Whitefish River	208.00	682.41			Banff - *carbonate*	50.1	0.00	0.00	0.73	0.89	462	500	0.13	0.03	3.74	3.71	0	3	20	0.0	18.8	106.7	0.80	1466.00	2.91		RE 6	this study
Whitefish River	206.00	675.85			Banff - *carbonate*	50.3	0.00	0.01	0.42	0.24	368	406	0.11	0.02	3.44	3.42	0	3	12	0.0	20.7	92.7	0.89	1466.00	2.53		RE 6	this study
Whitefish River	204.00	669.29			Banff - *carbonate*	51.1	0.00	0.00	0.23	0.76	424	462	0.04	0.01	3.21	3.20	0	1	7	0.0	20.2	85.3	0.87	1466.00	2.33		RE 6	this study
Whitefish River	202.00	662.73			Banff - *carbonate*	50.7	0.00	0.00	0.31	0.00	-38	0	0.04	0.01	3.73	3.72	0	1	8	0.9	24.4	97.8	1.05	1466.00	2.67		RE 6	this study
Whitefish River	200.00	656.17			Banff - *carbonate*	51.0	0.00	0.00	0.23	1.00	432	470	0.03	0.01	3.69	3.68	0	1	6	0.0	24.5	96.3	1.05	1466.00	2.63		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Whitefish River	198.00	649.61			Exshaw	50.1	0.00	0.00	0.27	0.51	431	469	0.06	0.01	4.25	4.24	0	1	6	0.0	27.9	111.5	1.20	1466.00	3.04		RE 6	this study
Whitefish River	196.00	643.04			Exshaw	50.1	0.00	0.00	1.29	0.00	463	501	0.16	0.05	3.24	3.19	0	5	40	0.0	14.2	94.5	0.61	1474.00	2.58		RE 6	this study
Whitefish River	194.00	636.48			Exshaw	50.7	0.00	0.00	1.15	0.00	476	514	0.11	0.04	4.09	4.05	0	3	28	0.0	20.0	117.1	0.86	1474.00	3.19		RE 6	this study
Whitefish River	192.00	629.92			Exshaw	50.2	0.00	0.00	1.35	0.00	437	475	0.14	0.05	4.68	4.63	0	3	29	0.0	21.2	136.5	0.91	1474.00	3.72		RE 6	this study
Whitefish River	190.00	623.36			Exshaw	50.4	0.00	0.01	1.44	0.02	412	450	0.47	0.07	4.79	4.72	0	10	30	0.1	21.1	140.0	0.90	1474.00	3.82		RE 6	this study
Whitefish River	188.00	616.80			Exshaw	50.9	0.00	0.00	1.14	0.05	438	476	0.14	0.05	3.67	3.62	0	4	31	0.1	15.8	107.9	0.68	1474.00	2.94		RE 6	this study
Whitefish River	186.00	610.24			Exshaw	50.1	0.00	0.00	0.62	0.41	452	490	0.17	0.03	4.78	4.75	0	4	13	0.0	28.4	129.5	1.22	1474.00	3.53		RE 6	this study
Whitefish River	184.00	603.67			Exshaw	50.4	0.00	0.00	1.38	0.00	395	433	0.15	0.06	4.32	4.26	0	3	32	0.1	16.5	130.2	0.71	1474.00	3.55		RE 6	this study
Whitefish River	182.00	597.11			Exshaw	50.2	0.00	0.00	1.15	0.00	430	468	0.41	0.06	5.10	5.04	0	8	23	0.0	22.5	149.3	0.97	1474.00	4.07		RE 6	this study
Whitefish River	180.00	590.55			Exshaw	50.3	0.00	0.00	1.44	0.00	398	436	0.55	0.08	5.58	5.50	0	10	26	0.1	21.8	167.4	0.93	1474.00	4.57		RE 6	this study
Whitefish River	178.00	583.99			Exshaw	50.2	0.00	0.00	1.28	0.00	437	475	0.40	0.06	5.66	5.60	0	7	23	0.0	27.1	162.6	1.16	1474.00	4.44		RE 6	this study
Whitefish River	176.00	577.43			Exshaw	50.8	0.00	0.01	2.27	0.03	422	460	0.19	0.09	5.19	5.10	0	4	44	0.1	20.0	155.3	0.86	1474.00	4.24		RE 6	this study
Whitefish River	174.00	570.87			Exshaw	50.2	0.00	0.01	3.21	0.00	430	468	0.64	0.14	4.96	4.82	0	13	65	0.1	16.7	150.2	0.72	1474.00	4.10		RE 6	this study
Whitefish River	172.00	564.30			Exshaw	50.5	0.00	0.02	2.30	0.02	389	427	0.65	0.10	4.37	4.27	0	15	53	0.1	15.8	131.6	0.68	1474.00	3.59		RE 6	this study
Whitefish River	170.00	557.74			Exshaw	50.6	0.00	0.01	2.32	0.08	422	460	0.18	0.09	4.52	4.43	0	4	51	0.1	17.8	134.6	0.76	1474.00	3.67		RE 6	this study
Whitefish River	168.00	551.18			Exshaw	50.5	0.00	0.01	2.53	0.00	438	476	0.20	0.10	5.99	5.89	0	3	42	0.1	24.3	177.9	1.04	1474.00	4.85		RE 6	this study
Whitefish River	166.00	544.62			Exshaw	70.1	0.00	0.01	1.84	0.00	426	464	0.19	0.08	4.88	4.80	0	4	38	0.1	18.7	146.8	0.80	1474.00	4.00		RE 6	this study
Whitefish River	164.00	538.06			Exshaw	50.0	0.00	0.01	2.62	0.00	429	467	0.20	0.11	5.84	5.73	0	3	45	0.1	22.2	175.4	0.95	1474.00	4.78		RE 6	this study
Whitefish River	162.00	531.50			Exshaw	70.5	0.00	0.00	2.21	0.00	432	470	0.18	0.09	4.12	4.03	0	4	54	0.1	15.6	123.2	0.67	1474.00	3.36		RE 6	this study
Whitefish River	160.00	524.93			Exshaw	70.3	0.00	0.01	2.65	0.06	430	468	0.22	0.11	5.33	5.22	0	4	50	0.1	21.8	157.1	0.93	1474.00	4.29		RE 6	this study
Whitefish River	158.00	518.37			Patry	69.8	0.00	0.00	1.01	0.02	438	476	0.20	0.04	2.16	2.12	0	9	47	0.0	8.8	63.7	0.38	1474.00	1.74		RE 6	this study
Whitefish River	156.00	511.81			Patry	50.1	0.00	0.01	1.41	0.17	438	476	0.13	0.06	2.85	2.79	0	5	49	0.0	11.1	84.6	0.48	1474.00	2.31		RE 6	this study
Whitefish River	154.00	505.25			Patry	70.2	0.00	0.00	1.34	0.06	453	491	0.08	0.05	2.42	2.37	0	3	55	0.0	9.6	71.8	0.41	1474.00	1.96		RE 6	this study
Whitefish River	152.00	498.69			Patry	70.0	0.00	0.01	1.42	0.10	435	473	0.10	0.05	2.52	2.47	0	4	56	0.0	9.4	75.8	0.40	1474.00	2.07		RE 6	this study
Whitefish River	150.00	492.13			Patry	70.6	0.00	0.01	1.70	0.10	439	477	0.15	0.06	3.27	3.21	0	5	52	0.0	12.2	98.7	0.52	1474.00	2.69		RE 6	this study
Whitefish River	148.00	485.56			Patry	70.5	0.00	0.02	1.81	0.07	464	502	0.15	0.07	3.60	3.53	1	4	50	0.0	14.2	107.2	0.61	1474.00	2.92		RE 6	this study
Whitefish River	146.00	479.00			Patry	71.0	0.00	0.01	2.05	0.07	430	468	0.14	0.08	2.95	2.87	0	5	69	0.1	10.4	88.7	0.45	1474.00	2.42		RE 6	this study
Whitefish River	144.00	472.44			Patry	70.3	0.00	0.02	2.71	0.00	418	456	0.46	0.11	3.24	3.13	1	14	84	0.2	9.6	99.9	0.41	1474.00	2.72		RE 6	this study
Whitefish River	142.00	465.88			Patry	70.4	0.00	0.03	1.80	0.13	439	477	0.16	0.07	3.21	3.14	1	5	56	0.1	12.6	95.5	0.54	1474.00	2.60		RE 6	this study
Whitefish River	140.00	459.32			Patry	50.4	0.00	0.01	2.04	0.12	437	475	0.13	0.07	3.47	3.40	0	4	59	0.1	13.2	103.8	0.57	1474.00	2.83		RE 6	this study
Whitefish River	138.00	452.76			Patry	50.5	0.00	0.02	2.04	0.12	435	473	0.13	0.08	3.30	3.22	1	4	62	0.1	12.0	99.3	0.51	1474.00	2.71		RE 6	this study
Whitefish River	136.00	446.19			Patry	50.5	0.00	0.01	2.10	0.03	426	464	0.17	0.08	3.62	3.54	0	5	58	0.0	13.9	108.1	0.59	1474.00	2.95		RE 6	this study
Whitefish River	134.00	439.63			Patry	50.5	0.00	0.01	1.67	0.01	413	451	0.13	0.06	3.58	3.52	0	4	47	0.0	14.2	106.8	0.61	1474.00	2.91		RE 6	this study
Whitefish River	132.00	433.07			Patry	50.1	0.00	0.01	1.70	0.05	429	467	0.16	0.07	3.58	3.51	0	4	47	0.0	14.2	106.5	0.61	1474.00	2.90		RE 6	this study
Whitefish River	130.00	426.51			Patry	50.5	0.00	0.02	2.04	0.08	436	474	0.17	0.08	3.96	3.88	1	4	52	0.1	15.4	117.9	0.66	1474.00	3.22		RE 6	this study
Whitefish River	128.00	419.95			Patry	50.3	0.00	0.01	1.29	0.12	452	490	0.17	0.06	3.78	3.72	0	4	34	0.1	14.9	112.8	0.64	1474.00	3.08		RE 6	this study
Whitefish River	126.00	413.39			Patry	70.0	0.00	0.02	1.52	0.00	449	487	0.15	0.06	4.06	4.00	0	4	37	0.0	16.5	120.7	0.71	1447.00	3.29		RE 6	this study
Whitefish River	124.00	406.82			Fort Simpson - *undif.*	70.9	0.00	0.02	1.39	0.01	439	477	0.20	0.06	3.89	3.83	1	5	36	0.0	15.6	115.8	0.67	1447.00	3.16		RE 6	this study
Whitefish River	122.00	400.26			Fort Simpson - *undif.*	70.9	0.00	0.01	1.53	0.00	437	475	0.16	0.06	4.34	4.28	0	4	35	0.0	17.1	130.3	0.73	1447.00	3.55		RE 6	this study
Whitefish River	120.00	393.70			Fort Simpson - *undif.*	70.3	0.00	0.00	1.62	0.00	438	476	0.15	0.06	3.78	3.72	0	4	43	0.1	15.2	112.6	0.65	1447.00	3.07		RE 6	this study
Whitefish River	118.00	387.14			Fort Simpson - *undif.*	70.8	0.00	0.02	0.84	0.07	453	491	0.14	0.04	3.98	3.94	1	4	21	0.0	19.1	114.6	0.82	1447.00	3.12		RE 6	this study
Whitefish River	116.00	380.58			Fort Simpson - *undif.*	70.4	0.00	0.01	1.22	0.06	453	491	0.13	0.05	3.94	3.89	0	3	31	0.0	17.7	114.6	0.76	1447.00	3.13		RE 6	this study
Whitefish River	114.00	374.02			Fort Simpson - *undif.*	70.6	0.00	0.01	1.21	0.03	438	476	0.15	0.05	4.21	4.16	0	4	29	0.0	18.1	123.8	0.78	1447.00	3.38		RE 6	this study
Whitefish River	112.00	367.45			Fort Simpson - *undif.*	70.8	0.00	0.01	0.88	0.16	438	476	0.13	0.04	4.06	4.02	0	3	22	0.0	18.8	118.0	0.80	1447.00	3.22		RE 6	this study
Whitefish River	110.00	360.89			Fort Simpson - *undif.*	70.0	0.00	0.02	1.77	0.08	421	459	0.19	0.07	4.10	4.03	0	5	43	0.1	15.0	124.2	0.64	1447.00	3.39		RE 6	this study
Whitefish River	108.00	354.33			Fort Simpson - *undif.*	70.3	0.00	0.01	1.12	0.08	438	476	0.15	0.05	4.39	4.34	0	3	26	0.0	18.8	129.3	0.81	1447.00	3.53		RE 6	this study
Whitefish River	106.00	347.77			Fort Simpson - *undif.*	70.7	0.00	0.01	2.36	0.00	430	468	0.44	0.09	5.52	5.43	0	8	43	0.1	19.4	168.8	0.83	1447.00	4.60		RE 6	this study
Whitefish River	104.00	341.21			Fort Simpson - *undif.*	70.3	0.00	0.01	1.84	0.00	425	463	0.14	0.07	3.85	3.78	0	4	48	0.1	13.6	117.3	0.58	1447.00	3.20		RE 6	this study
Whitefish River	102.00	334.65			Fort Simpson - *undif.*	70.5	0.00	0.01	1.70	0.06	422	460	0.12	0.06	3.58	3.52	0	3	47	0.1	12.6	109.1	0.54	1447.00	2.98		RE 6	this study
Whitefish River	100.00	328.08			Fort Simpson - *undif.*	70.5	0.00	0.01	2.37	0.01	436	474	0.18	0.09	4.04	3.95	0	4	59	0.1	14.2	122.7	0.61	1447.00	3.34		RE 6	this study
Whitefish River	98.00	321.52			Fort Simpson - *undif.*	70.0	0.00	0.01	1.81	0.04	437	475	0.11	0.07	3.45	3.38	0	3	52	0.1	12.9	103.6	0.55	1447.00	2.83		RE 6	this study
Whitefish River	96.00	314.96			Fort Simpson - *undif.*	70.1	0.00	0.03	3.32	0.10	431	469	0.32	0.13	4.55	4.42	1	7	73	0.2	14.3	139.7	0.61	1447.00	3.81		RE 6	this study
Whitefish River	94.00	308.40			Fort Simpson - *undif.*	70.7	0.00	0.01	1.66	0.19	427	465	0.20	0.07	2.88	2.81	0	7	58	0.0	10.6	86.4	0.45	1447.00	2.36		RE 6	this study
Whitefish River	92.00	301.84			Fort Simpson - *undif.*	70.9	0.00	0.01	2.00	0.06	430	468	0.17	0.08	2.87	2.79	0	6	70	0.1	10.0	86.7	0.43	1447.00	2.36		RE 6	this study
Whitefish River	90.00	295.28			Fort Simpson - *undif.*	50.9	0.00	0.01	3.32	0.00	437	475	0.75	0.14	5.24	5.10	0	14	63	0.1	18.5	158.1	0.79	1447.00	4.31		RE 6	this study
Whitefish River	88.00	288.71			Fort Simpson - *undif.*	70.2	0.00	0.02	1.32	0.15	434	472	0.13	0.05	2.45	2.40	1	5	54	0.0	9.5	73.0	0.41	1447.00	1.99		RE 6	this study
Whitefish River	58.00	190.29			Fort Simpson - *undif.*	70.5	0.01	0.01	1.08	0.65	374	412	0.18	0.04	3.43	3.39	0	5	31	0.0	18.1	95.8	0.78	1447.00	2.61		RE 6	this study
Whitefish River	56.00	183.73			Fort Simpson - *undif.*	70.6	0.02	0.05	1.16	0.26	346	384	0.26	0.05	3.69	3.64	1	7	31	0.1	25.0	94.3	1.07	1447.00	2.57		RE 6	this study
Whitefish River	54.00	177.17			Fort Simpson - *undif.*	70.1	0.01	0.00	0.58	0.86	293	331	0.12	0.02	3.48	3.46	0	3	17	0.0	26.0	86.2	1.11	1447.00	2.35		RE 6	this study
Whitefish River	13.00	42.65			Fort Simpson - *undif.*	70.4	0.00	0.01	1.71	0.15	519	557	0.15	0.05	2.53	1.95	0	8	86	0.0	7.5	59.7	0.32	1447.00	1.63		RE 6	this study

APPENDIX B Rock-Eval and TOC data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Qty	S1	S2	S3	PI	Tmax	Tpeak	S3-CO	PC (%)	TOC (%)	RC (%)	HI	OI-CO	OI	MIN-C (%)	S4-CO	S4-CO_2	RC-CO (%)	KFID	RC-CO_2	*	Analysis	Source
Whitefish River	11.00	36.09			Fort Simpson - *undif.*	70.7	0.00	0.01	1.27	0.22	523	561	0.09	0.04	1.98	2.49	0	4	50	0.1	12.3	72.0	0.53	1447.00	1.96		RE 6	this study
Whitefish River	9.00	29.53			Fort Simpson - *undif.*	70.3	0.00	0.01	1.48	0.17	341	379	0.05	0.05	1.87	1.93	1	3	75	0.0	7.7	58.6	0.33	1447.00	1.60		RE 6	this study
Whitefish River	7.00	22.97			Fort Simpson - *undif.*	70.4	0.00	0.02	1.82	0.06	537	575	0.05	0.06	1.99	1.81	1	3	97	0.1	6.2	56.3	0.27	1447.00	1.54		RE 6	this study
Whitefish River	5.00	16.40			Fort Simpson - *undif.*	70.7	0.00	0.01	1.71	0.18	537	575	0.06	0.05	5.05	1.94	1	3	86	0.1	7.0	60.2	0.30	1447.00	1.64		RE 6	this study
Whitefish River	3.00	9.84			Fort Simpson - *undif.*	70.2	0.00	0.01	1.45	0.17	536	574	0.04	0.04	2.43	2.39	0	2	60	0.1	9.0	73.8	0.38	1447.00	2.01		RE 6	this study
Whitefish River	1.00	3.28			Fort Simpson - *undif.*	70.5	0.01	0.01	1.07	0.36	533	571	0.04	0.03	1.89	1.86	1	2	57	0.2	7.6	56.2	0.33	1447.00	1.53		RE 6	this study

Notes:

* indicates 2 analyses run for one sample, results averaged and midpoint of sample range used

Stratigraphy highlighted in blue is that assessed by the NEB (2016) for unconventional resources

APPENDIX C Vitrinite reflectance maturity data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Organic type	$\%Ro_{RAND}$	SD	N	Source
Beaver YT G-01	125.00	410.10			Toad-Grayling	2	1.10	0.06	13	Reyes et al. (2013)
Beaver YT G-01	134.00	439.63			Toad-Grayling	2	1.14	0.09	5	Reyes et al. (2013)
Beaver YT G-01	427.00	1400.90			Toad-Grayling	2	1.25	0.04	10	Reyes et al. (2013)
Beaver YT G-01	442.00	1450.11			Fantasque	2	0.64	0.07	27	Reyes et al. (2013)
Beaver YT G-01	594.00	1948.80			Fantasque	2	0.67	0.07	12	Reyes et al. (2013)
Beaver YT G-01	637.00	2089.87			Mattson	2	0.89	0.03	3	Reyes et al. (2013)
Beaver YT G-01	871.73	2860.00			Mattson	2	0.31			Morrow et al. (1993)
Beaver YT G-01	877.82	2880.00			Mattson	3	0.77			Morrow & Potter (1998)
Beaver YT G-01	899.00	2949.44			Mattson	2	0.90	0.10	4	Reyes et al. (2013)
Beaver YT G-01	981.46	3220.00			Mattson	2	0.47			Morrow et al. (1993)
Beaver YT G-01	990.60	3250.00			Mattson	3	0.81			Morrow & Potter (1998)
Beaver YT G-01	1057.66	3470.00			Mattson	2	0.55			Morrow et al. (1993)
Beaver YT G-01	1106.00	3628.56			Mattson	2	0.86	0.08	11	Reyes et al. (2013)
Beaver YT G-01	1127.76	3700.00			Mattson	3	0.84			Morrow & Potter (1998)
Beaver YT G-01	1260.35	4135.00			Mattson	3	0.92			Morrow & Potter (1998)
Beaver YT G-01	1261.87	4140.00			Mattson	2	0.58			Morrow et al. (1993)
Beaver YT G-01	1341.12	4400.00			Mattson	2	0.70			Morrow et al. (1993)
Beaver YT G-01	1514.86	4970.00			Mattson	2	0.82			Morrow et al. (1993)
Beaver YT G-01	1524.00	4999.94			Mattson	2	1.04	0.09	14	Reyes et al. (2013)
Beaver YT G-01	1682.50	5520.00			Mattson	3	1.14			Morrow & Potter (1998)
Beaver YT G-01	1753.00	5751.24			Mattson	2	1.13	0.06	15	Reyes et al. (2013)
Beaver YT G-01	1780.03	5840.00			Mattson	2	0.76			Morrow et al. (1993)
Beaver YT G-01	1865.38	6120.00			Mattson	3	1.27			Morrow & Potter (1998)
Beaver YT G-01	1865.38	6120.00			Mattson	2	0.80			Morrow et al. (1993)
Beaver YT G-01	1993.39	6540.00			Mattson	3	1.31			Morrow & Potter (1998)
Beaver YT G-01	1999.49	6560.00			Mattson	2	1.27			Morrow et al. (1993)
Beaver YT G-01	2001.01	6565.00			Mattson	3	1.31			Morrow & Potter (1998)
Beaver YT G-01	2057.00	6748.61			Golata	2	1.51	0.07	14	Reyes et al. (2013)
Beaver YT G-01	2210.00	7250.57			Prophet	2	1.52	0.07	4	Reyes et al. (2013)
Beaver YT G-01	2279.90	7480.00			Prophet	3	1.34			Morrow & Potter (1998)
Beaver YT G-01	2515.00	8251.21			Prophet	2	1.93	0.06	17	Reyes et al. (2013)
Beaver YT G-01	2671.57	8765.00			Prophet	2	1.85			Morrow et al. (1993)
Beaver YT G-01	2671.88	8766.00			Prophet	3	1.36			Morrow & Potter (1998)
Beaver YT G-01	2807.21	9210.00			Prophet	3	1.35			Morrow & Potter (1998)
Beaver YT G-01	2810.26	9220.00			Prophet	2	2.00			Morrow et al. (1993)
Beaver YT G-01	2819.00	9248.58			Prophet	2	2.14	0.09	21	Reyes et al. (2013)
Beaver YT G-01	2892.55	9490.00			Prophet	2	2.15			Morrow et al. (1993)
Beaver YT G-01	3011.42	9880.00			Prophet	3	1.46			Morrow & Potter (1998)
Beaver YT G-01	3087.32	10129.00			Prophet	3	1.49			Morrow & Potter (1998)

APPENDIX C Vitrinite reflectance maturity data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Organic type	$\%Ro_{RAND}$	SD	N	Source
Beaver YT G-01	3102.00	10177.04			Prophet	2	2.31	0.10	29	Reyes et al. (2013)
Beaver YT G-01	3103.78	10183.00			Prophet	3	1.56			Morrow & Potter (1998)
Beaver YT G-01	3104.08	10184.00			Prophet	2	2.41			Morrow et al. (1993)
Beaver YT G-01	3107.00	10193.45			Prophet	2	2.41	0.03	9	Reyes et al. (2013)
Beaver YT G-01	3113.00	10213.13			Prophet	2	2.46	0.09	14	Reyes et al. (2013)
Beaver YT G-01	3124.00	10249.22			Prophet	2	2.24	0.07	11	Reyes et al. (2013)
Beaver YT G-01	3200.00	10498.56			Prophet	2	2.40	0.11	28	Reyes et al. (2013)
Beaver YT G-01	3221.74	10570.00			Banff - *shale*	2	2.00			Morrow et al. (1993)
Beaver YT G-01	3223.26	10575.00			Banff - *shale*	3	1.65			Morrow & Potter (1998)
Beaver YT G-01	3311.65	10865.00			Banff - *shale*	3	1.89			Morrow & Potter (1998)
Beaver YT G-01	3544.82	11630.00			Exshaw	2	3.50			Morrow et al. (1993)
Beaver YT G-01	3546.35	11635.00			Exshaw	3	2.09			Morrow & Potter (1998)
Beaver YT G-01	3551.00	11650.12			Exshaw	2	2.84	0.10	10	Reyes et al. (2013)
Beaver YT G-01	3569.21	11710.00			Exshaw	2	2.99	0.09	7	this study
Beaver YT G-01	3662.17	12015.00			Patry	3	2.16			Morrow & Potter (1998)
Beaver YT G-01	3663.70	12020.00			Patry	2	3.91			Morrow et al. (1993)
Beaver YT G-01	3709.42	12170.00			Patry	2	3.01	0.12	9	this study
Beaver YT G-01	3738.37	12265.00			Fort Simpson - *upper*	3	2.19			Morrow & Potter (1998)
Beaver YT G-01	3739.90	12270.00			Fort Simpson - *upper*	2	3.70			Morrow et al. (1993)
Beaver YT G-01	3860.29	12665.00			Fort Simpson - *lower*	3	2.50			Morrow & Potter (1998)
Beaver YT G-01	3861.82	12670.00			Fort Simpson - *lower*	2	4.30			Morrow et al. (1993)
Beaver YT G-01	3936.49	12915.00			Fort Simpson - *lower*	3	2.56			Morrow & Potter (1998)
Beaver YT G-01	3953.26	12970.00			Muskwa	2	4.60			Morrow et al. (1993)
Beaver YT G-01	3954.78	12975.00			Muskwa	3	2.69			Morrow & Potter (1998)
Beaver YT G-01	4018.79	13185.00			Otter Park	3	2.52			Morrow & Potter (1998)
Beaver YT G-01	4020.31	13190.00			Otter Park	2	4.20			Morrow et al. (1993)
Beaver YT G-01	4073.35	13364.00			Evie	2	4.18			Morrow et al. (1993)
Beaver YT G-01	4109.00	13480.81			Evie	3	3.10	0.11	16	Reyes et al. (2013)
Beaver YT G-01	4129.74	13549.00			Nahanni	3	2.75			Morrow & Potter (1998)
Beaver YT G-01	4396.00	14422.40			Nahanni	21	3.00	0.13	39	Reyes et al. (2013)
Beavercrow YT B-16	1505.71	4940.00			Patry	2	2.65	0.12	11	this study
Beavercrow YT K-02	1018.13	3340.00			Exshaw	2	2.88	0.16	16	this study
Beavercrow YT K-02	1106.42	3630.00			Patry	2	2.72	0.07	7	this study
Beavercrow YT K-02	1152.14	3780.00			Fort Simpson - *upper*	2	2.99	0.13	9	this study
Beavercrow YT K-02	1277.11	4190.00			Muskwa	21	3.58	0.15	13	this study
Beavercrow YT K-02	1402.08	4600.00			Evie	21	3.54	0.14	4	this study
Kotaneelee YT I-48	3213.00	10541.34	3207.00	10521.65	Exshaw	2	2.78	0.08	2	this study
Kotaneelee YT I-48	3273.00	10738.19	3267.00	10718.50	Patry	2	2.90	0.12	10	this study
Kotaneelee YT I-48	3324.00	10905.51	3318.00	10885.83	Patry	2	2.84	0.05	6	this study

APPENDIX C Vitrinite reflectance maturity data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Organic type	$\%Ro_{RAND}$	SD	N	Source
Kotaneelee YT I-48	3549.00	11643.70	3541.00	11617.45	Fort Simpson - *lower*	2	3.18	0.11	6	this study
Kotaneelee YT I-48	3642.00	11948.82	3634.00	11922.57	Evie	21	3.37	0.17	17	this study
Merrill YT L-60	1136.90	3730.00			Patry	21	3.59	0.20	19	this study
N. Beaver River YT I-27	45.72	150.00			Quaternary	2	0.53	0.06	42	this study
N. Beaver River YT I-27	198.12	650.00			Garbutt	2	0.56	0.07	8	this study
N. Beaver River YT I-27	350.52	1150.00			Garbutt	2	0.60	0.08	20	this study
N. Beaver River YT I-27	502.92	1650.00			Toad-Grayling	2?	1.06	0.03	5	this study
N. Beaver River YT I-27	658.37	2160.00			Toad-Grayling	3	0.62	0.02	5	this study
N. Beaver River YT I-27	810.77	2660.00			Fantasque	2	0.98	0.06	4	this study
N. Beaver River YT I-27	957.07	3140.00			Mattson	2	0.94	0.01	2	this study
N. Beaver River YT I-27	1082.00	3549.87			Mattson	3	0.96			Potter et al. (1993)
N. Beaver River YT I-27	1112.52	3650.00			Mattson	2	1.04	0.06	7	this study
N. Beaver River YT I-27	1264.92	4150.00			Mattson	2	1.18	0.06	23	this study
N. Beaver River YT I-27	1338.10	4390.09			Mattson	3	1.20			Potter et al. (1993)
N. Beaver River YT I-27	1385.70	4546.26			Mattson	3	1.62			Potter et al. (1993)
N. Beaver River YT I-27	1414.27	4640.00			Mattson	2	1.15	0.08	12	this study
N. Beaver River YT I-27	1489.30	4886.15			Mattson	3	1.27			Potter et al. (1993)
N. Beaver River YT I-27	1566.80	5140.42			Mattson	3	1.33			Potter et al. (1993)
N. Beaver River YT I-27	1569.72	5150.00			Mattson	2	1.20	0.06	19	this study
N. Beaver River YT I-27	1722.12	5650.00			Mattson	2	1.14	0.05	10	this study
N. Beaver River YT I-27	1825.90	5990.49			Mattson	3	1.39			Potter et al. (1993)
N. Beaver River YT I-27	1871.47	6140.00			Golata	2	1.18	0.07	8	this study
N. Beaver River YT I-27	1935.70	6350.72			Golata	3	1.48			Potter et al. (1993)
N. Beaver River YT I-27	2026.92	6650.00			Prophet	2	1.53	0.08	16	this study
N. Beaver River YT I-27	2176.50	7140.75			Prophet	3	1.56			Potter et al. (1993)
N. Beaver River YT I-27	2179.32	7150.00			Prophet	2	1.55	0.10	7	this study
N. Beaver River YT I-27	2298.80	7541.99			Prophet	3	1.64			Potter et al. (1993)
N. Beaver River YT I-27	2331.72	7650.00			Prophet	2	1.70	0.04	6	this study
N. Beaver River YT I-27	2396.30	7861.88			Prophet	3	1.70			Potter et al. (1993)
N. Beaver River YT I-27	2484.12	8150.00			Prophet	2	1.73	0.10	12	this study
N. Beaver River YT I-27	2617.40	8587.27			Prophet	3	1.70			Potter et al. (1993)
N. Beaver River YT I-27	2636.52	8650.00			Prophet	2	1.76	0.10	5	this study
N. Beaver River YT I-27	2788.92	9150.00			Prophet	2	1.94	0.04	5	this study
N. Beaver River YT I-27	2862.50	9391.40			Prophet	3	2.07			Potter et al. (1993)
N. Beaver River YT I-27	2941.32	9650.00			Banff - *shale*	2	2.04	0.08	6	this study
N. Beaver River YT I-27	2944.80	9661.42			Banff - *shale*	3	2.07			Potter et al. (1993)
N. Beaver River YT I-27	3093.72	10150.00			Banff - *shale*	2	2.36	0.11	9	this study
N. Beaver River YT I-27	3146.00	10321.52			Banff - *shale*	3	2.25			Potter et al. (1993)
N. Beaver River YT I-27	3246.12	10650.00			Exshaw	2	2.40	0.07	3	this study

APPENDIX C Vitrinite reflectance maturity data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Organic type	$\%Ro_{RAND}$	SD	N	Source
N. Beaver River YT I-27	3315.60	10877.95			Patry	3	2.47			Potter et al. (1993)
N. Beaver River YT I-27	3335.10	10941.93			Patry	3	2.56			Potter et al. (1993)
N. Beaver River YT I-27	3401.57	11160.00			Fort Simpson - *upper*	2	2.56	0.12	10	this study
N. Beaver River YT I-27	3553.97	11660.00			Fort Simpson - *lower*	2	2.59	0.01	3	this study
N. Beaver River YT I-27	3700.27	12140.00			Evie	2	3.01	0.04	6	this study
N. Beaver River YT I-27	3816.80	12522.31			Nahanni	3	2.69			Potter et al. (1993)
Whitefish River	254.00	833.33			Banff - *shale*	2	2.71	0.20	12	this study
Whitefish River	1.00	3.28			Fort Simpson - *undif.*	21	2.85	0.12	4	this study

Notes:
Only vitrinite or primary equivalent values presented
2 = vitrinite
3 = bitumen (vitrinite equivalent calculated using Jacob (1989)
21 = pyrobitumen (vitrinite equivalent calculated using Jacob (1989)
Stratigraphy highlighted in blue is that assessed by the NEB (2016) for unconventional resources

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	TiO2 (%)	P2O5 (%)	MnO (%)	Cr2O3 (%)	Ni (ppm)	Sc (ppm)	LOI (%)	Sum (%)	Ba (ppm)
						0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1
Beaver YT G-01	3529.58	11580.0			Banff - *carbonate*	58.99	15.24	5.79	1.87	3.59	0.49	2.21	0.62	1.12	0.04	0.016	74	15	9.4	99.34	4156
Beaver YT G-01	3535.68	11600.0			Exshaw	62.29	15.08	4.74	1.66	2.41	0.37	2.22	0.62	0.92	0.03	0.017	75	14	9.0	99.34	4187
Beaver YT G-01	3544.82	11630.0			Exshaw	63.59	14.23	4.55	1.45	1.88	0.37	2.17	0.58	0.60	0.03	0.014	98	14	9.7	99.21	4056
Beaver YT G-01	3550.92	11650.0			Exshaw	61.58	15.15	5.23	1.65	2.30	0.39	2.24	0.62	0.71	0.03	0.014	92	15	9.3	99.27	4216
Beaver YT G-01	3557.02	11670.0			Exshaw	60.81	16.68	5.36	1.60	1.76	0.50	2.52	0.70	0.25	0.03	0.015	75	16	9.0	99.24	4827
Beaver YT G-01	3563.11	11690.0			Exshaw	64.02	15.06	4.68	1.43	1.48	0.42	2.33	0.62	0.25	0.03	0.014	83	14	8.9	99.25	4379
Beaver YT G-01	3569.21	11710.0			Exshaw	68.12	12.98	3.80	1.23	1.14	0.33	1.96	0.52	0.18	0.02	0.011	83	12	9.0	99.31	3865
Beaver YT G-01	3575.30	11730.0			Exshaw	68.90	12.94	3.93	1.12	0.82	0.33	1.96	0.52	0.15	0.02	0.011	81	12	8.6	99.35	3828
Beaver YT G-01	3581.40	11750.0			Exshaw	68.81	12.31	3.80	1.31	1.26	0.33	1.89	0.49	0.14	0.02	0.011	86	11	9.0	99.35	3700
Beaver YT G-01	3587.50	11770.0			Exshaw	67.55	12.24	3.88	1.44	1.74	0.31	1.89	0.49	0.27	0.02	0.011	89	12	9.5	99.32	3524
Beaver YT G-01	3593.59	11790.0			Exshaw	69.53	11.89	3.78	1.22	1.30	0.33	1.83	0.47	0.13	0.02	0.011	91	11	8.9	99.39	3518
Beaver YT G-01	3599.69	11810.0			Exshaw	72.31	10.33	3.25	1.02	0.96	0.28	1.65	0.41	0.16	0.02	0.009	102	10	9.0	99.43	3275
Beaver YT G-01	3605.78	11830.0			Exshaw	73.37	9.52	3.06	0.96	0.94	0.26	1.49	0.38	0.13	0.02	0.009	110	9	9.3	99.48	3024
Beaver YT G-01	3611.88	11850.0			Exshaw	74.25	8.97	2.88	0.80	0.99	0.26	1.41	0.35	0.23	0.02	0.008	117	9	9.3	99.49	3053
Beaver YT G-01	3617.98	11870.0			Exshaw	69.91	11.03	4.00	1.28	1.39	0.31	1.66	0.44	0.20	0.03	0.010	103	11	9.2	99.47	3277
Beaver YT G-01	3621.02	11880.0			Exshaw	71.11	10.57	3.91	1.19	1.30	0.29	1.57	0.43	0.25	0.02	0.009	107	10	8.8	99.50	3011
Beaver YT G-01	3624.07	11890.0			Exshaw	71.88	10.18	3.98	1.37	1.48	0.28	1.47	0.42	0.27	0.03	0.009	93	10	8.1	99.49	2917
Beaver YT G-01	3627.12	11900.0			Exshaw	69.59	11.19	4.07	1.25	1.60	0.32	1.63	0.45	0.37	0.03	0.010	100	11	8.9	99.46	3321
Beaver YT G-01	3630.17	11910.0			Exshaw	71.61	8.69	3.48	1.47	1.85	0.24	1.31	0.36	0.18	0.03	0.009	117	9	10.3	99.52	2756
Beaver YT G-01	3633.22	11920.0			Exshaw	70.08	8.92	3.43	1.72	2.33	0.25	1.34	0.37	0.24	0.03	0.010	108	9	10.8	99.51	2897
Beaver YT G-01	3636.26	11930.0			Exshaw	74.11	8.33	3.01	1.28	1.63	0.22	1.25	0.33	0.15	0.02	0.008	72	8	9.2	99.58	2652
Beaver YT G-01	3642.36	11950.0			Exshaw	71.96	8.83	3.30	1.27	2.33	0.21	1.31	0.35	0.18	0.02	0.008	74	8	9.8	99.57	2844
Beaver YT G-01	3645.41	11960.0			Patry	77.55	5.89	2.32	0.66	2.10	0.12	0.94	0.24	0.18	0.01	0.006	74	6	9.7	99.69	1980
Beaver YT G-01	3648.46	11970.0			Patry	75.50	6.23	2.70	1.11	2.24	0.13	1.01	0.26	0.14	0.01	0.006	89	6	10.3	99.66	2079
Beaver YT G-01	3651.50	11980.0			Patry	74.99	6.00	2.62	1.33	2.80	0.12	0.97	0.25	0.14	0.02	0.006	86	6	10.4	99.67	2044
Beaver YT G-01	3654.55	11990.0			Patry	73.65	5.70	2.72	1.57	3.41	0.13	0.95	0.25	0.14	0.02	0.006	95	6	11.1	99.67	1913
Beaver YT G-01	3657.60	12000.0			Patry	76.37	5.29	2.33	1.08	3.04	0.12	0.87	0.23	0.13	0.01	0.004	91	5	10.2	99.69	1882
Beaver YT G-01	3660.65	12010.0			Patry	77.48	5.00	2.35	0.83	2.87	0.12	0.84	0.22	0.13	0.01	0.006	95	5	9.8	99.72	1723
Beaver YT G-01	3663.70	12020.0			Patry	77.85	5.15	2.25	0.75	2.70	0.12	0.87	0.23	0.13	0.01	0.006	91	5	9.7	99.74	1576
Beaver YT G-01	3666.74	12030.0			Patry	75.63	5.34	2.41	1.31	3.33	0.11	0.93	0.25	0.11	0.02	0.006	88	5	10.2	99.70	1791
Beaver YT G-01	3669.79	12040.0			Patry	76.33	5.46	2.47	0.86	2.90	0.12	0.94	0.26	0.12	0.01	0.006	83	5	10.2	99.69	1784
Beaver YT G-01	3672.84	12050.0			Patry	72.91	6.75	2.76	1.26	3.64	0.17	1.15	0.33	0.20	0.02	0.007	84	7	10.5	99.69	1917
Beaver YT G-01	3675.89	12060.0			Patry	74.76	6.59	2.64	0.88	2.90	0.16	1.16	0.32	0.14	0.02	0.007	86	7	10.1	99.67	1909
Beaver YT G-01	3678.94	12070.0			Patry	74.24	6.64	2.73	0.71	3.01	0.16	1.17	0.33	0.13	0.01	0.006	72	7	10.6	99.70	1958
Beaver YT G-01	3681.98	12080.0			Patry	74.43	7.51	3.06	0.78	2.37	0.19	1.28	0.36	0.13	0.02	0.007	77	8	9.5	99.61	2257
Beaver YT G-01	3685.03	12090.0			Patry	73.25	8.10	3.29	1.03	2.50	0.20	1.35	0.40	0.11	0.02	0.008	72	8	9.4	99.63	2393
Beaver YT G-01	3688.08	12100.0			Patry	75.01	7.79	2.82	0.87	2.41	0.17	1.36	0.40	0.16	0.02	0.007	69	8	8.6	99.66	2261
Beaver YT G-01	3691.13	12110.0			Patry	73.86	8.18	2.86	1.09	2.29	0.18	1.46	0.42	0.16	0.02	0.008	77	9	9.1	99.64	2410
Beaver YT G-01	3694.18	12120.0			Patry	75.49	8.42	2.83	0.91	1.22	0.17	1.54	0.43	0.14	0.02	0.009	67	9	8.5	99.65	2323
Beaver YT G-01	3697.22	12130.0			Patry	68.18	8.47	3.18	2.65	3.99	0.16	1.52	0.41	0.13	0.04	0.007	69	9	10.9	99.59	2611
Beaver YT G-01	3700.27	12140.0			Patry	72.18	8.37	3.05	1.79	2.63	0.15	1.53	0.41	0.19	0.03	0.007	60	9	9.3	99.62	2500
Beaver YT G-01	3703.32	12150.0			Patry	74.53	8.45	2.90	1.05	1.79	0.19	1.39	0.38	0.16	0.02	0.007	73	9	8.7	99.60	2573
Beaver YT G-01	3706.37	12160.0			Patry	71.79	10.22	3.73	1.55	1.71	0.21	1.63	0.46	0.12	0.03	0.009	62	10	8.1	99.57	2786
Beaver YT G-01	3709.42	12170.0			Patry	74.26	9.98	3.33	1.18	1.08	0.20	1.60	0.43	0.12	0.02	0.009	62	10	7.4	99.61	2667
Beaver YT G-01	3712.46	12180.0			Fort Simpson - *upper*	73.38	8.83	3.40	1.50	1.80	0.16	1.54	0.36	0.11	0.02	0.008	61	8	8.5	99.60	2591
Beaver YT G-01	3715.51	12190.0			Fort Simpson - *upper*	64.12	11.93	4.21	2.68	3.41	0.22	2.12	0.50	0.15	0.03	0.010	69	12	10.1	99.50	3264
Beaver YT G-01	3718.56	12200.0			Fort Simpson - *upper*	65.03	13.59	4.62	1.96	2.04	0.24	2.42	0.56	0.13	0.03	0.012	70	13	8.8	99.48	3438
Beaver YT G-01	3934.97	12910.0			Fort Simpson - *lower*	65.05	15.40	4.86	1.58	0.85	0.19	2.99	0.65	0.17	0.03	0.014	83	16	7.6	99.42	3483
Beaver YT G-01	3941.06	12930.0			Fort Simpson - *lower*	64.39	13.97	4.35	1.91	2.10	0.18	2.82	0.60	0.17	0.04	0.013	84	14	8.9	99.41	3402
Beaver YT G-01	3944.11	12940.0			Muskwa	57.90	16.94	4.99	2.36	2.95	0.21	3.46	0.72	0.22	0.05	0.015	67	18	9.5	99.29	5029
Beaver YT G-01	3947.16	12950.0			Muskwa	55.26	16.39	5.25	2.89	4.04	0.21	3.35	0.69	0.17	0.06	0.014	63	17	10.9	99.24	5438
Beaver YT G-01	3953.26	12970.0			Muskwa	67.78	11.18	3.63	1.85	2.19	0.12	2.33	0.46	0.12	0.03	0.010	125	11	9.7	99.43	3335
Beaver YT G-01	3962.40	13000.0			Muskwa	69.28	10.22	3.64	1.75	1.87	0.14	2.08	0.42	0.08	0.03	0.009	116	10	10.0	99.54	2690
Beaver YT G-01	3968.50	13020.0			Muskwa	64.14	15.57	4.98	1.65	1.22	0.28	2.94	0.67	0.25	0.03	0.014	78	16	7.7	99.44	3499
Beaver YT G-01	3977.64	13050.0			Muskwa	74.32	9.20	3.33	0.98	0.88	0.12	1.89	0.38	0.07	0.02	0.009	91	9	8.5	99.65	2221
Beaver YT G-01	3980.69	13060.0			Muskwa	70.35	10.01	4.30	1.46	1.54	0.13	2.06	0.42	0.07	0.02	0.009	82	10	9.2	99.57	2604

APPENDIX D Lithogeochemical data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	TiO2 (%)	P2O5 (%)	MnO (%)	Cr2O3 (%)	Ni (ppm)	Sc (ppm)	LOI (%)	Sum (%)	Ba (ppm)
						0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1
Beaver YT G-01	3983.74	13070.0			Otter Park	72.54	9.71	3.51	1.34	1.39	0.13	2.02	0.42	0.07	0.02	0.008	75	10	8.5	99.63	2319
Beaver YT G-01	3995.93	13110.0			Otter Park	70.95	9.23	3.54	1.69	2.31	0.11	2.01	0.39	0.07	0.03	0.008	70	9	9.3	99.67	2049
Beaver YT G-01	4008.12	13150.0			Otter Park	69.80	10.27	3.70	1.48	1.86	0.12	2.33	0.43	0.07	0.02	0.009	70	10	9.6	99.69	1906
Beaver YT G-01	4020.31	13190.0			Otter Park	66.71	11.70	3.81	1.66	2.06	0.15	2.67	0.48	0.08	0.02	0.010	86	12	10.3	99.67	1892
Beaver YT G-01	4023.36	13200.0			Otter Park	68.46	11.54	3.62	1.46	1.72	0.15	2.67	0.47	0.09	0.02	0.010	87	11	9.5	99.68	1875
Beaver YT G-01	4029.46	13220.0			Otter Park	65.85	12.38	3.80	1.85	2.51	0.15	2.83	0.49	0.08	0.03	0.010	75	12	9.7	99.68	1907
Beaver YT G-01	4038.60	13250.0			Otter Park	70.39	9.27	3.27	1.23	2.23	0.11	2.16	0.38	0.08	0.02	0.009	108	9	10.6	99.72	1527
Beaver YT G-01	4047.74	13280.0			Otter Park	72.84	7.36	3.20	1.28	3.23	0.10	1.66	0.32	0.09	0.02	0.008	112	7	9.6	99.71	1367
Beaver YT G-01	4050.79	13290.0			Otter Park	72.42	7.17	3.49	1.26	3.30	0.09	1.59	0.32	0.08	0.02	0.007	110	7	9.9	99.69	1467
Beaver YT G-01	4053.84	13300.0			Evie	70.25	10.01	3.69	1.39	2.41	0.14	2.04	0.43	0.10	0.02	0.011	107	10	9.1	99.63	2003
Beaver YT G-01	4059.94	13320.0			Evie	66.51	10.01	3.85	2.39	3.86	0.13	2.05	0.43	0.11	0.03	0.010	99	10	10.2	99.62	2013
Beaver YT G-01	4069.08	13350.0			Evie	58.46	8.10	3.24	1.96	11.36	0.10	1.85	0.34	0.11	0.04	0.009	103	8	14.1	99.68	1468
Beaver YT G-01	4084.32	13400.0			Evie	67.51	7.62	2.99	2.12	6.15	0.10	1.77	0.32	0.08	0.03	0.010	117	8	11.0	99.70	1257
Beaver YT G-01	4093.46	13430.0			Evie	61.21	6.67	2.99	2.83	9.27	0.08	1.57	0.30	0.12	0.03	0.010	162	7	14.5	99.59	1109
Beaver YT G-01	4102.61	13460.0			Evie	70.36	6.98	2.98	1.69	4.46	0.10	1.59	0.32	0.16	0.02	0.011	193	7	10.9	99.58	1558
Beaver YT G-01	4105.66	13470.0			Evie	75.28	5.97	2.61	1.29	2.92	0.08	1.41	0.27	0.12	0.02	0.010	200	6	9.7	99.66	1198
Beaver YT G-01	4108.70	13480.0			Evie	80.05	5.65	2.69	0.92	1.37	0.08	1.32	0.24	0.14	0.02	0.010	182	6	7.2	99.75	849
Beaver YT G-01	4111.75	13490.0			Nahanni	80.66	5.67	2.58	0.87	1.15	0.08	1.35	0.25	0.12	0.01	0.009	168	6	7.0	99.75	845
Beaver YT G-01	4114.80	13500.0			Nahanni	77.97	6.77	3.24	1.12	1.22	0.09	1.61	0.29	0.10	0.02	0.016	167	7	7.3	99.74	957
Beaver YT G-01	4123.94	13530.0			Nahanni	54.89	8.91	3.53	5.91	8.38	0.15	1.74	0.38	0.09	0.03	0.010	91	9	15.4	99.46	1737
Beavercrow YT B-16	1453.90	4770.0			Exshaw	52.28	18.25	7.00	1.83	2.84	0.55	2.27	0.80	1.10	0.04	0.021	89	15	12.4	99.42	3505
Beavercrow YT B-16	1463.04	4800.0			Exshaw	53.98	18.60	6.22	1.70	2.19	0.50	2.29	0.79	0.73	0.03	0.020	84	15	12.5	99.52	2701
Beavercrow YT B-16	1469.14	4820.0			Exshaw	57.15	16.37	5.78	1.60	2.46	0.47	2.17	0.72	0.91	0.03	0.020	87	13	11.9	99.53	2583
Beavercrow YT B-16	1478.28	4850.0			Exshaw	62.53	11.38	5.54	0.94	3.62	0.19	1.81	0.43	1.57	0.02	0.017	95	10	11.4	99.40	4011
Beavercrow YT B-16	1487.42	4880.0			Exshaw	68.76	11.01	3.49	0.79	1.43	0.14	2.22	0.40	0.73	0.01	0.013	83	10	10.5	99.47	1368
Beavercrow YT B-16	1496.57	4910.0			Exshaw	77.37	8.84	2.07	0.52	0.59	0.11	1.72	0.32	0.31	<0.01	0.009	82	7	7.8	99.64	1086
Beavercrow YT B-16	1505.71	4940.0			Patry	78.48	7.36	2.00	0.37	0.21	0.08	1.49	0.27	0.15	<0.01	0.007	47	5	9.4	99.81	770
Beavercrow YT B-16	1511.81	4960.0			Patry	80.00	6.76	1.84	0.33	0.13	0.07	1.42	0.25	0.09	<0.01	0.007	53	5	8.9	99.85	673
Beavercrow YT B-16	1514.86	4970.0			Patry	79.32	6.92	1.95	0.34	0.18	0.08	1.36	0.25	0.12	<0.01	0.007	61	5	9.3	99.83	658
Beavercrow YT B-16	1520.95	4990.0			Patry	78.13	6.81	2.95	0.36	0.19	0.09	1.28	0.26	0.10	<0.01	0.007	58	5	9.7	99.83	761
Beavercrow YT B-16	1524.00	5000.0			Patry	79.93	6.68	1.97	0.35	0.25	0.09	1.26	0.25	0.11	<0.01	0.006	62	5	8.9	99.84	754
Beavercrow YT B-16	1533.14	5030.0			Patry	74.62	8.67	3.01	0.48	0.91	0.11	1.65	0.34	0.10	<0.01	0.009	60	8	9.9	99.81	919
Beavercrow YT B-16	1542.29	5060.0			Patry	79.50	7.44	2.48	0.41	0.14	0.09	1.55	0.27	0.09	<0.01	0.007	50	6	7.8	99.84	1042
Beavercrow YT B-16	1548.38	5080.0			Patry	75.60	11.10	2.02	0.61	0.12	0.12	2.35	0.41	0.09	<0.01	0.010	44	9	7.3	99.76	1502
Beavercrow YT B-16	1551.43	5090.0			Fort Simpson - *upper*	73.95	11.89	2.49	0.66	0.10	0.14	2.52	0.43	0.07	<0.01	0.011	49	10	7.5	99.73	1613
Beavercrow YT B-16	1554.48	5100.0			Fort Simpson - *upper*	73.84	12.13	2.29	0.68	0.13	0.13	2.69	0.43	0.08	<0.01	0.011	35	10	7.3	99.75	1607
Beavercrow YT B-16	1563.62	5130.0			Fort Simpson - *middle*	75.41	10.12	2.45	0.76	0.53	0.11	2.15	0.36	0.12	<0.01	0.009	51	9	7.7	99.76	1296
Beavercrow YT K-02	972.31	3190.0			Banff - *carbonate*	64.70	12.94	3.36	1.21	3.01	0.27	2.14	0.47	1.26	0.02	0.017	90	12	10.0	99.42	3673
Beavercrow YT K-02	993.65	3260.0			Exshaw	71.57	10.24	2.54	0.76	0.89	0.14	2.11	0.39	0.28	<0.01	0.012	92	9	10.4	99.34	2712
Beavercrow YT K-02	999.74	3280.0			Exshaw	72.07	9.83	2.09	0.89	1.55	0.13	2.11	0.36	0.32	0.01	0.010	92	9	10.0	99.41	2503
Beavercrow YT K-02	1005.84	3300.0			Exshaw	77.23	8.00	1.99	0.66	1.45	0.12	1.65	0.28	0.20	0.01	0.009	81	7	7.9	99.46	2349
Beavercrow YT K-02	1011.94	3320.0			Exshaw	77.55	7.65	2.70	0.70	1.25	0.13	1.27	0.27	0.32	0.01	0.009	94	7	7.8	99.64	1672
Beavercrow YT K-02	1018.03	3340.0			Exshaw	83.86	5.35	1.76	0.40	0.76	0.08	1.00	0.17	0.15	<0.01	0.006	86	5	6.1	99.68	1877
Beavercrow YT K-02	1024.13	3360.0			Exshaw	76.12	7.76	3.05	0.67	1.01	0.12	1.36	0.27	0.22	0.01	0.008	111	7	9.0	99.62	2169
Beavercrow YT K-02	1033.27	3390.0			Exshaw	83.87	4.92	1.90	0.53	0.76	0.07	0.95	0.16	0.07	0.01	0.005	82	5	6.5	99.73	1364
Beavercrow YT K-02	1039.37	3410.0			Exshaw	81.18	5.44	2.56	0.64	1.81	0.08	0.96	0.19	0.08	0.02	0.006	74	5	6.8	99.71	1619
Beavercrow YT K-02	1045.46	3430.0			Patry	81.06	5.63	2.21	0.46	0.77	0.08	1.09	0.19	0.09	0.01	0.006	105	5	8.1	99.72	1503
Beavercrow YT K-02	1051.56	3450.0			Patry	71.34	6.74	2.87	0.81	4.53	0.09	1.32	0.26	0.10	0.02	0.007	99	7	11.6	99.68	1699
Beavercrow YT K-02	1057.66	3470.0			Patry	80.40	6.14	2.34	0.43	1.48	0.09	1.14	0.21	0.08	<0.01	0.006	64	6	7.4	99.76	1587
Beavercrow YT K-02	1063.75	3490.0			Patry	75.67	6.19	3.83	0.45	3.03	0.10	1.10	0.23	0.10	0.01	0.006	88	6	9.0	99.75	1473
Beavercrow YT K-02	1069.85	3510.0			Patry	77.45	6.84	2.77	0.57	1.58	0.10	1.11	0.26	0.11	0.01	0.006	82	7	9.0	99.79	1234
Beavercrow YT K-02	1075.94	3530.0			Patry	79.82	5.85	2.49	0.41	1.90	0.08	0.95	0.21	0.12	0.01	0.006	79	5	8.0	99.81	1115
Beavercrow YT K-02	1082.04	3550.0			Patry	76.36	7.28	2.83	0.48	2.22	0.11	1.17	0.29	0.12	0.01	0.007	76	7	8.9	99.76	1513
Beavercrow YT K-02	1088.14	3570.0			Patry	75.45	6.54	3.78	0.45	2.84	0.10	1.11	0.26	0.11	0.01	0.007	77	6	9.1	99.78	1375
Beavercrow YT K-02	1094.23	3590.0			Patry	73.06	6.87	3.24	0.47	3.25	0.10	1.25	0.29	0.11	0.01	0.006	70	7	11.0	99.66	2461
Beavercrow YT K-02	1106.42	3630.0			Patry	77.78	7.40	2.71	0.82	1.41	0.11	1.35	0.29	0.10	0.01	0.006	63	7	7.7	99.74	1684

APPENDIX D Lithogeochemical data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	TiO2 (%)	P2O5 (%)	MnO (%)	Cr2O3 (%)	Ni (ppm)	Sc (ppm)	LOI (%)	Sum (%)	Ba (ppm)
						0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1
Beavercrow YT K-02	1112.52	3650.0			Patry	76.04	9.48	2.68	0.71	1.06	0.17	1.45	0.35	0.12	0.01	0.009	55	8	7.6	99.69	2105
Beavercrow YT K-02	1118.62	3670.0			Patry	72.07	11.49	3.49	0.85	0.69	0.18	1.64	0.42	0.14	0.01	0.010	69	9	8.7	99.72	1819
Beavercrow YT K-02	1124.71	3690.0			Patry	72.60	9.42	3.22	1.54	1.96	0.12	1.82	0.36	0.09	0.02	0.009	64	8	8.5	99.69	2019
Beavercrow YT K-02	1136.90	3730.0			Fort Simpson - *upper*	62.49	14.10	4.74	2.06	2.44	0.18	2.47	0.50	0.12	0.02	0.012	68	13	10.4	99.58	2545
Beavercrow YT K-02	1143.00	3750.0			Fort Simpson - *upper*	67.54	14.23	4.19	1.06	0.57	0.21	2.33	0.51	0.08	0.01	0.011	68	12	8.9	99.65	2242
Beavercrow YT K-02	1152.14	3780.0			Fort Simpson - *upper*	72.97	11.33	3.39	0.95	0.64	0.16	1.89	0.40	0.08	0.01	0.009	61	10	7.9	99.71	1876
Beavercrow YT K-02	1158.24	3800.0			Fort Simpson - *upper*	68.48	12.06	3.43	1.74	2.05	0.14	2.39	0.43	0.07	0.02	0.010	62	11	8.8	99.65	2206
Beavercrow YT K-02	1167.38	3830.0			Fort Simpson - *upper*	63.60	15.42	4.50	1.54	1.43	0.24	2.38	0.54	0.19	0.02	0.013	72	13	9.7	99.60	2452
Beavercrow YT K-02	1258.82	4130.0			Fort Simpson - *lower*	65.64	13.69	4.00	1.49	1.66	0.14	3.28	0.55	0.21	0.03	0.012	72	15	8.9	99.63	1691
Beavercrow YT K-02	1267.97	4160.0			Fort Simpson - *lower*	69.42	12.95	3.15	1.11	0.85	0.11	3.08	0.53	0.15	0.02	0.012	85	13	8.2	99.62	1809
Beavercrow YT K-02	1277.11	4190.0			Muskwa	61.72	12.53	5.14	2.36	3.06	0.12	2.97	0.52	0.12	0.04	0.011	82	13	11.0	99.59	1924
Beavercrow YT K-02	1286.26	4220.0			Muskwa	64.25	12.25	4.19	1.97	2.92	0.10	2.97	0.51	0.09	0.03	0.011	88	13	10.3	99.63	2135
Beavercrow YT K-02	1295.40	4250.0			Muskwa	69.90	10.77	3.52	1.40	1.49	0.12	2.37	0.43	0.17	0.02	0.010	100	10	9.4	99.60	1808
Beavercrow YT K-02	1304.54	4280.0			Muskwa	66.14	12.42	4.12	1.75	1.77	0.22	1.82	0.47	0.11	0.02	0.012	89	10	10.7	99.60	2114
Beavercrow YT K-02	1313.69	4310.0			Muskwa	79.30	6.28	2.41	0.63	0.61	0.09	1.37	0.24	0.06	0.01	0.007	98	5	8.7	99.71	1206
Beavercrow YT K-02	1322.83	4340.0			Otter Park	81.75	5.76	2.05	0.61	0.74	0.07	1.27	0.22	0.06	0.01	0.007	81	5	7.1	99.72	1261
Beavercrow YT K-02	1331.98	4370.0			Otter Park	71.27	11.08	3.61	1.00	0.67	0.17	1.78	0.41	0.10	0.01	0.010	75	9	9.6	99.68	1887
Beavercrow YT K-02	1341.12	4400.0			Otter Park	71.25	9.25	3.56	1.45	1.73	0.11	2.10	0.37	0.16	0.02	0.009	66	9	9.7	99.73	1280
Beavercrow YT K-02	1350.26	4430.0			Otter Park	69.41	10.34	3.83	1.60	1.91	0.10	2.54	0.41	0.09	0.02	0.009	73	10	9.5	99.73	1329
Beavercrow YT K-02	1359.41	4460.0			Otter Park	68.40	11.13	4.04	1.39	1.59	0.12	2.42	0.43	0.10	0.02	0.010	87	10	10.1	99.74	1334
Beavercrow YT K-02	1365.50	4480.0			Otter Park	78.04	7.58	2.38	0.73	0.72	0.06	1.83	0.29	0.07	<0.01	0.006	84	7	8.1	99.78	876
Beavercrow YT K-02	1368.55	4490.0			Evie	62.85	6.94	3.23	3.74	6.17	0.05	1.59	0.28	0.12	0.04	0.007	76	6	14.7	99.74	1068
Beavercrow YT K-02	1377.70	4520.0			Evie	61.30	12.41	4.05	2.73	3.89	0.10	2.88	0.48	0.11	0.03	0.012	98	11	11.7	99.72	1160
Beavercrow YT K-02	1389.89	4560.0			Evie	69.28	9.37	3.31	1.13	4.40	0.13	1.72	0.35	0.09	0.01	0.009	101	8	9.8	99.63	2023
Beavercrow YT K-02	1399.03	4590.0			Evie	69.47	6.50	2.65	0.85	7.64	0.05	1.42	0.25	0.09	0.01	0.009	112	6	10.8	99.72	680
Beavercrow YT K-02	1402.08	4600.0			Evie	76.11	5.79	2.14	1.30	3.89	0.04	1.50	0.23	0.08	0.01	0.007	102	5	8.7	99.78	522
Beavercrow YT K-02	1408.18	4620.0			Nahanni	43.52	7.66	3.10	8.58	12.50	0.11	0.95	0.28	0.10	0.03	0.007	52	6	22.7	99.51	1401
Beavercrow YT K-02	1411.22	4630.0			Nahanni	21.57	1.50	1.01	15.00	24.27	<0.01	0.28	0.06	0.04	0.03	<0.002	<20	1	35.9	99.61	220
Beavercrow YT K-02	1414.27	4640.0			Nahanni	13.63	1.82	0.79	9.15	35.32	0.01	0.33	0.07	0.03	0.02	<0.002	<20	1	38.6	99.76	282
Beavercrow YT K-02	1420.37	4660.0			Nahanni	19.22	3.62	1.57	5.61	34.48	0.07	0.53	0.14	0.04	0.02	0.003	31	3	34.5	99.80	435
Beavercrow YT K-02	1423.42	4670.0			Nahanni	81.44	4.24	1.83	1.36	2.98	0.04	0.84	0.16	0.16	<0.01	0.006	115	3	6.7	99.78	623
Kotaneelee YT I-48	3036.00	9960.63	3030.00	9940.95	Banff - *shale*	55.52	20.00	8.19	2.08	1.18	0.44	2.94	0.81	0.17	0.06	0.018	78	20	8.2	99.56	2569
Kotaneelee YT I-48	3045.00	9990.16	3039.00	9970.47	Banff - *shale*	55.22	19.53	7.87	2.21	1.70	0.42	2.91	0.80	0.16	0.06	0.017	76	20	8.6	99.55	2647
Kotaneelee YT I-48	3054.00	10019.69	3048.00	10000.00	Banff - *shale*	55.95	19.85	7.57	2.09	1.69	0.44	2.92	0.82	0.17	0.06	0.018	72	20	8.0	99.54	2751
Kotaneelee YT I-48	3060.00	10039.37	3054.00	10019.69	Banff - *shale*	54.85	19.16	7.46	2.13	2.58	0.42	2.83	0.79	0.17	0.06	0.029	102	19	9.1	99.56	2557
Kotaneelee YT I-48	3072.00	10078.74	3066.00	10059.06	Banff - *shale*	54.79	18.92	7.23	2.28	2.78	0.42	2.88	0.77	0.15	0.06	0.017	66	19	9.3	99.61	2262
Kotaneelee YT I-48	3078.00	10098.43	3072.00	10078.74	Banff - *shale*	55.94	18.73	7.34	2.15	2.02	0.41	2.78	0.77	0.31	0.06	0.017	72	19	9.0	99.57	2391
Kotaneelee YT I-48	3084.00	10118.11	3078.00	10098.43	Banff - *shale*	56.22	18.59	7.33	2.09	1.90	0.42	2.78	0.75	0.23	0.06	0.018	80	18	9.1	99.50	2720
Kotaneelee YT I-48	3090.00	10137.80	3084.00	10118.11	Banff - *shale*	56.82	18.47	7.22	2.03	1.68	0.44	2.89	0.75	0.16	0.06	0.016	82	18	8.9	99.49	2669
Kotaneelee YT I-48	3096.00	10157.48	3090.00	10137.80	Banff - *shale*	57.66	18.56	6.54	1.89	1.51	0.46	2.90	0.77	0.17	0.05	0.017	83	18	9.0	99.49	2765
Kotaneelee YT I-48	3099.00	10167.32	3093.00	10147.64	Banff - *shale*	57.38	18.47	6.63	1.92	1.52	0.44	2.87	0.74	0.17	0.05	0.016	84	18	9.2	99.44	2813
Kotaneelee YT I-48	3108.00	10196.85	3102.00	10177.17	Banff - *carbonate*	55.37	18.45	7.01	2.06	2.81	0.43	2.80	0.76	0.18	0.06	0.015	77	18	9.6	99.50	2663
Kotaneelee YT I-48	3117.00	10226.38	3111.00	10206.69	Banff - *carbonate*	47.51	14.32	6.70	2.76	10.16	0.35	2.18	0.62	0.14	0.07	0.013	50	14	14.7	99.56	2447
Kotaneelee YT I-48	3126.00	10255.91	3120.00	10236.22	Banff - *carbonate*	53.50	18.01	7.13	2.32	4.10	0.42	2.83	0.75	0.16	0.06	0.014	65	18	10.2	99.53	2697
Kotaneelee YT I-48	3135.00	10285.43	3129.00	10265.75	Banff - *carbonate*	49.55	15.38	6.16	2.28	8.78	0.36	2.36	0.65	0.13	0.06	0.013	53	15	13.8	99.50	2476
Kotaneelee YT I-48	3144.00	10314.96	3138.00	10295.28	Banff - *carbonate*	55.54	18.70	6.92	2.19	2.85	0.44	2.97	0.77	0.16	0.05	0.015	66	18	8.9	99.53	2687
Kotaneelee YT I-48	3153.00	10344.49	3147.00	10324.80	Banff - *carbonate*	54.75	18.70	6.93	2.09	3.17	0.44	2.89	0.77	0.18	0.05	0.015	69	18	9.5	99.50	2862
Kotaneelee YT I-48	3156.00	10354.33	3150.00	10334.65	Banff - *carbonate*	55.24	19.18	7.12	2.10	2.48	0.43	2.78	0.79	0.15	0.06	0.016	71	18	9.2	99.54	2774
Kotaneelee YT I-48	3162.00	10374.02	3156.00	10354.33	Exshaw	56.87	16.57	6.06	1.93	3.67	0.39	2.60	0.67	0.87	0.05	0.016	68	16	9.8	99.52	2642
Kotaneelee YT I-48	3168.00	10393.70	3162.00	10374.02	Exshaw	56.99	17.61	6.67	2.01	2.69	0.40	2.70	0.72	0.41	0.05	0.016	70	17	9.2	99.52	2681
Kotaneelee YT I-48	3174.00	10413.39	3168.00	10393.70	Exshaw	57.91	16.99	6.44	1.95	2.88	0.40	2.62	0.68	0.52	0.05	0.015	74	17	9.1	99.54	2597
Kotaneelee YT I-48	3180.00	10433.07	3174.00	10413.39	Exshaw	58.43	15.07	5.76	2.05	3.79	0.36	2.42	0.60	0.79	0.05	0.016	74	15	10.2	99.51	2772
Kotaneelee YT I-48	3186.00	10452.76	3180.00	10433.07	Exshaw	56.97	14.46	5.65	1.98	4.82	0.34	2.31	0.57	1.46	0.05	0.016	76	16	10.9	99.53	2468
Kotaneelee YT I-48	3192.00	10472.44	3186.00	10452.76	Exshaw	59.89	13.32	5.18	1.95	4.31	0.30	2.10	0.53	1.18	0.04	0.016	74	14	10.7	99.52	2628
Kotaneelee YT I-48	3198.00	10492.13	3192.00	10472.44	Exshaw	57.02	15.16	5.61	2.17	4.35	0.32	2.37	0.60	1.29	0.05	0.016	81	15	10.5	99.46	2615
Kotaneelee YT I-48	3204.00	10511.81	3198.00	10492.13	Exshaw	56.97	15.90	5.90	2.20	3.60	0.33	2.46	0.65	0.83	0.05	0.014	96	16	10.5	99.43	2815

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	TiO2 (%)	P2O5 (%)	MnO (%)	Cr2O3 (%)	Ni (ppm)	Sc (ppm)	LOI (%)	Sum (%)	Ba (ppm)
						0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1
Kotaneelee YT I-48	3210.00	10531.50	3204.00	10511.81	Exshaw	57.51	16.49	6.96	2.13	2.62	0.35	2.55	0.67	0.43	0.05	0.015	90	16	9.7	99.50	2378
Kotaneelee YT I-48	3216.00	10551.18	3210.00	10531.50	Exshaw	60.43	15.99	5.81	1.87	2.09	0.32	2.54	0.64	0.30	0.04	0.013	88	15	9.4	99.41	2854
Kotaneelee YT I-48	3222.00	10570.87	3216.00	10551.18	Exshaw	63.90	13.09	4.63	1.91	2.32	0.27	2.22	0.52	0.14	0.03	0.011	93	12	10.4	99.42	2775
Kotaneelee YT I-48	3228.00	10590.55	3222.00	10570.87	Exshaw	69.55	12.16	3.52	1.16	1.16	0.24	2.10	0.48	0.14	0.02	0.011	93	11	8.9	99.41	2729
Kotaneelee YT I-48	3234.00	10610.24	3228.00	10590.55	Exshaw	66.50	12.31	4.04	1.53	2.01	0.25	2.09	0.49	0.22	0.03	0.012	84	12	9.9	99.42	2897
Kotaneelee YT I-48	3246.00	10649.61	3240.00	10629.92	Exshaw	75.54	8.91	2.49	0.95	1.02	0.18	1.56	0.34	0.13	0.01	0.007	92	8	8.4	99.53	2617
Kotaneelee YT I-48	3249.00	10659.45	3243.00	10639.76	Exshaw	76.35	8.23	2.37	0.92	1.06	0.17	1.43	0.31	0.11	0.01	0.007	98	7	8.6	99.56	2493
Kotaneelee YT I-48	3252.00	10669.29	3246.00	10649.61	Exshaw	76.30	7.67	2.40	1.08	1.51	0.15	1.31	0.29	0.14	0.02	0.007	94	7	8.7	99.60	2210
Kotaneelee YT I-48	3255.00	10679.13	3249.00	10659.45	Exshaw	77.29	7.08	2.28	1.12	1.58	0.14	1.20	0.27	0.14	0.02	0.006	98	6	8.4	99.57	2403
Kotaneelee YT I-48	3258.00	10688.98	3252.00	10669.29	Exshaw	76.78	6.70	2.31	1.20	1.73	0.14	1.15	0.26	0.13	0.02	0.005	103	6	9.2	99.60	2274
Kotaneelee YT I-48	3261.00	10698.82	3255.00	10679.13	Exshaw	76.68	6.66	2.50	1.15	1.67	0.15	1.14	0.27	0.14	0.02	0.006	100	6	9.2	99.62	2178
Kotaneelee YT I-48	3264.00	10708.66	3258.00	10688.98	Exshaw	73.50	7.05	2.66	1.51	2.38	0.16	1.22	0.29	0.13	0.02	0.007	93	7	10.7	99.65	1992
Kotaneelee YT I-48	3267.00	10718.50	3261.00	10698.82	Exshaw	73.97	6.71	2.87	1.32	2.15	0.17	1.18	0.28	0.12	0.02	0.006	91	7	10.9	99.67	1875
Kotaneelee YT I-48	3270.00	10728.35	3264.00	10708.66	Exshaw	74.36	6.52	2.75	1.33	2.13	0.16	1.14	0.27	0.12	0.02	0.006	91	6	10.8	99.66	1971
Kotaneelee YT I-48	3273.00	10738.19	3267.00	10718.50	Patry	80.55	4.23	1.80	0.51	2.00	0.08	0.73	0.17	0.10	<0.01	0.005	78	4	9.6	99.77	1449
Kotaneelee YT I-48	3276.00	10748.03	3270.00	10728.35	Patry	80.92	4.37	1.82	0.39	1.95	0.08	0.74	0.17	0.09	<0.01	0.005	73	4	9.2	99.77	1549
Kotaneelee YT I-48	3279.00	10757.87	3273.00	10738.19	Patry	78.02	4.20	1.96	1.19	2.88	0.07	0.74	0.17	0.09	0.01	0.020	132	4	10.4	99.74	1576
Kotaneelee YT I-48	3282.00	10767.72	3276.00	10748.03	Patry	82.21	3.92	1.74	0.81	1.37	0.07	0.69	0.16	0.09	0.01	0.002	67	4	8.7	99.79	1285
Kotaneelee YT I-48	3285.00	10777.56	3279.00	10757.87	Patry	82.32	4.10	1.79	0.48	1.33	0.07	0.74	0.17	0.10	<0.01	0.004	78	4	8.7	99.79	1396
Kotaneelee YT I-48	3288.00	10787.40	3282.00	10767.72	Patry	80.98	4.46	1.84	0.55	1.29	0.07	0.82	0.19	0.11	<0.01	0.003	79	4	9.4	99.77	1448
Kotaneelee YT I-48	3291.00	10797.24	3285.00	10777.56	Patry	79.69	4.03	2.00	0.73	2.06	0.05	0.74	0.18	0.09	<0.01	0.003	89	4	10.2	99.77	1387
Kotaneelee YT I-48	3294.00	10807.09	3288.00	10787.40	Patry	80.99	4.41	1.99	0.46	1.39	0.05	0.80	0.20	0.10	<0.01	0.005	97	4	9.4	99.78	1277
Kotaneelee YT I-48	3297.00	10816.93	3291.00	10797.24	Patry	78.33	4.84	1.99	1.33	2.26	0.05	0.91	0.22	0.11	0.01	0.005	80	5	9.7	99.73	1620
Kotaneelee YT I-48	3300.00	10826.77	3294.00	10807.09	Patry	77.98	4.35	1.81	1.65	2.74	0.04	0.81	0.21	0.13	0.01	0.004	78	4	10.0	99.72	1731
Kotaneelee YT I-48	3303.00	10836.61	3297.00	10816.93	Patry	78.44	4.39	2.16	0.75	2.71	0.05	0.83	0.22	0.11	0.01	0.004	84	5	10.1	99.75	1493
Kotaneelee YT I-48	3306.00	10846.46	3300.00	10826.77	Patry	78.45	4.81	1.96	0.91	2.54	0.05	0.94	0.24	0.11	0.01	0.004	75	5	9.7	99.75	1558
Kotaneelee YT I-48	3309.00	10856.30	3303.00	10836.61	Patry	77.00	5.08	2.78	0.87	3.00	0.05	0.99	0.26	0.09	0.02	0.004	77	5	9.6	99.75	1635
Kotaneelee YT I-48	3312.00	10866.14	3306.00	10846.46	Patry	67.74	4.74	2.18	3.37	6.64	0.05	0.92	0.25	0.09	0.03	0.004	72	5	13.7	99.70	1641
Kotaneelee YT I-48	3315.00	10875.98	3309.00	10856.30	Patry	77.57	5.47	2.63	0.44	2.53	0.06	1.07	0.29	0.09	0.01	0.006	70	6	9.6	99.76	1556
Kotaneelee YT I-48	3318.00	10885.83	3312.00	10866.14	Patry	76.21	6.11	3.25	0.46	1.95	0.07	1.21	0.32	0.09	0.01	0.008	55	6	10.0	99.74	1739
Kotaneelee YT I-48	3321.00	10895.67	3315.00	10875.98	Patry	78.85	5.65	2.50	1.04	1.78	0.06	1.12	0.30	0.10	0.02	0.005	71	6	8.3	99.75	1727
Kotaneelee YT I-48	3324.00	10905.51	3318.00	10885.83	Patry	80.67	5.89	2.27	0.59	1.09	0.07	1.18	0.32	0.10	0.01	0.006	74	6	7.6	99.77	1677
Kotaneelee YT I-48	3330.00	10925.20	3324.00	10905.51	Patry	75.99	6.51	2.94	1.29	1.81	0.07	1.33	0.30	0.09	0.02	0.006	78	7	9.4	99.72	1859
Kotaneelee YT I-48	3333.00	10935.04	3327.00	10915.35	Patry	77.06	6.70	2.66	1.03	1.46	0.08	1.34	0.28	0.08	0.02	0.006	78	6	9.0	99.69	1974
Kotaneelee YT I-48	3336.00	10944.88	3330.00	10925.20	Fort Simpson - *upper*	62.99	7.29	5.43	3.07	5.11	0.09	1.51	0.30	0.09	0.04	0.008	81	8	12.8	98.77	9356
Kotaneelee YT I-48	3339.00	10954.72	3333.00	10935.04	Fort Simpson - *upper*	54.59	11.65	8.50	2.54	4.05	0.13	2.33	0.54	0.09	0.04	0.052	173	12	11.8	96.31	30928
Kotaneelee YT I-48	3342.00	10964.57	3336.00	10944.88	Fort Simpson - *upper*	54.54	13.03	7.76	2.84	4.96	0.17	2.65	0.63	0.10	0.04	0.011	70	13	12.2	98.92	8018
Kotaneelee YT I-48	3534.00	11594.49	3528.00	11574.80	Fort Simpson - *lower*	57.07	17.38	7.34	2.35	1.87	0.14	3.83	0.72	0.11	0.06	0.019	66	19	8.6	99.51	2952
Kotaneelee YT I-48	3537.00	11604.33	3531.00	11584.65	Fort Simpson - *lower*	53.05	16.32	7.59	3.00	4.17	0.13	3.68	0.71	0.13	0.08	0.015	64	18	10.6	99.49	3126
Kotaneelee YT I-48	3540.00	11614.17	3534.00	11594.49	Fort Simpson - *lower*	52.42	15.77	7.72	3.16	4.69	0.10	3.57	0.69	0.14	0.09	0.014	61	18	11.1	99.46	3185
Kotaneelee YT I-48	3546.00	11633.86	3538.00	11607.61	Fort Simpson - *lower*	55.12	16.05	8.34	2.85	2.97	0.11	3.59	0.75	0.15	0.09	0.015	63	22	9.5	99.49	3065
Kotaneelee YT I-48	3549.00	11643.70	3541.00	11617.45	Fort Simpson - *lower*	53.66	16.37	9.16	2.88	2.88	0.11	3.62	0.74	0.14	0.10	0.016	71	22	9.8	99.49	3143
Kotaneelee YT I-48	3552.00	11653.54	3544.00	11627.30	Fort Simpson - *lower*	53.13	16.68	7.98	2.84	3.02	0.11	3.69	0.74	0.14	0.09	0.015	78	21	11.0	99.47	3279
Kotaneelee YT I-48	3555.00	11663.39	3547.00	11637.14	Fort Simpson - *lower*	51.97	15.93	7.60	3.27	4.38	0.10	3.80	0.71	0.19	0.09	0.016	85	21	11.3	99.37	4000
Kotaneelee YT I-48	3558.00	11673.23	3550.00	11646.98	Muskwa	53.75	13.07	6.16	3.59	5.51	0.09	3.20	0.57	0.14	0.07	0.013	94	15	13.1	99.25	4953
Kotaneelee YT I-48	3561.00	11683.07	3553.00	11656.82	Muskwa	71.30	7.10	2.99	1.86	2.63	0.06	1.71	0.29	0.06	0.03	0.008	107	7	11.5	99.50	3092
Kotaneelee YT I-48	3564.00	11692.91	3556.00	11666.67	Muskwa	71.45	7.90	3.01	1.76	2.59	0.07	1.91	0.32	0.08	0.03	0.009	104	8	10.3	99.48	3335
Kotaneelee YT I-48	3567.00	11702.76	3559.00	11676.51	Muskwa	76.05	7.22	3.15	0.97	1.23	0.06	1.77	0.29	0.06	0.02	0.008	99	7	8.7	99.57	2681
Kotaneelee YT I-48	3576.00	11732.28	3568.00	11706.04	Otter Park	69.14	7.25	2.59	1.76	5.24	0.06	1.80	0.30	0.06	0.04	0.007	71	7	11.4	99.65	2110
Kotaneelee YT I-48	3579.00	11742.13	3571.00	11715.88	Otter Park	70.36	7.12	2.52	1.68	4.69	0.06	1.73	0.30	0.06	0.04	0.007	69	7	11.1	99.69	1962
Kotaneelee YT I-48	3582.00	11751.97	3574.00	11725.72	Otter Park	72.92	7.51	2.83	1.43	2.79	0.06	1.88	0.32	0.06	0.03	0.007	71	7	9.9	99.72	1746
Kotaneelee YT I-48	3585.00	11761.81	3577.00	11735.56	Otter Park	73.69	7.72	2.85	1.31	2.58	0.07	1.96	0.33	0.07	0.02	0.007	71	8	9.1	99.69	2061
Kotaneelee YT I-48	3588.00	11771.65	3580.00	11745.41	Otter Park	66.84	8.63	3.89	2.33	4.06	0.07	2.15	0.36	0.07	0.04	0.008	67	9	11.2	99.69	1917
Kotaneelee YT I-48	3591.00	11781.50	3583.00	11755.25	Otter Park	68.02	8.71	3.77	2.22	3.76	0.07	2.19	0.36	0.07	0.04	0.009	62	9	10.5	99.67	1958
Kotaneelee YT I-48	3594.00	11791.34	3586.00	11765.09	Otter Park	69.39	9.30	3.85	1.67	2.57	0.08	2.37	0.39	0.06	0.03	0.009	85	9	10.0	99.69	1965
Kotaneelee YT I-48	3597.00	11801.18	3589.00	11774.93	Otter Park	69.00	9.34	4.48	1.64	2.50	0.08	2.42	0.39	0.08	0.03	0.011	89	10	9.7	99.65	2233

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	TiO2 (%)	P2O5 (%)	MnO (%)	Cr2O3 (%)	Ni (ppm)	Sc (ppm)	LOI (%)	Sum (%)	Ba (ppm)
						0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1
Kotaneelee YT I-48	3600.00	11811.02	3592.00	11784.78	Otter Park	66.82	9.72	5.11	1.69	2.52	0.08	2.43	0.40	0.08	0.03	0.010	91	9	10.7	99.63	2337
Kotaneelee YT I-48	3603.00	11820.87	3595.00	11794.62	Otter Park	68.87	9.69	4.33	1.48	2.01	0.09	2.54	0.39	0.08	0.02	0.009	85	10	10.2	99.69	1867
Kotaneelee YT I-48	3606.00	11830.71	3598.00	11804.46	Otter Park	64.06	11.87	4.76	1.95	2.46	0.10	3.02	0.48	0.07	0.03	0.010	79	12	10.8	99.63	2193
Kotaneelee YT I-48	3609.00	11840.55	3601.00	11814.30	Otter Park	66.19	11.60	4.91	1.89	2.19	0.09	2.90	0.48	0.08	0.03	0.011	81	12	9.3	99.64	2243
Kotaneelee YT I-48	3612.00	11850.39	3604.00	11824.15	Otter Park	71.82	9.33	2.94	1.02	1.57	0.08	2.46	0.37	0.07	0.01	0.009	98	9	10.0	99.74	1559
Kotaneelee YT I-48	3615.00	11860.24	3607.00	11833.99	Otter Park	72.05	9.05	2.91	0.96	1.50	0.08	2.34	0.36	0.07	0.01	0.008	99	9	10.4	99.72	1762
Kotaneelee YT I-48	3618.00	11870.08	3610.00	11843.83	Otter Park	67.64	9.15	3.80	1.62	2.80	0.08	2.43	0.38	0.07	0.02	0.010	115	9	11.7	99.71	1594
Kotaneelee YT I-48	3621.00	11879.92	3613.00	11853.67	Evie	71.15	5.04	2.34	1.85	5.39	0.05	1.31	0.22	0.08	0.02	0.006	116	5	12.3	99.73	1192
Kotaneelee YT I-48	3624.00	11889.76	3616.00	11863.52	Evie	70.20	4.57	2.10	1.93	6.78	0.04	1.18	0.20	0.08	0.02	0.006	92	5	12.6	99.75	1148
Kotaneelee YT I-48	3627.00	11899.61	3619.00	11873.36	Evie	66.74	7.99	5.15	1.70	4.70	0.07	1.96	0.34	0.09	0.03	0.015	197	9	10.6	99.42	1915
Kotaneelee YT I-48	3630.00	11909.45	3622.00	11883.20	Evie	60.99	9.02	7.96	1.60	4.16	0.09	2.07	0.38	0.08	0.07	0.040	152	9	10.0	96.49	2510
Kotaneelee YT I-48	3633.00	11919.29	3625.00	11893.05	Evie	68.31	6.36	2.35	0.92	6.98	0.05	1.67	0.28	0.07	0.02	0.010	131	6	12.7	99.71	1416
Kotaneelee YT I-48	3636.00	11929.13	3628.00	11902.89	Evie	68.65	6.57	2.61	0.97	7.04	0.05	1.72	0.29	0.07	0.02	0.011	134	7	11.6	99.65	1479
Kotaneelee YT I-48	3639.00	11938.98	3631.00	11912.73	Evie	66.97	5.35	2.23	0.97	9.63	0.04	1.39	0.24	0.09	0.02	0.011	122	6	12.7	99.68	1352
Kotaneelee YT I-48	3642.00	11948.82	3634.00	11922.57	Evie	69.27	5.47	2.05	1.02	8.38	0.04	1.46	0.24	0.10	0.02	0.011	121	6	11.6	99.69	1404
Kotaneelee YT I-48	3645.00	11958.66	3637.00	11932.42	Evie	59.60	4.16	4.95	4.60	9.00	0.03	1.09	0.19	0.11	0.04	0.024	168	4	14.9	98.75	2361
Kotaneelee YT I-48	3648.00	11968.50	3640.00	11942.26	Evie	79.61	3.49	1.71	1.85	3.16	0.03	0.90	0.16	0.12	0.01	0.008	155	3	8.6	99.63	1465
Kotaneelee YT I-48	3651.00	11978.35	3643.00	11952.10	Evie	79.15	4.06	1.86	1.89	2.66	0.03	1.07	0.18	0.10	0.01	0.008	149	4	8.6	99.68	1471
Kotaneelee YT I-48	3654.00	11988.19	3646.00	11961.94	Evie	70.35	5.09	2.47	2.94	4.17	0.04	1.41	0.23	0.10	0.02	0.009	173	5	12.7	99.54	1886
Kotaneelee YT I-48	3657.00	11998.03	3649.00	11971.79	Nahanni	36.41	1.94	1.48	12.20	17.71	0.02	0.52	0.09	0.04	0.02	0.006	63	2	28.9	99.31	1607
Kotaneelee YT I-48	3660.00	12007.87	3652.00	11981.63	Nahanni	48.39	2.90	2.06	8.79	12.93	0.07	0.68	0.12	0.04	0.02	0.008	64	3	23.1	99.11	2038
Kotaneelee YT I-48	3672.00	12047.24	3664.00	12021.00	Nahanni	60.52	12.29	5.06	3.25	4.53	0.17	2.34	0.52	0.11	0.03	0.014	66	12	10.5	99.36	2431
Kotaneelee YT I-48	3675.00	12057.09	3667.00	12030.84	Nahanni	54.54	0.43	0.67	9.69	13.75	<0.01	0.05	0.02	<0.01	0.02	<0.002	<20	<1	20.6	99.76	173
Kotaneelee YT I-48	3678.00	12066.93	3670.00	12040.68	Nahanni	52.84	0.79	0.94	9.74	13.82	<0.01	0.12	0.03	<0.01	0.02	0.003	<20	<1	21.5	99.78	315
Kotaneelee YT I-48	3681.00	12076.77	3673.00	12050.53	Nahanni	62.05	0.59	0.74	7.81	11.00	<0.01	0.09	0.02	0.01	0.01	<0.002	<20	<1	17.5	99.80	226
Kotaneelee YT I-48	3684.00	12086.61	3676.00	12060.37	Nahanni	62.62	0.74	0.69	7.63	10.76	<0.01	0.13	0.03	<0.01	0.01	<0.002	<20	<1	17.2	99.80	220
Kotaneelee YT I-48	3687.00	12096.46	3679.00	12070.21	Nahanni	55.19	0.61	0.53	9.31	13.35	<0.01	0.10	0.02	0.01	0.01	<0.002	<20	<1	20.6	99.76	169
Kotaneelee YT I-48	3690.00	12106.30	3682.00	12080.05	Nahanni	47.87	0.48	0.64	10.88	15.53	<0.01	0.08	0.02	0.01	0.02	<0.002	39	<1	24.2	99.74	148
Kotaneelee YT I-48	3693.00	12116.14	3685.00	12089.90	Nahanni	69.37	0.61	0.61	6.23	8.77	<0.01	0.09	0.02	<0.01	<0.01	<0.002	<20	<1	14.1	99.78	160
Kotaneelee YT I-48	3696.00	12125.98	3688.00	12099.74	Nahanni	54.13	0.84	0.72	9.43	13.34	<0.01	0.14	0.03	0.01	0.01	<0.002	<20	<1	21.0	99.68	184
Kotaneelee YT I-48	3699.00	12135.83	3691.00	12109.58	Nahanni	31.65	0.39	0.44	14.35	20.69	<0.01	0.06	0.02	<0.01	0.02	<0.002	<20	<1	32.0	99.58	149
Kotaneelee YT I-48	3702.00	12145.67	3694.00	12119.42	Nahanni	23.81	0.28	0.32	15.88	23.10	<0.01	0.04	0.01	<0.01	0.02	<0.002	<20	<1	35.9	99.34	110
Kotaneelee YT I-48	3705.00	12155.51	3697.00	12129.27	Nahanni	24.42	0.23	0.27	16.01	23.08	<0.01	0.03	0.01	0.01	0.02	<0.002	<20	<1	35.6	99.62	100
North Beaver River YT I-27	3611.88	11850.0			Fort Simpson - *lower*	51.93	16.27	7.64	3.21	4.82	0.44	2.57	0.68	0.14	0.10	0.015	114	18	11.7	99.53	2618
North Beaver River YT I-27	3614.93	11860.0			Muskwa	57.27	16.95	6.94	2.17	2.85	0.48	2.76	0.72	0.16	0.06	0.016	70	18	9.2	99.58	2303
North Beaver River YT I-27	3617.98	11870.0			Muskwa	53.32	14.01	5.40	2.29	6.58	0.47	2.23	0.59	0.13	0.05	0.015	68	14	14.3	99.44	3589
North Beaver River YT I-27	3624.07	11890.0			Muskwa	68.57	10.25	4.62	1.25	1.82	0.25	1.91	0.43	0.10	0.03	0.014	123	10	10.4	99.60	2335
North Beaver River YT I-27	3630.17	11910.0			Muskwa	63.05	15.66	5.42	1.55	1.51	0.42	2.60	0.66	0.25	0.04	0.015	76	16	8.5	99.63	2114
North Beaver River YT I-27	3636.26	11930.0			Otter Park	58.96	17.42	6.00	1.88	2.05	0.53	2.73	0.72	0.12	0.04	0.016	76	17	9.1	99.62	2090
North Beaver River YT I-27	3645.41	11960.0			Otter Park	59.93	16.78	5.87	1.76	2.07	0.46	2.62	0.71	0.13	0.04	0.016	74	17	9.2	99.60	2251
North Beaver River YT I-27	3651.50	11980.0			Otter Park	58.05	18.18	6.45	1.96	2.08	0.61	2.71	0.77	0.12	0.05	0.018	70	18	8.6	99.61	2104
North Beaver River YT I-27	3657.60	12000.0			Otter Park	56.68	16.53	6.64	2.00	3.48	0.55	2.48	0.70	0.18	0.06	0.017	81	16	9.9	99.20	5553
North Beaver River YT I-27	3663.70	12020.0			Otter Park	30.78	2.57	3.46	0.55	1.24	0.09	0.50	0.12	0.07	0.02	0.009	28	3	5.2	44.56	>50000
North Beaver River YT I-27	3669.79	12040.0			Otter Park	58.08	17.84	6.52	1.92	2.17	0.54	2.56	0.77	0.14	0.05	0.016	71	17	9.0	99.64	1873
North Beaver River YT I-27	3678.94	12070.0			Otter Park	60.10	17.61	5.48	1.72	1.69	0.57	2.86	0.73	0.11	0.04	0.016	66	17	8.6	99.56	2634
North Beaver River YT I-27	3688.08	12100.0			Evie	57.62	17.77	6.25	1.97	2.50	0.60	2.63	0.76	0.12	0.05	0.017	70	17	9.4	99.65	1726
North Beaver River YT I-27	3694.18	12120.0			Evie	40.09	2.96	4.34	0.57	1.33	0.30	0.58	0.12	0.06	0.04	0.020	46	3	N.A.	50.42	>50000
North Beaver River YT I-27	3697.22	12130.0			Evie	74.02	6.83	2.75	1.48	2.44	0.17	1.34	0.31	0.12	0.02	0.013	154	7	10.1	99.58	1364
North Beaver River YT I-27	3700.27	12140.0			Evie	73.15	7.96	3.14	1.82	2.65	0.21	1.44	0.34	0.11	0.02	0.010	130	8	8.7	99.57	1516
North Beaver River YT I-27	3706.37	12160.0			Evie	51.32	8.99	3.45	6.81	9.59	0.26	1.52	0.38	0.09	0.03	0.010	151	9	17.2	99.65	1247
North Beaver River YT I-27	3709.42	12170.0			Nahanni	55.76	15.46	6.68	2.72	4.55	0.48	2.26	0.65	0.25	0.06	0.016	67	16	10.8	99.65	1599
North Beaver River YT I-27	3712.46	12180.0			Nahanni	52.77	12.52	5.50	4.21	7.58	0.39	1.93	0.54	0.17	0.05	0.014	61	12	14.0	99.64	1538
Whitefish River	254.00	833.33			Banff - *shale*	76.72	7.63	2.80	0.60	0.25	0.11	1.94	0.38	0.03	0.01	0.014	30	7	9.2	99.69	814
Whitefish River	252.00	826.77			Banff - *shale*	84.77	6.49	0.59	0.35	0.02	0.04	1.59	0.28	0.02	<0.01	0.013	<20	5	5.6	99.79	1023
Whitefish River	250.00	820.21			Banff - *shale*	84.24	6.76	0.87	0.36	0.01	0.03	1.68	0.29	0.02	<0.01	0.013	<20	5	5.5	99.76	1293
Whitefish River	248.00	813.65			Banff - *shale*	81.53	8.96	0.65	0.49	0.02	0.05	2.25	0.39	0.02	<0.01	0.013	<20	7	5.4	99.75	1467

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	TiO2 (%)	P2O5 (%)	MnO (%)	Cr2O3 (%)	Ni (ppm)	Sc (ppm)	LOI (%)	Sum (%)	Ba (ppm)
						0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1
Whitefish River	246.00	807.09			Banff - *shale*	84.16	6.91	0.61	0.37	0.02	0.04	1.71	0.30	0.02	<0.01	0.012	<20	5	5.6	99.81	1203
Whitefish River	244.00	800.52			Banff - *shale*	80.90	8.77	0.76	0.48	0.02	0.05	2.20	0.43	0.01	<0.01	0.014	<20	7	6.2	99.79	1219
Whitefish River	242.00	793.96			Banff - *shale*	78.75	10.01	0.69	0.55	0.02	0.06	2.53	0.46	0.01	<0.01	0.014	<20	8	6.7	99.80	1165
Whitefish River	240.00	787.40			Banff - *shale*	78.30	10.22	0.62	0.54	0.01	0.06	2.54	0.43	0.01	<0.01	0.013	<20	9	7.1	99.82	1157
Whitefish River	238.00	780.84			Banff - *shale*	80.07	9.27	0.71	0.49	0.02	0.06	2.30	0.40	0.02	<0.01	0.012	<20	8	6.4	99.80	1141
Whitefish River	236.00	774.28			Banff - *shale*	84.18	6.49	0.73	0.34	0.02	0.04	1.62	0.28	0.01	<0.01	0.014	<20	6	6.0	99.77	1576
Whitefish River	234.00	767.72			Banff - *shale*	86.08	5.45	0.65	0.27	0.02	0.04	1.34	0.23	0.02	<0.01	0.015	<20	4	5.7	99.78	938
Whitefish River	232.00	761.15			Banff - *shale*	87.37	4.81	0.54	0.25	0.02	0.03	1.17	0.19	0.01	<0.01	0.020	<20	3	5.4	99.84	776
Whitefish River	230.00	754.59			Banff - *shale*	79.41	7.81	0.63	0.43	0.02	0.05	1.98	0.46	0.01	<0.01	0.014	<20	6	9.0	99.84	1026
Whitefish River	228.00	748.03			Banff - *shale*	84.23	6.51	0.57	0.34	0.02	0.04	1.60	0.30	0.01	<0.01	0.017	<20	4	6.1	99.79	979
Whitefish River	226.00	741.47			Banff - *shale*	84.90	5.65	0.61	0.30	0.02	0.04	1.38	0.27	0.03	<0.01	0.015	23	4	6.6	99.83	1009
Whitefish River	224.00	734.91			Banff - *shale*	88.54	4.40	0.52	0.25	0.02	0.02	1.08	0.19	0.01	<0.01	0.022	24	3	4.7	99.79	785
Whitefish River	222.00	728.35			Banff - *shale*	78.33	5.95	0.66	0.35	0.01	0.03	1.64	0.33	<0.01	<0.01	0.022	33	3	7.2	94.56	869
Whitefish River	220.00	721.78			Banff - *shale*	78.75	4.31	1.95	0.24	0.03	0.02	1.12	0.18	0.06	<0.01	0.018	27	3	6.3	92.93	589
Whitefish River	218.00	715.22			Banff - *carbonate*	82.63	3.87	0.77	0.22	0.02	0.02	0.98	0.16	0.01	<0.01	0.015	<20	3	5.5	94.23	675
Whitefish River	216.00	708.66			Banff - *carbonate*	72.75	9.12	2.76	0.72	0.29	0.12	2.46	0.44	0.04	0.01	0.015	48	7	11.1	99.83	762
Whitefish River	214.00	702.10			Banff - *carbonate*	84.20	6.73	0.65	0.37	0.02	0.03	1.66	0.31	<0.01	<0.01	0.017	30	5	5.9	99.88	733
Whitefish River	212.00	695.54			Banff - *carbonate*	83.90	7.51	0.48	0.41	0.02	0.03	1.76	0.30	0.03	<0.01	0.016	<20	5	5.3	99.77	794
Whitefish River	210.00	688.98			Banff - *carbonate*	78.84	10.03	1.20	0.56	0.02	0.04	2.47	0.40	0.04	<0.01	0.015	21	7	6.1	99.72	928
Whitefish River	208.00	682.41			Banff - *carbonate*	79.15	9.47	0.93	0.52	0.02	0.05	2.40	0.39	0.03	<0.01	0.015	<20	6	6.8	99.75	918
Whitefish River	206.00	675.85			Banff - *carbonate*	75.88	11.40	1.01	0.61	0.02	0.05	2.80	0.43	0.03	<0.01	0.015	31	8	7.5	99.74	966
Whitefish River	204.00	669.29			Banff - *carbonate*	75.92	11.79	0.88	0.63	0.01	0.04	2.87	0.47	0.01	<0.01	0.016	37	8	7.1	99.80	901
Whitefish River	202.00	662.73			Banff - *carbonate*	62.64	10.01	1.31	0.60	5.17	0.04	2.44	0.39	0.03	<0.01	0.018	56	7	11.2	93.81	1905
Whitefish River	200.00	656.17			Banff - *carbonate*	76.93	10.89	0.74	0.58	0.03	0.05	2.56	0.40	0.01	<0.01	0.016	26	7	7.6	99.75	905
Whitefish River	198.00	649.61			Exshaw	79.77	8.65	0.92	0.48	0.02	0.04	2.04	0.33	0.04	<0.01	0.016	38	6	7.4	99.74	802
Whitefish River	196.00	643.04			Exshaw	75.07	7.18	3.28	0.62	0.28	0.11	1.86	0.37	0.05	0.01	0.017	29	7	10.9	99.77	602
Whitefish River	194.00	636.48			Exshaw	80.09	3.95	0.95	0.22	0.02	0.02	0.96	0.18	0.01	<0.01	0.016	32	3	7.4	93.83	550
Whitefish River	192.00	629.92			Exshaw	78.75	4.77	0.75	0.27	0.01	0.02	1.18	0.27	0.02	<0.01	0.017	<20	4	8.0	94.08	674
Whitefish River	190.00	623.36			Exshaw	83.16	4.69	1.63	0.27	0.01	0.02	1.27	0.23	0.01	<0.01	0.016	37	4	8.5	99.85	558
Whitefish River	188.00	616.80			Exshaw	79.67	6.81	2.01	0.39	0.02	0.03	1.96	0.36	0.04	<0.01	0.018	27	7	8.5	99.82	849
Whitefish River	186.00	610.24			Exshaw	84.08	5.42	0.67	0.32	0.02	0.03	1.33	0.28	<0.01	<0.01	0.014	33	4	7.7	99.85	725
Whitefish River	184.00	603.67			Exshaw	76.91	6.18	4.39	0.34	0.01	0.03	1.64	0.30	0.13	<0.01	0.019	27	8	9.7	99.69	722
Whitefish River	182.00	597.11			Exshaw	81.75	4.93	1.33	0.31	0.01	0.02	1.31	0.26	0.01	<0.01	0.018	47	4	9.7	99.71	589
Whitefish River	180.00	590.55			Exshaw	82.93	3.17	2.16	0.20	0.01	0.02	1.04	0.19	0.08	<0.01	0.023	65	5	9.9	99.73	459
Whitefish River	178.00	583.99			Exshaw	78.70	3.78	1.03	0.25	0.01	0.02	0.97	0.25	0.04	<0.01	0.018	69	3	9.3	94.34	461
Whitefish River	176.00	577.43			Exshaw	85.83	2.70	1.38	0.16	0.02	0.02	0.87	0.21	0.05	<0.01	0.018	32	3	8.4	99.70	717
Whitefish River	174.00	570.87			Exshaw	83.20	3.70	1.51	0.24	0.03	0.02	1.03	0.22	0.07	<0.01	0.019	53	5	9.6	99.64	943
Whitefish River	172.00	564.30			Exshaw	81.66	3.72	2.50	0.24	0.04	0.02	1.04	0.25	0.01	<0.01	0.022	55	4	10.1	99.65	596
Whitefish River	170.00	557.74			Exshaw	83.70	4.10	1.16	0.27	0.04	0.02	1.06	0.29	0.01	<0.01	0.022	58	5	9.0	99.62	543
Whitefish River	168.00	551.18			Exshaw	81.11	4.83	0.68	0.31	0.04	0.02	1.22	0.27	<0.01	<0.01	0.024	63	6	11.1	99.62	649
Whitefish River	166.00	544.62			Exshaw	84.09	3.24	1.12	0.20	0.04	0.03	0.88	0.29	<0.01	<0.01	0.012	62	4	9.9	99.79	723
Whitefish River	164.00	538.06			Exshaw	82.60	4.30	1.21	0.29	0.06	0.03	1.06	0.35	0.01	<0.01	0.018	62	5	9.8	99.76	623
Whitefish River	162.00	531.50			Exshaw	86.35	2.95	1.05	0.20	0.05	0.01	0.75	0.18	<0.01	<0.01	0.016	38	4	8.3	99.83	490
Whitefish River	160.00	524.93			Exshaw	84.26	3.74	0.86	0.23	0.06	0.02	0.96	0.21	0.03	<0.01	0.019	43	5	9.3	99.74	619
Whitefish River	158.00	518.37			Patry	84.48	2.37	0.87	0.15	0.05	0.01	0.61	0.16	<0.01	<0.01	0.014	<20	3	5.2	93.93	491
Whitefish River	156.00	511.81			Patry	88.75	3.18	0.96	0.20	0.07	0.02	0.84	0.20	0.02	<0.01	0.018	29	3	5.6	99.84	401
Whitefish River	154.00	505.25			Patry	89.82	3.26	0.92	0.19	0.06	0.02	0.81	0.14	0.04	<0.01	0.018	<20	4	4.6	99.84	447
Whitefish River	152.00	498.69			Patry	89.43	3.23	0.52	0.21	0.04	0.02	0.83	0.14	0.03	<0.01	0.021	32	3	5.3	99.82	411
Whitefish River	150.00	492.13			Patry	86.86	3.46	1.29	0.22	0.04	0.02	0.96	0.15	0.05	<0.01	0.015	44	3	6.7	99.75	479
Whitefish River	148.00	485.56			Patry	86.65	4.28	0.66	0.27	0.06	0.02	1.10	0.21	0.02	<0.01	0.018	44	3	6.5	99.77	461
Whitefish River	146.00	479.00			Patry	74.31	3.43	1.56	1.20	2.04	0.72	0.91	0.15	0.11	<0.01	0.012	35	3	15.4	99.85	331
Whitefish River	144.00	472.44			Patry	85.34	3.15	2.14	0.20	0.04	0.02	1.05	0.14	0.12	<0.01	0.021	39	4	7.6	99.80	459
Whitefish River	142.00	465.88			Patry	89.60	2.85	0.72	0.17	0.04	0.02	0.76	0.15	0.05	<0.01	0.015	29	3	5.5	99.86	430
Whitefish River	140.00	459.32			Patry	87.61	3.43	0.96	0.20	0.04	0.02	0.90	0.16	0.05	<0.01	0.018	31	7	6.5	99.87	360
Whitefish River	138.00	452.76			Patry	87.80	3.44	1.00	0.21	0.03	0.02	0.93	0.17	0.02	<0.01	0.014	28	3	6.2	99.86	415
Whitefish River	136.00	446.19			Patry	85.28	4.59	0.89	0.28	0.02	0.03	1.25	0.29	0.04	<0.01	0.015	32	4	7.2	99.84	562

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	MgO (%)	CaO (%)	Na2O (%)	K2O (%)	TiO2 (%)	P2O5 (%)	MnO (%)	Cr2O3 (%)	Ni (ppm)	Sc (ppm)	LOI (%)	Sum (%)	Ba (ppm)
						0.01	**0.01**	**0.04**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.002**	**20**	**1**	**-5.1**	**0.01**	**1**
Whitefish River	134.00	439.63			Patry	85.42	4.15	1.44	0.26	0.02	0.02	1.18	0.22	0.03	<0.01	0.019	26	4	7.1	99.84	448
Whitefish River	132.00	433.07			Patry	88.46	3.28	0.61	0.20	0.02	0.02	0.84	0.16	0.04	<0.01	0.016	27	4	6.2	99.84	403
Whitefish River	130.00	426.51			Patry	83.75	5.71	0.93	0.35	0.02	0.03	1.41	0.28	0.03	<0.01	0.015	31	5	7.3	99.81	496
Whitefish River	128.00	419.95			Patry	79.93	6.93	1.60	0.42	0.01	0.03	1.90	0.34	0.04	<0.01	0.015	32	10	8.6	99.80	542
Whitefish River	126.00	413.39			Patry	80.20	7.30	1.41	0.46	0.02	0.03	1.95	0.34	0.04	<0.01	0.012	24	6	8.0	99.80	699
Whitefish River	124.00	406.82			Fort Simpson - *undif.*	82.39	7.04	0.63	0.45	0.03	0.03	1.80	0.34	0.02	<0.01	0.015	29	5	7.1	99.79	702
Whitefish River	122.00	400.26			Fort Simpson - *undif.*	84.30	5.41	0.68	0.34	0.03	0.03	1.38	0.27	0.04	<0.01	0.019	27	4	7.3	99.80	542
Whitefish River	120.00	393.70			Fort Simpson - *undif.*	83.69	5.38	1.32	0.33	0.02	0.03	1.44	0.31	0.05	<0.01	0.017	20	6	7.3	99.83	486
Whitefish River	118.00	387.14			Fort Simpson - *undif.*	80.86	7.22	1.21	0.44	0.01	0.04	1.94	0.35	0.03	<0.01	0.018	23	6	7.7	99.83	522
Whitefish River	116.00	380.58			Fort Simpson - *undif.*	81.41	7.22	1.07	0.44	0.02	0.03	1.88	0.33	0.04	<0.01	0.016	24	6	7.4	99.84	474
Whitefish River	114.00	374.02			Fort Simpson - *undif.*	80.81	6.89	1.36	0.43	0.02	0.03	1.84	0.32	0.05	<0.01	0.017	26	6	8.1	99.84	489
Whitefish River	112.00	367.45			Fort Simpson - *undif.*	88.20	3.47	0.55	0.22	0.01	0.02	0.90	0.17	0.04	<0.01	0.015	<20	3	6.3	99.87	369
Whitefish River	110.00	360.89			Fort Simpson - *undif.*	83.48	4.97	1.54	0.30	0.02	0.02	1.29	0.22	0.11	<0.01	0.021	29	8	7.9	99.82	397
Whitefish River	108.00	354.33			Fort Simpson - *undif.*	85.25	5.19	0.67	0.32	0.02	0.02	1.31	0.24	0.01	<0.01	0.019	<20	4	6.8	99.85	364
Whitefish River	106.00	347.77			Fort Simpson - *undif.*	73.41	7.15	3.32	0.65	0.27	0.11	1.94	0.37	0.09	0.01	0.020	43	8	12.5	99.81	395
Whitefish River	104.00	341.21			Fort Simpson - *undif.*	85.06	4.42	1.57	0.27	0.03	0.02	1.20	0.22	0.06	<0.01	0.023	27	4	6.9	99.82	358
Whitefish River	102.00	334.65			Fort Simpson - *undif.*	88.81	2.68	1.19	0.17	0.02	0.02	0.74	0.12	0.06	<0.01	0.023	24	3	6.0	99.85	281
Whitefish River	100.00	328.08			Fort Simpson - *undif.*	90.00	2.14	1.04	0.13	0.02	0.02	0.58	0.09	0.06	<0.01	0.024	<20	2	5.8	99.88	231
Whitefish River	98.00	321.52			Fort Simpson - *undif.*	91.10	2.14	0.88	0.14	0.03	0.02	0.56	0.09	0.04	<0.01	0.026	<20	2	4.9	99.88	224
Whitefish River	96.00	314.96			Fort Simpson - *undif.*	84.07	3.51	2.28	0.22	0.02	0.02	1.03	0.17	0.12	<0.01	0.022	26	4	8.3	99.79	354
Whitefish River	94.00	308.40			Fort Simpson - *undif.*	86.65	3.06	1.28	0.21	0.02	0.01	0.90	0.17	0.05	<0.01	0.021	22	4	7.4	99.82	295
Whitefish River	92.00	301.84			Fort Simpson - *undif.*	89.26	2.48	0.96	0.16	0.03	0.02	0.68	0.12	0.06	<0.01	0.019	<20	4	6.1	99.86	234
Whitefish River	90.00	295.28			Fort Simpson - *undif.*	86.94	3.42	0.98	0.24	0.03	0.02	0.95	0.16	0.05	<0.01	0.020	<20	4	7.0	99.82	294
Whitefish River	88.00	288.71			Fort Simpson - *undif.*	90.58	2.39	0.81	0.16	0.03	0.01	0.62	0.09	0.05	<0.01	0.023	<20	2	5.1	99.87	234
Whitefish River	58.00	190.29			*unknown*	87.92	3.28	1.24	0.23	0.11	0.02	0.81	0.15	0.08	<0.01	0.025	<20	4	6.0	99.85	351
Whitefish River	56.00	183.73			*unknown*	86.31	2.98	2.20	0.41	0.42	0.02	0.73	0.13	0.14	<0.01	0.020	115	4	6.4	99.80	267
Whitefish River	54.00	177.17			*unknown*	87.34	3.30	1.92	0.24	0.17	0.03	0.81	0.16	0.18	<0.01	0.022	86	4	5.6	99.79	364
Whitefish River	13.00	42.65			*unknown*	89.24	3.66	0.73	0.25	0.26	0.02	0.83	0.15	0.16	<0.01	0.006	52	4	4.5	99.81	221
Whitefish River	11.00	36.09			*unknown*	88.13	3.09	1.42	0.54	0.66	0.03	0.74	0.13	0.15	<0.01	0.024	82	4	4.9	99.82	224
Whitefish River	9.00	29.53			*unknown*	90.67	2.80	1.00	0.21	0.22	0.02	0.67	0.12	0.11	<0.01	0.004	57	3	4.0	99.86	203
Whitefish River	7.00	22.97			*unknown*	89.75	2.89	1.08	0.27	0.43	0.02	0.61	0.11	0.15	0.01	0.004	98	4	4.5	99.82	211
Whitefish River	5.00	16.40			*unknown*	90.97	2.06	1.87	0.24	0.34	0.04	0.49	0.08	0.12	<0.01	0.026	75	3	3.6	99.85	222
Whitefish River	3.00	9.84			*unknown*	90.17	2.56	0.88	0.28	0.41	0.02	0.65	0.10	0.12	<0.01	0.005	52	3	4.6	99.81	226
Whitefish River	1.00	3.28			*unknown*	90.60	2.34	0.93	0.42	0.62	0.02	0.60	0.09	0.12	<0.01	0.004	50	3	4.1	99.85	190

Notes:

Limit of detection provided in bold text under oxide/element column header.

Stratigraphy highlighted in blue is that assessed by the NEB (2016) for unconventional resources

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Be (ppm)	Co (ppm)	Cs (ppm)	Ga (ppm)	Hf (ppm)	Nb (ppm)	Rb (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Th (ppm)	U (ppm)	V (ppm)	W (ppm)	Zr (ppm)	Y (ppm)
						1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
Beaver YT G-01	3529.58	11580.0			Banff - *carbonate*	2	15.8	5.9	18.6	3.1	9.5	121.8	2	221.3	0.6	9.7	5.3	319	1.2	107.9	35.9
Beaver YT G-01	3535.68	11600.0			Exshaw	2	14.8	7.0	17.7	2.9	9.3	121.0	2	206.7	0.6	8.9	5.9	414	1.2	104.1	30.8
Beaver YT G-01	3544.82	11630.0			Exshaw	2	14.7	6.2	17.3	2.6	8.8	118.3	2	161.7	0.6	8.6	9.4	901	1.3	102.2	32.7
Beaver YT G-01	3550.92	11650.0			Exshaw	<1	14.6	7.4	18.1	2.7	9.0	122.4	2	180.0	0.6	8.9	9.2	717	1.1	104.5	41.0
Beaver YT G-01	3557.02	11670.0			Exshaw	2	17.4	7.7	19.7	3.3	10.0	138.7	2	151.7	0.8	9.9	5.2	475	1.5	117.5	25.6
Beaver YT G-01	3563.11	11690.0			Exshaw	<1	14.7	7.4	18.0	2.6	9.3	124.1	2	137.0	0.7	8.6	6.7	755	1.4	102.5	25.0
Beaver YT G-01	3569.21	11710.0			Exshaw	2	12.5	6.4	14.4	2.3	8.2	104.3	2	114.7	0.5	7.3	8.2	903	1.3	90.5	23.0
Beaver YT G-01	3575.30	11730.0			Exshaw	1	12.5	5.6	15.0	2.2	7.7	104.3	2	103.2	0.6	7.8	8.0	840	1.1	87.0	21.5
Beaver YT G-01	3581.40	11750.0			Exshaw	<1	11.5	5.9	12.7	2.2	7.7	97.3	2	107.4	0.5	7.4	8.3	869	1.1	84.3	22.5
Beaver YT G-01	3587.50	11770.0			Exshaw	2	12.1	6.1	14.5	2.2	7.0	100.8	1	131.2	0.5	7.1	7.6	844	1.3	82.5	24.5
Beaver YT G-01	3593.59	11790.0			Exshaw	3	11.5	5.9	13.7	2.1	6.9	95.3	2	108.7	0.5	6.6	7.6	697	1.2	80.3	21.4
Beaver YT G-01	3599.69	11810.0			Exshaw	2	10.4	4.6	11.4	1.8	6.5	85.0	1	99.2	0.4	5.2	9.5	754	0.7	69.8	20.5
Beaver YT G-01	3605.78	11830.0			Exshaw	1	10.8	4.8	11.3	1.9	5.8	78.9	1	94.6	0.5	5.2	11.3	724	0.9	63.0	18.8
Beaver YT G-01	3611.88	11850.0			Exshaw	<1	9.0	4.4	9.6	1.5	5.4	72.5	1	92.8	0.4	4.9	11.6	645	1.1	59.6	21.2
Beaver YT G-01	3617.98	11870.0			Exshaw	<1	11.9	4.5	12.6	2.1	6.4	86.5	1	111.9	0.5	6.7	9.4	475	1.6	76.6	21.8
Beaver YT G-01	3621.02	11880.0			Exshaw	<1	12.1	4.5	12.1	1.9	8.3	80.8	1	113.6	0.4	6.0	9.6	462	2.6	74.3	21.1
Beaver YT G-01	3624.07	11890.0			Exshaw	1	11.5	4.5	11.0	2.0	6.4	79.6	1	116.3	0.5	6.4	9.3	520	0.9	72.2	23.5
Beaver YT G-01	3627.12	11900.0			Exshaw	<1	12.6	4.9	12.5	2.4	6.9	86.7	2	122.5	0.5	6.9	11.5	484	1.1	78.1	24.0
Beaver YT G-01	3630.17	11910.0			Exshaw	<1	11.1	3.8	10.0	1.8	5.6	67.0	1	122.2	0.4	5.3	12.1	423	0.7	66.8	20.7
Beaver YT G-01	3633.22	11920.0			Exshaw	3	10.5	3.9	9.3	1.8	5.7	69.5	<1	140.9	0.4	5.3	10.8	412	1.1	70.0	20.8
Beaver YT G-01	3636.26	11930.0			Exshaw	<1	12.5	4.0	9.7	1.7	5.6	65.7	2	107.0	0.4	5.4	12.6	239	1.7	65.6	19.5
Beaver YT G-01	3642.36	11950.0			Exshaw	<1	12.6	3.6	8.8	1.8	6.0	67.1	2	116.9	0.5	6.5	13.1	227	1.0	65.6	18.5
Beaver YT G-01	3645.41	11960.0			Patry	<1	11.1	2.7	6.1	1.2	4.2	46.3	<1	89.5	0.3	3.6	15.5	191	1.0	44.1	17.5
Beaver YT G-01	3648.46	11970.0			Patry	<1	12.0	2.9	6.8	1.3	4.8	48.3	<1	96.1	0.3	3.9	17.5	207	1.3	48.0	17.6
Beaver YT G-01	3651.50	11980.0			Patry	<1	12.0	3.0	6.1	1.4	4.3	47.1	1	104.0	0.3	4.1	16.8	206	0.6	48.2	17.0
Beaver YT G-01	3654.55	11990.0			Patry	1	11.2	2.8	6.3	1.2	3.9	46.9	<1	110.6	0.2	3.5	16.1	216	1.0	46.2	16.6
Beaver YT G-01	3657.60	12000.0			Patry	<1	12.0	2.3	5.4	1.1	3.6	43.2	<1	106.1	0.2	3.3	15.5	229	0.8	43.0	16.2
Beaver YT G-01	3660.65	12010.0			Patry	1	9.9	2.2	5.3	1.1	4.0	40.8	<1	95.6	0.2	3.3	15.9	215	0.8	43.7	16.3
Beaver YT G-01	3663.70	12020.0			Patry	2	8.9	2.2	4.7	0.9	3.3	37.5	<1	81.5	0.2	2.7	13.7	230	0.6	37.8	14.3
Beaver YT G-01	3666.74	12030.0			Patry	2	10.3	2.4	5.5	1.5	4.5	43.4	<1	99.3	0.2	3.5	13.2	213	1.3	49.3	16.2
Beaver YT G-01	3669.79	12040.0			Patry	<1	10.6	2.5	5.9	1.4	4.3	44.0	<1	89.6	0.3	3.7	14.8	203	0.8	50.7	16.6
Beaver YT G-01	3672.84	12050.0			Patry	2	10.8	2.8	6.5	1.5	5.4	50.4	<1	106.1	0.4	4.2	12.9	204	0.7	56.7	18.6
Beaver YT G-01	3675.89	12060.0			Patry	<1	11.1	3.1	6.9	1.5	4.8	53.4	1	91.0	0.4	4.4	14.2	216	0.7	58.1	18.1
Beaver YT G-01	3678.94	12070.0			Patry	<1	11.8	3.2	6.3	1.7	5.6	53.9	<1	96.1	0.3	4.6	12.1	165	0.7	60.0	17.9
Beaver YT G-01	3681.98	12080.0			Patry	3	12.9	3.7	8.7	2.0	5.9	62.6	2	96.8	0.4	5.1	12.4	208	1.2	73.0	18.6
Beaver YT G-01	3685.03	12090.0			Patry	2	11.6	3.6	9.9	2.0	6.5	69.3	1	102.6	0.3	5.3	9.8	206	1.1	76.6	18.6
Beaver YT G-01	3688.08	12100.0			Patry	<1	11.4	4.1	9.2	1.9	6.4	66.9	1	91.6	0.4	5.1	9.2	163	0.6	81.3	20.2
Beaver YT G-01	3691.13	12110.0			Patry	3	12.3	4.1	9.7	2.0	6.2	71.4	1	93.6	0.4	5.2	10.0	172	0.8	79.7	21.0
Beaver YT G-01	3694.18	12120.0			Patry	1	12.1	4.2	10.0	2.2	6.7	74.9	1	73.8	0.4	5.9	8.9	154	1.1	83.0	21.7
Beaver YT G-01	3697.22	12130.0			Patry	<1	11.1	3.8	9.8	2.0	6.2	74.3	<1	161.2	0.4	5.5	7.8	188	1.1	76.3	17.8
Beaver YT G-01	3700.27	12140.0			Patry	<1	10.9	4.4	10.1	1.8	6.3	74.6	<1	127.4	0.4	5.2	7.3	177	1.1	75.3	20.5
Beaver YT G-01	3703.32	12150.0			Patry	<1	11.1	3.6	9.0	1.9	5.6	67.7	<1	91.1	0.4	5.3	25.7	225	1.1	70.0	39.0
Beaver YT G-01	3706.37	12160.0			Patry	<1	11.2	4.3	11.7	2.0	6.7	82.0	2	106.8	0.4	6.1	5.4	206	1.3	80.0	19.0
Beaver YT G-01	3709.42	12170.0			Patry	<1	10.4	4.0	11.7	2.0	6.5	80.4	1	87.1	0.4	5.8	6.2	212	1.3	73.2	17.0
Beaver YT G-01	3712.46	12180.0			Fort Simpson - *upper*	<1	8.6	4.5	10.1	1.5	5.7	76.8	1	110.9	0.3	5.0	8.7	196	<0.5	61.5	17.3
Beaver YT G-01	3715.51	12190.0			Fort Simpson - *upper*	<1	11.8	6.2	14.0	2.1	7.2	107.9	2	175.7	0.5	6.7	7.5	233	1.0	83.6	18.6
Beaver YT G-01	3718.56	12200.0			Fort Simpson - *upper*	4	14.7	7.0	15.9	2.5	8.0	121.5	2	136.0	0.7	7.6	6.6	239	1.4	94.7	20.0
Beaver YT G-01	3934.97	12910.0			Fort Simpson - *lower*	5	14.4	7.5	16.7	2.8	8.8	135.6	2	99.2	0.6	8.9	5.4	442	1.8	108.0	21.7
Beaver YT G-01	3941.06	12930.0			Fort Simpson - *lower*	2	12.9	6.3	14.5	3.1	8.7	123.3	2	103.5	0.5	8.3	7.0	565	1.7	104.3	20.8
Beaver YT G-01	3944.11	12940.0			Muskwa	<1	14.9	7.6	18.3	3.1	10.1	148.6	2	130.1	0.8	9.8	5.0	307	1.0	121.2	24.9
Beaver YT G-01	3947.16	12950.0			Muskwa	1	15.0	7.8	17.7	3.1	9.6	143.1	2	146.5	0.7	9.5	4.0	261	1.8	114.5	22.3
Beaver YT G-01	3953.26	12970.0			Muskwa	1	10.4	5.4	11.7	2.3	7.3	102.6	2	102.5	0.4	6.5	15.7	518	1.9	89.3	23.3
Beaver YT G-01	3962.40	13000.0			Muskwa	<1	11.3	4.7	11.3	2.1	6.6	89.0	1	91.4	0.4	5.7	14.9	393	1.4	78.7	21.4
Beaver YT G-01	3968.50	13020.0			Muskwa	<1	15.3	6.6	17.4	3.4	10.6	128.0	3	125.4	0.9	9.5	8.2	373	2.0	113.0	27.8
Beaver YT G-01	3977.64	13050.0			Muskwa	<1	9.8	3.8	9.9	1.9	10.0	76.1	1	70.0	0.8	6.1	12.1	216	1.3	74.7	20.3
Beaver YT G-01	3980.69	13060.0			Muskwa	<1	11.9	4.5	11.6	2.2	11.8	81.3	2	82.8	0.7	6.7	10.5	262	13.1	86.2	21.0

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Be (ppm)	Co (ppm)	Cs (ppm)	Ga (ppm)	Hf (ppm)	Nb (ppm)	Rb (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Th (ppm)	U (ppm)	V (ppm)	W (ppm)	Zr (ppm)	Y (ppm)
						1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
Beaver YT G-01	3983.74	13070.0			Otter Park	4	11.2	4.4	11.2	2.2	7.1	79.6	1	76.8	0.5	6.1	8.2	243	1.2	82.5	18.7
Beaver YT G-01	3995.93	13110.0			Otter Park	2	11.2	3.6	10.6	2.1	8.1	76.3	1	85.9	0.5	6.2	8.1	185	1.2	73.8	19.0
Beaver YT G-01	4008.12	13150.0			Otter Park	2	13.9	4.5	11.1	2.2	8.5	86.2	1	81.0	0.4	6.8	8.4	164	0.8	76.0	17.5
Beaver YT G-01	4020.31	13190.0			Otter Park	<1	15.4	5.5	11.9	2.3	8.5	97.1	2	83.5	0.6	7.3	8.6	174	1.1	85.4	20.7
Beaver YT G-01	4023.36	13200.0			Otter Park	<1	14.7	5.6	12.4	2.3	10.9	99.7	2	75.5	0.9	7.7	8.8	184	0.9	83.1	20.3
Beaver YT G-01	4029.46	13220.0			Otter Park	<1	14.6	5.4	12.8	2.2	7.9	101.9	1	83.1	0.6	8.0	6.9	185	1.2	84.8	21.5
Beaver YT G-01	4038.60	13250.0			Otter Park	<1	12.2	3.8	10.1	1.9	6.6	77.4	1	80.2	0.5	5.7	13.2	177	1.2	68.5	21.7
Beaver YT G-01	4047.74	13280.0			Otter Park	<1	9.6	2.6	7.6	1.7	5.6	58.9	1	78.1	0.5	5.0	11.7	386	0.9	69.1	21.9
Beaver YT G-01	4050.79	13290.0			Otter Park	<1	9.5	2.6	8.2	1.8	5.3	56.7	<1	84.1	0.5	4.5	12.4	378	1.0	62.2	20.8
Beaver YT G-01	4053.84	13300.0			Evie	<1	11.5	4.1	10.0	2.2	7.4	77.9	1	82.2	0.7	5.8	11.3	365	1.8	89.3	20.8
Beaver YT G-01	4059.94	13320.0			Evie	<1	9.9	3.8	10.3	1.9	9.7	77.6	1	94.7	0.7	5.8	9.2	322	1.2	72.0	21.0
Beaver YT G-01	4069.08	13350.0			Evie	<1	8.3	3.1	8.7	1.7	5.9	62.1	1	133.2	0.5	4.9	7.4	364	0.6	57.7	18.9
Beaver YT G-01	4084.32	13400.0			Evie	<1	7.4	2.8	7.7	1.4	6.7	59.2	<1	102.1	0.4	4.5	8.8	416	1.9	52.7	19.8
Beaver YT G-01	4093.46	13430.0			Evie	<1	7.4	2.7	6.6	1.7	5.5	51.7	1	119.0	0.6	3.8	14.8	736	6.8	61.7	24.8
Beaver YT G-01	4102.61	13460.0			Evie	<1	7.0	2.5	7.9	1.6	6.5	54.8	1	79.3	0.5	4.4	20.6	644	1.6	60.7	22.4
Beaver YT G-01	4105.66	13470.0			Evie	<1	5.2	2.2	6.9	1.3	4.1	45.3	<1	57.6	0.4	3.5	20.7	613	3.1	51.9	16.2
Beaver YT G-01	4108.70	13480.0			Evie	<1	5.8	1.8	6.4	1.1	4.7	42.3	<1	39.6	0.3	3.6	16.0	452	3.8	48.2	12.4
Beaver YT G-01	4111.75	13490.0			Nahanni	<1	6.5	2.0	6.7	1.2	5.9	44.7	1	36.5	0.5	4.0	16.8	459	10.0	48.8	11.9
Beaver YT G-01	4114.80	13500.0			Nahanni	<1	6.2	2.7	6.9	1.5	4.9	51.6	2	36.3	0.3	4.2	14.5	408	2.4	52.4	10.2
Beaver YT G-01	4123.94	13530.0			Nahanni	2	8.5	3.2	9.1	1.8	5.5	66.8	<1	70.6	0.3	5.4	7.1	259	1.0	62.5	11.9
Beavercrow YT B-16	1453.90	4770.0			Exshaw	4	15.4	7.6	18.3	3.5	24.8	78.1	2	306.5	1.6	12.0	6.3	318	1.6	125.8	40.6
Beavercrow YT B-16	1463.04	4800.0			Exshaw	<1	13.4	7.7	19.6	3.4	21.7	82.3	2	252.2	1.4	13.0	4.8	325	1.5	117.4	34.1
Beavercrow YT B-16	1469.14	4820.0			Exshaw	2	14.2	6.4	15.7	3.1	25.5	76.3	2	252.6	1.6	10.6	5.0	323	2.0	114.2	33.2
Beavercrow YT B-16	1478.28	4850.0			Exshaw	<1	13.7	5.4	11.4	2.1	9.2	65.9	2	138.8	0.7	7.2	7.5	378	2.0	67.6	25.8
Beavercrow YT B-16	1487.42	4880.0			Exshaw	<1	5.5	6.7	11.1	1.6	6.7	86.4	1	69.3	0.4	6.7	15.1	1515	2.2	63.0	34.5
Beavercrow YT B-16	1496.57	4910.0			Exshaw	2	4.3	5.0	9.0	1.3	5.1	63.4	1	47.5	0.2	5.4	13.9	942	2.0	52.8	20.7
Beavercrow YT B-16	1505.71	4940.0			Patry	<1	3.3	3.5	7.8	1.3	5.7	51.2	<1	38.5	0.4	4.2	11.6	414	2.1	49.9	15.1
Beavercrow YT B-16	1511.81	4960.0			Patry	<1	5.8	3.1	6.9	1.1	4.3	47.7	1	34.3	0.3	3.9	12.4	232	1.2	42.2	13.0
Beavercrow YT B-16	1514.86	4970.0			Patry	3	5.4	3.3	8.5	1.3	4.2	47.5	<1	33.7	0.4	3.7	12.5	233	1.9	44.1	13.6
Beavercrow YT B-16	1520.95	4990.0			Patry	<1	4.7	3.3	7.2	1.1	4.2	45.2	<1	36.3	0.3	4.0	10.4	260	1.5	42.6	14.5
Beavercrow YT B-16	1524.00	5000.0			Patry	<1	4.6	3.1	6.9	1.0	4.4	45.0	<1	36.0	0.2	3.8	10.4	266	1.1	40.5	15.1
Beavercrow YT B-16	1533.14	5030.0			Patry	5	5.6	3.8	8.7	1.4	6.0	61.4	4	43.6	0.6	5.4	10.1	209	2.5	54.0	17.6
Beavercrow YT B-16	1542.29	5060.0			Patry	<1	5.8	3.6	9.6	1.1	4.3	59.5	1	33.6	0.2	4.0	7.4	157	1.6	42.2	16.1
Beavercrow YT B-16	1548.38	5080.0			Patry	6	4.6	5.4	12.2	1.7	6.2	91.4	2	37.8	0.4	6.0	7.9	223	1.4	63.1	16.4
Beavercrow YT B-16	1551.43	5090.0			Fort Simpson - *upper*	<1	6.1	7.2	13.9	1.8	6.6	99.8	2	40.3	0.5	7.1	6.7	259	1.5	66.5	16.9
Beavercrow YT B-16	1554.48	5100.0			Fort Simpson - *upper*	<1	5.4	7.3	14.2	1.7	6.2	108.6	2	41.8	0.4	6.2	5.3	251	1.5	63.9	16.7
Beavercrow YT B-16	1563.62	5130.0			Fort Simpson - *middle*	6	6.5	5.4	11.7	1.4	5.8	83.5	2	39.0	0.3	5.4	6.3	264	1.3	57.3	17.6
Beavercrow YT K-02	972.31	3190.0			Banff - *carbonate*	2	12.7	6.4	14.2	2.2	7.3	97.8	1	162.1	0.5	6.9	5.8	504	1.8	80.2	25.8
Beavercrow YT K-02	993.65	3260.0			Exshaw	<1	6.2	5.5	11.6	1.8	5.7	96.0	1	78.2	0.3	5.4	10.6	1370	3.5	66.6	19.1
Beavercrow YT K-02	999.74	3280.0			Exshaw	<1	6.6	5.4	11.2	1.7	5.2	92.7	<1	100.4	0.3	4.9	12.1	1408	1.5	60.1	20.4
Beavercrow YT K-02	1005.84	3300.0			Exshaw	<1	5.9	4.3	9.1	1.4	5.0	73.6	1	84.3	0.2	4.1	9.2	1194	9.9	52.5	16.5
Beavercrow YT K-02	1011.94	3320.0			Exshaw	3	11.8	2.7	8.4	1.3	4.5	54.8	1	72.0	0.3	4.0	9.9	729	2.0	45.5	17.7
Beavercrow YT K-02	1018.03	3340.0			Exshaw	<1	5.6	2.4	5.8	0.9	3.1	42.1	<1	69.7	0.2	2.5	10.7	547	1.3	32.0	13.0
Beavercrow YT K-02	1024.13	3360.0			Exshaw	<1	8.4	3.3	8.6	1.4	4.5	59.3	1	70.0	0.3	4.0	13.2	533	2.1	48.9	21.1
Beavercrow YT K-02	1033.27	3390.0			Exshaw	<1	4.9	2.2	5.2	0.8	2.8	39.0	<1	50.0	0.2	2.4	10.1	510	1.0	29.8	11.9
Beavercrow YT K-02	1039.37	3410.0			Exshaw	<1	5.2	2.3	5.9	1.0	3.3	41.0	<1	80.1	0.3	2.5	9.7	534	0.7	36.1	12.9
Beavercrow YT K-02	1045.46	3430.0			Patry	<1	5.6	2.6	6.2	0.9	3.6	45.6	<1	59.4	0.2	2.9	13.9	476	1.3	36.2	17.0
Beavercrow YT K-02	1051.56	3450.0			Patry	2	8.3	2.9	7.9	1.3	4.8	54.6	1	123.8	0.3	4.0	13.1	364	6.7	49.4	21.8
Beavercrow YT K-02	1057.66	3470.0			Patry	<1	7.6	2.5	6.3	1.0	3.6	45.3	<1	54.4	0.3	3.3	10.6	188	1.4	35.8	13.1
Beavercrow YT K-02	1063.75	3490.0			Patry	3	9.3	2.5	6.4	1.2	3.7	44.4	<1	102.7	0.3	3.7	11.9	215	70.3	39.8	14.3
Beavercrow YT K-02	1069.85	3510.0			Patry	2	10.0	2.6	7.1	1.1	4.5	44.3	<1	56.9	0.3	3.9	11.8	211	2.2	45.7	16.5
Beavercrow YT K-02	1075.94	3530.0			Patry	1	8.4	2.2	6.2	1.2	3.8	40.6	<1	65.2	0.3	4.3	10.2	243	1.1	39.5	15.4
Beavercrow YT K-02	1082.04	3550.0			Patry	1	9.1	2.7	7.9	1.3	4.8	47.4	<1	72.8	0.2	4.4	10.5	225	1.5	50.1	17.9
Beavercrow YT K-02	1088.14	3570.0			Patry	<1	9.2	2.8	7.6	1.2	4.6	47.3	<1	78.6	0.3	3.8	9.6	192	29.1	45.6	18.2
Beavercrow YT K-02	1094.23	3590.0			Patry	<1	10.0	3.0	7.4	1.3	4.5	52.4	1	81.6	0.3	4.1	9.0	146	1.9	51.4	18.9
Beavercrow YT K-02	1106.42	3630.0			Patry	<1	7.9	3.1	8.2	1.4	4.9	59.2	<1	60.6	0.2	4.1	6.6	163	1.2	48.8	17.9

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Be (ppm)	Co (ppm)	Cs (ppm)	Ga (ppm)	Hf (ppm)	Nb (ppm)	Rb (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Th (ppm)	U (ppm)	V (ppm)	W (ppm)	Zr (ppm)	Y (ppm)
						1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
Beavercrow YT K-02	1112.52	3650.0			Patry	2	8.1	3.3	9.5	1.6	5.6	61.6	1	67.9	0.4	5.3	4.8	219	1.5	56.8	17.6
Beavercrow YT K-02	1118.62	3670.0			Patry	3	9.7	4.0	12.9	1.8	7.0	70.7	1	74.0	0.4	7.0	6.8	230	2.2	68.5	21.3
Beavercrow YT K-02	1124.71	3690.0			Patry	3	9.4	4.4	10.7	1.5	5.2	74.2	1	98.8	0.3	4.8	6.7	201	2.3	58.2	16.4
Beavercrow YT K-02	1136.90	3730.0			Fort Simpson - *upper*	3	14.5	6.9	15.4	2.1	7.5	109.1	2	163.9	0.5	7.9	4.4	234	1.5	80.5	21.9
Beavercrow YT K-02	1143.00	3750.0			Fort Simpson - *upper*	2	12.8	5.8	16.4	2.1	9.3	105.0	2	91.3	0.5	7.9	4.1	244	2.0	80.8	18.7
Beavercrow YT K-02	1152.14	3780.0			Fort Simpson - *upper*	3	10.3	5.0	13.7	1.7	6.8	82.1	1	71.7	0.4	6.8	5.1	223	2.2	64.1	17.6
Beavercrow YT K-02	1158.24	3800.0			Fort Simpson - *upper*	3	10.2	5.8	14.5	1.8	7.1	102.7	2	99.4	0.4	6.3	4.9	254	1.3	66.4	16.4
Beavercrow YT K-02	1167.38	3830.0			Fort Simpson - *upper*	2	12.0	6.7	18.2	2.3	9.1	108.3	2	112.1	0.7	9.7	5.5	329	2.4	87.3	24.0
Beavercrow YT K-02	1258.82	4130.0			Fort Simpson - *lower*	<1	12.1	7.8	15.8	2.4	7.8	116.9	2	76.6	0.6	8.2	7.9	525	1.9	87.2	23.5
Beavercrow YT K-02	1267.97	4160.0			Fort Simpson - *lower*	4	11.4	6.1	14.9	2.3	6.8	110.6	2	63.9	0.4	7.9	7.4	655	3.5	83.1	19.3
Beavercrow YT K-02	1277.11	4190.0			Muskwa	2	11.2	6.1	13.6	2.7	7.5	99.1	2	86.7	0.6	7.7	7.4	402	2.1	85.2	21.4
Beavercrow YT K-02	1286.26	4220.0			Muskwa	<1	11.2	5.8	13.8	2.4	7.2	101.0	2	83.9	0.4	7.6	7.0	330	2.5	87.2	20.3
Beavercrow YT K-02	1295.40	4250.0			Muskwa	6	9.4	4.7	13.1	2.3	6.8	80.6	2	72.2	0.5	6.5	13.1	554	2.5	77.3	21.5
Beavercrow YT K-02	1304.54	4280.0			Muskwa	2	10.0	3.8	14.2	2.2	8.0	65.9	2	103.7	0.6	7.8	7.3	333	112.6	75.6	23.5
Beavercrow YT K-02	1313.69	4310.0			Muskwa	<1	6.2	2.6	7.8	1.2	4.4	45.7	1	41.6	0.3	3.9	10.8	532	3.3	45.2	17.7
Beavercrow YT K-02	1322.83	4340.0			Otter Park	4	5.8	2.4	6.7	1.1	4.1	39.6	1	39.6	0.3	3.9	8.9	508	1.3	38.9	15.4
Beavercrow YT K-02	1331.98	4370.0			Otter Park	4	8.3	4.2	11.6	1.9	6.5	62.9	2	73.0	0.4	6.7	6.6	277	19.3	64.1	21.1
Beavercrow YT K-02	1341.12	4400.0			Otter Park	6	9.4	3.9	10.6	1.8	5.7	64.7	2	67.7	0.3	5.8	7.5	262	2.0	68.7	22.5
Beavercrow YT K-02	1350.26	4430.0			Otter Park	5	11.6	5.0	11.5	2.0	6.2	76.9	2	63.8	0.5	6.5	7.4	244	7.4	68.2	20.1
Beavercrow YT K-02	1359.41	4460.0			Otter Park	4	10.1	4.7	12.7	1.9	6.8	76.4	2	79.2	0.6	7.2	8.3	256	8.3	73.8	21.2
Beavercrow YT K-02	1365.50	4480.0			Otter Park	<1	9.6	4.0	8.9	1.4	5.0	62.2	4	39.9	0.3	4.4	8.6	147	2.1	51.2	19.9
Beavercrow YT K-02	1368.55	4490.0			Evie	<1	8.7	3.6	8.4	1.4	5.6	52.0	1	97.6	0.3	4.4	7.3	129	125.6	54.6	22.0
Beavercrow YT K-02	1377.70	4520.0			Evie	2	13.5	6.1	13.7	2.2	8.6	96.5	2	93.1	0.5	7.6	6.4	199	29.6	83.3	25.4
Beavercrow YT K-02	1389.89	4560.0			Evie	2	8.7	3.9	9.4	1.5	5.8	60.0	2	80.3	0.4	5.6	7.9	424	10.0	58.9	24.8
Beavercrow YT K-02	1399.03	4590.0			Evie	3	5.8	3.3	7.4	1.1	4.4	48.2	4	81.2	0.5	3.8	10.7	612	1.5	41.9	22.4
Beavercrow YT K-02	1402.08	4600.0			Evie	<1	5.5	3.9	7.8	1.3	4.3	43.3	2	44.0	0.4	3.8	10.9	413	3.8	43.8	13.4
Beavercrow YT K-02	1408.18	4620.0			Nahanni	4	10.9	2.3	9.7	1.3	4.9	36.7	2	78.0	0.5	4.7	3.9	170	3.5	47.7	13.4
Beavercrow YT K-02	1411.22	4630.0			Nahanni	<1	2.8	0.5	2.1	0.3	1.1	9.8	<1	79.9	<0.1	1.2	2.6	65	1.4	11.6	3.5
Beavercrow YT K-02	1414.27	4640.0			Nahanni	1	2.1	0.7	1.8	0.3	1.1	12.3	<1	137.9	0.2	1.1	1.7	60	1.8	12.8	5.5
Beavercrow YT K-02	1420.37	4660.0			Nahanni	2	3.8	1.8	5.3	0.8	2.3	20.9	<1	158.1	0.3	2.5	2.4	91	16.6	24.5	8.0
Beavercrow YT K-02	1423.42	4670.0			Nahanni	2	5.0	1.8	8.3	0.9	2.9	26.9	<1	40.3	0.2	2.5	5.9	264	11.5	31.1	9.7
Kotaneelee YT I-48	3036.00	9960.63	3030.00	9940.95	Banff - *shale*	2	22.8	7.1	21.9	3.4	12.1	144.1	3	136.1	0.9	11.3	3.4	255	1.7	129.7	26.2
Kotaneelee YT I-48	3045.00	9990.16	3039.00	9970.47	Banff - *shale*	4	20.1	8.3	22.3	3.7	11.7	137.9	3	142.0	0.8	12.8	3.1	249	1.5	122.6	24.9
Kotaneelee YT I-48	3054.00	10019.69	3048.00	10000.00	Banff - *shale*	1	18.0	7.1	21.6	3.9	11.4	136.5	2	143.5	0.9	12.2	3.0	252	1.7	121.8	25.9
Kotaneelee YT I-48	3060.00	10039.37	3054.00	10019.69	Banff - *shale*	3	18.6	6.4	21.4	3.8	11.7	140.7	2	161.8	0.8	12.0	3.1	236	1.7	124.3	24.8
Kotaneelee YT I-48	3072.00	10078.74	3066.00	10059.06	Banff - *shale*	4	18.0	7.0	20.3	3.5	11.4	127.7	2	173.0	0.7	12.2	2.9	232	1.5	119.1	22.6
Kotaneelee YT I-48	3078.00	10098.43	3072.00	10078.74	Banff - *shale*	8	18.5	6.7	20.6	3.6	11.8	134.0	2	144.0	0.9	11.9	3.8	296	1.5	122.5	28.3
Kotaneelee YT I-48	3084.00	10118.11	3078.00	10098.43	Banff - *shale*	3	20.7	7.0	20.7	3.1	11.8	133.2	3	155.4	0.7	12.0	4.7	443	1.5	124.7	26.5
Kotaneelee YT I-48	3090.00	10137.80	3084.00	10118.11	Banff - *shale*	3	23.1	7.1	20.8	3.1	11.0	139.1	3	144.4	0.7	11.5	5.0	486	1.8	121.6	23.6
Kotaneelee YT I-48	3096.00	10157.48	3090.00	10137.80	Banff - *shale*	6	20.8	7.3	21.0	2.9	10.6	145.8	2	151.2	0.7	11.1	4.8	477	1.3	119.8	24.8
Kotaneelee YT I-48	3099.00	10167.32	3093.00	10147.64	Banff - *shale*	2	22.1	7.5	21.9	3.2	10.7	141.6	2	146.3	0.8	11.4	5.6	584	1.2	121.7	24.1
Kotaneelee YT I-48	3108.00	10196.85	3102.00	10177.17	Banff - *carbonate*	7	20.7	6.8	21.4	3.4	10.9	140.8	2	176.5	0.7	10.8	4.0	384	1.6	124.8	25.9
Kotaneelee YT I-48	3117.00	10226.38	3111.00	10206.69	Banff - *carbonate*	2	19.6	5.3	16.4	3.2	9.3	112.7	2	327.6	0.6	9.2	2.7	202	1.4	125.8	24.5
Kotaneelee YT I-48	3126.00	10255.91	3120.00	10236.22	Banff - *carbonate*	2	22.9	7.0	20.7	3.6	11.7	132.1	2	200.0	0.7	11.1	3.0	244	1.7	130.2	24.6
Kotaneelee YT I-48	3135.00	10285.43	3129.00	10265.75	Banff - *carbonate*	4	80.9	6.0	18.5	3.5	10.4	120.0	2	287.1	0.6	9.0	2.8	204	406.9	131.8	23.3
Kotaneelee YT I-48	3144.00	10314.96	3138.00	10295.28	Banff - *carbonate*	2	19.2	7.9	21.5	3.3	11.5	145.3	2	173.8	0.7	11.8	3.3	256	1.3	130.0	26.3
Kotaneelee YT I-48	3153.00	10344.49	3147.00	10324.80	Banff - *carbonate*	3	22.4	7.3	22.8	3.5	12.3	140.1	3	190.6	0.7	12.7	3.3	243	2.6	135.3	27.4
Kotaneelee YT I-48	3156.00	10354.33	3150.00	10334.65	Banff - *carbonate*	4	22.1	7.3	21.9	3.5	11.4	143.2	3	159.4	0.8	12.3	2.8	254	1.5	130.0	24.9
Kotaneelee YT I-48	3162.00	10374.02	3156.00	10354.33	Exshaw	7	17.3	6.8	18.4	2.8	10.1	124.9	2	197.2	0.8	10.4	5.3	279	2.0	108.5	32.1
Kotaneelee YT I-48	3168.00	10393.70	3162.00	10374.02	Exshaw	<1	21.6	7.1	18.9	3.3	11.2	132.2	2	169.8	0.8	11.3	3.7	274	1.5	123.8	30.4
Kotaneelee YT I-48	3174.00	10413.39	3168.00	10393.70	Exshaw	<1	19.0	6.8	18.9	3.3	11.1	124.6	2	168.4	0.6	9.7	4.0	293	1.6	117.5	29.7
Kotaneelee YT I-48	3180.00	10433.07	3174.00	10413.39	Exshaw	4	16.7	6.1	17.2	2.7	9.0	117.8	2	190.6	0.5	10.1	4.5	314	1.6	99.1	33.7
Kotaneelee YT I-48	3186.00	10452.76	3180.00	10433.07	Exshaw	5	15.6	6.1	16.0	2.3	8.3	106.4	2	243.1	0.5	8.7	5.5	336	1.5	93.6	42.4
Kotaneelee YT I-48	3192.00	10472.44	3186.00	10452.76	Exshaw	2	13.5	5.7	15.9	2.7	8.3	106.7	2	226.8	0.6	8.1	6.2	328	1.6	92.4	46.8
Kotaneelee YT I-48	3198.00	10492.13	3192.00	10472.44	Exshaw	<1	16.0	6.9	16.5	2.5	9.6	119.6	2	248.9	0.5	8.8	7.0	494	1.9	102.4	40.1
Kotaneelee YT I-48	3204.00	10511.81	3198.00	10492.13	Exshaw	3	16.9	7.2	18.7	3.0	9.4	121.2	2	209.9	0.6	9.7	7.9	615	1.5	108.7	40.0

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Be (ppm)	Co (ppm)	Cs (ppm)	Ga (ppm)	Hf (ppm)	Nb (ppm)	Rb (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Th (ppm)	U (ppm)	V (ppm)	W (ppm)	Zr (ppm)	Y (ppm)
						1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
Kotaneelee YT I-48	3210.00	10531.50	3204.00	10511.81	Exshaw	2	22.2	7.3	19.7	3.2	10.6	123.6	2	159.2	0.6	10.3	6.3	523	1.7	114.1	27.7
Kotaneelee YT I-48	3216.00	10551.18	3210.00	10531.50	Exshaw	2	18.1	7.4	17.7	3.0	9.2	121.8	3	149.7	0.7	10.0	6.3	697	1.9	109.6	27.9
Kotaneelee YT I-48	3222.00	10570.87	3216.00	10551.18	Exshaw	2	15.1	6.5	14.6	2.3	8.0	109.6	2	155.2	0.5	7.7	9.3	799	1.4	91.1	22.0
Kotaneelee YT I-48	3228.00	10590.55	3222.00	10570.87	Exshaw	3	13.1	5.4	14.7	2.2	7.4	100.6	1	113.2	0.4	7.3	8.8	1018	1.5	84.3	22.7
Kotaneelee YT I-48	3234.00	10610.24	3228.00	10590.55	Exshaw	<1	13.1	5.5	14.6	2.2	7.4	102.4	2	149.7	0.5	7.6	8.9	830	1.6	85.2	24.2
Kotaneelee YT I-48	3246.00	10649.61	3240.00	10629.92	Exshaw	<1	10.9	4.7	10.6	1.7	5.1	79.9	2	98.6	0.3	5.1	9.3	716	1.3	58.6	17.1
Kotaneelee YT I-48	3249.00	10659.45	3243.00	10639.76	Exshaw	3	9.4	4.1	9.5	1.4	4.7	70.9	1	94.4	0.3	4.6	10.0	660	1.8	56.9	18.9
Kotaneelee YT I-48	3252.00	10669.29	3246.00	10649.61	Exshaw	<1	9.9	3.8	9.1	1.4	4.3	63.6	<1	105.0	0.3	4.5	9.8	642	2.0	52.0	17.1
Kotaneelee YT I-48	3255.00	10679.13	3249.00	10659.45	Exshaw	<1	9.4	3.3	8.4	1.1	3.9	59.7	1	103.2	0.2	3.9	11.2	598	2.3	48.7	17.1
Kotaneelee YT I-48	3258.00	10688.98	3252.00	10669.29	Exshaw	2	8.0	3.3	7.5	1.3	4.1	55.2	<1	98.9	0.3	4.2	13.0	528	1.5	48.7	17.3
Kotaneelee YT I-48	3261.00	10698.82	3255.00	10679.13	Exshaw	2	8.2	3.3	7.6	1.5	4.1	56.1	<1	101.8	0.3	4.1	9.9	432	1.3	52.6	19.1
Kotaneelee YT I-48	3264.00	10708.66	3258.00	10688.98	Exshaw	2	9.3	3.3	7.8	1.3	4.9	60.5	<1	114.6	0.3	4.2	9.1	372	1.2	57.5	17.7
Kotaneelee YT I-48	3267.00	10718.50	3261.00	10698.82	Exshaw	2	10.4	2.6	8.2	1.6	4.6	55.5	<1	103.2	0.3	4.3	12.2	313	1.1	55.8	17.2
Kotaneelee YT I-48	3270.00	10728.35	3264.00	10708.66	Exshaw	<1	9.1	3.5	8.2	1.5	4.3	54.1	<1	100.8	0.3	4.1	11.9	318	1.0	54.7	17.6
Kotaneelee YT I-48	3273.00	10738.19	3267.00	10718.50	Patry	3	10.2	2.0	4.9	0.9	2.9	37.0	<1	72.7	0.2	2.6	17.7	164	0.7	33.1	13.5
Kotaneelee YT I-48	3276.00	10748.03	3270.00	10728.35	Patry	<1	9.2	2.3	4.6	0.9	3.2	37.1	<1	64.6	0.2	2.6	17.4	152	0.7	34.3	13.5
Kotaneelee YT I-48	3279.00	10757.87	3273.00	10738.19	Patry	<1	10.4	1.9	4.5	0.9	2.8	37.2	<1	97.2	0.2	2.7	15.9	172	2.0	35.8	13.8
Kotaneelee YT I-48	3282.00	10767.72	3276.00	10748.03	Patry	<1	8.6	2.0	4.4	0.9	2.7	35.1	1	60.2	0.4	2.5	12.5	169	1.7	30.1	13.0
Kotaneelee YT I-48	3285.00	10777.56	3279.00	10757.87	Patry	<1	9.4	2.7	4.8	0.9	2.9	40.0	<1	56.7	0.3	2.6	13.6	183	0.9	33.6	16.0
Kotaneelee YT I-48	3288.00	10787.40	3282.00	10767.72	Patry	3	9.5	2.8	6.0	1.0	3.3	42.6	<1	59.3	0.7	3.2	14.4	177	<0.5	35.0	15.3
Kotaneelee YT I-48	3291.00	10797.24	3285.00	10777.56	Patry	<1	10.0	2.3	4.8	0.9	3.0	38.0	1	68.1	0.3	2.7	15.8	220	0.8	35.6	14.1
Kotaneelee YT I-48	3294.00	10807.09	3288.00	10787.40	Patry	<1	9.6	2.5	4.9	0.9	3.5	41.5	2	59.6	1.1	2.9	16.5	251	0.7	38.0	17.4
Kotaneelee YT I-48	3297.00	10816.93	3291.00	10797.24	Patry	2	8.7	2.2	5.7	1.1	3.9	42.1	<1	76.6	1.3	2.8	13.5	208	0.9	43.4	15.5
Kotaneelee YT I-48	3300.00	10826.77	3294.00	10807.09	Patry	<1	8.3	2.0	5.0	1.2	3.7	38.3	<1	96.2	0.2	3.1	13.7	213	0.9	43.6	15.5
Kotaneelee YT I-48	3303.00	10836.61	3297.00	10816.93	Patry	<1	9.6	2.1	5.1	1.2	3.6	38.4	1	78.7	0.4	2.8	14.0	197	0.6	44.4	15.5
Kotaneelee YT I-48	3306.00	10846.46	3300.00	10826.77	Patry	3	9.7	2.3	5.1	1.2	3.7	43.0	1	79.5	0.3	3.1	15.1	176	0.6	48.1	17.5
Kotaneelee YT I-48	3309.00	10856.30	3303.00	10836.61	Patry	<1	9.7	3.0	5.5	1.4	4.4	47.1	1	84.4	0.3	3.2	12.5	164	0.7	55.0	17.4
Kotaneelee YT I-48	3312.00	10866.14	3306.00	10846.46	Patry	5	8.1	2.4	4.8	1.3	3.8	42.2	<1	139.4	0.2	3.2	11.7	162	0.5	48.9	16.3
Kotaneelee YT I-48	3315.00	10875.98	3309.00	10856.30	Patry	<1	11.2	2.9	6.4	1.7	5.1	50.5	1	78.6	0.3	3.9	8.6	144	1.0	62.6	17.9
Kotaneelee YT I-48	3318.00	10885.83	3312.00	10866.14	Patry	3	11.1	3.3	7.2	1.7	5.1	56.8	2	68.3	0.3	4.2	15.4	118	2.7	65.7	18.2
Kotaneelee YT I-48	3321.00	10895.67	3315.00	10875.98	Patry	<1	9.4	2.6	6.6	1.6	4.5	52.5	<1	67.5	0.4	3.8	8.7	112	1.2	60.7	19.2
Kotaneelee YT I-48	3324.00	10905.51	3318.00	10885.83	Patry	3	8.8	2.7	6.5	1.7	4.8	53.3	1	52.9	0.4	4.1	8.4	110	1.1	63.8	17.3
Kotaneelee YT I-48	3330.00	10925.20	3324.00	10905.51	Patry	<1	8.3	3.0	7.7	1.5	4.6	61.2	1	65.5	0.4	4.4	8.6	134	1.1	53.4	18.1
Kotaneelee YT I-48	3333.00	10935.04	3327.00	10915.35	Patry	2	7.9	3.9	8.0	1.3	4.4	64.3	<1	58.8	0.5	3.9	12.4	140	2.8	50.9	17.7
Kotaneelee YT I-48	3336.00	10944.88	3330.00	10925.20	Fort Simpson - *upper*	3	7.7	3.5	7.8	1.4	4.7	68.6	1	154.2	0.5	4.5	10.5	136	1.5	56.7	17.8
Kotaneelee YT I-48	3339.00	10954.72	3333.00	10935.04	Fort Simpson - *upper*	<1	19.3	6.3	13.1	2.6	9.4	108.8	4	198.4	0.7	8.2	5.3	150	2.5	97.0	18.7
Kotaneelee YT I-48	3342.00	10964.57	3336.00	10944.88	Fort Simpson - *upper*	3	17.9	6.6	13.3	3.3	9.5	118.3	2	150.0	0.9	9.2	3.6	150	1.6	109.3	20.0
Kotaneelee YT I-48	3534.00	11594.49	3528.00	11574.80	Fort Simpson - *lower*	4	17.2	6.5	19.7	3.5	11.7	142.6	3	103.2	0.7	9.9	3.5	215	2.0	128.4	22.1
Kotaneelee YT I-48	3537.00	11604.33	3531.00	11584.65	Fort Simpson - *lower*	3	16.5	6.6	19.1	3.5	9.6	140.2	3	158.3	0.6	10.2	3.5	212	1.4	123.9	26.6
Kotaneelee YT I-48	3540.00	11614.17	3534.00	11594.49	Fort Simpson - *lower*	2	16.6	6.2	17.3	3.5	9.1	131.5	2	179.8	0.7	9.5	3.3	206	1.4	125.7	25.8
Kotaneelee YT I-48	3546.00	11633.86	3538.00	11607.61	Fort Simpson - *lower*	<1	15.5	6.5	18.5	4.2	10.4	130.6	2	135.6	0.7	10.3	3.7	213	1.4	152.3	27.8
Kotaneelee YT I-48	3549.00	11643.70	3541.00	11617.45	Fort Simpson - *lower*	<1	16.9	6.7	18.0	4.1	10.3	131.5	3	139.2	0.7	10.5	3.7	219	1.3	147.1	28.4
Kotaneelee YT I-48	3552.00	11653.54	3544.00	11627.30	Fort Simpson - *lower*	<1	18.5	7.8	20.4	3.8	11.3	140.1	3	146.5	1.2	10.3	4.1	239	1.8	146.2	29.1
Kotaneelee YT I-48	3555.00	11663.39	3547.00	11637.14	Fort Simpson - *lower*	3	17.3	6.5	17.2	3.7	10.3	134.9	2	198.6	0.6	9.9	5.2	255	1.7	136.6	33.0
Kotaneelee YT I-48	3558.00	11673.23	3550.00	11646.98	Muskwa	3	13.7	5.0	13.5	2.7	8.3	114.8	2	238.8	0.5	7.7	9.4	328	1.3	104.4	28.3
Kotaneelee YT I-48	3561.00	11683.07	3553.00	11656.82	Muskwa	<1	7.9	3.3	8.8	1.5	5.5	61.8	1	125.6	0.3	4.1	15.3	319	1.5	62.0	20.7
Kotaneelee YT I-48	3564.00	11692.91	3556.00	11666.67	Muskwa	2	8.9	3.1	8.8	1.7	5.4	68.0	1	117.8	0.3	4.7	14.3	339	1.8	63.0	21.7
Kotaneelee YT I-48	3567.00	11702.76	3559.00	11676.51	Muskwa	<1	8.8	2.8	7.5	1.4	4.6	62.3	1	68.4	0.4	4.2	11.6	387	1.6	51.7	18.0
Kotaneelee YT I-48	3576.00	11732.28	3568.00	11706.04	Otter Park	3	9.2	2.7	7.4	1.8	5.1	58.7	1	120.1	0.4	4.5	9.6	190	1.6	63.3	17.4
Kotaneelee YT I-48	3579.00	11742.13	3571.00	11715.88	Otter Park	2	10.0	3.7	8.3	1.8	5.2	61.1	1	114.5	0.3	4.7	10.5	181	1.6	64.8	18.3
Kotaneelee YT I-48	3582.00	11751.97	3574.00	11725.72	Otter Park	3	11.5	3.0	9.1	1.8	5.8	62.2	1	84.5	0.5	5.5	8.6	161	0.9	66.6	16.2
Kotaneelee YT I-48	3585.00	11761.81	3577.00	11735.56	Otter Park	<1	11.0	3.0	7.6	2.0	5.5	63.0	1	82.2	0.4	5.0	7.9	167	1.1	66.7	15.7
Kotaneelee YT I-48	3588.00	11771.65	3580.00	11745.41	Otter Park	2	13.4	2.9	9.3	1.9	6.3	73.6	2	115.7	0.5	6.2	7.8	145	1.3	75.1	17.8
Kotaneelee YT I-48	3591.00	11781.50	3583.00	11755.25	Otter Park	<1	11.9	3.6	8.9	1.8	6.0	73.1	1	100.0	0.4	5.2	6.8	144	2.4	69.0	17.2
Kotaneelee YT I-48	3594.00	11791.34	3586.00	11765.09	Otter Park	7	14.5	4.3	9.8	2.0	6.7	79.3	2	96.2	0.7	6.4	9.2	161	1.0	78.0	19.3
Kotaneelee YT I-48	3597.00	11801.18	3589.00	11774.93	Otter Park	1	13.8	3.8	9.6	2.0	6.2	77.4	2	91.1	0.5	5.3	8.0	169	1.4	74.5	16.8

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Be (ppm)	Co (ppm)	Cs (ppm)	Ga (ppm)	Hf (ppm)	Nb (ppm)	Rb (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Th (ppm)	U (ppm)	V (ppm)	W (ppm)	Zr (ppm)	Y (ppm)
						1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
Kotaneelee YT I-48	3600.00	11811.02	3592.00	11784.78	Otter Park	2	17.7	4.2	11.6	2.4	6.9	84.6	2	94.4	0.9	6.5	8.8	153	1.5	80.3	19.4
Kotaneelee YT I-48	3603.00	11820.87	3595.00	11794.62	Otter Park	1	13.3	4.0	9.8	2.0	6.3	81.1	1	74.2	0.4	5.9	7.2	163	0.8	68.0	16.5
Kotaneelee YT I-48	3606.00	11830.71	3598.00	11804.46	Otter Park	4	14.1	5.2	13.5	2.4	7.5	99.3	3	89.4	1.0	7.6	6.0	182	1.3	81.3	20.6
Kotaneelee YT I-48	3609.00	11840.55	3601.00	11814.30	Otter Park	<1	13.8	4.5	12.1	2.2	7.5	99.6	2	78.4	0.5	7.1	6.8	187	1.6	81.3	19.1
Kotaneelee YT I-48	3612.00	11850.39	3604.00	11824.15	Otter Park	1	11.3	4.1	10.4	1.4	6.1	79.6	1	67.8	0.5	5.3	10.8	171	1.6	62.4	19.2
Kotaneelee YT I-48	3615.00	11860.24	3607.00	11833.99	Otter Park	3	13.6	4.0	10.9	1.8	6.5	77.6	2	74.6	0.4	5.9	12.2	159	1.8	67.2	21.1
Kotaneelee YT I-48	3618.00	11870.08	3610.00	11843.83	Otter Park	5	13.0	3.9	10.0	1.8	6.2	79.6	2	84.2	0.4	5.3	13.7	191	2.0	68.2	22.9
Kotaneelee YT I-48	3621.00	11879.92	3613.00	11853.67	Evie	<1	7.8	2.3	6.2	1.2	4.3	40.6	<1	90.8	0.3	2.8	12.5	334	5.1	45.1	21.7
Kotaneelee YT I-48	3624.00	11889.76	3616.00	11863.52	Evie	1	6.2	1.5	4.8	0.9	3.4	37.4	<1	106.5	0.2	2.6	9.6	284	1.7	37.4	19.9
Kotaneelee YT I-48	3627.00	11899.61	3619.00	11873.36	Evie	6	143.6	3.0	8.0	1.6	4.9	64.0	2	102.0	0.4	4.9	8.7	325	1278.2	59.7	18.3
Kotaneelee YT I-48	3630.00	11909.45	3622.00	11883.20	Evie	3	24.9	3.4	8.8	1.5	5.3	72.5	3	112.5	0.7	5.2	8.0	285	118.7	65.7	17.1
Kotaneelee YT I-48	3633.00	11919.29	3625.00	11893.05	Evie	<1	7.6	2.5	7.3	1.5	4.8	52.9	1	117.0	0.4	4.4	11.3	347	4.3	53.6	22.3
Kotaneelee YT I-48	3636.00	11929.13	3628.00	11902.89	Evie	<1	9.1	2.2	6.7	1.4	4.4	50.2	<1	111.9	0.4	4.0	10.9	350	20.5	49.7	20.0
Kotaneelee YT I-48	3639.00	11938.98	3631.00	11912.73	Evie	<1	6.7	1.7	5.3	1.1	3.5	40.0	1	119.9	0.2	3.1	9.1	375	12.1	43.1	19.3
Kotaneelee YT I-48	3642.00	11948.82	3634.00	11922.57	Evie	1	6.2	1.7	4.6	1.1	3.8	41.9	<1	120.0	0.3	3.1	9.8	458	10.4	45.2	19.3
Kotaneelee YT I-48	3645.00	11958.66	3637.00	11932.42	Evie	<1	10.7	1.1	4.4	1.1	3.2	31.0	2	104.0	0.3	2.7	9.6	580	53.9	41.2	14.5
Kotaneelee YT I-48	3648.00	11968.50	3640.00	11942.26	Evie	2	3.3	1.0	2.9	0.8	2.8	26.9	<1	56.0	0.2	1.9	14.8	428	3.3	33.5	9.5
Kotaneelee YT I-48	3651.00	11978.35	3643.00	11952.10	Evie	2	3.9	1.1	3.8	0.7	3.2	31.1	<1	39.6	0.2	2.2	12.5	390	2.2	34.2	6.9
Kotaneelee YT I-48	3654.00	11988.19	3646.00	11961.94	Evie	3	5.7	2.1	6.1	1.3	4.6	41.7	<1	54.0	0.3	2.8	25.2	354	2.3	48.4	7.8
Kotaneelee YT I-48	3657.00	11998.03	3649.00	11971.79	Nahanni	<1	2.6	0.7	3.3	0.4	1.8	16.9	<1	99.1	0.2	1.2	8.6	132	0.8	19.2	5.1
Kotaneelee YT I-48	3660.00	12007.87	3652.00	11981.63	Nahanni	<1	3.5	1.0	3.5	0.6	2.3	24.1	<1	79.3	0.2	1.5	3.7	123	3.6	21.3	5.8
Kotaneelee YT I-48	3672.00	12047.24	3664.00	12021.00	Nahanni	3	13.6	5.4	14.7	2.4	8.3	95.9	2	114.4	0.7	7.1	3.6	192	3.5	93.3	18.0
Kotaneelee YT I-48	3675.00	12057.09	3667.00	12030.84	Nahanni	<1	0.9	0.8	<0.5	<0.1	0.4	2.6	<1	32.2	<0.1	0.3	1.3	11	3.3	3.1	1.0
Kotaneelee YT I-48	3678.00	12066.93	3670.00	12040.68	Nahanni	<1	1.6	0.3	<0.5	0.2	0.7	5.3	<1	35.0	<0.1	0.4	1.0	18	1.6	5.9	1.5
Kotaneelee YT I-48	3681.00	12076.77	3673.00	12050.53	Nahanni	<1	1.0	0.2	1.1	<0.1	1.1	3.6	<1	22.3	0.1	0.3	1.2	10	2.5	4.0	0.6
Kotaneelee YT I-48	3684.00	12086.61	3676.00	12060.37	Nahanni	2	3.3	0.2	1.3	0.2	0.9	4.4	<1	21.9	<0.1	0.4	1.2	18	19.6	5.1	1.2
Kotaneelee YT I-48	3687.00	12096.46	3679.00	12070.21	Nahanni	<1	4.3	0.1	1.3	0.1	0.9	3.8	<1	25.0	0.2	0.4	1.4	16	17.8	3.9	1.1
Kotaneelee YT I-48	3690.00	12106.30	3682.00	12080.05	Nahanni	<1	2.1	0.2	1.1	0.1	0.4	3.1	<1	26.3	<0.1	0.3	1.6	12	4.9	3.4	0.9
Kotaneelee YT I-48	3693.00	12116.14	3685.00	12089.90	Nahanni	<1	18.7	0.2	1.9	<0.1	0.9	3.4	<1	16.8	<0.1	0.3	1.5	14	90.0	4.4	0.8
Kotaneelee YT I-48	3696.00	12125.98	3688.00	12099.74	Nahanni	<1	3.7	0.3	3.5	0.1	0.6	5.7	<1	24.6	<0.1	0.4	1.5	18	19.2	6.5	1.8
Kotaneelee YT I-48	3699.00	12135.83	3691.00	12109.58	Nahanni	<1	0.7	0.1	2.0	<0.1	0.5	2.6	<1	31.7	<0.1	0.2	1.0	11	0.6	3.2	1.1
Kotaneelee YT I-48	3702.00	12145.67	3694.00	12119.42	Nahanni	<1	3.0	0.1	4.3	<0.1	0.3	1.8	<1	36.9	<0.1	0.2	0.9	<8	10.0	2.5	1.2
Kotaneelee YT I-48	3705.00	12155.51	3697.00	12129.27	Nahanni	<1	0.8	<0.1	1.0	<0.1	0.2	1.9	<1	36.7	<0.1	<0.2	0.8	<8	1.6	2.4	1.1
North Beaver River YT I-27	3611.88	11850.0			Fort Simpson - *lower*	2	18.4	6.2	18.5	3.2	9.3	121.3	2	212.4	0.6	9.8	3.1	205	1.9	109.2	25.4
North Beaver River YT I-27	3614.93	11860.0			Muskwa	2	18.3	6.0	19.1	3.4	9.7	124.2	2	158.6	0.6	10.4	3.8	228	4.3	116.5	25.7
North Beaver River YT I-27	3617.98	11870.0			Muskwa	8	12.8	5.9	14.6	2.7	8.6	102.9	2	226.6	0.6	8.3	5.6	229	2.2	96.7	24.0
North Beaver River YT I-27	3624.07	11890.0			Muskwa	2	11.4	3.5	11.8	2.0	6.9	77.5	2	103.1	0.5	6.1	8.5	341	1.8	73.5	20.7
North Beaver River YT I-27	3630.17	11910.0			Muskwa	4	14.1	5.8	17.7	2.7	8.6	112.4	2	120.3	0.7	9.3	5.1	240	2.5	99.4	29.0
North Beaver River YT I-27	3636.26	11930.0			Otter Park	6	14.7	6.9	18.9	3.1	10.1	126.5	2	142.7	0.9	10.1	4.5	241	1.8	110.3	23.1
North Beaver River YT I-27	3645.41	11960.0			Otter Park	<1	17.2	6.2	17.9	2.9	10.6	124.8	3	178.4	0.7	9.6	4.4	232	2.0	108.9	22.4
North Beaver River YT I-27	3651.50	11980.0			Otter Park	4	17.4	6.5	21.1	3.1	10.9	128.5	3	153.3	0.8	11.6	3.5	258	2.2	115.9	21.6
North Beaver River YT I-27	3657.60	12000.0			Otter Park	4	26.1	5.9	18.5	3.1	9.8	116.3	2	232.9	0.6	10.6	4.1	220	21.8	110.9	23.6
North Beaver River YT I-27	3663.70	12020.0			Otter Park	1	7.6	0.8	3.3	2.2	2.4	21.9	<1	5767.5	1.6	1.6	1.7	59	60.6	59.7	10.4
North Beaver River YT I-27	3669.79	12040.0			Otter Park	<1	16.4	6.0	19.3	3.4	10.0	121.9	3	152.8	0.6	10.1	4.1	229	2.4	113.3	23.0
North Beaver River YT I-27	3678.94	12070.0			Otter Park	4	16.5	7.4	19.9	3.2	10.3	134.2	3	134.5	0.7	11.3	4.1	248	3.2	110.0	23.3
North Beaver River YT I-27	3688.08	12100.0			Evie	2	15.9	6.4	19.7	3.4	10.4	125.9	3	175.2	0.6	11.4	3.6	248	2.5	120.0	24.6
North Beaver River YT I-27	3694.18	12120.0			Evie	<1	20.7	1.0	4.2	2.0	2.9	21.1	1	3787.7	1.3	2.2	2.5	63	181.2	51.9	7.3
North Beaver River YT I-27	3697.22	12130.0			Evie	<1	6.8	2.7	8.6	1.3	4.9	50.7	2	71.8	0.3	4.4	12.9	679	1.1	57.0	14.7
North Beaver River YT I-27	3700.27	12140.0			Evie	2	9.4	3.1	9.1	1.7	5.5	61.0	2	80.1	0.3	4.8	10.9	324	2.4	60.6	13.2
North Beaver River YT I-27	3706.37	12160.0			Evie	<1	10.4	3.3	10.2	1.8	5.9	66.9	2	104.2	0.3	6.0	4.3	168	1.2	62.0	13.4
North Beaver River YT I-27	3709.42	12170.0			Nahanni	2	15.1	4.9	16.1	3.0	9.2	109.0	3	165.5	0.6	9.5	3.6	215	9.2	105.8	26.0
North Beaver River YT I-27	3712.46	12180.0			Nahanni	2	13.2	4.4	13.8	2.5	7.7	89.6	2	167.5	0.4	7.2	4.2	186	2.1	97.6	21.2
Whitefish River	254.00	833.33			Banff - *shale*	<1	11.5	3.9	9.1	2.6	6.5	73.3	1	33.8	0.5	5.6	11.9	170	0.9	85.3	17.8
Whitefish River	252.00	826.77			Banff - *shale*	3	0.9	3.2	8.3	2.0	5.1	55.4	<1	19.0	0.4	4.3	3.3	195	1.0	59.4	7.3
Whitefish River	250.00	820.21			Banff - *shale*	1	0.7	3.1	7.9	2.3	4.8	57.3	1	19.7	0.3	4.2	3.1	374	0.7	62.1	8.7
Whitefish River	248.00	813.65			Banff - *shale*	<1	0.7	4.1	10.8	2.4	6.2	78.0	2	19.3	0.5	5.3	3.1	362	1.1	74.4	9.1

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Be (ppm)	Co (ppm)	Cs (ppm)	Ga (ppm)	Hf (ppm)	Nb (ppm)	Rb (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Th (ppm)	U (ppm)	V (ppm)	W (ppm)	Zr (ppm)	Y (ppm)
						1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1
Whitefish River	246.00	807.09			Banff - *shale*	3	0.7	3.3	8.1	1.9	5.4	62.9	<1	24.2	0.5	5.3	2.8	144	1.0	62.1	6.5
Whitefish River	244.00	800.52			Banff - *shale*	4	0.8	4.3	10.4	2.0	6.7	76.4	1	20.4	0.5	4.5	3.5	151	0.9	80.3	9.3
Whitefish River	242.00	793.96			Banff - *shale*	1	0.9	6.0	11.3	2.6	8.4	90.9	2	23.0	0.6	5.6	4.0	272	0.9	91.7	11.5
Whitefish River	240.00	787.40			Banff - *shale*	2	0.7	5.5	11.9	2.4	7.5	94.7	2	23.1	0.5	5.8	4.4	168	1.3	77.6	12.7
Whitefish River	238.00	780.84			Banff - *shale*	3	0.9	5.5	11.3	1.8	7.4	85.2	2	22.0	0.6	5.3	4.4	202	1.2	71.7	12.5
Whitefish River	236.00	774.28			Banff - *shale*	2	0.5	3.4	8.0	1.5	5.2	57.0	1	24.8	0.3	3.6	3.1	219	0.6	54.2	7.4
Whitefish River	234.00	767.72			Banff - *shale*	<1	0.6	2.7	6.8	1.0	4.5	47.0	<1	18.0	0.3	2.9	2.4	129	0.5	44.8	6.7
Whitefish River	232.00	761.15			Banff - *shale*	1	0.7	2.6	6.3	0.9	4.3	43.2	1	16.4	0.3	2.1	2.3	200	<0.5	36.1	5.3
Whitefish River	230.00	754.59			Banff - *shale*	<1	0.7	3.7	10.4	2.5	10.3	72.5	1	23.5	0.6	4.8	4.0	129	1.1	88.5	13.1
Whitefish River	228.00	748.03			Banff - *shale*	<1	1.0	3.3	8.3	1.4	7.0	57.5	2	19.0	0.4	3.8	2.8	239	0.6	56.6	6.2
Whitefish River	226.00	741.47			Banff - *shale*	<1	0.6	2.1	8.0	1.7	6.7	50.5	1	24.7	0.3	2.5	3.3	312	0.9	57.7	9.4
Whitefish River	224.00	734.91			Banff - *shale*	1	0.9	1.9	5.9	1.1	3.5	32.4	1	19.1	0.3	2.3	3.1	483	<0.5	37.7	5.0
Whitefish River	222.00	728.35			Banff - *shale*	2	1.1	2.5	6.3	1.4	4.6	56.0	<1	21.2	0.3	2.7	2.6	518	1.1	62.2	9.8
Whitefish River	220.00	721.78			Banff - *shale*	2	1.4	2.0	4.9	0.6	2.8	41.3	<1	39.2	0.1	3.2	3.6	213	<0.5	33.3	21.8
Whitefish River	218.00	715.22			Banff - *carbonate*	<1	0.3	2.2	3.1	1.1	2.5	34.7	<1	23.8	0.2	2.5	3.0	357	<0.5	33.1	9.3
Whitefish River	216.00	708.66			Banff - *carbonate*	9	10.3	4.5	9.4	2.2	6.8	82.8	1	33.0	0.4	5.1	12.9	393	1.1	89.8	16.3
Whitefish River	214.00	702.10			Banff - *carbonate*	<1	1.3	3.4	6.9	1.0	4.4	59.8	<1	15.6	0.1	3.4	2.2	350	0.7	48.8	10.0
Whitefish River	212.00	695.54			Banff - *carbonate*	2	1.0	4.0	10.1	1.1	5.3	62.8	2	26.8	0.4	5.4	3.5	536	1.9	45.2	9.6
Whitefish River	210.00	688.98			Banff - *carbonate*	<1	1.1	5.1	12.4	1.9	6.5	84.8	2	21.9	0.4	4.6	2.9	725	1.7	58.9	10.3
Whitefish River	208.00	682.41			Banff - *carbonate*	1	1.2	5.0	12.3	1.5	6.8	84.0	2	22.3	0.5	4.0	3.4	521	1.2	65.8	10.4
Whitefish River	206.00	675.85			Banff - *carbonate*	<1	1.0	5.9	14.1	1.4	6.7	93.6	2	21.3	0.5	5.5	2.9	625	1.4	54.9	9.5
Whitefish River	204.00	669.29			Banff - *carbonate*	2	1.2	6.7	13.3	1.5	6.9	105.3	1	22.0	0.4	4.6	2.5	564	0.8	61.6	11.6
Whitefish River	202.00	662.73			Banff - *carbonate*	4	2.7	5.7	10.5	1.6	5.9	92.0	<1	60.1	0.4	4.1	3.4	531	0.8	55.5	14.8
Whitefish River	200.00	656.17			Banff - *carbonate*	1	1.0	7.0	13.8	1.5	6.7	97.7	1	21.0	0.7	4.6	3.6	541	1.0	57.0	9.7
Whitefish River	198.00	649.61			Exshaw	1	1.5	5.1	10.7	1.3	5.6	72.6	2	19.1	0.4	3.2	3.4	678	0.7	50.9	10.3
Whitefish River	196.00	643.04			Exshaw	2	13.0	5.6	10.8	2.2	6.3	68.6	2	35.8	0.6	4.7	15.1	555	0.9	73.2	16.0
Whitefish River	194.00	636.48			Exshaw	3	0.7	4.3	3.4	0.8	2.8	41.5	<1	13.6	0.2	1.7	3.1	540	0.8	33.4	7.5
Whitefish River	192.00	629.92			Exshaw	1	0.9	4.5	7.8	1.2	4.8	45.3	1	17.2	0.3	2.9	4.7	739	0.7	50.2	8.1
Whitefish River	190.00	623.36			Exshaw	<1	0.4	5.2	5.0	1.2	3.4	44.0	<1	16.9	0.3	2.9	4.7	501	<0.5	42.3	6.1
Whitefish River	188.00	616.80			Exshaw	<1	0.6	6.3	8.5	1.6	5.2	63.9	<1	20.5	0.3	4.2	5.6	369	0.9	59.8	9.1
Whitefish River	186.00	610.24			Exshaw	4	0.6	4.2	5.2	1.5	4.4	50.0	<1	16.4	0.3	2.4	3.5	307	0.8	53.1	10.9
Whitefish River	184.00	603.67			Exshaw	2	0.7	7.7	12.5	1.3	5.3	60.5	2	25.9	0.5	5.3	8.6	967	1.0	55.6	12.7
Whitefish River	182.00	597.11			Exshaw	2	0.6	5.7	4.9	1.6	4.6	50.3	<1	15.0	0.3	2.6	7.3	1368	0.7	58.0	8.1
Whitefish River	180.00	590.55			Exshaw	<1	0.8	4.1	4.3	1.4	3.6	34.2	<1	18.7	0.2	3.1	8.9	1471	2.8	48.9	8.5
Whitefish River	178.00	583.99			Exshaw	<1	0.8	4.0	3.5	1.7	4.0	38.4	<1	13.6	0.3	2.3	7.5	1172	0.9	57.9	10.1
Whitefish River	176.00	577.43			Exshaw	<1	0.9	2.5	4.9	0.8	4.2	27.6	1	17.5	0.4	2.7	10.4	928	0.6	50.9	12.8
Whitefish River	174.00	570.87			Exshaw	<1	0.8	3.4	4.0	1.1	3.8	36.0	<1	21.6	0.5	2.7	6.2	1485	0.6	52.2	13.3
Whitefish River	172.00	564.30			Exshaw	2	0.6	3.8	4.8	1.3	4.5	40.0	1	13.8	0.5	3.1	5.9	1594	0.6	63.8	10.0
Whitefish River	170.00	557.74			Exshaw	<1	1.8	3.7	4.8	1.9	4.2	40.7	<1	13.7	0.2	2.6	8.3	1627	0.7	63.8	12.2
Whitefish River	168.00	551.18			Exshaw	<1	0.6	5.0	5.1	1.4	5.5	47.3	2	14.5	0.5	2.2	10.9	1653	0.8	63.3	10.8
Whitefish River	166.00	544.62			Exshaw	1	0.7	1.9	3.5	2.1	4.8	29.5	1	15.9	0.2	3.2	7.7	764	1.2	70.7	15.6
Whitefish River	164.00	538.06			Exshaw	2	3.3	3.3	6.2	2.3	7.0	44.2	1	19.9	0.4	3.1	17.2	914	1.5	94.4	14.4
Whitefish River	162.00	531.50			Exshaw	4	0.9	3.4	5.1	0.8	4.0	26.8	1	14.9	0.2	1.7	24.0	631	0.7	45.2	8.4
Whitefish River	160.00	524.93			Exshaw	1	0.7	3.5	7.2	1.3	5.3	34.1	3	16.7	0.3	2.3	18.8	768	1.0	51.5	10.3
Whitefish River	158.00	518.37			Patry	3	0.8	2.3	3.6	0.7	3.6	23.1	<1	12.7	0.1	1.9	7.4	272	0.5	32.6	9.5
Whitefish River	156.00	511.81			Patry	<1	1.1	2.2	3.4	0.8	4.1	30.5	<1	11.3	0.2	1.8	6.2	445	0.6	38.7	9.5
Whitefish River	154.00	505.25			Patry	<1	0.9	3.2	7.3	0.4	6.3	28.9	1	20.8	0.3	1.8	10.1	335	0.6	28.5	7.9
Whitefish River	152.00	498.69			Patry	2	0.4	2.9	4.0	0.8	2.6	31.7	<1	18.5	0.1	1.4	12.4	492	<0.5	31.2	8.5
Whitefish River	150.00	492.13			Patry	3	0.3	3.8	4.9	0.8	2.8	36.0	<1	22.5	0.2	2.4	8.8	791	<0.5	33.9	7.5
Whitefish River	148.00	485.56			Patry	<1	0.3	3.0	5.4	0.9	3.6	39.5	1	17.4	0.3	2.7	5.9	769	0.5	46.2	7.3
Whitefish River	146.00	479.00			Patry	1	2.5	3.1	4.4	1.0	3.1	35.9	<1	109.8	0.2	2.4	7.4	286	1.6	33.0	6.9
Whitefish River	144.00	472.44			Patry	<1	0.4	2.8	3.6	0.7	2.6	32.5	<1	33.2	0.1	2.0	12.0	535	0.5	36.2	8.5
Whitefish River	142.00	465.88			Patry	3	0.4	2.0	3.1	0.9	2.5	26.0	<1	16.3	0.2	1.4	6.8	210	0.6	28.0	4.6
Whitefish River	140.00	459.32			Patry	2	0.5	2.6	4.6	1.0	2.9	33.5	<1	11.1	0.2	2.6	5.7	216	0.9	30.9	5.4
Whitefish River	138.00	452.76			Patry	<1	0.6	2.8	5.1	0.9	3.0	33.7	<1	10.6	0.3	1.6	7.9	163	<0.5	37.2	6.4
Whitefish River	136.00	446.19			Patry	2	0.4	3.5	5.6	1.2	5.1	42.0	<1	14.3	0.2	1.8	8.6	140	1.0	57.1	7.9

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	Be (ppm)	Co (ppm)	Cs (ppm)	Ga (ppm)	Hf (ppm)	Nb (ppm)	Rb (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Th (ppm)	U (ppm)	V (ppm)	W (ppm)	Zr (ppm)	Y (ppm)
						1	**0.2**	**0.1**	**0.5**	**0.1**	**0.1**	**0.1**	**1**	**0.5**	**0.1**	**0.2**	**0.1**	**8**	**0.5**	**0.1**	**0.1**
Whitefish River	134.00	439.63			Patry	<1	0.3	3.0	6.2	1.0	3.6	42.6	<1	14.1	0.2	1.9	9.9	330	0.6	45.8	7.3
Whitefish River	132.00	433.07			Patry	<1	0.3	2.8	4.0	0.7	3.0	31.0	<1	12.5	0.2	1.4	8.4	329	<0.5	34.6	6.0
Whitefish River	130.00	426.51			Patry	<1	0.5	4.4	7.4	1.1	4.7	52.9	<1	14.0	0.5	2.8	9.4	458	0.8	54.2	9.3
Whitefish River	128.00	419.95			Patry	2	0.7	5.3	10.2	1.3	6.2	71.5	1	18.9	0.5	3.8	9.0	402	0.7	63.5	9.4
Whitefish River	126.00	413.39			Patry	<1	0.5	6.2	9.1	1.4	5.7	68.2	1	18.3	0.4	3.7	7.7	405	1.0	59.5	8.6
Whitefish River	124.00	406.82			Fort Simpson - *undif.*	1	0.6	5.9	8.6	1.6	6.4	66.5	1	17.6	0.4	2.6	6.5	405	6.3	64.2	10.5
Whitefish River	122.00	400.26			Fort Simpson - *undif.*	<1	0.6	4.6	6.9	1.6	4.8	48.9	<1	14.6	0.4	3.8	5.9	500	1.2	54.7	8.7
Whitefish River	120.00	393.70			Fort Simpson - *undif.*	2	0.2	4.1	6.5	1.8	5.6	48.6	<1	18.9	0.3	3.2	10.0	278	1.1	65.0	10.0
Whitefish River	118.00	387.14			Fort Simpson - *undif.*	<1	0.6	6.2	9.5	1.6	5.9	72.6	1	20.4	0.3	2.9	7.7	257	0.8	62.8	9.0
Whitefish River	116.00	380.58			Fort Simpson - *undif.*	3	0.6	5.7	8.6	1.7	5.8	63.4	<1	23.0	0.5	3.6	15.4	262	0.6	56.9	9.2
Whitefish River	114.00	374.02			Fort Simpson - *undif.*	<1	0.6	5.4	9.5	1.8	5.5	67.0	<1	22.5	0.2	2.7	15.4	245	0.9	58.9	7.8
Whitefish River	112.00	367.45			Fort Simpson - *undif.*	2	<0.2	3.7	4.3	1.1	2.9	33.1	<1	10.3	0.2	1.5	4.9	193	0.6	32.6	4.2
Whitefish River	110.00	360.89			Fort Simpson - *undif.*	<1	0.6	6.2	8.2	0.6	4.1	45.2	<1	41.0	0.2	8.1	13.5	339	1.4	43.1	8.5
Whitefish River	108.00	354.33			Fort Simpson - *undif.*	1	0.3	4.3	6.1	1.2	4.4	45.7	<1	13.0	0.2	3.1	7.0	308	0.8	48.1	5.2
Whitefish River	106.00	347.77			Fort Simpson - *undif.*	<1	10.7	4.8	9.0	2.2	6.4	67.2	1	39.4	0.4	4.2	20.4	372	1.4	84.4	17.3
Whitefish River	104.00	341.21			Fort Simpson - *undif.*	2	0.4	4.1	6.2	1.0	3.9	42.9	<1	28.5	0.2	2.9	9.2	413	1.2	46.2	6.9
Whitefish River	102.00	334.65			Fort Simpson - *undif.*	1	0.5	3.1	4.3	0.9	2.3	26.9	<1	28.1	0.2	1.7	7.5	308	0.9	28.4	5.4
Whitefish River	100.00	328.08			Fort Simpson - *undif.*	1	0.6	2.8	3.1	0.3	1.9	20.5	<1	28.6	0.1	1.5	8.1	287	0.5	21.9	5.2
Whitefish River	98.00	321.52			Fort Simpson - *undif.*	1	0.7	2.1	2.9	0.5	1.9	18.4	<1	17.5	0.2	1.6	5.3	269	0.6	21.7	4.0
Whitefish River	96.00	314.96			Fort Simpson - *undif.*	2	0.4	4.8	6.3	0.9	3.9	36.0	1	54.4	0.2	4.4	10.7	507	1.3	44.9	9.1
Whitefish River	94.00	308.40			Fort Simpson - *undif.*	<1	0.5	3.4	6.1	1.1	4.4	32.0	<1	36.3	0.3	2.0	12.6	396	0.8	44.8	8.7
Whitefish River	92.00	301.84			Fort Simpson - *undif.*	2	0.4	2.3	4.6	0.9	2.6	23.2	<1	28.3	0.1	1.6	11.3	352	1.3	29.8	5.5
Whitefish River	90.00	295.28			Fort Simpson - *undif.*	<1	0.6	3.5	5.6	0.9	4.4	33.8	<1	29.5	0.3	1.9	12.0	468	0.9	42.4	6.9
Whitefish River	88.00	288.71			Fort Simpson - *undif.*	<1	0.6	2.7	3.2	0.4	2.5	20.9	<1	26.6	0.1	1.2	9.2	318	0.5	23.7	6.0
Whitefish River	58.00	190.29			*unknown*	<1	0.7	3.7	4.6	1.1	3.8	27.8	<1	47.7	0.3	1.9	10.0	314	0.9	35.8	8.3
Whitefish River	56.00	183.73			*unknown*	<1	3.2	2.6	4.6	0.7	3.7	24.3	<1	12.7	0.1	1.8	4.9	408	1.3	32.5	23.4
Whitefish River	54.00	177.17			*unknown*	<1	2.5	2.8	5.2	0.8	5.7	27.7	1	14.0	0.3	2.0	4.6	459	1.7	38.1	22.1
Whitefish River	13.00	42.65			*unknown*	<1	2.3	2.3	2.9	0.8	2.6	26.2	<1	16.4	0.2	1.8	12.9	396	0.7	34.6	38.2
Whitefish River	11.00	36.09			*unknown*	6	2.7	2.6	3.2	0.8	2.9	22.7	<1	20.3	0.1	1.7	5.6	374	0.9	31.6	22.0
Whitefish River	9.00	29.53			*unknown*	2	5.5	2.2	2.4	0.6	2.0	21.1	<1	17.5	0.2	1.7	5.2	256	1.0	27.6	21.9
Whitefish River	7.00	22.97			*unknown*	<1	7.7	2.6	1.6	0.8	2.3	19.3	<1	19.5	0.2	1.6	6.0	278	1.3	27.3	33.4
Whitefish River	5.00	16.40			*unknown*	<1	2.0	1.7	1.2	0.6	2.0	15.5	<1	27.7	0.1	1.3	6.0	308	0.7	22.3	16.5
Whitefish River	3.00	9.84			*unknown*	<1	1.8	2.0	2.3	0.4	2.2	20.6	<1	18.5	0.1	1.8	5.0	496	0.6	28.5	17.2
Whitefish River	1.00	3.28			*unknown*	<1	2.1	2.0	2.1	0.5	1.6	19.4	<1	19.0	0.1	1.4	2.8	323	1.0	22.9	17.1

Notes:

Limit of detection provided in bold text under oxide/element column header.

Stratigraphy highlighted in blue is that assessed by the NEB (2016) for unconventional resources

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	TOT/C (%)
						0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02
Beaver YT G-01	3529.58	11580.0			Banff - *carbonate*	35.8	61.9	8.14	32.7	6.33	1.47	6.52	0.97	5.51	1.06	3.03	0.44	2.69	0.42	2.61
Beaver YT G-01	3535.68	11600.0			Exshaw	35.7	57.4	7.81	30.1	5.80	1.33	5.32	0.81	4.46	0.90	2.69	0.39	2.42	0.37	2.86
Beaver YT G-01	3544.82	11630.0			Exshaw	32.1	56.9	7.42	27.5	5.47	1.16	5.33	0.78	4.60	0.94	2.64	0.39	2.54	0.38	3.69
Beaver YT G-01	3550.92	11650.0			Exshaw	33.5	62.0	8.25	31.5	6.16	1.36	6.48	0.98	6.05	1.13	3.22	0.47	2.95	0.44	3.02
Beaver YT G-01	3557.02	11670.0			Exshaw	35.3	65.2	8.03	30.5	5.44	1.24	4.82	0.71	4.31	0.83	2.40	0.37	2.41	0.37	2.08
Beaver YT G-01	3563.11	11690.0			Exshaw	32.1	57.1	7.17	26.8	4.95	1.02	4.48	0.66	4.08	0.77	2.24	0.35	2.24	0.35	2.57
Beaver YT G-01	3569.21	11710.0			Exshaw	27.9	49.8	6.17	22.9	4.41	0.90	3.99	0.60	3.47	0.72	2.11	0.32	2.11	0.31	3.33
Beaver YT G-01	3575.30	11730.0			Exshaw	27.2	46.9	6.01	21.4	4.11	0.91	3.76	0.54	3.17	0.65	2.02	0.29	1.86	0.29	3.13
Beaver YT G-01	3581.40	11750.0			Exshaw	25.1	45.5	5.87	21.3	3.90	0.91	3.84	0.56	3.53	0.65	2.00	0.29	1.84	0.28	3.38
Beaver YT G-01	3587.50	11770.0			Exshaw	26.5	48.3	6.12	22.8	4.23	0.96	4.17	0.59	3.60	0.67	2.19	0.33	2.09	0.31	3.65
Beaver YT G-01	3593.59	11790.0			Exshaw	24.7	43.9	5.47	19.7	3.86	0.91	3.68	0.53	3.34	0.60	1.90	0.27	1.78	0.30	3.45
Beaver YT G-01	3599.69	11810.0			Exshaw	22.6	38.5	4.96	18.8	3.30	0.76	3.37	0.47	2.73	0.55	1.56	0.25	1.59	0.27	4.06
Beaver YT G-01	3605.78	11830.0			Exshaw	20.1	35.4	4.52	16.6	3.09	0.63	2.95	0.44	2.68	0.52	1.54	0.25	1.54	0.24	4.40
Beaver YT G-01	3611.88	11850.0			Exshaw	20.0	34.2	4.59	16.7	3.33	0.79	3.37	0.50	2.77	0.55	1.78	0.24	1.47	0.23	4.58
Beaver YT G-01	3617.98	11870.0			Exshaw	25.3	43.2	5.50	20.8	3.88	0.85	3.75	0.53	3.18	0.65	1.78	0.29	1.68	0.28	3.90
Beaver YT G-01	3621.02	11880.0			Exshaw	23.9	40.7	5.23	20.5	3.79	0.95	3.84	0.56	3.31	0.60	1.84	0.26	1.81	0.26	3.89
Beaver YT G-01	3624.07	11890.0			Exshaw	23.8	44.3	5.62	22.4	4.32	1.01	4.30	0.65	3.60	0.73	1.98	0.31	1.75	0.28	3.59
Beaver YT G-01	3627.12	11900.0			Exshaw	26.1	45.6	5.91	22.6	4.51	1.08	4.35	0.62	3.52	0.75	2.11	0.31	1.90	0.31	3.86
Beaver YT G-01	3630.17	11910.0			Exshaw	21.3	37.8	4.78	18.9	3.58	0.75	3.34	0.49	2.92	0.61	1.73	0.27	1.55	0.26	5.35
Beaver YT G-01	3633.22	11920.0			Exshaw	23.2	37.4	4.90	18.8	3.49	0.78	3.47	0.53	3.10	0.59	1.83	0.27	1.64	0.26	5.37
Beaver YT G-01	3636.26	11930.0			Exshaw	21.0	36.6	4.52	17.4	3.36	0.73	3.26	0.47	2.79	0.58	1.57	0.25	1.62	0.23	4.65
Beaver YT G-01	3642.36	11950.0			Exshaw	22.2	38.4	4.99	19.2	3.40	0.76	3.39	0.48	2.79	0.56	1.68	0.24	1.54	0.25	4.82
Beaver YT G-01	3645.41	11960.0			Patry	16.4	27.9	3.62	14.2	2.94	0.60	2.73	0.39	2.45	0.47	1.36	0.20	1.25	0.20	5.69
Beaver YT G-01	3648.46	11970.0			Patry	17.1	29.3	3.75	14.6	2.71	0.57	2.88	0.41	2.45	0.50	1.42	0.21	1.23	0.20	5.79
Beaver YT G-01	3651.50	11980.0			Patry	15.8	27.8	3.58	14.4	2.75	0.62	2.84	0.42	2.29	0.47	1.32	0.21	1.22	0.19	5.82
Beaver YT G-01	3654.55	11990.0			Patry	15.9	27.2	3.55	14.1	2.69	0.61	2.71	0.41	2.35	0.42	1.34	0.20	1.27	0.18	6.17
Beaver YT G-01	3657.60	12000.0			Patry	15.0	25.4	3.30	13.3	2.78	0.65	2.46	0.38	2.30	0.46	1.35	0.19	1.18	0.18	5.82
Beaver YT G-01	3660.65	12010.0			Patry	14.6	23.7	3.19	12.8	2.52	0.60	2.41	0.37	2.03	0.43	1.21	0.17	1.15	0.15	5.77
Beaver YT G-01	3663.70	12020.0			Patry	13.8	22.1	2.90	11.9	2.32	0.53	2.39	0.34	2.08	0.41	1.18	0.17	1.16	0.16	5.65
Beaver YT G-01	3666.74	12030.0			Patry	15.3	25.5	3.36	13.5	2.36	0.54	2.48	0.39	2.14	0.47	1.30	0.19	1.25	0.19	5.59
Beaver YT G-01	3669.79	12040.0			Patry	16.5	26.3	3.38	13.5	2.72	0.58	2.64	0.38	2.30	0.46	1.31	0.19	1.21	0.18	5.68
Beaver YT G-01	3672.84	12050.0			Patry	16.9	29.1	3.86	15.1	2.75	0.65	2.90	0.43	2.34	0.53	1.49	0.21	1.31	0.19	5.40
Beaver YT G-01	3675.89	12060.0			Patry	17.1	29.7	3.71	15.1	2.78	0.65	2.75	0.41	2.56	0.53	1.54	0.22	1.46	0.20	5.28
Beaver YT G-01	3678.94	12070.0			Patry	18.2	31.5	4.09	15.5	2.95	0.70	2.87	0.45	2.60	0.55	1.48	0.22	1.46	0.21	5.69
Beaver YT G-01	3681.98	12080.0			Patry	21.2	35.9	4.54	17.5	3.23	0.63	2.88	0.45	2.74	0.55	1.58	0.22	1.40	0.23	5.11
Beaver YT G-01	3685.03	12090.0			Patry	21.7	37.0	4.58	17.5	3.17	0.63	2.91	0.45	2.64	0.57	1.62	0.24	1.53	0.22	4.79
Beaver YT G-01	3688.08	12100.0			Patry	21.6	37.0	4.68	18.1	3.43	0.67	3.22	0.49	2.66	0.58	1.71	0.23	1.60	0.24	4.45
Beaver YT G-01	3691.13	12110.0			Patry	22.3	39.3	4.83	19.0	3.52	0.74	3.22	0.49	2.80	0.63	1.64	0.26	1.67	0.26	4.53
Beaver YT G-01	3694.18	12120.0			Patry	22.9	40.0	4.94	20.7	3.42	0.73	3.47	0.52	2.98	0.62	1.87	0.28	1.83	0.26	4.14
Beaver YT G-01	3697.22	12130.0			Patry	21.6	38.2	4.56	17.9	3.04	0.71	2.98	0.46	2.47	0.55	1.60	0.23	1.59	0.24	4.78
Beaver YT G-01	3700.27	12140.0			Patry	21.8	39.0	4.64	16.9	3.44	0.68	3.14	0.49	2.78	0.57	1.71	0.25	1.66	0.25	4.25
Beaver YT G-01	3703.32	12150.0			Patry	20.8	36.3	4.54	18.6	4.50	1.01	5.27	0.82	4.87	1.06	2.86	0.41	2.34	0.34	4.48
Beaver YT G-01	3706.37	12160.0			Patry	23.9	41.8	5.13	20.3	3.91	0.89	3.67	0.55	2.99	0.59	1.79	0.27	1.66	0.25	3.16
Beaver YT G-01	3709.42	12170.0			Patry	22.7	42.0	4.68	18.8	3.37	0.76	2.99	0.45	2.51	0.55	1.64	0.26	1.55	0.24	3.06
Beaver YT G-01	3712.46	12180.0			Fort Simpson - *upper*	20.2	36.4	4.26	16.7	3.05	0.66	2.81	0.41	2.25	0.49	1.52	0.23	1.49	0.22	3.47
Beaver YT G-01	3715.51	12190.0			Fort Simpson - *upper*	25.6	46.7	5.38	20.9	3.82	0.88	3.44	0.50	3.01	0.56	1.74	0.27	1.90	0.28	3.29
Beaver YT G-01	3718.56	12200.0			Fort Simpson - *upper*	28.3	51.5	6.29	23.7	4.03	0.96	3.63	0.52	3.03	0.70	1.91	0.29	1.99	0.31	2.57
Beaver YT G-01	3934.97	12910.0			Fort Simpson - *lower*	30.6	54.1	6.62	23.9	4.66	0.89	4.13	0.61	3.54	0.75	2.12	0.35	2.23	0.34	1.57
Beaver YT G-01	3941.06	12930.0			Fort Simpson - *lower*	28.0	46.4	5.85	22.3	3.80	0.79	3.48	0.55	3.54	0.65	2.13	0.29	2.10	0.33	2.74
Beaver YT G-01	3944.11	12940.0			Muskwa	32.3	56.6	6.69	25.8	4.66	1.11	4.75	0.72	4.03	0.85	2.31	0.35	2.46	0.37	2.06
Beaver YT G-01	3947.16	12950.0			Muskwa	31.3	57.5	6.77	26.0	5.14	1.08	4.76	0.71	4.29	0.80	2.28	0.38	2.17	0.33	2.37
Beaver YT G-01	3953.26	12970.0			Muskwa	24.9	40.9	5.24	20.7	4.21	0.84	4.13	0.60	3.72	0.70	2.11	0.31	2.03	0.32	4.16
Beaver YT G-01	3962.40	13000.0			Muskwa	23.4	37.7	4.96	19.5	3.53	0.78	3.45	0.52	2.99	0.61	1.86	0.28	1.78	0.28	4.58
Beaver YT G-01	3968.50	13020.0			Muskwa	35.5	65.8	7.91	30.2	6.04	1.31	5.64	0.86	4.53	0.96	2.89	0.39	2.59	0.42	1.92
Beaver YT G-01	3977.64	13050.0			Muskwa	22.7	39.5	5.00	20.2	3.24	0.86	3.49	0.51	2.92	0.63	1.82	0.26	1.50	0.25	4.02
Beaver YT G-01	3980.69	13060.0			Muskwa	24.2	46.6	5.61	21.2	3.99	0.91	3.76	0.56	3.16	0.73	1.88	0.27	1.89	0.28	3.73

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	TOT/C (%)
						0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02
Beaver YT G-01	3983.74	13070.0			Otter Park	23.7	41.4	5.03	19.1	3.37	0.79	3.43	0.50	3.03	0.58	1.83	0.27	1.75	0.28	3.45
Beaver YT G-01	3995.93	13110.0			Otter Park	21.8	43.9	5.04	18.7	3.12	0.73	3.23	0.49	2.66	0.61	1.65	0.27	1.78	0.25	3.87
Beaver YT G-01	4008.12	13150.0			Otter Park	23.6	44.9	5.17	20.8	3.44	0.76	3.32	0.51	3.00	0.63	1.74	0.28	1.80	0.28	3.62
Beaver YT G-01	4020.31	13190.0			Otter Park	25.8	48.9	6.03	21.9	4.38	0.87	3.64	0.57	3.42	0.62	1.95	0.30	1.82	0.28	4.05
Beaver YT G-01	4023.36	13200.0			Otter Park	26.7	50.4	5.95	22.8	4.25	0.93	4.01	0.55	3.16	0.75	2.06	0.28	1.71	0.31	4.15
Beaver YT G-01	4029.46	13220.0			Otter Park	27.7	49.4	5.97	22.3	3.96	0.94	3.81	0.56	3.10	0.60	2.03	0.27	2.06	0.33	3.66
Beaver YT G-01	4038.60	13250.0			Otter Park	23.5	42.4	5.23	21.6	4.00	0.76	3.64	0.57	3.08	0.68	2.15	0.30	1.83	0.26	5.22
Beaver YT G-01	4047.74	13280.0			Otter Park	21.1	33.5	4.47	17.7	2.99	0.77	3.31	0.47	2.90	0.54	1.69	0.26	1.66	0.27	4.98
Beaver YT G-01	4050.79	13290.0			Otter Park	19.8	33.5	4.26	16.9	3.03	0.81	3.36	0.49	3.20	0.59	1.62	0.28	1.61	0.29	4.89
Beaver YT G-01	4053.84	13300.0			Evie	23.9	41.8	5.27	21.4	3.76	0.92	3.67	0.51	3.17	0.68	2.00	0.30	1.88	0.28	4.17
Beaver YT G-01	4059.94	13320.0			Evie	23.9	42.6	5.31	19.3	3.79	0.98	3.56	0.55	3.30	0.66	2.12	0.28	1.90	0.30	4.09
Beaver YT G-01	4069.08	13350.0			Evie	19.0	31.0	4.23	16.6	3.17	0.78	3.09	0.44	2.62	0.56	1.49	0.24	1.46	0.25	5.43
Beaver YT G-01	4084.32	13400.0			Evie	19.4	30.5	4.22	16.6	2.90	0.73	3.15	0.45	2.79	0.53	1.70	0.25	1.56	0.23	5.05
Beaver YT G-01	4093.46	13430.0			Evie	22.5	30.3	4.62	18.5	3.57	0.83	3.49	0.50	3.03	0.63	1.89	0.28	1.79	0.30	5.90
Beaver YT G-01	4102.61	13460.0			Evie	20.8	29.2	4.46	18.7	3.20	0.89	3.41	0.47	2.95	0.68	1.79	0.23	1.80	0.26	5.34
Beaver YT G-01	4105.66	13470.0			Evie	16.0	20.1	3.26	13.8	2.40	0.58	2.55	0.37	2.15	0.45	1.33	0.19	1.22	0.20	5.12
Beaver YT G-01	4108.70	13480.0			Evie	12.9	19.7	2.72	11.0	2.19	0.55	2.30	0.31	1.67	0.39	1.17	0.13	0.98	0.14	3.73
Beaver YT G-01	4111.75	13490.0			Nahanni	15.4	19.1	2.62	10.7	1.94	0.53	1.96	0.25	1.57	0.35	0.86	0.11	0.92	0.15	3.66
Beaver YT G-01	4114.80	13500.0			Nahanni	14.8	20.0	2.60	10.3	1.93	0.47	1.80	0.26	1.54	0.34	0.97	0.13	0.95	0.17	3.47
Beaver YT G-01	4123.94	13530.0			Nahanni	19.0	33.1	3.78	14.4	2.49	0.60	2.15	0.36	1.99	0.48	1.33	0.19	1.31	0.22	4.91
Beavercrow YT B-16	1453.90	4770.0			Exshaw	55.5	99.1	12.09	47.1	8.21	2.35	7.80	1.11	6.27	1.30	3.69	0.55	3.67	0.58	3.24
Beavercrow YT B-16	1463.04	4800.0			Exshaw	51.7	92.8	11.06	40.6	7.52	1.86	6.91	0.96	5.83	1.17	3.42	0.47	3.43	0.54	3.25
Beavercrow YT B-16	1469.14	4820.0			Exshaw	48.3	84.6	10.60	40.5	7.14	1.98	6.64	0.96	5.57	1.17	3.26	0.50	3.20	0.49	3.37
Beavercrow YT B-16	1478.28	4850.0			Exshaw	29.8	48.0	6.60	26.4	4.60	1.66	4.53	0.63	3.89	0.83	2.47	0.36	2.25	0.35	4.03
Beavercrow YT B-16	1487.42	4880.0			Exshaw	28.6	49.2	6.89	26.6	5.57	1.33	6.15	0.90	5.02	1.15	3.24	0.43	2.56	0.39	3.89
Beavercrow YT B-16	1496.57	4910.0			Exshaw	21.1	36.8	4.86	18.1	3.41	0.85	3.45	0.48	2.79	0.67	1.77	0.24	1.74	0.27	3.38
Beavercrow YT B-16	1505.71	4940.0			Patry	21.0	33.8	4.25	16.2	3.04	0.63	2.57	0.39	1.95	0.48	1.62	0.23	1.49	0.25	4.89
Beavercrow YT B-16	1511.81	4960.0			Patry	16.2	30.8	3.56	13.6	2.27	0.49	2.19	0.29	1.86	0.37	1.10	0.16	1.09	0.18	4.38
Beavercrow YT B-16	1514.86	4970.0			Patry	17.6	31.2	3.59	14.4	2.65	0.60	2.46	0.35	1.83	0.41	1.32	0.19	1.24	0.19	4.47
Beavercrow YT B-16	1520.95	4990.0			Patry	16.5	28.4	3.64	13.9	2.67	0.61	2.34	0.35	2.11	0.42	1.28	0.20	1.36	0.21	4.53
Beavercrow YT B-16	1524.00	5000.0			Patry	17.4	29.2	3.64	14.0	2.55	0.60	2.41	0.36	2.06	0.43	1.47	0.20	1.14	0.21	4.36
Beavercrow YT B-16	1533.14	5030.0			Patry	21.5	38.5	4.60	16.5	2.88	0.79	3.04	0.43	2.76	0.58	1.59	0.24	1.59	0.26	4.41
Beavercrow YT B-16	1542.29	5060.0			Patry	16.6	28.8	3.70	13.6	2.66	0.60	2.28	0.38	2.02	0.48	1.27	0.21	1.22	0.19	3.12
Beavercrow YT B-16	1548.38	5080.0			Patry	22.3	41.6	4.88	18.6	3.07	0.58	2.30	0.42	2.38	0.54	1.51	0.22	1.55	0.26	2.35
Beavercrow YT B-16	1551.43	5090.0			Fort Simpson - *upper*	23.6	45.3	5.13	19.5	3.51	0.67	2.78	0.43	2.31	0.56	1.64	0.26	1.75	0.27	2.11
Beavercrow YT B-16	1554.48	5100.0			Fort Simpson - *upper*	23.5	47.2	5.27	19.3	3.38	0.68	2.63	0.41	2.53	0.57	1.59	0.28	1.61	0.27	1.89
Beavercrow YT B-16	1563.62	5130.0			Fort Simpson - *middle*	20.6	37.8	4.59	17.9	3.29	0.71	2.98	0.44	2.39	0.53	1.62	0.26	1.48	0.21	2.36
Beavercrow YT K-02	972.31	3190.0			Banff - *carbonate*	30.6	46.0	6.35	25.0	4.42	1.02	4.14	0.60	3.50	0.76	2.18	0.34	2.15	0.31	4.01
Beavercrow YT K-02	993.65	3260.0			Exshaw	22.9	37.3	4.82	19.3	3.33	0.76	2.91	0.46	2.71	0.57	1.61	0.25	1.71	0.26	5.13
Beavercrow YT K-02	999.74	3280.0			Exshaw	21.3	35.6	4.71	18.5	3.21	0.70	3.06	0.45	2.75	0.59	1.68	0.26	1.72	0.25	4.64
Beavercrow YT K-02	1005.84	3300.0			Exshaw	19.7	32.0	4.23	16.5	2.81	0.57	2.58	0.39	2.27	0.48	1.47	0.23	1.36	0.22	3.65
Beavercrow YT K-02	1011.94	3320.0			Exshaw	17.6	29.7	4.07	15.9	2.83	0.68	2.86	0.42	2.39	0.51	1.47	0.21	1.37	0.22	3.51
Beavercrow YT K-02	1018.03	3340.0			Exshaw	13.9	23.1	2.93	11.5	2.10	0.47	2.05	0.30	1.73	0.38	1.13	0.16	1.03	0.15	3.36
Beavercrow YT K-02	1024.13	3360.0			Exshaw	19.9	32.7	4.26	16.0	3.11	0.75	3.09	0.46	2.67	0.57	1.64	0.25	1.41	0.23	4.63
Beavercrow YT K-02	1033.27	3390.0			Exshaw	13.0	19.9	2.56	10.5	1.84	0.46	1.78	0.27	1.65	0.34	1.01	0.14	0.92	0.13	3.58
Beavercrow YT K-02	1039.37	3410.0			Exshaw	13.5	21.5	2.72	10.9	1.81	0.41	1.96	0.29	1.57	0.36	1.08	0.15	1.05	0.16	3.36
Beavercrow YT K-02	1045.46	3430.0			Patry	15.5	24.2	3.24	12.8	2.46	0.59	2.42	0.37	2.19	0.45	1.28	0.18	1.24	0.17	4.68
Beavercrow YT K-02	1051.56	3450.0			Patry	19.0	31.3	4.03	16.5	3.09	0.73	3.11	0.46	2.75	0.62	1.77	0.27	1.68	0.27	6.29
Beavercrow YT K-02	1057.66	3470.0			Patry	14.7	24.2	3.15	12.5	2.31	0.57	2.25	0.32	1.80	0.39	1.07	0.14	1.00	0.17	4.13
Beavercrow YT K-02	1063.75	3490.0			Patry	16.3	26.1	3.35	13.5	2.56	0.56	2.52	0.34	1.97	0.44	1.35	0.19	1.18	0.19	4.76
Beavercrow YT K-02	1069.85	3510.0			Patry	16.7	29.9	3.79	15.9	2.73	0.62	2.65	0.41	2.42	0.50	1.54	0.22	1.35	0.20	4.87
Beavercrow YT K-02	1075.94	3530.0			Patry	15.2	26.3	3.41	13.6	2.68	0.57	2.65	0.40	2.13	0.45	1.29	0.19	1.15	0.18	4.35
Beavercrow YT K-02	1082.04	3550.0			Patry	18.1	30.4	3.83	14.5	2.91	0.66	2.75	0.43	2.31	0.54	1.43	0.22	1.40	0.20	4.48
Beavercrow YT K-02	1088.14	3570.0			Patry	16.7	27.4	3.65	14.6	2.67	0.69	2.76	0.43	2.24	0.53	1.54	0.23	1.49	0.22	4.33
Beavercrow YT K-02	1094.23	3590.0			Patry	18.7	32.9	3.91	15.4	2.92	0.72	2.92	0.43	2.55	0.56	1.55	0.23	1.48	0.23	5.73
Beavercrow YT K-02	1106.42	3630.0			Patry	18.9	31.7	3.89	14.9	2.86	0.62	2.73	0.40	2.34	0.51	1.54	0.21	1.40	0.22	3.65

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	TOT/C (%)
						0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02
Beavercrow YT K-02	1112.52	3650.0			Patry	21.1	36.7	4.57	17.0	3.45	0.72	3.05	0.46	2.64	0.52	1.59	0.23	1.53	0.23	3.13
Beavercrow YT K-02	1118.62	3670.0			Patry	24.8	44.3	5.47	21.5	4.03	0.88	3.63	0.54	3.32	0.64	1.86	0.27	1.88	0.28	3.30
Beavercrow YT K-02	1124.71	3690.0			Patry	19.6	36.8	4.32	16.2	3.12	0.65	2.70	0.39	2.52	0.53	1.46	0.22	1.47	0.22	3.21
Beavercrow YT K-02	1136.90	3730.0			Fort Simpson - *upper*	28.5	50.4	6.11	23.9	4.21	0.93	3.72	0.55	3.24	0.67	1.91	0.30	1.87	0.29	2.96
Beavercrow YT K-02	1143.00	3750.0			Fort Simpson - *upper*	27.7	50.4	6.04	22.1	3.82	0.76	3.29	0.50	3.11	0.59	1.70	0.26	1.93	0.30	2.50
Beavercrow YT K-02	1152.14	3780.0			Fort Simpson - *upper*	22.7	40.8	5.13	18.0	3.18	0.63	3.11	0.45	2.58	0.54	1.55	0.22	1.71	0.23	2.71
Beavercrow YT K-02	1158.24	3800.0			Fort Simpson - *upper*	23.0	40.2	4.94	18.0	3.26	0.64	2.65	0.42	2.42	0.52	1.45	0.24	1.49	0.26	2.91
Beavercrow YT K-02	1167.38	3830.0			Fort Simpson - *upper*	31.9	58.9	7.07	25.6	4.55	1.02	4.32	0.66	3.67	0.80	2.31	0.33	2.19	0.33	3.04
Beavercrow YT K-02	1258.82	4130.0			Fort Simpson - *lower*	26.3	50.6	6.19	22.1	4.71	1.00	4.38	0.69	3.84	0.81	2.22	0.33	2.05	0.33	2.39
Beavercrow YT K-02	1267.97	4160.0			Fort Simpson - *lower*	25.5	48.2	6.02	22.1	4.26	0.90	3.68	0.57	3.20	0.64	1.95	0.31	2.12	0.31	2.29
Beavercrow YT K-02	1277.11	4190.0			Muskwa	25.5	48.0	6.11	24.0	4.59	1.08	4.18	0.67	3.67	0.76	1.97	0.34	1.95	0.33	3.23
Beavercrow YT K-02	1286.26	4220.0			Muskwa	26.7	50.9	6.00	22.1	4.12	0.86	4.05	0.64	3.36	0.78	2.14	0.32	2.15	0.34	3.22
Beavercrow YT K-02	1295.40	4250.0			Muskwa	18.5	32.7	4.23	16.1	3.29	0.57	3.28	0.55	3.20	0.64	1.99	0.33	1.99	0.32	3.47
Beavercrow YT K-02	1304.54	4280.0			Muskwa	24.6	47.8	6.03	21.5	4.28	1.03	4.25	0.64	3.57	0.79	2.11	0.34	2.11	0.35	3.76
Beavercrow YT K-02	1313.69	4310.0			Muskwa	14.1	21.1	2.98	11.3	2.33	0.53	2.49	0.40	2.43	0.55	1.41	0.22	1.50	0.20	4.82
Beavercrow YT K-02	1322.83	4340.0			Otter Park	14.0	23.7	3.06	10.9	2.37	0.42	2.30	0.35	1.88	0.46	1.40	0.18	1.07	0.18	3.63
Beavercrow YT K-02	1331.98	4370.0			Otter Park	24.8	43.4	5.41	19.2	3.58	0.76	3.44	0.55	3.16	0.71	2.04	0.31	2.01	0.29	3.85
Beavercrow YT K-02	1341.12	4400.0			Otter Park	21.7	41.7	5.07	19.7	3.84	0.88	4.06	0.59	3.06	0.62	1.88	0.30	2.07	0.30	4.05
Beavercrow YT K-02	1350.26	4430.0			Otter Park	23.2	44.0	5.19	21.2	3.61	0.78	3.29	0.52	3.00	0.65	1.84	0.29	1.84	0.28	3.56
Beavercrow YT K-02	1359.41	4460.0			Otter Park	24.7	44.2	5.56	21.5	3.97	0.85	3.53	0.53	3.02	0.61	1.99	0.32	2.04	0.30	3.91
Beavercrow YT K-02	1365.50	4480.0			Otter Park	21.1	33.3	4.37	17.5	3.14	0.62	3.23	0.50	2.96	0.64	1.76	0.22	1.42	0.22	4.04
Beavercrow YT K-02	1368.55	4490.0			Evie	21.0	38.8	4.53	17.2	3.68	0.76	3.87	0.57	3.35	0.67	2.05	0.28	1.68	0.25	6.53
Beavercrow YT K-02	1377.70	4520.0			Evie	27.9	52.6	6.50	23.9	4.33	0.84	4.03	0.60	3.38	0.75	2.21	0.29	1.94	0.32	4.10
Beavercrow YT K-02	1389.89	4560.0			Evie	21.6	37.1	4.82	18.4	3.56	0.73	3.51	0.55	3.34	0.72	2.06	0.29	1.90	0.28	4.23
Beavercrow YT K-02	1399.03	4590.0			Evie	19.4	27.6	4.02	15.0	2.96	0.56	2.92	0.45	2.76	0.64	1.88	0.25	1.65	0.26	4.56
Beavercrow YT K-02	1402.08	4600.0			Evie	16.0	24.9	3.07	12.0	2.10	0.34	1.98	0.30	1.60	0.36	1.06	0.16	0.93	0.15	3.74
Beavercrow YT K-02	1408.18	4620.0			Nahanni	17.3	31.5	3.83	13.6	2.71	0.44	2.26	0.34	2.05	0.41	1.21	0.19	1.16	0.19	6.87
Beavercrow YT K-02	1411.22	4630.0			Nahanni	4.1	7.0	0.86	3.2	0.65	0.12	0.60	0.09	0.53	0.10	0.34	0.05	0.36	0.05	10.37
Beavercrow YT K-02	1414.27	4640.0			Nahanni	4.9	8.0	1.00	3.6	0.65	0.16	0.74	0.12	0.62	0.16	0.43	0.05	0.33	0.06	11.09
Beavercrow YT K-02	1420.37	4660.0			Nahanni	9.3	15.4	1.97	7.3	1.13	0.27	1.39	0.20	1.24	0.26	0.65	0.11	0.64	0.12	10.00
Beavercrow YT K-02	1423.42	4670.0			Nahanni	11.2	16.3	2.32	9.4	1.46	0.34	1.74	0.23	1.33	0.30	0.85	0.14	0.65	0.11	2.69
Kotaneelee YT I-48	3036.00	9960.63	3030.00	9940.95	Banff - *shale*	41.4	78.3	8.80	33.5	6.17	1.32	5.69	0.81	4.91	0.91	2.74	0.39	2.81	0.40	0.80
Kotaneelee YT I-48	3045.00	9990.16	3039.00	9970.47	Banff - *shale*	40.8	79.0	8.40	31.1	5.68	1.22	5.71	0.83	5.01	0.94	2.72	0.40	2.57	0.39	1.06
Kotaneelee YT I-48	3054.00	10019.69	3048.00	10000.00	Banff - *shale*	41.9	76.0	8.77	33.0	5.72	1.32	5.58	0.83	4.65	0.97	2.72	0.40	2.58	0.44	0.95
Kotaneelee YT I-48	3060.00	10039.37	3054.00	10019.69	Banff - *shale*	37.7	72.3	8.31	30.4	5.78	1.36	5.43	0.82	4.37	0.90	2.77	0.40	2.57	0.37	1.17
Kotaneelee YT I-48	3072.00	10078.74	3066.00	10059.06	Banff - *shale*	37.7	68.8	8.10	31.1	5.59	1.23	5.25	0.81	4.51	0.88	2.67	0.39	2.66	0.37	1.38
Kotaneelee YT I-48	3078.00	10098.43	3072.00	10078.74	Banff - *shale*	38.8	76.3	8.61	32.7	6.49	1.51	6.38	0.98	5.24	0.99	2.98	0.41	2.59	0.41	1.31
Kotaneelee YT I-48	3084.00	10118.11	3078.00	10098.43	Banff - *shale*	39.1	66.1	8.41	32.9	5.85	1.25	5.45	0.86	4.58	0.86	2.81	0.41	2.60	0.39	1.51
Kotaneelee YT I-48	3090.00	10137.80	3084.00	10118.11	Banff - *shale*	38.1	69.8	8.43	31.1	5.88	1.33	5.59	0.85	4.43	0.91	2.65	0.39	2.60	0.38	1.53
Kotaneelee YT I-48	3096.00	10157.48	3090.00	10137.80	Banff - *shale*	38.4	70.7	7.99	30.4	5.74	1.16	5.26	0.79	4.16	0.88	2.54	0.40	2.76	0.39	1.51
Kotaneelee YT I-48	3099.00	10167.32	3093.00	10147.64	Banff - *shale*	38.1	67.9	8.57	31.8	5.65	1.20	5.22	0.78	4.31	0.80	2.46	0.38	2.65	0.37	1.67
Kotaneelee YT I-48	3108.00	10196.85	3102.00	10177.17	Banff - *carbonate*	39.1	72.6	8.27	31.4	5.89	1.37	5.53	0.84	4.62	0.93	2.72	0.39	2.56	0.41	1.67
Kotaneelee YT I-48	3117.00	10226.38	3111.00	10206.69	Banff - *carbonate*	30.9	58.2	6.94	27.1	4.79	1.11	4.72	0.75	4.12	0.75	2.24	0.35	2.28	0.35	3.41
Kotaneelee YT I-48	3126.00	10255.91	3120.00	10236.22	Banff - *carbonate*	39.6	69.4	8.51	31.2	5.54	1.23	5.37	0.82	5.24	1.00	2.68	0.39	2.79	0.39	1.74
Kotaneelee YT I-48	3135.00	10285.43	3129.00	10265.75	Banff - *carbonate*	34.5	64.1	7.18	29.0	5.11	1.07	4.62	0.72	3.98	0.83	2.38	0.35	2.38	0.35	2.87
Kotaneelee YT I-48	3144.00	10314.96	3138.00	10295.28	Banff - *carbonate*	38.6	71.4	8.27	31.5	5.72	1.25	5.45	0.86	4.71	0.91	2.67	0.40	2.68	0.40	1.41
Kotaneelee YT I-48	3153.00	10344.49	3147.00	10324.80	Banff - *carbonate*	38.9	72.5	8.63	33.5	6.22	1.43	6.01	0.91	4.73	0.98	2.60	0.40	2.69	0.44	1.42
Kotaneelee YT I-48	3156.00	10354.33	3150.00	10334.65	Banff - *carbonate*	40.7	74.6	8.56	32.6	5.60	1.22	5.15	0.82	4.63	0.93	2.56	0.41	2.60	0.40	1.26
Kotaneelee YT I-48	3162.00	10374.02	3156.00	10354.33	Exshaw	38.1	69.3	8.29	32.2	6.25	1.42	6.28	0.93	5.17	0.97	2.73	0.42	2.65	0.41	2.30
Kotaneelee YT I-48	3168.00	10393.70	3162.00	10374.02	Exshaw	39.0	75.2	8.77	33.4	6.32	1.42	6.14	0.95	4.87	1.05	2.54	0.40	2.66	0.37	1.74
Kotaneelee YT I-48	3174.00	10413.39	3168.00	10393.70	Exshaw	40.1	72.8	8.42	31.1	6.36	1.43	6.39	0.96	5.24	1.03	2.89	0.43	2.43	0.39	1.92
Kotaneelee YT I-48	3180.00	10433.07	3174.00	10413.39	Exshaw	38.4	62.6	8.10	30.0	6.28	1.39	6.32	0.95	5.08	1.09	3.04	0.42	2.72	0.39	2.67
Kotaneelee YT I-48	3186.00	10452.76	3180.00	10433.07	Exshaw	37.5	63.2	8.49	35.0	6.93	1.66	7.55	1.13	6.70	1.33	3.89	0.50	2.99	0.43	2.95
Kotaneelee YT I-48	3192.00	10472.44	3186.00	10452.76	Exshaw	34.1	56.4	8.05	33.4	7.06	1.68	7.82	1.19	6.41	1.31	3.69	0.50	2.98	0.44	3.24
Kotaneelee YT I-48	3198.00	10492.13	3192.00	10472.44	Exshaw	37.8	64.3	8.66	34.0	6.88	1.70	7.24	1.10	6.29	1.22	3.30	0.49	2.98	0.45	2.89
Kotaneelee YT I-48	3204.00	10511.81	3198.00	10492.13	Exshaw	36.4	65.2	8.31	33.6	6.48	1.55	6.61	0.99	5.56	1.18	3.23	0.47	2.75	0.42	2.74

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	TOT/C (%)
						0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02
Kotaneelee YT I-48	3210.00	10531.50	3204.00	10511.81	Exshaw	36.7	67.5	8.16	32.4	6.05	1.45	6.04	0.88	5.02	0.98	2.75	0.42	2.73	0.42	2.15
Kotaneelee YT I-48	3216.00	10551.18	3210.00	10531.50	Exshaw	38.8	63.9	7.98	29.3	5.70	1.16	5.57	0.86	4.72	0.94	2.87	0.38	2.57	0.41	2.46
Kotaneelee YT I-48	3222.00	10570.87	3216.00	10551.18	Exshaw	31.1	56.1	6.38	24.1	4.32	1.00	4.02	0.61	3.64	0.73	2.16	0.32	2.09	0.35	3.63
Kotaneelee YT I-48	3228.00	10590.55	3222.00	10570.87	Exshaw	27.3	48.4	5.92	22.0	3.77	0.91	3.87	0.58	3.31	0.66	2.20	0.31	1.98	0.29	3.35
Kotaneelee YT I-48	3234.00	10610.24	3228.00	10590.55	Exshaw	28.7	50.6	6.33	22.6	4.33	0.97	4.23	0.66	4.02	0.73	2.19	0.34	2.12	0.33	3.75
Kotaneelee YT I-48	3246.00	10649.61	3240.00	10629.92	Exshaw	21.2	32.8	4.31	17.0	3.17	0.63	2.94	0.42	2.56	0.52	1.55	0.22	1.50	0.21	4.01
Kotaneelee YT I-48	3249.00	10659.45	3243.00	10639.76	Exshaw	19.2	33.8	4.06	15.5	2.88	0.69	2.69	0.43	2.26	0.59	1.55	0.21	1.48	0.21	4.08
Kotaneelee YT I-48	3252.00	10669.29	3246.00	10649.61	Exshaw	17.1	31.2	3.86	14.6	2.85	0.68	2.73	0.42	2.26	0.51	1.50	0.20	1.31	0.20	3.96
Kotaneelee YT I-48	3255.00	10679.13	3249.00	10659.45	Exshaw	17.1	30.1	3.72	14.2	2.71	0.55	2.53	0.38	2.13	0.44	1.34	0.19	1.33	0.22	3.95
Kotaneelee YT I-48	3258.00	10688.98	3252.00	10669.29	Exshaw	17.3	27.9	3.74	14.4	2.57	0.63	2.87	0.40	2.43	0.45	1.50	0.21	1.28	0.19	4.61
Kotaneelee YT I-48	3261.00	10698.82	3255.00	10679.13	Exshaw	18.9	31.6	3.98	16.8	2.74	0.66	2.90	0.44	2.33	0.53	1.61	0.23	1.39	0.22	4.92
Kotaneelee YT I-48	3264.00	10708.66	3258.00	10688.98	Exshaw	19.2	29.7	4.00	15.9	2.86	0.72	3.11	0.47	2.71	0.57	1.58	0.22	1.46	0.22	5.31
Kotaneelee YT I-48	3267.00	10718.50	3261.00	10698.82	Exshaw	18.5	30.0	3.96	17.3	3.14	0.76	3.11	0.47	2.66	0.53	1.57	0.22	1.44	0.22	5.73
Kotaneelee YT I-48	3270.00	10728.35	3264.00	10708.66	Exshaw	18.2	30.8	3.85	15.3	2.73	0.67	2.89	0.44	2.46	0.55	1.43	0.22	1.36	0.21	5.72
Kotaneelee YT I-48	3273.00	10738.19	3267.00	10718.50	Patry	12.4	20.7	2.69	11.7	2.22	0.50	2.20	0.31	1.66	0.41	1.12	0.17	1.07	0.17	5.64
Kotaneelee YT I-48	3276.00	10748.03	3270.00	10728.35	Patry	14.1	22.5	2.66	10.6	2.22	0.42	2.17	0.32	1.62	0.42	1.12	0.16	1.08	0.15	5.35
Kotaneelee YT I-48	3279.00	10757.87	3273.00	10738.19	Patry	13.0	21.6	2.78	12.4	2.09	0.46	2.19	0.32	1.88	0.44	1.15	0.17	0.85	0.15	5.75
Kotaneelee YT I-48	3282.00	10767.72	3276.00	10748.03	Patry	11.5	19.2	2.44	9.8	2.05	0.36	2.09	0.31	1.57	0.34	0.98	0.13	0.82	0.13	5.05
Kotaneelee YT I-48	3285.00	10777.56	3279.00	10757.87	Patry	12.8	22.8	2.83	10.8	2.23	0.50	2.28	0.35	2.06	0.40	1.18	0.13	0.91	0.16	5.07
Kotaneelee YT I-48	3288.00	10787.40	3282.00	10767.72	Patry	13.2	24.7	3.16	12.3	2.38	0.58	2.43	0.36	2.03	0.44	1.25	0.15	1.02	0.14	5.31
Kotaneelee YT I-48	3291.00	10797.24	3285.00	10777.56	Patry	13.3	22.5	2.94	12.3	2.14	0.52	2.30	0.35	2.00	0.38	1.10	0.14	0.97	0.17	5.70
Kotaneelee YT I-48	3294.00	10807.09	3288.00	10787.40	Patry	12.9	22.2	3.09	13.4	2.35	0.55	2.51	0.37	2.03	0.43	1.16	0.17	1.07	0.15	5.49
Kotaneelee YT I-48	3297.00	10816.93	3291.00	10797.24	Patry	13.5	25.2	3.18	12.5	2.41	0.55	2.57	0.33	2.22	0.42	1.29	0.17	1.06	0.15	5.26
Kotaneelee YT I-48	3300.00	10826.77	3294.00	10807.09	Patry	13.5	23.5	3.13	12.3	2.49	0.53	2.39	0.36	2.17	0.42	1.25	0.17	1.20	0.17	5.50
Kotaneelee YT I-48	3303.00	10836.61	3297.00	10816.93	Patry	14.5	25.8	3.19	12.7	2.46	0.51	2.35	0.36	2.24	0.47	1.27	0.19	1.15	0.20	5.52
Kotaneelee YT I-48	3306.00	10846.46	3300.00	10826.77	Patry	15.1	25.8	3.44	13.3	2.60	0.62	2.68	0.39	2.43	0.47	1.32	0.19	1.27	0.18	5.25
Kotaneelee YT I-48	3309.00	10856.30	3303.00	10836.61	Patry	16.3	27.2	3.68	14.9	2.78	0.59	2.74	0.41	2.27	0.47	1.59	0.21	1.28	0.21	5.16
Kotaneelee YT I-48	3312.00	10866.14	3306.00	10846.46	Patry	14.1	26.2	3.17	11.8	2.39	0.56	2.57	0.37	2.26	0.43	1.33	0.17	1.22	0.17	6.28
Kotaneelee YT I-48	3315.00	10875.98	3309.00	10856.30	Patry	17.4	32.1	3.88	15.4	2.82	0.55	2.66	0.42	2.46	0.52	1.51	0.19	1.30	0.24	5.28
Kotaneelee YT I-48	3318.00	10885.83	3312.00	10866.14	Patry	18.3	35.6	4.28	15.2	3.10	0.64	2.77	0.43	2.62	0.50	1.66	0.22	1.40	0.23	5.26
Kotaneelee YT I-48	3321.00	10895.67	3315.00	10875.98	Patry	16.4	31.1	3.57	14.5	2.90	0.64	2.56	0.40	2.49	0.52	1.45	0.19	1.36	0.20	4.16
Kotaneelee YT I-48	3324.00	10905.51	3318.00	10885.83	Patry	16.4	32.4	3.73	15.2	2.83	0.57	2.89	0.41	2.34	0.54	1.40	0.21	1.39	0.20	4.02
Kotaneelee YT I-48	3330.00	10925.20	3324.00	10905.51	Patry	17.7	33.9	3.79	14.8	2.82	0.64	2.68	0.40	2.34	0.45	1.53	0.21	1.39	0.21	4.36
Kotaneelee YT I-48	3333.00	10935.04	3327.00	10915.35	Patry	17.0	31.1	3.66	14.3	2.79	0.54	2.58	0.38	2.16	0.42	1.47	0.21	1.35	0.19	4.26
Kotaneelee YT I-48	3336.00	10944.88	3330.00	10925.20	Fort Simpson - *upper*	19.6	32.7	4.08	15.0	2.79	0.75	2.99	0.43	2.47	0.50	1.48	0.20	1.27	0.23	4.64
Kotaneelee YT I-48	3339.00	10954.72	3333.00	10935.04	Fort Simpson - *upper*	26.3	50.3	5.76	21.1	3.96	0.79	4.03	0.57	3.36	0.60	1.71	0.26	1.83	0.29	2.52
Kotaneelee YT I-48	3342.00	10964.57	3336.00	10944.88	Fort Simpson - *upper*	28.3	58.9	6.46	23.3	4.48	0.96	4.12	0.62	3.72	0.73	2.08	0.32	2.16	0.31	2.43
Kotaneelee YT I-48	3534.00	11594.49	3528.00	11574.80	Fort Simpson - *lower*	34.9	64.1	7.45	28.0	5.20	1.14	4.45	0.69	4.09	0.87	2.44	0.36	2.34	0.37	1.41
Kotaneelee YT I-48	3537.00	11604.33	3531.00	11584.65	Fort Simpson - *lower*	33.1	60.0	7.26	27.6	5.25	1.21	5.13	0.77	4.54	0.93	2.65	0.39	2.51	0.37	2.26
Kotaneelee YT I-48	3540.00	11614.17	3534.00	11594.49	Fort Simpson - *lower*	31.9	59.9	7.08	26.1	5.47	1.21	5.24	0.81	4.89	0.94	2.81	0.40	2.53	0.36	2.44
Kotaneelee YT I-48	3546.00	11633.86	3538.00	11607.61	Fort Simpson - *lower*	35.1	66.8	7.89	30.6	5.88	1.32	5.59	0.87	5.04	1.01	2.90	0.41	2.78	0.42	2.08
Kotaneelee YT I-48	3549.00	11643.70	3541.00	11617.45	Fort Simpson - *lower*	36.0	69.3	8.10	30.0	5.60	1.33	5.63	0.86	4.83	0.93	2.85	0.42	2.87	0.42	1.99
Kotaneelee YT I-48	3552.00	11653.54	3544.00	11627.30	Fort Simpson - *lower*	36.0	76.6	8.86	33.1	5.80	1.54	6.01	0.90	5.49	0.98	3.19	0.44	3.10	0.45	2.45
Kotaneelee YT I-48	3555.00	11663.39	3547.00	11637.14	Fort Simpson - *lower*	36.1	67.5	8.16	32.0	6.12	1.41	6.62	1.00	5.46	1.08	3.01	0.42	2.81	0.41	2.82
Kotaneelee YT I-48	3558.00	11673.23	3550.00	11646.98	Muskwa	29.1	51.8	6.71	25.4	5.18	1.15	5.06	0.75	4.48	0.92	2.52	0.37	2.44	0.39	4.11
Kotaneelee YT I-48	3561.00	11683.07	3553.00	11656.82	Muskwa	20.0	32.2	4.35	16.1	3.18	0.62	3.19	0.47	2.63	0.61	1.78	0.24	1.43	0.23	5.06
Kotaneelee YT I-48	3564.00	11692.91	3556.00	11666.67	Muskwa	20.4	33.0	4.37	16.2	3.21	0.77	3.32	0.51	2.95	0.62	1.91	0.27	1.64	0.24	5.10
Kotaneelee YT I-48	3567.00	11702.76	3559.00	11676.51	Muskwa	16.8	26.7	3.58	14.7	2.79	0.64	2.73	0.41	2.52	0.55	1.57	0.22	1.45	0.22	4.37
Kotaneelee YT I-48	3576.00	11732.28	3568.00	11706.04	Otter Park	19.1	31.7	3.99	15.2	2.82	0.64	2.96	0.41	2.56	0.51	1.53	0.21	1.43	0.22	5.16
Kotaneelee YT I-48	3579.00	11742.13	3571.00	11715.88	Otter Park	18.9	34.5	4.27	16.0	3.27	0.75	3.32	0.49	2.66	0.60	1.56	0.22	1.54	0.22	4.89
Kotaneelee YT I-48	3582.00	11751.97	3574.00	11725.72	Otter Park	19.2	37.5	4.48	17.5	3.19	0.74	3.19	0.45	2.53	0.48	1.44	0.25	1.49	0.20	4.24
Kotaneelee YT I-48	3585.00	11761.81	3577.00	11735.56	Otter Park	19.9	33.5	4.11	16.5	2.98	0.58	2.90	0.45	2.45	0.52	1.50	0.22	1.39	0.23	4.23
Kotaneelee YT I-48	3588.00	11771.65	3580.00	11745.41	Otter Park	20.4	40.2	4.78	17.9	3.57	0.79	3.04	0.50	2.55	0.55	1.46	0.23	1.59	0.24	4.26
Kotaneelee YT I-48	3591.00	11781.50	3583.00	11755.25	Otter Park	20.0	35.4	4.24	17.0	3.16	0.66	2.88	0.46	2.52	0.53	1.43	0.23	1.54	0.25	4.24
Kotaneelee YT I-48	3594.00	11791.34	3586.00	11765.09	Otter Park	21.0	38.7	4.95	19.8	3.67	0.83	3.48	0.52	2.89	0.59	1.68	0.25	1.69	0.24	3.85
Kotaneelee YT I-48	3597.00	11801.18	3589.00	11774.93	Otter Park	20.4	38.1	4.50	17.1	3.43	0.75	3.40	0.47	2.72	0.58	1.64	0.25	1.62	0.26	3.89

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	TOT/C (%)
						0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02
Kotaneelee YT I-48	3600.00	11811.02	3592.00	11784.78	Otter Park	22.7	45.9	5.30	20.4	3.92	0.80	3.63	0.53	3.17	0.57	1.74	0.27	1.67	0.25	3.78
Kotaneelee YT I-48	3603.00	11820.87	3595.00	11794.62	Otter Park	20.8	37.9	4.68	18.7	3.24	0.64	3.15	0.45	2.68	0.55	1.77	0.23	1.53	0.24	4.21
Kotaneelee YT I-48	3606.00	11830.71	3598.00	11804.46	Otter Park	24.3	49.1	5.89	20.5	3.80	0.81	3.40	0.54	3.08	0.64	1.76	0.26	1.80	0.27	3.21
Kotaneelee YT I-48	3609.00	11840.55	3601.00	11814.30	Otter Park	25.4	44.5	5.33	20.5	3.81	0.79	3.30	0.51	2.99	0.56	1.71	0.27	1.76	0.25	3.38
Kotaneelee YT I-48	3612.00	11850.39	3604.00	11824.15	Otter Park	21.5	36.3	4.56	17.9	3.41	0.70	3.29	0.48	2.84	0.56	1.85	0.23	1.67	0.24	4.80
Kotaneelee YT I-48	3615.00	11860.24	3607.00	11833.99	Otter Park	23.4	43.5	5.32	20.1	3.85	0.86	3.70	0.51	3.18	0.62	1.74	0.28	1.70	0.26	4.69
Kotaneelee YT I-48	3618.00	11870.08	3610.00	11843.83	Otter Park	22.7	38.7	5.03	19.5	3.79	0.80	3.60	0.53	3.32	0.64	1.99	0.29	1.76	0.28	5.67
Kotaneelee YT I-48	3621.00	11879.92	3613.00	11853.67	Evie	16.7	24.7	3.57	13.1	2.71	0.57	3.15	0.45	2.57	0.57	1.70	0.24	1.44	0.23	6.05
Kotaneelee YT I-48	3624.00	11889.76	3616.00	11863.52	Evie	12.9	18.7	2.91	12.9	2.59	0.55	2.60	0.37	2.16	0.49	1.36	0.20	1.23	0.20	5.97
Kotaneelee YT I-48	3627.00	11899.61	3619.00	11873.36	Evie	19.2	32.3	4.26	15.9	3.19	0.63	3.11	0.43	2.65	0.50	1.63	0.24	1.51	0.23	4.88
Kotaneelee YT I-48	3630.00	11909.45	3622.00	11883.20	Evie	20.7	33.6	4.47	16.7	3.02	0.73	2.98	0.44	2.56	0.54	1.70	0.23	1.38	0.24	5.25
Kotaneelee YT I-48	3633.00	11919.29	3625.00	11893.05	Evie	18.9	28.6	4.31	15.3	3.02	0.68	3.05	0.45	2.65	0.56	1.49	0.24	1.47	0.24	5.30
Kotaneelee YT I-48	3636.00	11929.13	3628.00	11902.89	Evie	17.7	26.0	3.82	14.6	2.70	0.57	2.82	0.42	2.51	0.56	1.57	0.22	1.52	0.21	5.40
Kotaneelee YT I-48	3639.00	11938.98	3631.00	11912.73	Evie	15.0	21.1	3.42	13.4	2.72	0.56	2.58	0.40	2.30	0.49	1.42	0.22	1.34	0.19	5.72
Kotaneelee YT I-48	3642.00	11948.82	3634.00	11922.57	Evie	16.0	20.6	3.38	14.5	2.48	0.54	2.74	0.37	2.30	0.48	1.49	0.22	1.33	0.20	5.49
Kotaneelee YT I-48	3645.00	11958.66	3637.00	11932.42	Evie	13.2	15.8	2.71	11.3	2.32	0.48	2.37	0.31	1.99	0.36	1.16	0.16	1.04	0.16	6.61
Kotaneelee YT I-48	3648.00	11968.50	3640.00	11942.26	Evie	10.1	11.0	1.82	7.7	1.45	0.31	1.57	0.21	1.41	0.26	0.77	0.11	0.76	0.13	4.92
Kotaneelee YT I-48	3651.00	11978.35	3643.00	11952.10	Evie	7.9	9.3	1.40	5.9	1.04	0.18	1.07	0.15	0.81	0.20	0.53	0.08	0.52	0.08	4.39
Kotaneelee YT I-48	3654.00	11988.19	3646.00	11961.94	Evie	9.2	14.2	1.87	6.7	1.30	0.20	1.09	0.17	1.04	0.22	0.64	0.09	0.66	0.12	6.26
Kotaneelee YT I-48	3657.00	11998.03	3649.00	11971.79	Nahanni	5.3	7.1	0.94	3.1	0.55	0.11	0.68	0.09	0.63	0.10	0.41	0.05	0.37	0.06	9.66
Kotaneelee YT I-48	3660.00	12007.87	3652.00	11981.63	Nahanni	7.3	9.9	1.35	5.2	1.05	0.18	0.95	0.14	0.81	0.16	0.52	0.08	0.52	0.06	7.94
Kotaneelee YT I-48	3672.00	12047.24	3664.00	12021.00	Nahanni	25.4	50.5	5.72	21.8	3.77	0.84	3.19	0.51	3.17	0.65	1.61	0.26	1.78	0.30	2.99
Kotaneelee YT I-48	3675.00	12057.09	3667.00	12030.84	Nahanni	1.9	2.5	0.21	0.6	0.11	0.04	0.08	0.02	0.12	0.02	0.04	<0.01	0.06	<0.01	6.16
Kotaneelee YT I-48	3678.00	12066.93	3670.00	12040.68	Nahanni	2.4	3.2	0.34	1.5	0.29	0.05	0.19	0.03	0.18	0.04	0.11	0.01	0.10	0.01	6.26
Kotaneelee YT I-48	3681.00	12076.77	3673.00	12050.53	Nahanni	1.5	2.3	0.25	0.7	0.17	0.03	0.20	0.03	0.16	0.04	0.10	0.02	0.06	0.01	5.12
Kotaneelee YT I-48	3684.00	12086.61	3676.00	12060.37	Nahanni	1.9	2.8	0.34	1.2	0.24	0.05	0.20	0.03	0.22	0.03	0.13	0.02	0.11	0.01	5.02
Kotaneelee YT I-48	3687.00	12096.46	3679.00	12070.21	Nahanni	1.6	2.5	0.29	1.1	0.18	0.05	0.24	0.03	0.14	0.03	0.12	0.02	0.10	0.02	5.93
Kotaneelee YT I-48	3690.00	12106.30	3682.00	12080.05	Nahanni	1.5	2.3	0.25	0.9	0.12	0.05	0.16	0.02	0.15	0.04	0.09	0.01	0.06	0.01	6.93
Kotaneelee YT I-48	3693.00	12116.14	3685.00	12089.90	Nahanni	1.3	1.8	0.21	0.8	0.12	0.02	0.13	0.02	0.13	0.03	0.06	<0.01	0.08	0.01	4.49
Kotaneelee YT I-48	3696.00	12125.98	3688.00	12099.74	Nahanni	2.5	4.0	0.41	1.4	0.29	0.05	0.23	0.04	0.20	0.05	0.14	0.02	0.14	0.02	6.31
Kotaneelee YT I-48	3699.00	12135.83	3691.00	12109.58	Nahanni	1.8	2.5	0.24	0.9	0.15	0.06	0.16	0.06	0.16	0.03	0.11	0.02	0.08	0.01	9.12
Kotaneelee YT I-48	3702.00	12145.67	3694.00	12119.42	Nahanni	1.5	2.3	0.25	1.0	0.17	0.03	0.16	0.02	0.13	0.02	0.09	0.01	0.06	0.01	10.20
Kotaneelee YT I-48	3705.00	12155.51	3697.00	12129.27	Nahanni	1.4	2.1	0.24	0.7	0.16	0.04	0.11	0.02	0.10	<0.02	0.06	0.01	<0.05	<0.01	10.26
North Beaver River YT I-27	3611.88	11850.0			Fort Simpson - *lower*	34.3	67.5	8.08	31.6	5.62	1.24	4.74	0.79	4.20	0.96	2.44	0.36	2.39	0.39	2.50
North Beaver River YT I-27	3614.93	11860.0			Muskwa	36.2	71.1	8.11	29.9	5.48	1.15	5.06	0.78	4.33	0.87	2.62	0.38	2.59	0.38	1.88
North Beaver River YT I-27	3617.98	11870.0			Muskwa	29.4	58.2	6.81	24.9	4.79	1.03	4.25	0.69	4.06	0.82	2.21	0.38	2.36	0.37	4.60
North Beaver River YT I-27	3624.07	11890.0			Muskwa	22.6	42.9	5.30	19.5	3.74	0.79	3.61	0.54	2.99	0.63	1.79	0.27	1.87	0.25	4.51
North Beaver River YT I-27	3630.17	11910.0			Muskwa	33.8	65.8	7.83	29.8	5.44	1.31	5.80	0.92	4.82	1.01	2.65	0.40	2.30	0.36	2.15
North Beaver River YT I-27	3636.26	11930.0			Otter Park	33.6	68.3	7.97	28.6	5.31	1.08	4.52	0.71	4.14	0.88	2.44	0.36	2.50	0.39	2.06
North Beaver River YT I-27	3645.41	11960.0			Otter Park	34.4	65.1	7.64	26.8	5.41	1.00	4.33	0.62	3.56	0.91	2.37	0.39	2.32	0.35	2.02
North Beaver River YT I-27	3651.50	11980.0			Otter Park	36.0	68.0	8.16	30.0	5.52	0.98	4.19	0.65	3.93	0.84	2.50	0.40	2.64	0.38	1.49
North Beaver River YT I-27	3657.60	12000.0			Otter Park	33.0	65.8	7.89	28.6	5.39	1.05	4.97	0.77	4.15	0.94	2.23	0.36	2.40	0.37	2.04
North Beaver River YT I-27	3663.70	12020.0			Otter Park	10.5	13.2	1.61	6.8	1.46	<0.02	3.95	0.22	1.41	0.24	0.62	0.11	0.78	0.10	1.17
North Beaver River YT I-27	3669.79	12040.0			Otter Park	34.9	70.0	8.06	30.0	5.54	1.06	4.65	0.75	4.15	0.90	2.53	0.39	2.51	0.39	1.62
North Beaver River YT I-27	3678.94	12070.0			Otter Park	36.3	69.7	7.99	28.7	4.86	0.98	4.25	0.67	3.84	0.80	2.39	0.37	2.68	0.42	1.60
North Beaver River YT I-27	3688.08	12100.0			Evie	36.8	68.7	8.10	29.8	5.07	1.03	4.57	0.72	3.76	0.90	2.45	0.39	2.71	0.40	1.83
North Beaver River YT I-27	3694.18	12120.0			Evie	10.8	13.1	1.52	6.3	1.04	<0.02	3.76	0.21	0.79	0.24	0.64	0.12	0.67	0.11	1.75
North Beaver River YT I-27	3697.22	12130.0			Evie	17.1	26.9	3.79	14.6	2.70	0.63	2.58	0.37	2.06	0.45	1.16	0.19	1.30	0.20	5.02
North Beaver River YT I-27	3700.27	12140.0			Evie	16.8	30.1	3.67	13.1	2.85	0.48	2.32	0.36	2.04	0.43	1.28	0.19	1.42	0.18	3.57
North Beaver River YT I-27	3706.37	12160.0			Evie	18.2	35.5	3.96	15.1	2.67	0.50	2.31	0.38	2.11	0.44	1.30	0.21	1.34	0.23	5.09
North Beaver River YT I-27	3709.42	12170.0			Nahanni	32.2	63.5	7.51	28.2	5.21	1.32	5.59	0.87	4.64	0.90	2.63	0.38	2.57	0.41	2.39
North Beaver River YT I-27	3712.46	12180.0			Nahanni	27.0	53.9	6.41	27.3	5.00	1.03	4.79	0.67	4.14	0.79	2.11	0.31	2.06	0.32	3.70
Whitefish River	254.00	833.33			Banff - *shale*	23.5	41.3	5.15	19.6	3.37	0.58	2.68	0.41	2.78	0.54	1.65	0.23	1.42	0.23	4.12
Whitefish River	252.00	826.77			Banff - *shale*	13.2	23.1	2.83	10.7	1.31	0.23	0.94	0.17	1.12	0.25	0.86	0.12	0.95	0.15	2.85
Whitefish River	250.00	820.21			Banff - *shale*	12.4	21.6	2.56	8.4	1.25	0.13	0.92	0.16	1.28	0.18	0.71	0.12	0.97	0.14	2.80
Whitefish River	248.00	813.65			Banff - *shale*	13.8	22.2	2.62	9.3	1.22	0.20	0.91	0.18	1.42	0.26	0.89	0.18	1.15	0.18	2.32

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	TOT/C (%)
						0.1	0.1	0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.02
Whitefish River	246.00	807.09			Banff - *shale*	29.6	51.8	6.22	22.3	2.55	0.32	1.22	0.13	1.06	0.19	0.66	0.10	0.75	0.11	2.51
Whitefish River	244.00	800.52			Banff - *shale*	16.6	28.8	3.49	12.5	1.64	0.26	1.16	0.20	1.45	0.26	1.14	0.15	1.11	0.20	3.05
Whitefish River	242.00	793.96			Banff - *shale*	18.9	34.0	3.85	13.7	2.10	0.29	1.60	0.28	1.79	0.32	1.13	0.16	1.18	0.23	3.30
Whitefish River	240.00	787.40			Banff - *shale*	19.2	30.9	3.76	15.1	2.17	0.37	1.67	0.26	1.89	0.40	1.39	0.19	1.21	0.19	3.59
Whitefish River	238.00	780.84			Banff - *shale*	23.1	38.5	4.67	15.2	2.41	0.37	1.44	0.28	1.66	0.35	1.17	0.16	1.16	0.19	3.14
Whitefish River	236.00	774.28			Banff - *shale*	13.1	20.3	2.44	8.1	1.11	0.08	0.73	0.14	0.78	0.22	0.68	0.11	0.72	0.13	3.02
Whitefish River	234.00	767.72			Banff - *shale*	12.8	19.1	2.35	7.1	0.95	0.11	0.75	0.14	0.96	0.17	0.65	0.10	0.57	0.10	3.27
Whitefish River	232.00	761.15			Banff - *shale*	10.5	16.2	2.07	7.1	0.87	0.11	0.64	0.09	0.67	0.12	0.49	0.08	0.51	0.08	3.10
Whitefish River	230.00	754.59			Banff - *shale*	22.5	38.2	4.53	15.2	2.03	0.26	1.39	0.25	1.55	0.39	1.13	0.18	1.16	0.18	5.22
Whitefish River	228.00	748.03			Banff - *shale*	16.7	25.8	3.10	10.8	1.19	0.13	0.72	0.13	0.89	0.18	0.61	0.08	0.78	0.11	3.28
Whitefish River	226.00	741.47			Banff - *shale*	12.4	19.8	2.84	11.0	1.53	0.31	1.17	0.17	1.22	0.28	0.83	0.12	0.73	0.15	3.74
Whitefish River	224.00	734.91			Banff - *shale*	9.6	14.0	2.07	7.2	1.00	0.19	0.66	0.11	0.70	0.12	0.46	0.08	0.46	0.09	2.69
Whitefish River	222.00	728.35			Banff - *shale*	17.5	25.0	3.53	14.1	1.17	0.23	0.90	0.16	1.08	0.28	0.82	0.13	0.73	0.12	4.33
Whitefish River	220.00	721.78			Banff - *shale*	19.1	25.5	3.96	14.0	2.09	0.50	2.41	0.35	2.29	0.60	1.33	0.24	1.41	0.20	2.80
Whitefish River	218.00	715.22			Banff - *carbonate*	12.3	16.9	2.48	10.6	1.21	0.23	1.07	0.15	1.22	0.24	0.57	0.10	0.54	0.08	2.74
Whitefish River	216.00	708.66			Banff - *carbonate*	22.8	36.2	4.62	18.4	2.55	0.55	2.38	0.37	2.37	0.53	1.36	0.25	1.41	0.19	4.98
Whitefish River	214.00	702.10			Banff - *carbonate*	15.7	20.7	2.92	11.7	1.09	0.20	0.91	0.13	0.95	0.22	0.61	0.12	0.91	0.13	3.11
Whitefish River	212.00	695.54			Banff - *carbonate*	19.7	27.6	3.78	14.0	1.93	0.29	1.16	0.21	1.36	0.27	0.79	0.14	0.85	0.14	2.64
Whitefish River	210.00	688.98			Banff - *carbonate*	20.5	30.3	4.05	14.7	1.79	0.30	1.22	0.19	1.22	0.31	1.13	0.15	1.25	0.17	2.42
Whitefish River	208.00	682.41			Banff - *carbonate*	19.1	32.3	4.06	15.8	1.87	0.28	1.12	0.20	1.18	0.31	1.01	0.18	1.20	0.16	3.04
Whitefish River	206.00	675.85			Banff - *carbonate*	20.4	34.8	4.62	16.5	2.08	0.32	1.07	0.21	1.54	0.30	1.02	0.14	0.99	0.17	3.14
Whitefish River	204.00	669.29			Banff - *carbonate*	22.3	33.8	4.55	18.0	2.19	0.33	1.15	0.22	1.51	0.37	1.00	0.18	1.11	0.16	2.83
Whitefish River	202.00	662.73			Banff - *carbonate*	19.4	27.9	4.22	16.0	2.29	0.50	1.76	0.25	1.63	0.48	1.15	0.18	1.15	0.19	4.35
Whitefish River	200.00	656.17			Banff - *carbonate*	21.5	32.9	4.27	14.8	1.75	0.25	1.25	0.20	1.26	0.30	0.82	0.15	0.98	0.14	3.43
Whitefish River	198.00	649.61			Exshaw	19.7	30.9	3.91	13.7	1.55	0.24	1.02	0.20	1.38	0.27	0.81	0.14	0.92	0.16	3.84
Whitefish River	196.00	643.04			Exshaw	24.0	47.7	7.88	37.1	6.11	1.03	3.17	0.45	2.92	0.51	1.58	0.22	1.36	0.24	4.57
Whitefish River	194.00	636.48			Exshaw	12.4	18.8	3.55	15.1	1.97	0.31	0.92	0.13	0.74	0.21	0.73	0.07	0.55	0.08	3.84
Whitefish River	192.00	629.92			Exshaw	15.5	22.4	3.69	13.8	1.72	0.29	0.86	0.14	1.05	0.24	0.75	0.12	0.72	0.09	4.33
Whitefish River	190.00	623.36			Exshaw	12.7	19.1	2.64	9.5	0.88	0.16	0.55	0.10	0.69	0.21	0.51	0.09	0.46	0.07	4.36
Whitefish River	188.00	616.80			Exshaw	18.6	27.0	3.86	14.1	1.28	0.24	0.97	0.17	1.13	0.20	0.83	0.12	0.67	0.13	3.57
Whitefish River	186.00	610.24			Exshaw	17.4	24.8	3.67	13.9	1.40	0.24	0.97	0.17	1.25	0.29	0.83	0.15	0.88	0.14	4.45
Whitefish River	184.00	603.67			Exshaw	23.4	31.4	4.75	15.1	1.80	0.32	1.31	0.25	1.61	0.34	1.15	0.17	1.04	0.16	4.30
Whitefish River	182.00	597.11			Exshaw	16.2	18.8	3.11	9.8	0.94	0.12	0.63	0.14	0.90	0.21	0.81	0.12	0.86	0.10	5.37
Whitefish River	180.00	590.55			Exshaw	15.9	17.7	3.29	12.2	1.62	0.36	1.30	0.17	0.87	0.20	0.66	0.11	0.65	0.09	5.17
Whitefish River	178.00	583.99			Exshaw	17.8	17.9	3.07	10.7	0.82	0.26	1.03	0.16	1.04	0.32	1.03	0.12	0.71	0.14	5.54
Whitefish River	176.00	577.43			Exshaw	19.1	20.4	3.40	10.6	1.28	0.18	1.09	0.19	1.35	0.27	0.82	0.14	0.81	0.16	4.33
Whitefish River	174.00	570.87			Exshaw	18.0	18.5	3.51	11.7	1.86	0.29	1.55	0.24	1.77	0.30	0.85	0.13	1.00	0.12	5.06
Whitefish River	172.00	564.30			Exshaw	15.2	16.4	2.75	8.2	0.83	0.15	1.03	0.15	1.05	0.23	0.80	0.12	0.79	0.11	4.72
Whitefish River	170.00	557.74			Exshaw	19.9	19.0	3.93	14.2	1.97	0.39	1.58	0.24	1.61	0.38	1.20	0.18	1.00	0.15	4.81
Whitefish River	168.00	551.18			Exshaw	19.6	22.4	4.20	15.3	1.84	0.29	1.41	0.18	1.26	0.28	0.86	0.13	0.89	0.14	6.33
Whitefish River	166.00	544.62			Exshaw	23.5	24.6	4.83	17.3	1.40	0.26	1.26	0.21	1.47	0.39	1.10	0.22	1.18	0.18	5.36
Whitefish River	164.00	538.06			Exshaw	21.5	22.4	4.40	14.1	1.93	0.34	1.62	0.23	1.68	0.36	1.15	0.16	1.19	0.19	5.43
Whitefish River	162.00	531.50			Exshaw	13.1	12.6	2.85	11.0	1.45	0.23	0.97	0.15	1.23	0.25	0.73	0.10	0.54	0.11	4.51
Whitefish River	160.00	524.93			Exshaw	17.3	20.6	3.53	13.1	1.38	0.29	1.10	0.17	1.03	0.28	0.87	0.14	0.85	0.15	5.26
Whitefish River	158.00	518.37			Patry	11.6	13.6	2.38	9.8	1.07	0.16	0.80	0.14	0.86	0.24	0.59	0.07	0.48	0.08	2.46
Whitefish River	156.00	511.81			Patry	12.9	16.0	2.98	11.1	1.17	0.19	1.00	0.14	1.23	0.20	0.71	0.10	0.57	0.12	2.75
Whitefish River	154.00	505.25			Patry	15.2	17.5	3.03	10.9	1.89	0.31	1.27	0.19	0.99	0.24	0.59	0.10	0.62	0.08	2.16
Whitefish River	152.00	498.69			Patry	12.7	15.5	2.89	12.3	1.65	0.30	1.19	0.16	1.13	0.23	0.58	0.09	0.72	0.09	2.87
Whitefish River	150.00	492.13			Patry	18.0	22.2	4.86	21.9	3.07	0.53	1.61	0.20	1.23	0.20	0.74	0.09	0.63	0.07	3.22
Whitefish River	148.00	485.56			Patry	14.9	18.5	3.26	11.2	2.03	0.39	1.29	0.17	0.99	0.17	0.75	0.09	0.67	0.08	3.46
Whitefish River	146.00	479.00			Patry	14.1	19.6	3.32	13.6	2.09	0.34	1.34	0.19	0.95	0.19	0.58	0.08	0.71	0.08	8.67
Whitefish River	144.00	472.44			Patry	15.4	17.3	3.82	16.7	2.74	0.54	1.73	0.20	1.03	0.22	0.84	0.12	0.69	0.08	3.38
Whitefish River	142.00	465.88			Patry	10.9	13.3	2.66	10.8	1.62	0.29	0.86	0.13	0.66	0.16	0.39	0.07	0.49	0.05	2.90
Whitefish River	140.00	459.32			Patry	11.3	13.5	2.19	7.4	0.73	0.12	0.61	0.10	0.55	0.16	0.40	0.07	0.55	0.05	3.28
Whitefish River	138.00	452.76			Patry	13.0	15.4	2.54	9.3	0.92	0.16	0.77	0.12	0.91	0.19	0.62	0.07	0.47	0.07	3.36
Whitefish River	136.00	446.19			Patry	17.8	21.3	3.07	10.9	0.87	0.13	0.80	0.11	0.82	0.17	0.73	0.09	0.61	0.11	3.61

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	La (ppm)	Ce (ppm)	Pr (ppm)	Nd (ppm)	Sm (ppm)	Eu (ppm)	Gd (ppm)	Tb (ppm)	Dy (ppm)	Ho (ppm)	Er (ppm)	Tm (ppm)	Yb (ppm)	Lu (ppm)	TOT/C (%)
						0.1	**0.1**	**0.02**	**0.3**	**0.05**	**0.02**	**0.05**	**0.01**	**0.05**	**0.02**	**0.03**	**0.01**	**0.05**	**0.01**	**0.02**
Whitefish River	134.00	439.63			Patry	13.7	16.3	2.45	9.1	0.76	0.16	0.82	0.11	0.72	0.17	0.53	0.08	0.54	0.07	3.44
Whitefish River	132.00	433.07			Patry	12.6	17.4	2.97	11.2	1.11	0.22	0.74	0.10	0.95	0.12	0.63	0.07	0.55	0.05	3.43
Whitefish River	130.00	426.51			Patry	17.2	22.3	3.35	10.8	1.28	0.19	1.06	0.17	1.11	0.23	0.89	0.13	0.76	0.11	3.81
Whitefish River	128.00	419.95			Patry	19.6	25.9	3.70	12.4	1.35	0.24	1.13	0.17	1.15	0.23	0.95	0.12	0.86	0.12	3.53
Whitefish River	126.00	413.39			Patry	19.2	25.2	3.63	13.6	1.31	0.26	0.89	0.16	0.93	0.25	0.87	0.12	0.82	0.11	3.62
Whitefish River	124.00	406.82			Fort Simpson - *undif.*	17.7	23.7	3.25	12.5	1.14	0.24	1.00	0.16	1.07	0.24	0.90	0.12	0.86	0.14	3.49
Whitefish River	122.00	400.26			Fort Simpson - *undif.*	16.0	20.5	3.08	10.7	1.31	0.22	1.05	0.16	1.05	0.29	0.92	0.13	0.95	0.13	4.06
Whitefish River	120.00	393.70			Fort Simpson - *undif.*	17.2	21.0	3.14	10.0	1.25	0.21	1.01	0.17	1.12	0.29	0.85	0.12	0.93	0.15	3.48
Whitefish River	118.00	387.14			Fort Simpson - *undif.*	17.3	22.7	3.02	9.7	1.14	0.22	1.06	0.16	1.05	0.25	0.90	0.12	0.85	0.12	3.68
Whitefish River	116.00	380.58			Fort Simpson - *undif.*	19.4	24.5	3.39	10.5	1.37	0.26	1.18	0.19	1.26	0.26	0.96	0.13	0.81	0.11	3.55
Whitefish River	114.00	374.02			Fort Simpson - *undif.*	17.0	22.2	3.08	10.2	1.27	0.26	1.08	0.15	1.15	0.27	0.72	0.13	0.85	0.11	3.71
Whitefish River	112.00	367.45			Fort Simpson - *undif.*	21.1	40.7	6.55	22.0	2.35	0.36	1.27	0.15	0.68	0.13	0.36	0.04	0.37	0.06	3.71
Whitefish River	110.00	360.89			Fort Simpson - *undif.*	26.1	32.7	5.11	17.6	2.50	0.45	1.84	0.20	1.07	0.27	0.76	0.10	0.81	0.12	3.83
Whitefish River	108.00	354.33			Fort Simpson - *undif.*	30.8	58.7	10.07	38.2	4.35	0.64	2.32	0.23	0.82	0.15	0.44	0.07	0.54	0.08	3.79
Whitefish River	106.00	347.77			Fort Simpson - *undif.*	24.6	37.2	4.63	17.9	3.02	0.56	2.71	0.42	2.27	0.48	1.37	0.23	1.44	0.24	5.69
Whitefish River	104.00	341.21			Fort Simpson - *undif.*	16.8	17.4	2.82	8.9	1.18	0.25	0.83	0.14	0.87	0.23	0.63	0.12	0.81	0.11	3.39
Whitefish River	102.00	334.65			Fort Simpson - *undif.*	19.6	26.4	4.47	14.8	1.68	0.27	1.36	0.15	0.74	0.18	0.44	0.07	0.52	0.07	3.33
Whitefish River	100.00	328.08			Fort Simpson - *undif.*	12.9	14.7	2.87	10.5	1.75	0.35	1.10	0.15	0.78	0.14	0.49	0.07	0.45	0.03	3.17
Whitefish River	98.00	321.52			Fort Simpson - *undif.*	9.5	10.2	1.60	6.6	0.90	0.20	0.73	0.08	0.53	0.13	0.41	0.05	0.43	0.05	2.66
Whitefish River	96.00	314.96			Fort Simpson - *undif.*	27.8	30.7	5.16	19.9	2.25	0.41	1.52	0.17	0.86	0.24	0.81	0.11	0.80	0.12	3.73
Whitefish River	94.00	308.40			Fort Simpson - *undif.*	18.3	18.8	3.29	9.8	1.61	0.28	1.17	0.18	0.91	0.18	0.78	0.10	0.76	0.12	3.90
Whitefish River	92.00	301.84			Fort Simpson - *undif.*	21.0	28.4	5.01	17.2	2.14	0.36	1.31	0.15	0.82	0.19	0.38	0.07	0.49	0.07	3.12
Whitefish River	90.00	295.28			Fort Simpson - *undif.*	18.5	23.3	4.00	13.5	1.52	0.29	1.13	0.15	1.01	0.18	0.59	0.10	0.74	0.13	3.52
Whitefish River	88.00	288.71			Fort Simpson - *undif.*	13.3	14.7	2.61	9.8	1.35	0.30	1.18	0.14	0.83	0.17	0.64	0.07	0.56	0.08	2.72
Whitefish River	58.00	190.29			*unknown*	20.6	20.8	3.33	10.7	1.68	0.37	1.56	0.26	1.44	0.23	0.86	0.11	0.77	0.10	3.10
Whitefish River	56.00	183.73			*unknown*	38.4	39.2	6.46	22.8	3.32	0.78	3.80	0.52	3.36	0.63	1.84	0.25	1.83	0.24	3.80
Whitefish River	54.00	177.17			*unknown*	47.8	43.3	6.47	23.9	3.24	0.66	3.61	0.48	2.39	0.56	1.59	0.24	1.48	0.27	3.18
Whitefish River	13.00	42.65			*unknown*	16.5	18.1	3.85	17.4	3.73	0.85	4.49	0.62	4.59	0.87	2.56	0.32	2.08	0.34	1.94
Whitefish River	11.00	36.09			*unknown*	9.8	10.7	2.16	9.6	2.48	0.63	3.20	0.41	2.88	0.41	1.44	0.22	1.34	0.21	2.48
Whitefish River	9.00	29.53			*unknown*	15.6	16.2	3.21	13.3	2.51	0.57	2.67	0.35	2.09	0.51	1.39	0.20	1.19	0.19	1.99
Whitefish River	7.00	22.97			*unknown*	33.1	33.5	6.13	22.2	3.41	0.83	4.16	0.58	3.28	0.72	1.84	0.29	1.90	0.32	1.94
Whitefish River	5.00	16.40			*unknown*	10.8	11.7	2.34	10.4	2.09	0.48	2.07	0.29	1.94	0.33	1.13	0.17	1.21	0.17	1.79
Whitefish River	3.00	9.84			*unknown*	10.4	10.8	2.33	9.6	1.63	0.38	2.08	0.29	1.80	0.34	1.12	0.18	0.99	0.15	2.45
Whitefish River	1.00	3.28			*unknown*	13.7	15.1	2.93	10.9	1.80	0.46	2.15	0.29	2.08	0.41	1.00	0.17	0.91	0.17	2.06

Notes:

Limit of detection provided in bold text under oxide/element column header.

Stratigraphy highlighted in blue is that assessed by the NEB (2016) for unconventional resources

APPENDIX D Lithogeochemical data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	TOT/S (%)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ni (ppm)	As (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	Ag (ppm)	Au (ppb)	Hg (ppm)	Tl (ppm)	Se (ppm)
						0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Beaver YT G-01	3529.58	11580.0			Banff - *carbonate*	1.31	7.0	38.8	18.3	291	57.2	10.5	4.1	1.7	0.2	0.8	<0.5	0.10	0.2	8.6
Beaver YT G-01	3535.68	11600.0			Exshaw	1.06	8.0	38.1	15.4	309	54.9	10.7	5.4	2.9	0.2	1.1	<0.5	0.08	0.2	12.6
Beaver YT G-01	3544.82	11630.0			Exshaw	1.48	24.1	48.0	20.2	954	69.8	19.0	16.1	5.5	0.2	0.9	<0.5	0.18	0.6	22.4
Beaver YT G-01	3550.92	11650.0			Exshaw	1.42	17.9	38.3	19.5	441	64.8	16.2	7.3	3.4	0.2	0.7	<0.5	0.12	0.5	12.3
Beaver YT G-01	3557.02	11670.0			Exshaw	1.55	10.2	38.3	22.0	487	63.2	15.0	4.3	1.8	0.3	0.5	<0.5	0.13	0.5	7.1
Beaver YT G-01	3563.11	11690.0			Exshaw	1.45	14.2	38.1	16.3	488	56.1	15.7	6.9	4.2	0.2	0.5	<0.5	0.12	0.5	10.5
Beaver YT G-01	3569.21	11710.0			Exshaw	1.30	20.6	37.8	13.1	352	56.6	14.2	4.4	4.1	0.2	0.3	<0.5	0.11	0.4	6.4
Beaver YT G-01	3575.30	11730.0			Exshaw	1.36	21.6	33.0	13.8	336	58.4	14.4	3.8	4.2	0.2	0.3	<0.5	0.13	0.4	7.3
Beaver YT G-01	3581.40	11750.0			Exshaw	1.31	22.5	28.8	13.5	297	55.4	15.0	3.6	3.8	0.2	0.3	<0.5	0.20	0.4	7.0
Beaver YT G-01	3587.50	11770.0			Exshaw	1.49	20.1	33.6	13.5	726	58.8	17.1	8.8	5.1	0.2	0.4	<0.5	0.26	0.5	8.5
Beaver YT G-01	3593.59	11790.0			Exshaw	1.29	21.9	29.3	12.0	396	61.7	12.1	3.4	2.4	0.2	0.3	<0.5	0.18	0.4	5.1
Beaver YT G-01	3599.69	11810.0			Exshaw	1.38	30.0	32.9	11.3	307	64.7	15.1	2.7	3.1	0.1	0.3	0.8	0.17	0.5	5.8
Beaver YT G-01	3605.78	11830.0			Exshaw	1.30	34.7	35.9	11.0	246	73.2	17.6	2.1	2.9	0.2	0.3	0.5	0.22	0.5	5.2
Beaver YT G-01	3611.88	11850.0			Exshaw	1.27	37.7	35.2	10.2	219	76.3	16.7	2.1	2.2	0.1	0.3	<0.5	0.21	0.5	5.0
Beaver YT G-01	3617.98	11870.0			Exshaw	1.32	28.4	33.4	13.1	239	72.2	15.4	2.6	2.3	0.2	0.3	<0.5	0.14	0.5	5.7
Beaver YT G-01	3621.02	11880.0			Exshaw	1.29	28.2	31.9	13.6	274	76.5	14.8	2.7	1.9	0.2	0.3	<0.5	0.16	0.4	6.0
Beaver YT G-01	3624.07	11890.0			Exshaw	1.05	22.7	28.4	13.1	278	66.6	13.7	3.0	2.1	0.2	0.2	<0.5	0.13	0.4	5.4
Beaver YT G-01	3627.12	11900.0			Exshaw	1.26	30.5	34.8	14.4	269	72.8	13.4	3.5	2.4	0.2	0.3	<0.5	0.15	0.6	6.6
Beaver YT G-01	3630.17	11910.0			Exshaw	1.42	24.7	35.3	11.0	326	85.6	15.9	3.5	2.6	0.2	0.2	<0.5	0.15	0.7	5.0
Beaver YT G-01	3633.22	11920.0			Exshaw	1.45	22.8	34.1	11.8	255	76.2	17.0	2.9	2.6	0.2	0.3	<0.5	0.18	0.7	5.6
Beaver YT G-01	3636.26	11930.0			Exshaw	1.31	26.6	36.1	11.8	163	55.5	13.4	1.6	1.9	0.2	0.3	0.6	0.25	0.5	4.2
Beaver YT G-01	3642.36	11950.0			Exshaw	1.29	26.8	34.6	12.5	164	55.9	15.5	1.4	1.8	0.2	0.3	<0.5	0.26	0.6	3.2
Beaver YT G-01	3645.41	11960.0			Patry	1.29	32.1	37.1	10.5	124	59.8	15.1	1.2	2.1	0.1	0.2	<0.5	0.29	0.5	3.5
Beaver YT G-01	3648.46	11970.0			Patry	1.60	33.1	41.1	11.6	187	65.7	18.2	1.5	2.5	0.2	0.2	<0.5	0.31	0.6	3.4
Beaver YT G-01	3651.50	11980.0			Patry	1.58	30.4	40.1	11.4	156	67.8	17.2	1.6	2.5	0.2	0.2	<0.5	0.24	0.5	3.2
Beaver YT G-01	3654.55	11990.0			Patry	1.75	32.5	37.1	11.3	136	70.9	17.2	1.5	2.7	0.1	0.3	<0.5	0.22	0.6	4.5
Beaver YT G-01	3657.60	12000.0			Patry	1.45	30.0	36.3	10.7	133	71.5	17.2	1.3	2.5	0.1	0.2	<0.5	0.21	0.5	3.2
Beaver YT G-01	3660.65	12010.0			Patry	1.46	29.8	36.0	9.9	137	69.7	17.3	1.4	3.0	0.1	0.2	<0.5	0.18	0.6	3.2
Beaver YT G-01	3663.70	12020.0			Patry	1.39	26.9	35.9	8.3	125	72.2	16.6	1.5	2.7	0.1	0.2	<0.5	0.39	0.5	2.8
Beaver YT G-01	3666.74	12030.0			Patry	1.53	23.0	35.1	8.3	160	65.8	16.2	1.8	2.4	0.1	0.2	<0.5	0.63	0.4	3.7
Beaver YT G-01	3669.79	12040.0			Patry	1.63	27.9	38.0	9.9	242	71.5	19.1	2.8	2.8	0.1	0.2	<0.5	0.97	0.5	3.6
Beaver YT G-01	3672.84	12050.0			Patry	1.56	23.7	35.8	10.4	115	65.9	18.6	1.2	2.4	0.2	0.2	<0.5	0.23	0.4	3.0
Beaver YT G-01	3675.89	12060.0			Patry	1.62	25.1	41.0	10.8	272	69.2	20.4	2.7	2.2	0.2	0.2	<0.5	0.28	0.4	2.7
Beaver YT G-01	3678.94	12070.0			Patry	1.80	21.8	43.3	12.3	117	56.7	20.8	1.1	2.0	0.2	0.2	<0.5	0.80	0.3	3.2
Beaver YT G-01	3681.98	12080.0			Patry	1.79	22.5	43.1	12.5	505	64.2	18.3	3.1	1.7	0.2	0.2	0.8	0.31	0.3	3.3
Beaver YT G-01	3685.03	12090.0			Patry	1.57	19.1	38.7	10.7	149	61.9	15.5	1.1	1.3	0.2	0.2	0.9	0.14	0.3	3.0
Beaver YT G-01	3688.08	12100.0			Patry	1.47	15.4	33.9	10.1	136	52.8	14.5	0.8	1.1	0.2	0.1	<0.5	0.23	0.3	2.2
Beaver YT G-01	3691.13	12110.0			Patry	1.53	15.8	34.8	10.8	130	58.4	14.9	0.7	1.1	0.2	0.2	<0.5	0.97	0.3	2.4
Beaver YT G-01	3694.18	12120.0			Patry	1.55	17.0	35.4	10.9	201	56.8	14.4	1.0	1.0	0.2	0.1	<0.5	0.46	0.3	2.2
Beaver YT G-01	3697.22	12130.0			Patry	1.47	15.9	28.8	9.5	103	47.2	12.5	0.6	1.1	0.1	0.2	0.6	0.21	0.3	2.6
Beaver YT G-01	3700.27	12140.0			Patry	1.48	16.9	30.5	9.4	97	47.4	22.2	0.5	1.1	0.1	0.2	0.7	0.36	0.3	2.9
Beaver YT G-01	3703.32	12150.0			Patry	1.36	21.7	32.4	11.4	185	56.4	15.3	1.7	1.5	0.2	0.2	0.6	0.16	0.4	3.6
Beaver YT G-01	3706.37	12160.0			Patry	1.22	12.6	26.8	11.2	215	46.9	11.1	1.2	0.7	0.2	0.2	<0.5	0.14	0.3	2.2
Beaver YT G-01	3709.42	12170.0			Patry	1.12	15.1	28.5	11.1	164	48.9	11.7	1.6	0.9	0.2	0.2	<0.5	0.19	0.4	2.6
Beaver YT G-01	3712.46	12180.0			Fort Simpson - *upper*	1.62	18.1	30.0	10.8	257	50.2	16.1	1.2	1.0	0.1	0.2	<0.5	0.24	0.5	2.1
Beaver YT G-01	3715.51	12190.0			Fort Simpson - *upper*	1.71	11.9	29.8	11.2	119	52.9	15.2	0.8	0.7	0.2	0.2	<0.5	0.17	0.4	2.3
Beaver YT G-01	3718.56	12200.0			Fort Simpson - *upper*	1.85	11.4	32.2	12.6	154	57.1	16.4	0.9	0.7	0.2	0.2	<0.5	0.14	0.5	2.1
Beaver YT G-01	3934.97	12910.0			Fort Simpson - *lower*	1.28	7.3	43.9	15.9	432	66.1	11.8	4.0	2.2	0.2	0.5	<0.5	0.11	0.4	6.2
Beaver YT G-01	3941.06	12930.0			Fort Simpson - *lower*	1.51	10.1	43.9	16.6	369	63.1	14.2	3.9	2.4	0.2	0.4	<0.5	0.13	0.3	8.5
Beaver YT G-01	3944.11	12940.0			Muskwa	1.78	5.8	38.6	18.7	148	54.0	13.6	1.5	1.2	0.2	0.2	<0.5	0.13	0.3	2.8
Beaver YT G-01	3947.16	12950.0			Muskwa	1.78	4.6	33.8	16.7	119	46.9	10.7	1.0	0.7	0.3	0.2	<0.5	0.09	0.3	2.1
Beaver YT G-01	3953.26	12970.0			Muskwa	2.04	36.6	41.6	11.9	350	98.2	15.3	2.7	1.9	0.2	0.3	<0.5	0.15	0.5	3.8
Beaver YT G-01	3962.40	13000.0			Muskwa	2.08	38.3	48.6	17.7	229	93.8	14.3	1.7	1.9	0.2	0.3	<0.5	0.13	0.4	3.7
Beaver YT G-01	3968.50	13020.0			Muskwa	1.49	11.6	39.2	15.7	239	67.9	13.3	2.3	1.0	0.2	0.2	1.2	0.10	0.3	2.9
Beaver YT G-01	3977.64	13050.0			Muskwa	1.90	30.1	50.1	12.2	151	74.6	10.4	1.1	1.1	0.2	0.2	1.7	0.15	0.3	3.9
Beaver YT G-01	3980.69	13060.0			Muskwa	2.42	26.4	58.1	13.5	214	71.4	11.7	1.6	1.2	0.2	0.2	0.7	0.14	0.4	4.9

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	TOT/S (%)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ni (ppm)	As (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	Ag (ppm)	Au (ppb)	Hg (ppm)	Tl (ppm)	Se (ppm)
						0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Beaver YT G-01	3983.74	13070.0			Otter Park	1.86	18.3	44.7	12.2	143	63.6	10.0	0.9	1.1	0.2	0.2	0.9	0.16	0.4	2.9
Beaver YT G-01	3995.93	13110.0			Otter Park	2.11	23.1	48.9	13.0	85	61.3	9.7	0.6	0.7	0.2	0.3	<0.5	0.21	0.4	3.0
Beaver YT G-01	4008.12	13150.0			Otter Park	2.30	23.2	56.4	14.1	57	65.3	10.1	0.6	0.6	0.2	0.3	0.9	0.18	0.4	3.0
Beaver YT G-01	4020.31	13190.0			Otter Park	2.27	26.1	52.4	13.3	82	72.0	10.6	0.7	0.7	0.2	0.2	1.1	0.25	0.3	3.6
Beaver YT G-01	4023.36	13200.0			Otter Park	2.17	24.9	56.6	13.2	58	72.6	9.8	0.5	0.6	0.2	0.3	1.2	0.23	0.3	3.0
Beaver YT G-01	4029.46	13220.0			Otter Park	2.18	19.9	55.4	12.3	78	63.1	8.0	0.7	0.6	0.2	0.3	1.1	0.22	0.3	2.1
Beaver YT G-01	4038.60	13250.0			Otter Park	2.22	40.1	63.8	13.8	98	89.1	10.4	1.4	0.9	0.2	0.3	0.7	0.21	0.4	4.0
Beaver YT G-01	4047.74	13280.0			Otter Park	1.97	47.7	53.6	12.2	152	86.8	10.9	2.0	1.3	0.1	0.2	<0.5	0.16	0.3	4.5
Beaver YT G-01	4050.79	13290.0			Otter Park	2.27	46.1	56.4	12.8	161	89.3	12.3	2.2	1.5	0.1	0.2	<0.5	0.19	0.4	4.4
Beaver YT G-01	4053.84	13300.0			Evie	1.56	41.9	53.0	14.2	180	85.4	11.3	2.2	1.4	0.2	0.2	<0.5	0.14	0.4	3.9
Beaver YT G-01	4059.94	13320.0			Evie	1.66	42.4	45.1	13.0	174	85.0	11.6	1.9	1.1	0.2	0.2	<0.5	0.42	0.5	3.4
Beaver YT G-01	4069.08	13350.0			Evie	1.83	35.8	35.5	9.8	189	85.4	11.8	2.0	1.4	0.2	0.2	1.1	0.17	0.6	3.5
Beaver YT G-01	4084.32	13400.0			Evie	1.93	45.6	37.9	9.8	234	105.1	13.3	2.3	1.6	0.2	0.2	<0.5	0.18	0.7	4.7
Beaver YT G-01	4093.46	13430.0			Evie	1.88	56.4	39.8	9.5	562	139.3	18.4	9.2	6.7	0.1	0.5	0.9	0.26	1.0	8.2
Beaver YT G-01	4102.61	13460.0			Evie	1.72	82.2	46.1	15.7	549	162.8	20.5	7.8	7.8	0.1	0.5	0.5	0.36	1.1	8.4
Beaver YT G-01	4105.66	13470.0			Evie	1.56	78.3	42.8	16.4	515	160.8	20.5	6.0	7.2	0.1	0.5	<0.5	0.32	1.0	7.8
Beaver YT G-01	4108.70	13480.0			Evie	1.26	44.4	35.0	14.3	372	140.2	16.1	3.8	4.5	<0.1	0.4	0.5	0.25	0.9	6.4
Beaver YT G-01	4111.75	13490.0			Nahanni	1.47	48.2	40.3	16.0	400	144.3	18.7	4.2	5.2	0.1	0.4	<0.5	0.30	1.1	7.4
Beaver YT G-01	4114.80	13500.0			Nahanni	1.40	52.3	35.4	25.0	384	140.4	18.6	3.5	3.9	0.1	0.5	<0.5	0.26	1.1	6.2
Beaver YT G-01	4123.94	13530.0			Nahanni	1.23	24.4	33.3	225.2	1202	72.2	11.7	6.7	1.4	0.1	0.3	<0.5	0.37	0.6	5.7
Beavercrow YT B-16	1453.90	4770.0			Exshaw	2.15	4.9	33.2	24.9	153	60.3	26.0	0.9	0.9	0.4	1.0	<0.5	0.19	<0.1	6.1
Beavercrow YT B-16	1463.04	4800.0			Exshaw	2.03	3.9	35.6	40.4	121	59.9	25.8	1.1	0.8	0.4	1.0	<0.5	0.12	<0.1	7.5
Beavercrow YT B-16	1469.14	4820.0			Exshaw	1.69	4.3	33.3	33.8	167	56.5	22.8	1.9	1.0	0.3	1.0	<0.5	0.19	<0.1	7.1
Beavercrow YT B-16	1478.28	4850.0			Exshaw	2.94	6.4	38.2	31.1	231	65.3	20.9	4.5	1.9	0.3	1.6	<0.5	0.23	<0.1	16.2
Beavercrow YT B-16	1487.42	4880.0			Exshaw	1.91	29.6	35.7	18.8	764	55.3	20.6	14.5	8.5	0.2	1.0	<0.5	0.40	0.6	20.2
Beavercrow YT B-16	1496.57	4910.0			Exshaw	1.01	28.9	29.2	14.0	587	59.6	19.2	10.0	5.1	0.1	0.5	<0.5	0.33	0.7	9.7
Beavercrow YT B-16	1505.71	4940.0			Patry	1.08	33.1	27.7	11.7	90	31.7	21.4	1.0	2.6	0.1	0.3	<0.5	0.39	0.8	4.6
Beavercrow YT B-16	1511.81	4960.0			Patry	1.04	30.6	26.9	11.2	117	38.3	19.3	0.8	1.4	0.1	0.2	<0.5	0.46	0.7	3.3
Beavercrow YT B-16	1514.86	4970.0			Patry	1.18	29.2	29.8	10.8	346	45.7	20.6	0.9	1.4	0.1	0.3	<0.5	0.33	0.8	3.9
Beavercrow YT B-16	1520.95	4990.0			Patry	1.82	23.8	29.6	15.8	190	37.9	24.9	1.4	1.6	0.1	0.3	<0.5	0.36	0.7	4.0
Beavercrow YT B-16	1524.00	5000.0			Patry	0.92	22.1	26.3	12.2	98	40.8	19.2	0.6	1.4	0.1	0.3	<0.5	0.27	0.7	3.8
Beavercrow YT B-16	1533.14	5030.0			Patry	1.74	20.1	33.1	79.2	94	41.2	24.1	0.7	1.3	0.2	0.3	<0.5	0.63	0.7	3.1
Beavercrow YT B-16	1542.29	5060.0			Patry	1.53	19.2	23.4	12.3	49	38.1	18.2	0.5	0.8	0.2	0.3	0.5	0.40	0.5	2.7
Beavercrow YT B-16	1548.38	5080.0			Patry	0.93	15.8	27.1	15.1	27	30.5	14.9	0.1	0.6	0.2	0.2	<0.5	0.39	0.6	1.8
Beavercrow YT B-16	1551.43	5090.0			Fort Simpson - *upper*	1.09	13.1	26.5	12.3	91	30.5	12.5	0.2	0.5	0.2	0.3	<0.5	0.30	0.5	1.9
Beavercrow YT B-16	1554.48	5100.0			Fort Simpson - *upper*	1.06	11.8	26.5	11.7	31	26.9	12.2	0.1	0.4	0.2	0.2	<0.5	0.25	0.4	1.4
Beavercrow YT B-16	1563.62	5130.0			Fort Simpson - *middle*	1.30	13.9	31.9	13.0	180	41.3	14.4	0.6	0.5	0.2	0.4	<0.5	0.24	0.3	2.5
Beavercrow YT K-02	972.31	3190.0			Banff - *carbonate*	1.52	7.7	38.7	14.8	263	55.4	4.9	4.7	2.2	0.2	1.3	<0.5	0.12	<0.1	16.7
Beavercrow YT K-02	993.65	3260.0			Exshaw	1.66	43.3	41.4	14.8	865	68.0	24.0	17.1	11.0	0.1	0.7	0.5	0.39	0.5	18.3
Beavercrow YT K-02	999.74	3280.0			Exshaw	1.29	38.2	30.0	10.3	507	62.5	14.8	7.1	6.4	0.1	0.3	<0.5	0.21	0.6	7.6
Beavercrow YT K-02	1005.84	3300.0			Exshaw	1.24	27.0	29.5	9.6	607	59.2	12.7	10.1	8.8	<0.1	0.5	0.6	0.63	0.5	13.8
Beavercrow YT K-02	1011.94	3320.0			Exshaw	1.44	25.2	27.4	14.2	285	74.3	23.6	3.9	3.1	0.1	0.5	<0.5	0.25	0.4	6.6
Beavercrow YT K-02	1018.03	3340.0			Exshaw	0.98	30.7	24.2	6.8	147	69.0	11.4	1.1	2.4	<0.1	0.3	<0.5	0.46	0.4	5.4
Beavercrow YT K-02	1024.13	3360.0			Exshaw	1.38	31.1	32.7	10.3	189	81.4	18.1	2.0	2.6	0.1	0.4	<0.5	0.51	0.4	6.6
Beavercrow YT K-02	1033.27	3390.0			Exshaw	0.88	27.8	26.6	5.0	223	63.7	10.3	2.0	2.2	<0.1	0.2	<0.5	0.27	0.4	3.4
Beavercrow YT K-02	1039.37	3410.0			Exshaw	0.90	24.4	21.8	5.9	75	55.2	9.4	0.5	1.7	<0.1	0.2	<0.5	0.21	0.4	3.3
Beavercrow YT K-02	1045.46	3430.0			Patry	1.11	37.8	34.0	7.9	147	74.0	14.2	1.1	2.4	<0.1	0.2	<0.5	0.21	0.5	4.0
Beavercrow YT K-02	1051.56	3450.0			Patry	1.85	30.7	40.5	11.2	189	73.3	20.0	2.0	3.1	0.1	0.3	<0.5	0.17	0.5	3.8
Beavercrow YT K-02	1057.66	3470.0			Patry	1.27	25.8	31.1	8.4	110	54.9	13.4	0.7	1.6	0.1	0.2	<0.5	0.14	0.4	2.4
Beavercrow YT K-02	1063.75	3490.0			Patry	2.57	23.8	41.7	15.5	142	66.9	19.1	1.2	2.5	0.1	0.3	<0.5	0.43	0.6	4.7
Beavercrow YT K-02	1069.85	3510.0			Patry	1.39	19.7	37.8	9.9	110	61.3	18.2	0.9	1.9	0.1	0.2	<0.5	0.28	0.4	3.6
Beavercrow YT K-02	1075.94	3530.0			Patry	1.14	15.3	28.3	7.8	75	52.8	15.4	0.5	1.7	<0.1	0.2	<0.5	0.17	0.4	2.6
Beavercrow YT K-02	1082.04	3550.0			Patry	1.58	19.8	32.8	10.1	106	62.2	17.0	0.9	1.8	0.1	0.3	<0.5	0.14	0.3	3.3
Beavercrow YT K-02	1088.14	3570.0			Patry	2.22	19.7	34.3	11.8	78	58.4	17.8	0.6	1.6	0.1	0.2	<0.5	0.13	0.3	2.8
Beavercrow YT K-02	1094.23	3590.0			Patry	2.08	23.3	46.4	13.2	129	64.9	20.0	0.8	1.4	0.2	0.2	0.5	0.18	0.2	3.3
Beavercrow YT K-02	1106.42	3630.0			Patry	1.55	17.1	28.6	8.0	135	52.2	11.4	0.8	0.9	<0.1	0.1	<0.5	0.15	0.2	2.2

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	TOT/S (%)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ni (ppm)	As (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	Ag (ppm)	Au (ppb)	Hg (ppm)	Tl (ppm)	Se (ppm)
						0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Beavercrow YT K-02	1112.52	3650.0			Patry	1.17	14.3	28.8	11.2	106	46.3	12.2	1.1	1.0	0.1	0.3	<0.5	0.30	0.3	4.5
Beavercrow YT K-02	1118.62	3670.0			Patry	1.58	16.1	32.6	21.4	62	55.0	18.4	0.1	0.8	0.2	0.3	<0.5	0.18	0.2	3.1
Beavercrow YT K-02	1124.71	3690.0			Patry	1.61	16.2	36.0	10.9	35	51.6	14.6	0.1	0.8	0.2	0.2	<0.5	0.12	0.4	2.1
Beavercrow YT K-02	1136.90	3730.0			Fort Simpson - *upper*	2.26	7.6	37.5	16.5	247	57.9	19.3	1.9	0.6	0.2	0.3	<0.5	0.26	0.3	1.9
Beavercrow YT K-02	1143.00	3750.0			Fort Simpson - *upper*	1.79	9.8	38.0	17.1	80	54.9	18.7	0.6	0.6	0.3	0.3	<0.5	0.17	0.2	3.0
Beavercrow YT K-02	1152.14	3780.0			Fort Simpson - *upper*	1.36	11.8	39.3	13.3	39	50.7	15.2	<0.1	0.8	0.2	0.3	<0.5	0.16	0.3	2.1
Beavercrow YT K-02	1158.24	3800.0			Fort Simpson - *upper*	1.47	10.2	34.8	10.4	33	50.1	11.3	0.1	0.7	0.3	0.2	<0.5	0.11	0.3	1.5
Beavercrow YT K-02	1167.38	3830.0			Fort Simpson - *upper*	1.57	9.4	33.8	13.4	68	55.3	16.0	0.6	1.1	0.3	0.4	<0.5	0.30	0.3	3.2
Beavercrow YT K-02	1258.82	4130.0			Fort Simpson - *lower*	2.21	10.5	48.5	14.9	307	67.4	12.8	2.6	1.9	0.2	0.4	<0.5	0.10	0.3	5.3
Beavercrow YT K-02	1267.97	4160.0			Fort Simpson - *lower*	1.78	10.1	46.0	17.6	266	68.3	12.1	2.9	3.3	0.2	0.5	0.5	0.19	0.3	8.6
Beavercrow YT K-02	1277.11	4190.0			Muskwa	3.14	12.1	47.9	15.7	422	70.9	16.0	4.4	2.6	0.2	0.5	<0.5	0.24	0.3	6.8
Beavercrow YT K-02	1286.26	4220.0			Muskwa	2.33	14.7	41.4	13.3	78	72.6	13.5	0.7	0.8	0.2	0.3	<0.5	0.10	0.4	2.9
Beavercrow YT K-02	1295.40	4250.0			Muskwa	2.14	25.2	49.7	12.5	508	85.7	16.3	5.1	3.3	0.2	0.7	<0.5	0.13	0.5	7.4
Beavercrow YT K-02	1304.54	4280.0			Muskwa	1.70	16.3	40.0	14.2	218	71.4	14.8	1.6	0.8	0.2	0.5	<0.5	0.11	0.3	3.9
Beavercrow YT K-02	1313.69	4310.0			Muskwa	1.70	41.5	46.7	7.7	414	81.9	10.9	3.8	2.8	0.1	0.4	<0.5	0.22	0.2	6.1
Beavercrow YT K-02	1322.83	4340.0			Otter Park	1.27	28.9	45.1	7.4	364	71.1	10.3	4.2	3.4	<0.1	0.5	<0.5	0.37	0.2	5.0
Beavercrow YT K-02	1331.98	4370.0			Otter Park	1.58	19.8	48.8	11.9	134	67.2	13.1	1.0	0.7	0.2	0.4	<0.5	0.10	0.1	3.7
Beavercrow YT K-02	1341.12	4400.0			Otter Park	2.19	23.7	57.5	12.9	251	56.4	12.1	2.7	1.4	0.2	0.5	<0.5	0.15	0.4	3.7
Beavercrow YT K-02	1350.26	4430.0			Otter Park	2.42	22.8	58.2	13.6	164	66.6	12.2	1.4	0.9	0.2	0.4	<0.5	0.21	0.6	2.9
Beavercrow YT K-02	1359.41	4460.0			Otter Park	2.05	23.6	58.3	18.0	136	79.2	12.1	1.0	0.8	0.2	0.4	<0.5	0.11	0.3	3.6
Beavercrow YT K-02	1365.50	4480.0			Otter Park	1.81	33.8	84.0	13.1	479	74.8	10.7	1.1	0.7	0.2	0.3	<0.5	0.15	0.2	3.0
Beavercrow YT K-02	1368.55	4490.0			Evie	2.23	27.2	75.9	11.8	78	57.6	11.2	1.0	0.8	0.2	0.2	<0.5	0.25	0.3	3.8
Beavercrow YT K-02	1377.70	4520.0			Evie	2.55	25.7	82.1	24.7	154	81.3	12.9	0.7	0.7	0.3	0.2	<0.5	0.26	0.8	2.9
Beavercrow YT K-02	1389.89	4560.0			Evie	1.74	28.2	49.9	12.0	269	88.9	12.3	1.9	1.2	0.2	0.3	<0.5	0.12	1.2	4.1
Beavercrow YT K-02	1399.03	4590.0			Evie	1.49	35.9	67.4	9.8	439	92.6	9.2	4.6	4.1	<0.1	0.4	<0.5	0.12	1.9	8.0
Beavercrow YT K-02	1402.08	4600.0			Evie	1.61	32.9	76.6	15.4	453	97.4	17.7	5.2	5.1	0.1	0.6	<0.5	0.13	2.6	6.3
Beavercrow YT K-02	1408.18	4620.0			Nahanni	1.36	6.9	57.3	18.3	929	43.5	20.8	4.5	0.7	0.2	0.4	<0.5	0.26	0.5	4.1
Beavercrow YT K-02	1411.22	4630.0			Nahanni	0.50	3.2	35.3	208.9	481	14.3	7.2	2.7	0.9	<0.1	0.1	<0.5	0.14	0.4	1.2
Beavercrow YT K-02	1414.27	4640.0			Nahanni	0.35	3.1	29.4	6.3	142	13.6	4.4	1.0	0.4	<0.1	<0.1	<0.5	0.07	0.3	0.9
Beavercrow YT K-02	1420.37	4660.0			Nahanni	0.65	4.6	21.2	7.7	227	20.5	8.3	1.5	0.5	<0.1	0.1	<0.5	0.11	0.3	1.4
Beavercrow YT K-02	1423.42	4670.0			Nahanni	1.08	16.1	71.3	17.7	582	82.1	14.9	4.3	2.4	<0.1	0.4	<0.5	0.19	1.5	5.2
Kotaneelee YT I-48	3036.00	9960.63	3030.00	9940.95	Banff - *shale*	0.66	1.1	54.0	20.5	197	62.2	16.0	0.4	<0.1	0.3	<0.1	1.1	0.03	0.2	<0.5
Kotaneelee YT I-48	3045.00	9990.16	3039.00	9970.47	Banff - *shale*	0.62	2.2	42.7	22.8	165	57.7	10.6	0.3	0.2	0.3	0.1	0.6	0.03	0.2	1.3
Kotaneelee YT I-48	3054.00	10019.69	3048.00	10000.00	Banff - *shale*	0.58	1.9	36.8	15.7	202	56.5	10.4	0.5	0.2	0.3	0.1	<0.5	0.04	0.1	0.8
Kotaneelee YT I-48	3060.00	10039.37	3054.00	10019.69	Banff - *shale*	0.59	1.4	43.8	16.0	213	52.9	10.2	0.5	0.2	0.2	<0.1	<0.5	0.03	0.1	0.7
Kotaneelee YT I-48	3072.00	10078.74	3066.00	10059.06	Banff - *shale*	0.56	2.3	39.7	16.9	133	55.1	9.9	0.3	0.3	0.2	0.1	<0.5	0.02	0.1	0.6
Kotaneelee YT I-48	3078.00	10098.43	3072.00	10078.74	Banff - *shale*	0.75	2.3	38.4	17.2	232	55.5	10.3	3.0	0.6	0.2	0.2	1.7	0.04	0.1	2.8
Kotaneelee YT I-48	3084.00	10118.11	3078.00	10098.43	Banff - *shale*	1.02	6.1	37.5	19.7	330	61.2	15.2	4.4	1.6	0.3	0.1	1.5	0.06	0.3	4.3
Kotaneelee YT I-48	3090.00	10137.80	3084.00	10118.11	Banff - *shale*	1.20	7.7	57.3	21.4	344	64.9	15.9	3.5	2.0	0.3	0.2	1.0	0.05	0.5	4.5
Kotaneelee YT I-48	3096.00	10157.48	3090.00	10137.80	Banff - *shale*	1.10	6.9	37.2	21.5	332	63.8	16.5	5.8	1.9	0.3	0.2	<0.5	0.06	0.4	5.3
Kotaneelee YT I-48	3099.00	10167.32	3093.00	10147.64	Banff - *shale*	1.08	9.2	45.9	22.7	483	69.5	16.9	7.9	2.4	0.3	0.2	0.5	0.07	0.5	5.2
Kotaneelee YT I-48	3108.00	10196.85	3102.00	10177.17	Banff - *carbonate*	0.96	4.9	56.8	21.5	313	59.4	15.6	5.8	1.2	0.3	0.2	0.9	0.04	0.3	4.0
Kotaneelee YT I-48	3117.00	10226.38	3111.00	10206.69	Banff - *carbonate*	0.72	1.1	30.7	16.4	137	41.5	8.7	0.9	0.7	0.2	<0.1	0.7	0.02	0.1	1.2
Kotaneelee YT I-48	3126.00	10255.91	3120.00	10236.22	Banff - *carbonate*	0.81	1.3	41.0	18.5	172	52.4	11.5	0.5	0.4	0.3	0.1	0.9	0.04	0.1	<0.5
Kotaneelee YT I-48	3135.00	10285.43	3129.00	10265.75	Banff - *carbonate*	0.78	1.1	36.6	16.6	179	42.9	9.8	0.7	0.3	0.2	0.1	<0.5	<0.01	0.1	<0.5
Kotaneelee YT I-48	3144.00	10314.96	3138.00	10295.28	Banff - *carbonate*	0.81	1.4	40.9	64.9	195	49.8	10.8	0.7	0.3	0.2	0.1	1.3	0.04	0.1	2.0
Kotaneelee YT I-48	3153.00	10344.49	3147.00	10324.80	Banff - *carbonate*	0.83	1.3	34.5	17.0	303	49.6	11.8	0.8	0.4	0.2	0.1	<0.5	0.05	0.2	<0.5
Kotaneelee YT I-48	3156.00	10354.33	3150.00	10334.65	Banff - *carbonate*	0.70	1.3	45.7	17.7	166	55.5	11.1	0.5	0.2	0.3	0.1	<0.5	0.02	0.2	<0.5
Kotaneelee YT I-48	3162.00	10374.02	3156.00	10354.33	Exshaw	0.79	3.3	45.9	20.3	357	54.4	9.6	2.4	0.5	0.2	0.5	<0.5	0.05	0.1	4.2
Kotaneelee YT I-48	3168.00	10393.70	3162.00	10374.02	Exshaw	0.87	3.4	31.4	19.0	436	54.0	13.1	2.9	0.7	0.2	0.3	<0.5	0.07	0.2	3.0
Kotaneelee YT I-48	3174.00	10413.39	3168.00	10393.70	Exshaw	1.09	4.1	41.0	18.2	281	56.8	12.5	2.1	0.9	0.3	0.4	<0.5	0.06	0.2	4.5
Kotaneelee YT I-48	3180.00	10433.07	3174.00	10413.39	Exshaw	1.01	4.7	34.5	15.5	250	56.0	8.9	3.1	0.9	0.2	0.5	<0.5	0.08	0.2	9.3
Kotaneelee YT I-48	3186.00	10452.76	3180.00	10433.07	Exshaw	1.15	6.5	60.3	19.5	290	61.3	10.0	4.6	1.4	0.2	0.7	<0.5	0.06	0.2	10.3
Kotaneelee YT I-48	3192.00	10472.44	3186.00	10452.76	Exshaw	1.26	7.4	47.7	15.8	353	61.3	10.1	5.1	1.5	0.2	1.1	<0.5	0.08	0.1	13.0
Kotaneelee YT I-48	3198.00	10492.13	3192.00	10472.44	Exshaw	1.03	7.2	50.6	16.1	531	58.2	11.0	9.1	2.2	0.2	0.7	<0.5	0.07	0.2	12.8
Kotaneelee YT I-48	3204.00	10511.81	3198.00	10492.13	Exshaw	1.15	13.0	51.3	16.8	461	75.1	14.3	6.5	2.7	0.2	0.3	<0.5	0.08	0.5	8.6

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	TOT/S (%)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ni (ppm)	As (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	Ag (ppm)	Au (ppb)	Hg (ppm)	Tl (ppm)	Se (ppm)
						0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Kotaneelee YT I-48	3210.00	10531.50	3204.00	10511.81	Exshaw	1.28	9.8	49.8	22.9	499	70.9	19.7	5.1	2.1	0.2	0.3	<0.5	0.09	0.4	7.6
Kotaneelee YT I-48	3216.00	10551.18	3210.00	10531.50	Exshaw	1.20	12.7	52.2	18.3	669	70.2	17.9	10.6	3.5	0.2	0.3	<0.5	0.08	0.5	12.0
Kotaneelee YT I-48	3222.00	10570.87	3216.00	10551.18	Exshaw	1.46	23.7	50.1	16.8	462	69.3	17.3	4.9	4.4	0.2	0.2	<0.5	0.11	0.4	5.4
Kotaneelee YT I-48	3228.00	10590.55	3222.00	10570.87	Exshaw	1.10	22.6	32.3	13.0	676	66.0	13.9	7.4	3.6	0.2	0.3	<0.5	0.12	0.5	9.6
Kotaneelee YT I-48	3234.00	10610.24	3228.00	10590.55	Exshaw	1.44	23.2	35.6	15.4	537	64.7	18.9	5.3	4.0	0.2	0.2	<0.5	0.21	0.4	7.3
Kotaneelee YT I-48	3246.00	10649.61	3240.00	10629.92	Exshaw	1.14	31.7	35.2	11.7	195	66.1	12.0	1.6	2.6	0.1	0.2	<0.5	0.26	0.4	4.6
Kotaneelee YT I-48	3249.00	10659.45	3243.00	10639.76	Exshaw	1.08	31.5	28.2	9.3	172	67.8	11.0	1.3	2.1	0.1	0.1	<0.5	0.15	0.3	3.7
Kotaneelee YT I-48	3252.00	10669.29	3246.00	10649.61	Exshaw	0.99	32.4	33.4	8.7	145	68.1	11.1	1.0	1.6	0.1	0.1	<0.5	0.13	0.3	4.0
Kotaneelee YT I-48	3255.00	10679.13	3249.00	10659.45	Exshaw	0.99	34.0	27.7	9.4	257	71.9	11.8	2.9	1.8	<0.1	0.1	<0.5	0.12	0.3	3.5
Kotaneelee YT I-48	3258.00	10688.98	3252.00	10669.29	Exshaw	1.13	33.0	29.6	9.3	183	80.9	12.7	1.5	2.0	0.1	0.2	<0.5	0.10	0.4	4.3
Kotaneelee YT I-48	3261.00	10698.82	3255.00	10679.13	Exshaw	1.18	23.0	31.2	9.0	177	77.5	11.8	1.5	2.7	0.1	0.1	2.0	0.14	0.5	4.7
Kotaneelee YT I-48	3264.00	10708.66	3258.00	10688.98	Exshaw	1.36	23.8	32.9	11.2	215	75.9	13.5	2.3	2.8	0.1	0.2	1.3	0.14	0.5	5.0
Kotaneelee YT I-48	3267.00	10718.50	3261.00	10698.82	Exshaw	1.48	23.3	33.3	11.6	165	72.1	15.0	1.5	2.6	0.1	0.2	<0.5	0.27	0.4	4.2
Kotaneelee YT I-48	3270.00	10728.35	3264.00	10708.66	Exshaw	1.50	26.2	37.0	11.5	252	70.3	16.5	2.2	2.6	0.2	0.2	0.9	0.18	0.5	4.0
Kotaneelee YT I-48	3273.00	10738.19	3267.00	10718.50	Patry	1.35	39.3	48.2	20.5	133	70.1	13.5	1.0	1.9	0.1	0.2	<0.5	0.22	0.4	3.1
Kotaneelee YT I-48	3276.00	10748.03	3270.00	10728.35	Patry	1.38	36.2	43.0	12.7	137	63.9	12.9	1.2	1.8	0.1	0.2	<0.5	0.21	0.4	3.4
Kotaneelee YT I-48	3279.00	10757.87	3273.00	10738.19	Patry	1.41	27.2	36.2	66.1	138	64.2	13.4	1.2	1.9	0.1	0.2	<0.5	0.15	0.4	3.3
Kotaneelee YT I-48	3282.00	10767.72	3276.00	10748.03	Patry	1.23	28.4	62.2	74.9	150	59.0	14.6	1.3	2.2	0.2	0.1	<0.5	0.17	0.4	2.0
Kotaneelee YT I-48	3285.00	10777.56	3279.00	10757.87	Patry	1.28	29.7	43.0	10.5	147	69.4	15.6	1.1	2.3	0.1	0.2	0.6	0.14	0.3	4.2
Kotaneelee YT I-48	3288.00	10787.40	3282.00	10767.72	Patry	1.39	27.7	64.8	11.8	162	67.7	15.5	1.6	2.4	0.1	0.2	<0.5	0.16	0.3	2.5
Kotaneelee YT I-48	3291.00	10797.24	3285.00	10777.56	Patry	1.40	33.0	42.1	11.2	137	77.6	16.8	1.4	2.5	0.1	0.2	<0.5	0.17	0.3	2.6
Kotaneelee YT I-48	3294.00	10807.09	3288.00	10787.40	Patry	1.44	33.4	51.0	10.7	172	83.9	16.8	1.6	2.7	0.1	0.2	<0.5	0.16	0.4	3.0
Kotaneelee YT I-48	3297.00	10816.93	3291.00	10797.24	Patry	1.39	25.6	42.2	10.9	137	69.7	14.5	1.7	2.3	0.1	0.2	<0.5	0.20	0.3	3.2
Kotaneelee YT I-48	3300.00	10826.77	3294.00	10807.09	Patry	1.30	22.9	39.5	9.8	131	63.1	15.1	1.4	2.7	0.1	0.2	<0.5	0.18	0.3	2.8
Kotaneelee YT I-48	3303.00	10836.61	3297.00	10816.93	Patry	1.37	27.8	49.0	65.0	138	65.9	16.3	1.5	2.7	0.1	0.2	<0.5	0.12	0.2	2.6
Kotaneelee YT I-48	3306.00	10846.46	3300.00	10826.77	Patry	1.46	26.0	39.8	34.3	141	63.9	17.4	1.4	2.8	0.1	0.2	<0.5	0.17	0.4	3.5
Kotaneelee YT I-48	3309.00	10856.30	3303.00	10836.61	Patry	1.61	24.4	47.9	11.1	131	63.1	16.8	1.1	2.1	0.1	0.1	<0.5	0.12	0.2	2.0
Kotaneelee YT I-48	3312.00	10866.14	3306.00	10846.46	Patry	1.39	16.0	38.0	9.8	97	53.1	15.9	0.6	2.0	0.1	0.1	<0.5	0.12	0.3	2.1
Kotaneelee YT I-48	3315.00	10875.98	3309.00	10856.30	Patry	1.56	16.7	36.4	10.9	171	58.3	17.4	1.3	1.5	0.1	0.1	<0.5	0.15	0.2	2.3
Kotaneelee YT I-48	3318.00	10885.83	3312.00	10866.14	Patry	2.26	39.9	47.6	18.8	122	51.4	21.6	1.2	1.8	0.2	0.3	<0.5	0.20	0.3	2.8
Kotaneelee YT I-48	3321.00	10895.67	3315.00	10875.98	Patry	1.59	16.4	30.7	10.1	100	62.7	12.6	0.5	1.3	0.1	0.1	<0.5	0.13	0.3	1.2
Kotaneelee YT I-48	3324.00	10905.51	3318.00	10885.83	Patry	1.51	13.6	58.7	11.0	141	60.1	10.7	0.7	1.1	0.1	0.1	<0.5	0.09	0.2	1.7
Kotaneelee YT I-48	3330.00	10925.20	3324.00	10905.51	Patry	1.87	20.8	44.3	11.6	77	60.5	12.3	0.3	1.0	0.1	0.1	<0.5	0.14	0.3	2.9
Kotaneelee YT I-48	3333.00	10935.04	3327.00	10915.35	Patry	1.66	28.3	51.6	199.1	164	64.8	16.8	0.4	1.3	0.1	0.1	<0.5	0.18	0.5	2.0
Kotaneelee YT I-48	3336.00	10944.88	3330.00	10925.20	Fort Simpson - *upper*	3.30	22.6	34.6	210.7	487	58.4	20.2	1.2	1.2	0.2	0.2	<0.5	0.21	0.5	2.0
Kotaneelee YT I-48	3339.00	10954.72	3333.00	10935.04	Fort Simpson - *upper*	5.84	11.3	48.3	676.6	337	61.5	19.7	0.8	0.8	0.4	0.1	<0.5	0.13	0.6	2.4
Kotaneelee YT I-48	3342.00	10964.57	3336.00	10944.88	Fort Simpson - *upper*	3.98	3.9	45.1	442.9	137	67.9	11.5	0.1	0.5	0.3	<0.1	<0.5	0.09	0.5	0.7
Kotaneelee YT I-48	3534.00	11594.49	3528.00	11574.80	Fort Simpson - *lower*	1.32	9.5	78.6	24.2	202	62.4	9.9	0.3	0.4	0.3	0.1	<0.5	0.05	0.3	0.7
Kotaneelee YT I-48	3537.00	11604.33	3531.00	11584.65	Fort Simpson - *lower*	1.34	5.3	49.2	21.9	142	51.9	11.1	0.2	0.3	0.3	<0.1	<0.5	0.04	0.3	<0.5
Kotaneelee YT I-48	3540.00	11614.17	3534.00	11594.49	Fort Simpson - *lower*	1.41	5.4	49.0	18.8	227	50.0	11.3	0.3	0.4	0.2	0.1	<0.5	0.03	0.3	0.9
Kotaneelee YT I-48	3546.00	11633.86	3538.00	11607.61	Fort Simpson - *lower*	0.93	2.1	66.8	12.6	145	49.3	12.1	0.2	0.3	0.3	<0.1	<0.5	0.02	0.3	<0.5
Kotaneelee YT I-48	3549.00	11643.70	3541.00	11617.45	Fort Simpson - *lower*	1.21	4.2	58.8	12.1	115	53.9	12.2	0.2	0.4	0.2	<0.1	<0.5	0.04	0.3	<0.5
Kotaneelee YT I-48	3552.00	11653.54	3544.00	11627.30	Fort Simpson - *lower*	1.24	4.3	93.4	16.1	182	53.8	11.3	0.4	0.5	0.3	0.1	0.6	0.05	0.4	<0.5
Kotaneelee YT I-48	3555.00	11663.39	3547.00	11637.14	Fort Simpson - *lower*	2.11	7.1	50.8	16.6	131	66.6	15.2	0.3	0.6	0.3	0.2	<0.5	0.05	0.5	1.7
Kotaneelee YT I-48	3558.00	11673.23	3550.00	11646.98	Muskwa	2.16	21.6	43.4	15.6	140	72.9	15.6	0.8	1.1	0.2	0.2	<0.5	0.07	0.5	2.7
Kotaneelee YT I-48	3561.00	11683.07	3553.00	11656.82	Muskwa	1.92	34.5	55.0	10.8	314	72.4	11.2	2.4	1.6	0.1	0.2	<0.5	0.10	0.4	4.5
Kotaneelee YT I-48	3564.00	11692.91	3556.00	11666.67	Muskwa	1.80	33.0	44.0	10.5	252	74.7	12.1	1.7	1.3	0.1	0.2	<0.5	0.07	0.5	3.5
Kotaneelee YT I-48	3567.00	11702.76	3559.00	11676.51	Muskwa	2.03	32.2	41.5	12.4	261	77.9	11.4	1.9	2.0	0.1	0.3	<0.5	0.09	0.4	4.0
Kotaneelee YT I-48	3576.00	11732.28	3568.00	11706.04	Otter Park	1.66	26.7	51.2	86.9	111	55.8	7.8	0.7	1.1	0.1	0.2	<0.5	0.11	0.4	2.5
Kotaneelee YT I-48	3579.00	11742.13	3571.00	11715.88	Otter Park	1.56	25.8	65.7	14.9	91	56.2	7.3	0.4	1.0	0.1	0.2	<0.5	0.13	0.3	2.9
Kotaneelee YT I-48	3582.00	11751.97	3574.00	11725.72	Otter Park	1.85	21.2	62.0	15.1	64	57.9	7.8	0.3	0.9	0.1	0.2	<0.5	0.13	0.4	2.3
Kotaneelee YT I-48	3585.00	11761.81	3577.00	11735.56	Otter Park	1.84	23.4	47.9	13.0	64	58.0	8.3	0.5	1.0	0.1	0.2	<0.5	0.14	0.4	2.8
Kotaneelee YT I-48	3588.00	11771.65	3580.00	11745.41	Otter Park	2.28	21.0	75.4	17.8	71	53.1	8.8	0.4	0.9	0.2	0.2	<0.5	0.15	0.5	2.7
Kotaneelee YT I-48	3591.00	11781.50	3583.00	11755.25	Otter Park	2.22	21.5	52.0	38.9	93	56.2	8.4	0.4	0.8	0.2	0.2	<0.5	0.14	0.5	2.7
Kotaneelee YT I-48	3594.00	11791.34	3586.00	11765.09	Otter Park	2.34	21.1	64.2	20.2	87	71.2	11.4	0.6	0.9	0.2	0.3	<0.5	0.15	0.5	3.1
Kotaneelee YT I-48	3597.00	11801.18	3589.00	11774.93	Otter Park	2.50	24.7	51.3	21.8	89	72.6	10.5	0.6	0.9	0.2	0.3	<0.5	0.16	0.5	4.1

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	TOT/S (%)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ni (ppm)	As (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	Ag (ppm)	Au (ppb)	Hg (ppm)	Tl (ppm)	Se (ppm)
						0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Kotaneelee YT I-48	3600.00	11811.02	3592.00	11784.78	Otter Park	3.34	23.7	87.3	22.0	158	75.4	13.1	0.9	1.1	0.2	0.3	<0.5	0.15	0.5	5.4
Kotaneelee YT I-48	3603.00	11820.87	3595.00	11794.62	Otter Park	3.00	22.9	55.7	27.8	156	71.3	10.9	0.5	1.0	0.2	0.3	<0.5	0.15	0.4	3.6
Kotaneelee YT I-48	3606.00	11830.71	3598.00	11804.46	Otter Park	2.70	17.3	60.4	75.5	199	60.4	9.2	1.5	0.9	0.2	0.3	<0.5	0.16	0.4	3.9
Kotaneelee YT I-48	3609.00	11840.55	3601.00	11814.30	Otter Park	2.75	19.0	60.5	30.3	103	68.8	12.7	0.7	0.9	0.2	0.2	<0.5	0.13	0.4	3.8
Kotaneelee YT I-48	3612.00	11850.39	3604.00	11824.15	Otter Park	2.13	35.1	67.3	19.2	118	88.0	9.5	1.5	1.0	0.2	0.3	<0.5	0.16	0.5	3.4
Kotaneelee YT I-48	3615.00	11860.24	3607.00	11833.99	Otter Park	2.05	35.1	95.7	21.2	130	86.2	9.5	1.5	1.3	0.2	0.3	<0.5	0.17	0.6	3.1
Kotaneelee YT I-48	3618.00	11870.08	3610.00	11843.83	Otter Park	2.96	47.5	74.6	23.7	156	98.9	14.0	2.5	1.2	0.2	0.4	<0.5	0.21	0.7	4.0
Kotaneelee YT I-48	3621.00	11879.92	3613.00	11853.67	Evie	1.67	52.3	72.6	36.5	198	90.3	10.0	2.7	2.1	0.1	0.2	<0.5	0.16	0.4	3.8
Kotaneelee YT I-48	3624.00	11889.76	3616.00	11863.52	Evie	1.65	41.9	35.6	14.1	153	76.0	9.9	2.1	1.9	<0.1	0.2	<0.5	0.13	0.6	3.9
Kotaneelee YT I-48	3627.00	11899.61	3619.00	11873.36	Evie	2.68	38.5	81.8	275.5	328	163.9	14.1	2.4	1.7	0.1	0.2	<0.5	*	0.8	4.4
Kotaneelee YT I-48	3630.00	11909.45	3622.00	11883.20	Evie	2.16	98.0	91.8	880.7	>10000	228.0	17.1	2.3	5.9	0.3	0.4	0.7	0.12	1.2	3.6
Kotaneelee YT I-48	3633.00	11919.29	3625.00	11893.05	Evie	1.70	47.6	53.2	14.8	308	116.4	11.0	2.6	2.2	0.1	0.2	<0.5	0.19	0.8	4.9
Kotaneelee YT I-48	3636.00	11929.13	3628.00	11902.89	Evie	1.75	45.9	44.7	46.6	443	112.2	11.7	2.5	1.9	0.1	0.2	<0.5	0.16	0.8	4.9
Kotaneelee YT I-48	3639.00	11938.98	3631.00	11912.73	Evie	1.59	39.0	35.7	22.2	474	95.0	10.4	2.7	2.3	0.1	0.2	<0.5	0.15	0.8	4.2
Kotaneelee YT I-48	3642.00	11948.82	3634.00	11922.57	Evie	1.60	38.1	34.7	9.9	308	104.5	11.8	4.0	2.8	<0.1	0.2	<0.5	0.11	0.7	4.6
Kotaneelee YT I-48	3645.00	11958.66	3637.00	11932.42	Evie	2.51	71.5	79.5	1813.9	4802	171.0	18.5	11.5	8.5	0.3	0.4	<0.5	0.26	1.3	9.1
Kotaneelee YT I-48	3648.00	11968.50	3640.00	11942.26	Evie	1.23	55.7	27.7	29.0	744	125.3	9.9	5.7	5.2	<0.1	0.3	<0.5	0.21	0.8	5.4
Kotaneelee YT I-48	3651.00	11978.35	3643.00	11952.10	Evie	1.23	47.2	30.8	52.2	435	123.8	9.6	2.9	4.3	<0.1	0.2	<0.5	0.14	0.8	5.6
Kotaneelee YT I-48	3654.00	11988.19	3646.00	11961.94	Evie	1.87	69.7	58.8	64.1	982	142.7	13.8	3.4	4.5	<0.1	0.3	<0.5	0.27	0.9	6.2
Kotaneelee YT I-48	3657.00	11998.03	3649.00	11971.79	Nahanni	0.99	22.6	34.9	104.5	2049	47.9	5.7	4.7	2.2	<0.1	0.1	<0.5	0.50	0.4	3.3
Kotaneelee YT I-48	3660.00	12007.87	3652.00	11981.63	Nahanni	1.01	21.4	27.7	107.6	3838	95.9	6.4	14.2	2.2	<0.1	2.0	<0.5	0.79	0.5	3.3
Kotaneelee YT I-48	3672.00	12047.24	3664.00	12021.00	Nahanni	1.16	10.8	45.6	140.0	1920	50.9	10.0	2.7	1.0	0.2	0.3	<0.5	0.21	0.5	2.3
Kotaneelee YT I-48	3675.00	12057.09	3667.00	12030.84	Nahanni	0.12	2.6	17.3	9.7	377	8.8	0.6	1.2	0.2	<0.1	0.1	1.2	0.09	<0.1	<0.5
Kotaneelee YT I-48	3678.00	12066.93	3670.00	12040.68	Nahanni	0.15	3.4	34.6	15.2	281	6.8	1.2	0.8	0.3	<0.1	0.1	<0.5	0.06	<0.1	<0.5
Kotaneelee YT I-48	3681.00	12076.77	3673.00	12050.53	Nahanni	0.15	2.4	57.1	25.7	407	8.4	1.7	0.9	0.3	<0.1	0.1	0.6	0.06	<0.1	<0.5
Kotaneelee YT I-48	3684.00	12086.61	3676.00	12060.37	Nahanni	0.18	3.4	11.1	68.1	311	39.7	1.5	0.9	0.3	<0.1	0.2	<0.5	0.05	0.1	<0.5
Kotaneelee YT I-48	3687.00	12096.46	3679.00	12070.21	Nahanni	0.15	2.2	54.9	8.2	446	8.0	1.6	1.6	0.3	<0.1	<0.1	<0.5	0.10	<0.1	<0.5
Kotaneelee YT I-48	3690.00	12106.30	3682.00	12080.05	Nahanni	0.13	2.5	26.8	11.1	410	13.6	1.2	1.6	0.3	<0.1	<0.1	<0.5	0.10	<0.1	<0.5
Kotaneelee YT I-48	3693.00	12116.14	3685.00	12089.90	Nahanni	0.21	2.3	35.2	15.4	653	7.2	0.9	2.4	0.3	<0.1	<0.1	<0.5	0.16	<0.1	<0.5
Kotaneelee YT I-48	3696.00	12125.98	3688.00	12099.74	Nahanni	0.27	3.1	44.0	86.5	982	14.4	2.0	3.3	0.4	<0.1	0.2	<0.5	0.35	<0.1	<0.5
Kotaneelee YT I-48	3699.00	12135.83	3691.00	12109.58	Nahanni	0.18	2.0	35.7	45.2	1257	5.0	1.4	4.3	0.3	<0.1	0.2	<0.5	0.53	<0.1	<0.5
Kotaneelee YT I-48	3702.00	12145.67	3694.00	12119.42	Nahanni	0.21	1.9	34.6	12.1	2848	6.5	0.8	9.1	0.3	<0.1	0.3	<0.5	1.17	<0.1	<0.5
Kotaneelee YT I-48	3705.00	12155.51	3697.00	12129.27	Nahanni	0.11	1.5	47.7	9.7	704	10.6	1.3	2.6	0.2	<0.1	0.2	<0.5	0.27	<0.1	<0.5
North Beaver River YT I-27	3611.88	11850.0			Fort Simpson - *lower*	1.30	6.8	42.2	53.9	140	109.2	12.0	0.4	0.3	0.2	0.1	<0.5	0.07	0.2	1.3
North Beaver River YT I-27	3614.93	11860.0			Muskwa	1.11	5.7	38.9	18.9	196	66.5	13.4	0.5	0.4	0.3	0.2	<0.5	0.08	0.2	1.7
North Beaver River YT I-27	3617.98	11870.0			Muskwa	1.50	8.6	29.3	21.6	145	55.6	12.3	1.0	0.7	0.2	0.2	0.7	0.13	0.5	2.4
North Beaver River YT I-27	3624.07	11890.0			Muskwa	1.72	22.7	35.9	15.7	177	75.1	12.3	1.0	1.0	0.2	0.2	<0.5	0.16	0.4	3.2
North Beaver River YT I-27	3630.17	11910.0			Muskwa	1.19	9.2	35.9	19.3	155	60.4	11.5	0.4	0.4	0.2	0.2	0.8	0.13	0.3	1.6
North Beaver River YT I-27	3636.26	11930.0			Otter Park	0.95	5.0	29.8	19.1	219	57.5	10.7	0.5	0.2	0.2	0.1	0.6	0.09	0.3	1.1
North Beaver River YT I-27	3645.41	11960.0			Otter Park	1.14	5.5	43.0	21.9	195	59.7	11.4	0.5	0.3	0.2	0.2	<0.5	0.14	0.3	1.2
North Beaver River YT I-27	3651.50	11980.0			Otter Park	1.02	3.6	32.7	21.2	187	59.1	13.2	0.8	0.3	0.3	0.2	<0.5	0.09	0.3	1.3
North Beaver River YT I-27	3657.60	12000.0			Otter Park	1.09	6.9	38.1	35.2	224	70.8	14.5	0.6	0.6	0.3	0.2	0.6	0.22	0.3	1.3
North Beaver River YT I-27	3663.70	12020.0			Otter Park	9.37	10.6	126.4	202.3	1405	32.4	24.1	6.0	37.6	0.2	0.7	<0.5	9.48	0.4	1.7
North Beaver River YT I-27	3669.79	12040.0			Otter Park	0.83	4.0	32.2	21.6	183	57.5	11.4	0.3	0.2	0.2	0.1	<0.5	0.07	0.2	1.0
North Beaver River YT I-27	3678.94	12070.0			Otter Park	1.00	5.1	66.3	19.3	152	54.6	12.3	0.5	0.3	0.2	0.2	<0.5	0.17	0.3	1.1
North Beaver River YT I-27	3688.08	12100.0			Evie	0.78	3.7	32.9	17.2	207	52.9	10.6	0.6	0.3	0.2	0.2	<0.5	0.13	0.2	2.4
North Beaver River YT I-27	3694.18	12120.0			Evie	7.35	13.9	112.0	215.0	2009	49.7	21.2	9.1	31.3	0.2	0.5	0.9	13.97	0.6	1.7
North Beaver River YT I-27	3697.22	12130.0			Evie	1.36	40.9	35.3	12.7	853	122.9	12.3	10.3	5.4	<0.1	0.3	<0.5	0.54	1.0	7.1
North Beaver River YT I-27	3700.27	12140.0			Evie	1.15	31.6	36.3	12.4	1209	119.7	10.0	5.7	2.7	<0.1	0.2	<0.5	0.33	0.8	3.2
North Beaver River YT I-27	3706.37	12160.0			Evie	0.94	11.1	25.7	18.8	245	136.4	8.6	1.1	1.0	<0.1	0.1	<0.5	0.15	0.7	10.5
North Beaver River YT I-27	3709.42	12170.0			Nahanni	1.22	4.2	38.9	20.0	248	56.3	14.5	1.1	0.8	0.2	0.1	0.6	0.11	0.3	2.3
North Beaver River YT I-27	3712.46	12180.0			Nahanni	0.92	5.8	27.5	24.2	284	52.6	10.4	1.0	0.8	0.1	0.1	<0.5	0.17	0.4	1.3
Whitefish River	254.00	833.33			Banff - *shale*	1.47	47.1	20.0	15.3	17	25.9	16.2	0.4	1.2	0.2	0.3	<0.5	0.21	0.5	6.1
Whitefish River	252.00	826.77			Banff - *shale*	0.25	17.3	5.4	8.9	4	3.2	1.8	0.2	0.9	0.2	0.2	<0.5	0.16	0.2	4.6
Whitefish River	250.00	820.21			Banff - *shale*	0.24	23.6	7.0	6.8	5	4.9	1.5	0.3	1.3	0.2	0.4	0.7	0.11	0.4	5.8
Whitefish River	248.00	813.65			Banff - *shale*	0.20	18.1	4.3	8.8	2	2.6	1.7	0.2	1.2	0.2	0.2	<0.5	0.09	0.2	3.1

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	TOT/S (%)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ni (ppm)	As (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	Ag (ppm)	Au (ppb)	Hg (ppm)	Tl (ppm)	Se (ppm)
						0.02	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.5
Whitefish River	246.00	807.09			Banff - *shale*	0.30	13.8	5.1	11.5	3	3.4	<0.5	0.2	0.8	0.1	0.2	<0.5	0.19	0.2	6.0
Whitefish River	244.00	800.52			Banff - *shale*	0.28	25.4	5.4	10.5	3	2.6	1.2	0.2	0.6	0.2	0.2	<0.5	0.24	0.3	6.3
Whitefish River	242.00	793.96			Banff - *shale*	0.29	14.3	4.2	7.7	3	3.6	2.7	0.1	0.6	0.2	0.2	<0.5	0.13	0.2	3.4
Whitefish River	240.00	787.40			Banff - *shale*	0.33	12.4	4.4	17.2	3	2.2	1.4	0.2	0.7	0.2	0.3	<0.5	0.24	0.2	4.4
Whitefish River	238.00	780.84			Banff - *shale*	0.22	13.6	3.5	11.5	3	4.1	1.5	0.2	0.4	0.2	0.2	0.6	0.13	0.3	3.4
Whitefish River	236.00	774.28			Banff - *shale*	0.27	26.5	5.3	11.2	3	4.3	2.1	0.2	0.6	0.2	0.2	0.6	0.10	0.3	3.4
Whitefish River	234.00	767.72			Banff - *shale*	0.25	29.2	8.4	7.0	6	5.1	1.6	0.2	0.3	0.1	0.1	0.9	0.09	0.2	2.4
Whitefish River	232.00	761.15			Banff - *shale*	0.23	16.1	8.4	4.2	4	5.0	<0.5	0.2	0.3	0.1	<0.1	1.2	0.06	0.1	2.2
Whitefish River	230.00	754.59			Banff - *shale*	0.72	25.7	4.6	16.0	3	4.8	1.7	0.2	0.8	0.2	0.3	<0.5	0.37	0.1	4.1
Whitefish River	228.00	748.03			Banff - *shale*	0.23	38.9	5.8	9.5	3	5.7	1.3	0.3	0.6	0.2	0.2	<0.5	0.10	0.2	3.0
Whitefish River	226.00	741.47			Banff - *shale*	0.28	31.0	5.1	9.1	5	6.6	1.1	0.3	1.0	0.2	0.2	1.3	0.09	0.2	3.8
Whitefish River	224.00	734.91			Banff - *shale*	0.18	24.4	6.0	4.8	4	5.0	1.3	0.1	1.3	<0.1	0.2	<0.5	0.06	0.1	2.2
Whitefish River	222.00	728.35			Banff - *shale*	0.31	44.5	3.5	6.7	2	7.3	1.2	<0.1	1.6	0.1	0.2	<0.5	0.08	0.1	3.7
Whitefish River	220.00	721.78			Banff - *shale*	0.35	48.3	9.0	4.4	209	17.8	4.4	<0.1	1.2	<0.1	0.2	<0.5	0.07	0.7	2.3
Whitefish River	218.00	715.22			Banff - *carbonate*	0.26	36.9	5.9	5.3	3	6.7	2.1	<0.1	1.4	<0.1	0.1	<0.5	0.06	0.3	2.2
Whitefish River	216.00	708.66			Banff - *carbonate*	1.75	72.3	19.7	12.3	16	26.5	19.2	<0.1	1.7	0.2	0.2	<0.5	0.14	0.6	5.2
Whitefish River	214.00	702.10			Banff - *carbonate*	0.25	28.6	3.3	6.1	2	4.7	1.9	<0.1	1.1	<0.1	0.1	<0.5	0.07	0.3	4.4
Whitefish River	212.00	695.54			Banff - *carbonate*	0.24	21.3	4.4	9.2	3	3.6	<0.5	<0.1	1.4	<0.1	0.1	<0.5	0.09	0.2	6.5
Whitefish River	210.00	688.98			Banff - *carbonate*	0.42	41.4	8.6	9.0	24	6.1	6.8	<0.1	2.9	0.1	0.3	<0.5	0.14	0.9	7.2
Whitefish River	208.00	682.41			Banff - *carbonate*	0.53	29.9	6.2	11.7	12	6.0	3.9	<0.1	2.8	0.2	0.2	<0.5	0.13	0.5	6.8
Whitefish River	206.00	675.85			Banff - *carbonate*	0.48	28.5	5.7	6.5	16	7.5	7.9	<0.1	1.7	0.1	0.2	<0.5	0.12	0.7	4.9
Whitefish River	204.00	669.29			Banff - *carbonate*	0.42	39.7	5.0	8.1	14	11.4	7.9	<0.1	1.5	0.1	0.2	<0.5	0.12	0.7	5.8
Whitefish River	202.00	662.73			Banff - *carbonate*	0.51	59.9	9.7	6.3	44	35.5	14.1	0.3	1.5	0.1	0.2	<0.5	0.13	0.7	6.4
Whitefish River	200.00	656.17			Banff - *carbonate*	0.47	47.0	5.0	7.1	4	7.4	7.3	<0.1	1.7	0.1	0.2	<0.5	0.11	0.7	5.4
Whitefish River	198.00	649.61			Exshaw	0.53	41.5	4.9	4.9	29	15.9	10.9	<0.1	2.8	<0.1	0.2	<0.5	0.12	0.5	8.0
Whitefish River	196.00	643.04			Exshaw	1.81	72.0	30.0	13.1	17	30.2	20.5	0.2	2.4	0.2	0.3	0.5	0.20	0.8	6.5
Whitefish River	194.00	636.48			Exshaw	0.33	38.2	16.4	5.6	3	9.5	4.0	0.1	2.5	<0.1	0.3	0.6	0.09	0.4	6.2
Whitefish River	192.00	629.92			Exshaw	0.37	32.0	21.6	6.9	3	7.6	1.0	<0.1	4.3	<0.1	0.4	0.6	0.15	0.3	21.1
Whitefish River	190.00	623.36			Exshaw	0.61	49.8	33.4	7.7	3	9.0	6.3	<0.1	3.5	0.1	0.4	<0.5	0.10	0.5	11.9
Whitefish River	188.00	616.80			Exshaw	0.65	61.6	34.7	11.6	4	7.4	22.7	<0.1	4.9	0.1	0.5	<0.5	0.15	0.7	23.0
Whitefish River	186.00	610.24			Exshaw	0.35	40.0	5.6	8.4	2	5.5	0.8	<0.1	2.8	0.1	0.3	<0.5	0.13	0.1	12.0
Whitefish River	184.00	603.67			Exshaw	0.72	90.0	72.7	12.7	6	10.4	12.2	<0.1	9.5	0.1	1.0	<0.5	0.19	0.7	29.3
Whitefish River	182.00	597.11			Exshaw	0.59	46.9	53.1	8.1	3	11.4	15.8	<0.1	16.7	0.1	1.5	1.1	0.31	0.5	11.1
Whitefish River	180.00	590.55			Exshaw	0.80	80.5	50.5	5.0	3	14.2	27.0	<0.1	9.2	<0.1	0.8	0.6	0.29	1.0	18.6
Whitefish River	178.00	583.99			Exshaw	0.50	59.8	32.5	4.8	3	17.2	17.4	<0.1	7.9	<0.1	0.6	0.8	0.19	0.4	11.6
Whitefish River	176.00	577.43			Exshaw	0.58	106.3	51.7	5.4	6	16.6	20.6	0.4	5.3	<0.1	0.6	1.1	0.22	0.5	14.0
Whitefish River	174.00	570.87			Exshaw	0.57	161.2	72.3	6.9	3	22.9	67.3	<0.1	12.5	<0.1	0.9	<0.5	0.37	0.9	19.6
Whitefish River	172.00	564.30			Exshaw	0.89	161.9	44.7	8.2	1	21.2	24.0	<0.1	13.6	<0.1	1.7	0.6	0.56	0.5	36.8
Whitefish River	170.00	557.74			Exshaw	0.43	69.4	48.3	7.3	2	23.6	7.1	<0.1	9.5	<0.1	1.3	1.0	0.35	0.4	8.0
Whitefish River	168.00	551.18			Exshaw	0.49	67.6	48.6	5.1	2	26.0	5.4	<0.1	10.7	<0.1	1.2	1.1	0.33	0.3	5.6
Whitefish River	166.00	544.62			Exshaw	0.56	171.4	24.7	7.5	2	22.9	12.0	<0.1	5.9	<0.1	0.8	<0.5	0.37	0.2	17.7
Whitefish River	164.00	538.06			Exshaw	0.52	124.4	59.3	6.1	2	23.8	11.5	0.2	13.4	0.1	1.1	0.8	0.29	0.4	9.5
Whitefish River	162.00	531.50			Exshaw	0.42	82.7	55.2	4.4	2	21.0	5.7	0.1	5.8	<0.1	0.4	1.8	0.13	0.4	5.5
Whitefish River	160.00	524.93			Exshaw	0.48	90.2	35.2	4.4	2	21.0	3.0	0.1	5.5	<0.1	0.5	1.2	0.15	0.4	3.6
Whitefish River	158.00	518.37			Patry	0.23	58.6	23.6	5.4	2	11.9	4.5	<0.1	2.3	<0.1	0.2	0.6	0.12	0.3	3.1
Whitefish River	156.00	511.81			Patry	0.32	72.1	27.4	6.1	1	12.2	7.7	<0.1	2.6	<0.1	0.3	1.0	0.16	0.4	5.8
Whitefish River	154.00	505.25			Patry	0.22	36.6	24.2	5.4	2	12.0	3.6	<0.1	2.4	<0.1	0.3	1.6	0.09	0.4	2.7
Whitefish River	152.00	498.69			Patry	0.21	26.7	40.4	3.7	3	14.7	2.4	<0.1	3.3	<0.1	0.3	<0.5	0.12	0.4	1.8
Whitefish River	150.00	492.13			Patry	0.40	58.8	31.4	4.1	4	17.0	12.1	0.6	4.9	<0.1	0.3	<0.5	0.12	2.3	6.0
Whitefish River	148.00	485.56			Patry	0.28	34.8	25.9	5.1	2	20.2	4.3	0.1	4.9	<0.1	0.3	<0.5	0.13	0.4	3.2
Whitefish River	146.00	479.00			Patry	0.67	49.1	47.3	13.6	20	20.3	21.9	0.4	2.9	0.2	0.2	<0.5	0.18	0.3	4.8
Whitefish River	144.00	472.44			Patry	0.64	62.8	46.0	4.3	8	19.8	14.3	0.7	4.5	<0.1	0.3	<0.5	0.12	0.9	7.4
Whitefish River	142.00	465.88			Patry	0.25	21.5	31.9	3.7	3	16.3	4.3	0.2	1.4	<0.1	0.1	<0.5	0.08	0.2	2.3
Whitefish River	140.00	459.32			Patry	0.36	52.8	28.6	3.9	3	16.9	6.3	<0.1	2.4	<0.1	0.2	<0.5	0.10	0.6	12.8
Whitefish River	138.00	452.76			Patry	0.34	42.5	42.1	5.2	5	15.9	1.9	<0.1	1.7	<0.1	0.2	<0.5	0.10	0.3	6.1
Whitefish River	136.00	446.19			Patry	0.35	48.5	75.4	8.3	3	9.9	3.1	<0.1	1.9	<0.1	0.1	<0.5	0.16	0.4	8.3

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	TOT/S (%)	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ni (ppm)	As (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	Ag (ppm)	Au (ppb)	Hg (ppm)	Tl (ppm)	Se (ppm)
						0.02	**0.1**	**0.1**	**0.1**	**1**	**0.1**	**0.5**	**0.1**	**0.1**	**0.1**	**0.1**	**0.5**	**0.01**	**0.1**	**0.5**
Whitefish River	134.00	439.63			Patry	0.50	43.3	55.5	5.7	2	11.8	6.9	<0.1	2.2	<0.1	0.2	<0.5	0.15	0.7	4.0
Whitefish River	132.00	433.07			Patry	0.26	23.5	28.8	3.5	2	13.3	6.3	<0.1	2.3	<0.1	0.2	<0.5	0.09	0.2	3.0
Whitefish River	130.00	426.51			Patry	0.30	44.8	41.2	6.0	4	15.6	0.7	0.1	2.3	<0.1	0.3	<0.5	0.16	0.3	18.7
Whitefish River	128.00	419.95			Patry	0.68	75.4	45.8	12.1	3	8.2	4.6	<0.1	2.5	<0.1	0.3	0.6	0.17	0.6	23.4
Whitefish River	126.00	413.39			Patry	0.43	56.1	21.6	8.2	6	10.3	3.3	<0.1	2.1	<0.1	0.3	1.0	0.17	0.5	9.0
Whitefish River	124.00	406.82			Fort Simpson - *undif.*	0.24	17.9	11.9	5.0	6	12.6	1.1	<0.1	2.3	<0.1	0.3	<0.5	0.15	0.3	3.7
Whitefish River	122.00	400.26			Fort Simpson - *undif.*	0.31	40.1	18.3	6.9	6	14.3	3.6	<0.1	4.3	<0.1	0.2	<0.5	0.16	0.3	8.3
Whitefish River	120.00	393.70			Fort Simpson - *undif.*	0.45	32.1	60.3	7.5	5	6.9	5.7	0.1	1.5	<0.1	0.2	<0.5	0.12	0.4	7.5
Whitefish River	118.00	387.14			Fort Simpson - *undif.*	0.46	64.3	29.3	8.0	6	5.5	5.9	<0.1	1.7	<0.1	0.1	<0.5	0.16	0.6	5.8
Whitefish River	116.00	380.58			Fort Simpson - *undif.*	0.39	51.2	42.2	6.8	4	7.4	9.2	<0.1	1.3	<0.1	0.1	<0.5	0.15	0.7	3.2
Whitefish River	114.00	374.02			Fort Simpson - *undif.*	0.48	65.2	39.5	7.0	5	7.6	6.0	<0.1	1.1	<0.1	0.1	<0.5	0.17	0.6	3.9
Whitefish River	112.00	367.45			Fort Simpson - *undif.*	0.32	33.5	9.6	5.2	2	6.0	0.9	<0.1	1.0	<0.1	0.1	<0.5	0.10	0.3	1.7
Whitefish River	110.00	360.89			Fort Simpson - *undif.*	0.54	96.8	21.9	6.3	6	9.7	101.1	0.2	2.6	<0.1	0.1	<0.5	0.15	1.2	12.2
Whitefish River	108.00	354.33			Fort Simpson - *undif.*	0.30	30.9	10.5	5.0	4	8.0	2.8	<0.1	2.7	<0.1	0.1	<0.5	0.14	0.5	3.3
Whitefish River	106.00	347.77			Fort Simpson - *undif.*	1.83	78.6	35.5	11.3	20	32.0	23.5	0.1	1.7	0.1	0.1	<0.5	0.18	0.7	5.0
Whitefish River	104.00	341.21			Fort Simpson - *undif.*	0.48	88.4	30.3	7.8	8	8.7	9.8	0.2	2.7	<0.1	0.2	<0.5	0.16	1.6	8.0
Whitefish River	102.00	334.65			Fort Simpson - *undif.*	0.39	46.6	31.3	5.3	5	10.6	10.3	0.2	1.8	<0.1	0.1	<0.5	0.09	0.9	4.0
Whitefish River	100.00	328.08			Fort Simpson - *undif.*	0.36	36.8	28.4	3.8	4	9.3	18.9	0.3	1.5	<0.1	<0.1	<0.5	0.07	0.6	3.5
Whitefish River	98.00	321.52			Fort Simpson - *undif.*	0.24	23.4	18.4	5.0	5	11.8	11.3	0.2	1.4	<0.1	<0.1	<0.5	0.07	0.3	2.2
Whitefish River	96.00	314.96			Fort Simpson - *undif.*	0.68	120.0	41.6	7.6	4	11.0	75.2	0.6	5.7	0.1	0.2	<0.5	0.11	1.5	12.2
Whitefish River	94.00	308.40			Fort Simpson - *undif.*	0.47	53.1	35.2	6.3	4	12.1	10.6	0.3	2.3	<0.1	0.2	<0.5	0.13	0.5	4.4
Whitefish River	92.00	301.84			Fort Simpson - *undif.*	0.36	42.0	29.8	5.3	4	11.8	8.0	0.3	2.2	<0.1	0.1	<0.5	0.10	0.3	3.1
Whitefish River	90.00	295.28			Fort Simpson - *undif.*	0.39	47.1	24.6	5.8	4	14.1	11.7	0.3	2.5	<0.1	0.2	<0.5	0.12	0.5	3.2
Whitefish River	88.00	288.71			Fort Simpson - *undif.*	0.28	27.3	24.3	5.2	6	10.6	4.8	0.2	1.8	<0.1	<0.1	<0.5	0.08	0.5	1.3
Whitefish River	58.00	190.29			*unknown*	0.35	19.0	36.3	6.8	22	15.4	12.1	0.5	1.1	<0.1	0.1	<0.5	0.11	0.5	3.7
Whitefish River	56.00	183.73			*unknown*	0.32	37.7	59.2	5.3	159	96.7	9.5	1.4	1.4	<0.1	<0.1	<0.5	0.07	0.2	12.8
Whitefish River	54.00	177.17			*unknown*	0.29	42.7	42.7	7.8	172	79.3	24.3	1.1	3.6	<0.1	0.1	<0.5	0.12	0.2	19.3
Whitefish River	13.00	42.65			*unknown*	0.16	18.1	254.2	3.3	42	33.3	19.4	1.0	1.5	<0.1	0.1	<0.5	0.09	1.0	1.6
Whitefish River	11.00	36.09			*unknown*	0.18	35.6	151.1	6.4	114	60.5	15.9	5.2	1.4	<0.1	0.1	<0.5	0.09	0.6	6.7
Whitefish River	9.00	29.53			*unknown*	0.16	25.8	85.7	2.5	95	51.9	21.3	3.2	1.2	<0.1	<0.1	<0.5	0.08	0.6	4.0
Whitefish River	7.00	22.97			*unknown*	0.17	29.7	167.3	2.2	138	83.2	60.6	5.6	1.8	<0.1	0.1	<0.5	0.14	0.6	4.5
Whitefish River	5.00	16.40			*unknown*	0.15	26.9	46.0	7.5	139	54.5	20.9	8.8	1.6	<0.1	<0.1	<0.5	0.07	0.4	4.9
Whitefish River	3.00	9.84			*unknown*	0.18	25.0	24.1	2.6	130	37.8	19.6	9.7	2.1	<0.1	0.1	<0.5	0.09	0.6	3.4
Whitefish River	1.00	3.28			*unknown*	0.17	17.7	33.6	2.0	152	46.5	14.1	7.0	1.5	<0.1	<0.1	<0.5	0.06	0.5	3.5

Notes:

Limit of detection provided in bold text under oxide/element column header.

Stratigraphy highlighted in blue is that assessed by the NEB (2016) for unconventional resources

APPENDIX E $\delta^{13}C_{org}$ isotope data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	$\delta^{13}C_{org}$ (‰)	TOC (%)
Kotaneelee YT I-48	2982.00	9783.46	2976.00	9763.78	Banff - *shale*	-27.22	0.35
Kotaneelee YT I-48	2991.00	9812.99	2985.00	9793.31	Banff - *shale*	-27.66	0.36
Kotaneelee YT I-48	3000.00	9842.52	2994.00	9822.83	Banff - *shale*	-27.51	0.38
Kotaneelee YT I-48	3009.00	9872.05	3003.00	9852.36	Banff - *shale*	-27.38	0.37
Kotaneelee YT I-48	3018.00	9901.58	3012.00	9881.89	Banff - *shale*	-27.33	0.34
Kotaneelee YT I-48	3027.00	9931.10	3021.00	9911.42	Banff - *shale*	-27.31	0.33
Kotaneelee YT I-48	3036.00	9960.63	3030.00	9940.95	Banff - *shale*	-27.23	0.35
Kotaneelee YT I-48	3045.00	9990.16	3039.00	9970.47	Banff - *shale*	-27.05	0.40
Kotaneelee YT I-48	3054.00	10019.69	3048.00	10000.00	Banff - *shale*	-27.58	0.40
Kotaneelee YT I-48	3060.00	10039.37	3054.00	10019.69	Banff - *shale*	-27.29	0.36
Kotaneelee YT I-48	3072.00	10078.74	3066.00	10059.06	Banff - *shale*	-27.14	0.40
Kotaneelee YT I-48	3078.00	10098.43	3072.00	10078.74	Banff - *shale*	-27.64	0.79
Kotaneelee YT I-48	3084.00	10118.11	3078.00	10098.43	Banff - *shale*	-27.91	1.06
Kotaneelee YT I-48	3090.00	10137.80	3084.00	10118.11	Banff - *shale*	-27.87	1.19
Kotaneelee YT I-48	3099.00	10167.32	3093.00	10147.64	Banff - *shale*	-28.05	1.39
Kotaneelee YT I-48	3108.00	10196.85	3102.00	10177.17	Banff - *carbonate*	-27.78	0.79
Kotaneelee YT I-48	3117.00	10226.38	3111.00	10206.69	Banff - *carbonate*	-27.71	0.44
Kotaneelee YT I-48	3126.00	10255.91	3120.00	10236.22	Banff - *carbonate*	-27.70	0.40
Kotaneelee YT I-48	3135.00	10285.43	3129.00	10265.75	Banff - *carbonate*	-27.63	0.36
Kotaneelee YT I-48	3144.00	10314.96	3138.00	10295.28	Banff - *carbonate*	-27.70	0.45
Kotaneelee YT I-48	3147.00	10324.80	3141.00	10305.12	Banff - *carbonate*	-27.21	0.40
Kotaneelee YT I-48	3150.00	10334.65	3144.00	10314.96	Banff - *carbonate*	-27.70	0.43
Kotaneelee YT I-48	3153.00	10344.49	3147.00	10324.80	Banff - *carbonate*	-27.84	0.38
Kotaneelee YT I-48	3156.00	10354.33	3150.00	10334.65	Banff - *carbonate*	-27.63	0.36
Kotaneelee YT I-48	3159.00	10364.17	3153.00	10344.49	Banff - *carbonate*	-27.70	0.34
Kotaneelee YT I-48	3162.00	10374.02	3156.00	10354.33	Exshaw	-28.35	1.24
Kotaneelee YT I-48	3165.00	10383.86	3159.00	10364.17	Exshaw	-27.22	0.71
Kotaneelee YT I-48	3168.00	10393.70	3162.00	10374.02	Exshaw	-27.66	0.77
Kotaneelee YT I-48	3171.00	10403.54	3165.00	10383.86	Exshaw	-27.65	0.85
Kotaneelee YT I-48	3174.00	10413.39	3168.00	10393.70	Exshaw	-28.02	1.13
Kotaneelee YT I-48	3177.00	10423.23	3171.00	10403.54	Exshaw	-27.96	1.05
Kotaneelee YT I-48	3180.00	10433.07	3174.00	10413.39	Exshaw	-28.14	1.44
Kotaneelee YT I-48	3183.00	10442.91	3177.00	10423.23	Exshaw	-28.03	1.52
Kotaneelee YT I-48	3186.00	10452.76	3180.00	10433.07	Exshaw	-28.07	1.66
Kotaneelee YT I-48	3189.00	10462.60	3183.00	10442.91	Exshaw	-28.11	1.78
Kotaneelee YT I-48	3192.00	10472.44	3186.00	10452.76	Exshaw	-28.10	1.84
Kotaneelee YT I-48	3195.00	10482.28	3189.00	10462.60	Exshaw	-28.08	1.76
Kotaneelee YT I-48	3198.00	10492.13	3192.00	10472.44	Exshaw	-28.03	1.83
Kotaneelee YT I-48	3201.00	10501.97	3195.00	10482.28	Exshaw	-28.07	1.71

APPENDIX E $\delta^{13}C_{org}$ isotope data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	$\delta^{13}C_{org}$ (‰)	TOC (%)
Kotaneelee YT I-48	3204.00	10511.81	3198.00	10492.13	Exshaw	-28.36	1.92
Kotaneelee YT I-48	3207.00	10521.65	3201.00	10501.97	Exshaw	-27.40	0.96
Kotaneelee YT I-48	3210.00	10531.50	3204.00	10511.81	Exshaw	-28.11	1.30
Kotaneelee YT I-48	3213.00	10541.34	3207.00	10521.65	Exshaw	-27.86	1.11
Kotaneelee YT I-48	3216.00	10551.18	3210.00	10531.50	Exshaw	-28.35	1.43
Kotaneelee YT I-48	3219.00	10561.02	3213.00	10541.34	Exshaw	-28.55	1.88
Kotaneelee YT I-48	3222.00	10570.87	3216.00	10551.18	Exshaw	-28.75	2.64
Kotaneelee YT I-48	3225.00	10580.71	3219.00	10561.02	Exshaw	-28.77	2.67
Kotaneelee YT I-48	3228.00	10590.55	3222.00	10570.87	Exshaw	-28.64	3.01
Kotaneelee YT I-48	3231.00	10600.39	3225.00	10580.71	Exshaw	-28.58	2.93
Kotaneelee YT I-48	3234.00	10610.24	3228.00	10590.55	Exshaw	-28.69	3.01
Kotaneelee YT I-48	3237.00	10620.08	3231.00	10600.39	Exshaw	-28.80	2.81
Kotaneelee YT I-48	3240.00	10629.92	3234.00	10610.24	Exshaw	-29.09	3.02
Kotaneelee YT I-48	3243.00	10639.76	3237.00	10620.08	Exshaw	-28.95	3.20
Kotaneelee YT I-48	3246.00	10649.61	3240.00	10629.92	Exshaw	-29.01	3.90
Kotaneelee YT I-48	3249.00	10659.45	3243.00	10639.76	Exshaw	-29.02	3.83
Kotaneelee YT I-48	3252.00	10669.29	3246.00	10649.61	Exshaw	-28.97	3.71
Kotaneelee YT I-48	3255.00	10679.13	3249.00	10659.45	Exshaw	-28.92	3.68
Kotaneelee YT I-48	3258.00	10688.98	3252.00	10669.29	Exshaw	-28.40	4.07
Kotaneelee YT I-48	3261.00	10698.82	3255.00	10679.13	Exshaw	-27.90	4.37
Kotaneelee YT I-48	3264.00	10708.66	3258.00	10688.98	Exshaw	-27.78	4.38
Kotaneelee YT I-48	3267.00	10718.50	3261.00	10698.82	Exshaw	-28.03	4.75
Kotaneelee YT I-48	3270.00	10728.35	3264.00	10708.66	Exshaw	-27.92	4.85
Kotaneelee YT I-48	3273.00	10738.19	3267.00	10718.50	Patry	-28.61	4.74
Kotaneelee YT I-48	3276.00	10748.03	3270.00	10728.35	Patry	-28.62	4.59
Kotaneelee YT I-48	3279.00	10757.87	3273.00	10738.19	Patry	-28.59	4.60
Kotaneelee YT I-48	3282.00	10767.72	3276.00	10748.03	Patry	-28.62	4.24
Kotaneelee YT I-48	3285.00	10777.56	3279.00	10757.87	Patry	-28.60	4.38
Kotaneelee YT I-48	3288.00	10787.40	3282.00	10767.72	Patry	-28.61	4.55
Kotaneelee YT I-48	3291.00	10797.24	3285.00	10777.56	Patry	-28.53	4.64
Kotaneelee YT I-48	3294.00	10807.09	3288.00	10787.40	Patry	-28.47	4.55
Kotaneelee YT I-48	3297.00	10816.93	3291.00	10797.24	Patry	-28.53	3.94
Kotaneelee YT I-48	3300.00	10826.77	3294.00	10807.09	Patry	-28.53	3.98
Kotaneelee YT I-48	3303.00	10836.61	3297.00	10816.93	Patry	-28.42	4.46
Kotaneelee YT I-48	3306.00	10846.46	3300.00	10826.77	Patry	-28.34	3.83
Kotaneelee YT I-48	3309.00	10856.30	3303.00	10836.61	Patry	-28.31	3.89
Kotaneelee YT I-48	3312.00	10866.14	3306.00	10846.46	Patry	-28.19	3.55
Kotaneelee YT I-48	3315.00	10875.98	3309.00	10856.30	Patry	-28.08	4.13
Kotaneelee YT I-48	3318.00	10885.83	3312.00	10866.14	Patry	-28.13	4.20

APPENDIX E $\delta^{13}C_{org}$ isotope data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	$\delta^{13}C_{org}$ (‰)	TOC (%)
Kotaneelee YT I-48	3324.00	10905.51	3318.00	10885.83	Patry	-28.37	3.06
Kotaneelee YT I-48	3327.00	10915.35	3321.00	10895.67	Patry	-28.54	3.53
Kotaneelee YT I-48	3330.00	10925.20	3324.00	10905.51	Patry	-28.84	3.08
Kotaneelee YT I-48	3333.00	10935.04	3327.00	10915.35	Patry	-28.74	3.25
Kotaneelee YT I-48	3336.00	10944.88	3330.00	10925.20	Fort Simpson - *upper*	-28.75	2.48
Kotaneelee YT I-48	3339.00	10954.72	3333.00	10935.04	Fort Simpson - *upper*	-28.62	0.95
Kotaneelee YT I-48	3342.00	10964.57	3336.00	10944.88	Fort Simpson - *upper*	-28.45	0.17
Kotaneelee YT I-48	3345.00	10974.41	3339.00	10954.72	Fort Simpson - *upper*	-28.55	0.87
Kotaneelee YT I-48	3348.00	10984.25	3342.00	10964.57	Fort Simpson - *upper*	-28.31	0.59
Kotaneelee YT I-48	3351.00	10994.09	3345.00	10974.41	Fort Simpson - *upper*	-27.70	0.34
Kotaneelee YT I-48	3354.00	11003.94	3348.00	10984.25	Fort Simpson - *upper*	-27.83	0.40
Kotaneelee YT I-48	3357.00	11013.78	3351.00	10994.09	Fort Simpson - *upper*	-26.73	1.25
Kotaneelee YT I-48	3360.00	11023.62	3354.00	11003.94	Fort Simpson - *upper*	-28.82	0.85
Kotaneelee YT I-48	3363.00	11033.46	3357.00	11013.78	Fort Simpson - *upper*	-29.29	0.82
Kotaneelee YT I-48	3366.00	11043.31	3360.00	11023.62	Fort Simpson - *upper*	-28.77	1.34
Kotaneelee YT I-48	3369.00	11053.15	3363.00	11033.46	Fort Simpson - *upper*	-29.45	1.04
Kotaneelee YT I-48	3372.00	11062.99	3366.00	11043.31	Fort Simpson - *upper*	-29.21	1.10
Kotaneelee YT I-48	3375.00	11072.84	3369.00	11053.15	Fort Simpson - *upper*	-29.63	1.17
Kotaneelee YT I-48	3378.00	11082.68	3372.00	11062.99	Fort Simpson - *upper*	-29.87	1.27
Kotaneelee YT I-48	3381.00	11092.52	3375.00	11072.84	Fort Simpson - *upper*	-29.84	1.30
Kotaneelee YT I-48	3384.00	11102.36	3378.00	11082.68	Fort Simpson - *upper*	-29.98	1.44
Kotaneelee YT I-48	3387.00	11112.21	3381.00	11092.52	Fort Simpson - *upper*	-29.97	1.53
Kotaneelee YT I-48	3390.00	11122.05	3384.00	11102.36	Fort Simpson - *upper*	-29.92	1.62
Kotaneelee YT I-48	3393.00	11131.89	3387.00	11112.21	Fort Simpson - *upper*	-29.79	1.75
Kotaneelee YT I-48	3396.00	11141.73	3390.00	11122.05	Fort Simpson - *upper*	-29.78	1.73
Kotaneelee YT I-48	3408.00	11181.10	3402.00	11161.42	Fort Simpson - *middle*	-29.40	2.10
Kotaneelee YT I-48	3411.00	11190.95	3405.00	11171.26	Fort Simpson - *middle*	-29.34	2.65
Kotaneelee YT I-48	3414.00	11200.79	3408.00	11181.10	Fort Simpson - *middle*	-29.29	2.64
Kotaneelee YT I-48	3417.00	11210.63	3411.00	11190.95	Fort Simpson - *middle*	-29.47	3.30
Kotaneelee YT I-48	3420.00	11220.47	3414.00	11200.79	Fort Simpson - *middle*	-29.52	3.24
Kotaneelee YT I-48	3423.00	11230.32	3417.00	11210.63	Fort Simpson - *middle*	-29.72	3.10
Kotaneelee YT I-48	3426.00	11240.16	3420.00	11220.47	Fort Simpson - *middle*	-29.66	3.18
Kotaneelee YT I-48	3429.00	11250.00	3423.00	11230.32	Fort Simpson - *middle*	-29.69	3.12
Kotaneelee YT I-48	3432.00	11259.84	3426.00	11240.16	Fort Simpson - *middle*	-29.58	3.32
Kotaneelee YT I-48	3435.00	11269.69	3429.00	11250.00	Fort Simpson - *middle*	-29.51	3.21
Kotaneelee YT I-48	3438.00	11279.53	3432.00	11259.84	Fort Simpson - *middle*	-29.31	3.07
Kotaneelee YT I-48	3441.00	11289.37	3435.00	11269.69	Fort Simpson - *middle*	-29.49	2.97
Kotaneelee YT I-48	3444.00	11299.21	3438.00	11279.53	Fort Simpson - *middle*	-29.56	2.79
Kotaneelee YT I-48	3447.00	11309.06	3441.00	11289.37	Fort Simpson - *middle*	-29.39	2.72

APPENDIX E $\delta^{13}C_{org}$ isotope data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	$\delta^{13}C_{org}$ (‰)	TOC (%)
Kotaneelee YT I-48	3450.00	11318.90	3444.00	11299.21	Fort Simpson - *middle*	-29.29	2.89
Kotaneelee YT I-48	3453.00	11328.74	3447.00	11309.06	Fort Simpson - *middle*	-29.58	2.35
Kotaneelee YT I-48	3456.00	11338.58	3450.00	11318.90	Fort Simpson - *middle*	-29.64	2.29
Kotaneelee YT I-48	3459.00	11348.43	3453.00	11328.74	Fort Simpson - *middle*	-29.66	2.37
Kotaneelee YT I-48	3462.00	11358.27	3456.00	11338.58	Fort Simpson - *middle*	-29.57	2.48
Kotaneelee YT I-48	3465.00	11368.11	3459.00	11348.43	Fort Simpson - *middle*	-29.53	2.64
Kotaneelee YT I-48	3468.00	11377.95	3462.00	11358.27	Fort Simpson - *lower*	-29.59	2.44
Kotaneelee YT I-48	3471.00	11387.80	3465.00	11368.11	Fort Simpson - *lower*	-29.53	2.39
Kotaneelee YT I-48	3474.00	11397.64	3468.00	11377.95	Fort Simpson - *lower*	-29.53	2.03
Kotaneelee YT I-48	3477.00	11407.48	3471.00	11387.80	Fort Simpson - *lower*	-29.56	2.05
Kotaneelee YT I-48	3480.00	11417.32	3474.00	11397.64	Fort Simpson - *lower*	-29.65	1.73
Kotaneelee YT I-48	3483.00	11427.17	3477.00	11407.48	Fort Simpson - *lower*	-29.51	1.42
Kotaneelee YT I-48	3486.00	11437.01	3480.00	11417.32	Fort Simpson - *lower*	-29.27	0.74
Kotaneelee YT I-48	3489.00	11446.85	3483.00	11427.17	Fort Simpson - *lower*	-29.19	0.55
Kotaneelee YT I-48	3492.00	11456.69	3486.00	11437.01	Fort Simpson - *lower*	-29.18	0.64
Kotaneelee YT I-48	3495.00	11466.54	3489.00	11446.85	Fort Simpson - *lower*	-29.36	0.68
Kotaneelee YT I-48	3498.00	11476.38	3492.00	11456.69	Fort Simpson - *lower*	-29.25	0.54
Kotaneelee YT I-48	3501.00	11486.22	3495.00	11466.54	Fort Simpson - *lower*	-29.09	0.59
Kotaneelee YT I-48	3504.00	11496.06	3498.00	11476.38	Fort Simpson - *lower*	-28.26	0.76
Kotaneelee YT I-48	3507.00	11505.91	3501.00	11486.22	Fort Simpson - *lower*	-29.23	0.61
Kotaneelee YT I-48	3510.00	11515.75	3504.00	11496.06	Fort Simpson - *lower*	-28.88	0.71
Kotaneelee YT I-48	3513.00	11525.59	3507.00	11505.91	Fort Simpson - *lower*	-29.06	0.51
Kotaneelee YT I-48	3516.00	11535.43	3510.00	11515.75	Fort Simpson - *lower*	-28.96	0.36
Kotaneelee YT I-48	3519.00	11545.28	3513.00	11525.59	Fort Simpson - *lower*	-28.97	0.39
Kotaneelee YT I-48	3522.00	11555.12	3516.00	11535.43	Fort Simpson - *lower*	-29.10	0.86
Kotaneelee YT I-48	3525.00	11564.96	3519.00	11545.28	Fort Simpson - *lower*	-28.99	0.75
Kotaneelee YT I-48	3528.00	11574.80	3522.00	11555.12	Fort Simpson - *lower*	-29.28	0.67
Kotaneelee YT I-48	3531.00	11584.65	3525.00	11564.96	Fort Simpson - *lower*	-29.25	0.63
Kotaneelee YT I-48	3534.00	11594.49	3528.00	11574.80	Fort Simpson - *lower*	-29.36	0.60
Kotaneelee YT I-48	3540.00	11614.17	3534.00	11594.49	Fort Simpson - *lower*	-29.44	0.62
Kotaneelee YT I-48	3543.00	11624.02	3537.00	11604.33	Fort Simpson - *lower*	-29.44	0.61
Kotaneelee YT I-48	3549.00	11643.70	3541.00	11617.45	Fort Simpson - *lower*	-29.10	0.57
Kotaneelee YT I-48	3552.00	11653.54	3544.00	11627.30	Fort Simpson - *lower*	-28.98	0.93
Kotaneelee YT I-48	3555.00	11663.39	3547.00	11637.14	Fort Simpson - *lower*	-28.88	1.25
Kotaneelee YT I-48	3558.00	11673.23	3550.00	11646.98	Muskwa	-29.39	1.46
Kotaneelee YT I-48	3561.00	11683.07	3553.00	11656.82	Muskwa	-29.43	4.72
Kotaneelee YT I-48	3564.00	11692.91	3556.00	11666.67	Muskwa	-29.42	4.31
Kotaneelee YT I-48	3567.00	11702.76	3559.00	11676.51	Muskwa	-29.27	3.96
Kotaneelee YT I-48	3570.00	11712.60	3562.00	11686.35	Muskwa	-28.95	4.51

APPENDIX E $\delta^{13}C_{org}$ isotope data

Well/section ID	Depth (mMD)	Depth (ftMD)	Shift (mMD)	Shift (ftMD)	Stratigraphy	$\delta^{13}C_{org}$ (‰)	TOC (%)
Kotaneelee YT I-48	3573.00	11722.44	3565.00	11696.19	Muskwa	-28.90	4.34
Kotaneelee YT I-48	3576.00	11732.28	3568.00	11706.04	Otter Park	-28.84	3.84
Kotaneelee YT I-48	3579.00	11742.13	3571.00	11715.88	Otter Park	-28.77	3.22
Kotaneelee YT I-48	3582.00	11751.97	3574.00	11725.72	Otter Park	-29.22	3.13
Kotaneelee YT I-48	3588.00	11771.65	3580.00	11745.41	Otter Park	-29.24	2.59
Kotaneelee YT I-48	3594.00	11791.34	3586.00	11765.09	Otter Park	-29.11	2.67
Kotaneelee YT I-48	3597.00	11801.18	3589.00	11774.93	Otter Park	-29.08	2.70
Kotaneelee YT I-48	3600.00	11811.02	3592.00	11784.78	Otter Park	-29.01	2.83
Kotaneelee YT I-48	3606.00	11830.71	3598.00	11804.46	Otter Park	-29.01	2.15
Kotaneelee YT I-48	3609.00	11840.55	3601.00	11814.30	Otter Park	-29.17	2.28
Kotaneelee YT I-48	3612.00	11850.39	3604.00	11824.15	Otter Park	-29.06	3.89
Kotaneelee YT I-48	3615.00	11860.24	3607.00	11833.99	Otter Park	-29.01	3.92
Kotaneelee YT I-48	3618.00	11870.08	3610.00	11843.83	Otter Park	-28.91	4.30
Kotaneelee YT I-48	3621.00	11879.92	3613.00	11853.67	Evie	-29.67	3.93
Kotaneelee YT I-48	3627.00	11899.61	3619.00	11873.36	Evie	-29.43	3.16
Kotaneelee YT I-48	3630.00	11909.45	3622.00	11883.20	Evie	-28.78	3.47
Kotaneelee YT I-48	3633.00	11919.29	3625.00	11893.05	Evie	-29.76	3.28
Kotaneelee YT I-48	3636.00	11929.13	3628.00	11902.89	Evie	-29.64	3.56
Kotaneelee YT I-48	3639.00	11938.98	3631.00	11912.73	Evie	-29.63	3.39
Kotaneelee YT I-48	3642.00	11948.82	3634.00	11922.57	Evie	-29.53	3.34
Kotaneelee YT I-48	3651.00	11978.35	3643.00	11952.10	Evie	-29.51	3.16
Kotaneelee YT I-48	3654.00	11988.19	3646.00	11961.94	Evie	-29.31	4.48
Kotaneelee YT I-48	3657.00	11998.03	3649.00	11971.79	Nahanni	-29.25	2.68
Kotaneelee YT I-48	3660.00	12007.87	3652.00	11981.63	Nahanni	-28.46	1.14
Kotaneelee YT I-48	3663.00	12017.72	3655.00	11991.47	Nahanni	-28.71	2.20
Kotaneelee YT I-48	3672.00	12047.24	3664.00	12021.00	Nahanni	-28.26	1.32
Kotaneelee YT I-48	3678.00	12066.93	3670.00	12040.68	Nahanni	-28.64	0.41
Kotaneelee YT I-48	3684.00	12086.61	3676.00	12060.37	Nahanni	-28.88	0.33

Notes:
Stratigraphy highlighted in blue is that assessed by the NEB (2016) for unconventional resources

APPENDIX F Porosity data

WELL ID	STRATIGRAPHY	DEPTH (mMD)	RHOB (g/cc)	GRAIN DENSITY (g/cc)	CONF. CORR. POROSITY (%)	PEAK RANGE (nm)	MODAL PEAK (nm)	STEM VOLUME (%)
Kotaneelee YT I-48	Exshaw	3225.00	2.39	2.49	3.59	<3 - 1400	38	8
Beaver YT G-01		3608.83	2.41	2.48	2.86	<3 - 1600	3 & 38	6
North Beaver River YT I-27	Muskwa	3621.02	2.42	2.48	1.94	4 - 1700	10	4
Beaver YT G-01		3959.35	2.48	2.52	1.39	8 - 1800	9	3
Beaver YT G-01	Otter Park	4041.65	2.45	2.51	1.93	5 - 1800	38	4
Beaver YT G-01	Evie	4099.56	2.63	2.67	1.40	1918.00	38	3

WELL & SAMPLE ID		STRATIGRAPHY	DEPTH (mMD)	PSD σe/σT (MPa)	PSD GAS PRESSURE (MPa)	PSD (TOTAL) POROSITY (%)	STANDARD DEVIATION	PORE VOLUME (cc)	PORE VOLUME COMPRESSIBILITY(MPa^{-1})
Kotaneelee YT E-37	**T1**	Patry	3478.68	10.30 / 10.51	0.22	6.04	0.21	1.44	0.019
				25.85 / 26.20	0.35	4.62	0.11	1.10	
				43.09 / 43.44	0.35	3.26	0.21	0.78	
	T2		3481.88	10.18 / 10.51	0.33	4.86	0.22	0.51	0.015
				25.79 / 26.20	0.41	3.75	0.32	0.40	
				43.11 / 43.44	0.32	2.99	0.18	0.32	
	T3		3485.01	10.20 / 10.51	0.32	4.99	0.20	0.24	0.003
				25.93 / 26.20	0.27	4.78	0.23	0.23	
				43.16 / 43.44	0.28	4.58	0.16	0.22	
	T4	Evie	3880.10	11.44 / 11.72	0.28	1.40	0.15	0.15	0.016
				28.81 / 29.13	0.32	0.07	0.07	0.10	
				48.29 / 48.61	0.32	0.05	0.05	0.08	
	T5		3883.30	11.44 / 11.72	0.28	1.71	0.02	0.18	0.071
				28.81 / 29.13	0.32	0.50*	-	0.05	
				48.29 / 48.61	0.32	0.12	0.00	0.01	