

**Summary Report on the Michel Head Property –
2013 Exploration Program**

Michel Creek Coking Coal Project



5,486,500N and 665,000E (UTM NAD 83)

CanAus Coal Ltd.

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Moose Mountain Technical Services

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BC Geological Survey
Coal Assessment Report
924



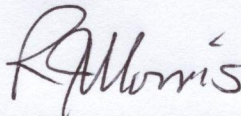
ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Geological and Drilling, Report on the Michel Head Coal Property

TOTAL COST: \$1,407,189.82

AUTHOR(S): Robert J. Morris, M.Sc., P.Geo. and Jaclyn Galbraith, B.Sc.

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): Mines Act Permit CX-5-018, Approval #13-1630658-0625, issued June 25, 2013

YEAR OF WORK: 2013

PROPERTY NAME: Michel Creek Coking Coal Project, Michel Head Property

CLAIM NAME(S) (on which work was done): Coal Licence #418317

COMMODITIES SOUGHT: Coal

MINING DIVISION: FORT STEELE

NTS / BCGS: 82G/10E and 7E

LATITUDE: 49° 30' 30" N

LONGITUDE: 115° 46' 45" W (at centre of work)

UTM Zone: 11 **EASTING:** 665,000m **NORTHING:** 5,486,500m

OWNER(S): CanAus Coal Limited

MAILING ADDRESS: #5000 Hwy 43, Sparwood, BC V0B 2G1

OPERATOR(S) [who paid for the work]: CanAus Coal Limited

REPORT KEYWORDS: Jurassic/Cretaceous, Mist Mountain Formation, Coal

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

Part of Section 2, part of Section 5, Section 6, and Appendix D remain confidential under the terms of the Coal Act Regulation, and have been removed from the public version.

http://www.bclaws.ca/civix/document/id/complete/statreg/251_2004

Statement of Costs

Name	Cost
ALS Coal Total	\$1,808.00
Ascent Helicopters	\$3,069.00
Birtley Coal & Minerals Testing Total	\$3,436.00
Boart Longyear Total	\$99,288.00
Borealis Environmental Consulting Total	\$3,201.99
Century Wireline Services Total	\$80,177.00
Cdn Culvert	\$9,707.00
Cdn Forest Products	\$50,000.00
Dillon Consulting Total	\$12,180.44
Elk Valley Environmental Services Total	\$23,800.10
Fiorentino Bros Contracting Ltd. Total	\$214,987.50
Keefer Ecological Services Ltd. Total	\$1,692.50
Lotic Environmental Total	\$820.00
Moose Mtn Technical Services Total	\$307,471.17
Nohels Group Total	\$40,533.68
Orbit Garant Drilling Total	\$386,573.69
Pearson & Associates Ltd Total	\$675.00
Rosenau Transport	\$1,032.00
Silenus Resources Management Inc. Total	\$103,794.54
T E R Construction Total	\$5,780.00
Tembec Total	\$26,546.15
Tipe Mountain Total	\$2,766.56
Total Resource Managment Total	\$1,837.50
Trucut Logging Ltd. Total	\$29,448.00
Grand Total	\$1,407,189.82

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1 SUMMARY

The Michel Creek Coking Coal Project is comprised of three properties held by CanAus Coal Ltd. (CanAus) in the Michel Creek area. This report describes the exploration work conducted on the most southerly property known as the Michel Head property.

The Michel Head property was geologically mapped by Kaiser Resources in 1972. No known coal exploration drilling was undertaken though one old drillhole casing was located on a ridge. The 2013 Exploration Program included 23 reverse circulation holes and two large diameter core holes on Michel Head. Samples were taken during the reverse circulation drilling which were used to map coal seam rank variability. The large diameter holes are currently being analyzed for detailed washability and coking coal characteristics. At the time of this report, laboratory testing is still ongoing, and coal quality data is being compiled. Therefore no coal quality data is included in this report.

2 INTRODUCTION AND SCOPE

The Michel Head property is located southeast of the town of Sparwood in the Michel Creek valley in the Front Ranges of the Rocky Mountains physiographic region. The property is accessed via the Crowsnest Highway (Highway 3) and Corbin Road. Logging and exploration trails are used for drilling access. Exploration in the area dates back to the late nineteenth century. In 1972 and 1973, Kaiser Resources completed exploration in the Michel Head area, including road building, geological mapping, and coal outcrop sampling. A historic resource estimate by Kaiser Resources in 1973 indicates 30.1Mt for the Michel Head property area.

The Michel Head property had not been previously drilled, so the 2013 program was designed as an “initial phase” exploration with wider spaced (125m to 570m) drilling and coal sampling. In 2013, 23 reverse circulation drillholes and two large diameter core holes were drilled on the Michel Head property. [REDACTED]

[REDACTED]

3 PROPERTY DESCRIPTION ACCESSIBILITY, CLIMATE, INFRASTRUCTURE

The approximate centre point of the Michel Head property is 5,486,500N and 665,000E (UTM NAD 83). The Michel Head property, held by CanAus, represents one coal licence, 418317 (Table 3-1). A location map shows information on the licence (Figure 3-1).

Table 3-1 Michel Head Property; Coal Licence

Coal Licence	Property Name	Approx. Area (ha)
418317	Michel Head	367

At this time there are no environmental liabilities identified on the property.



Figure 3-1 Regional Location Map

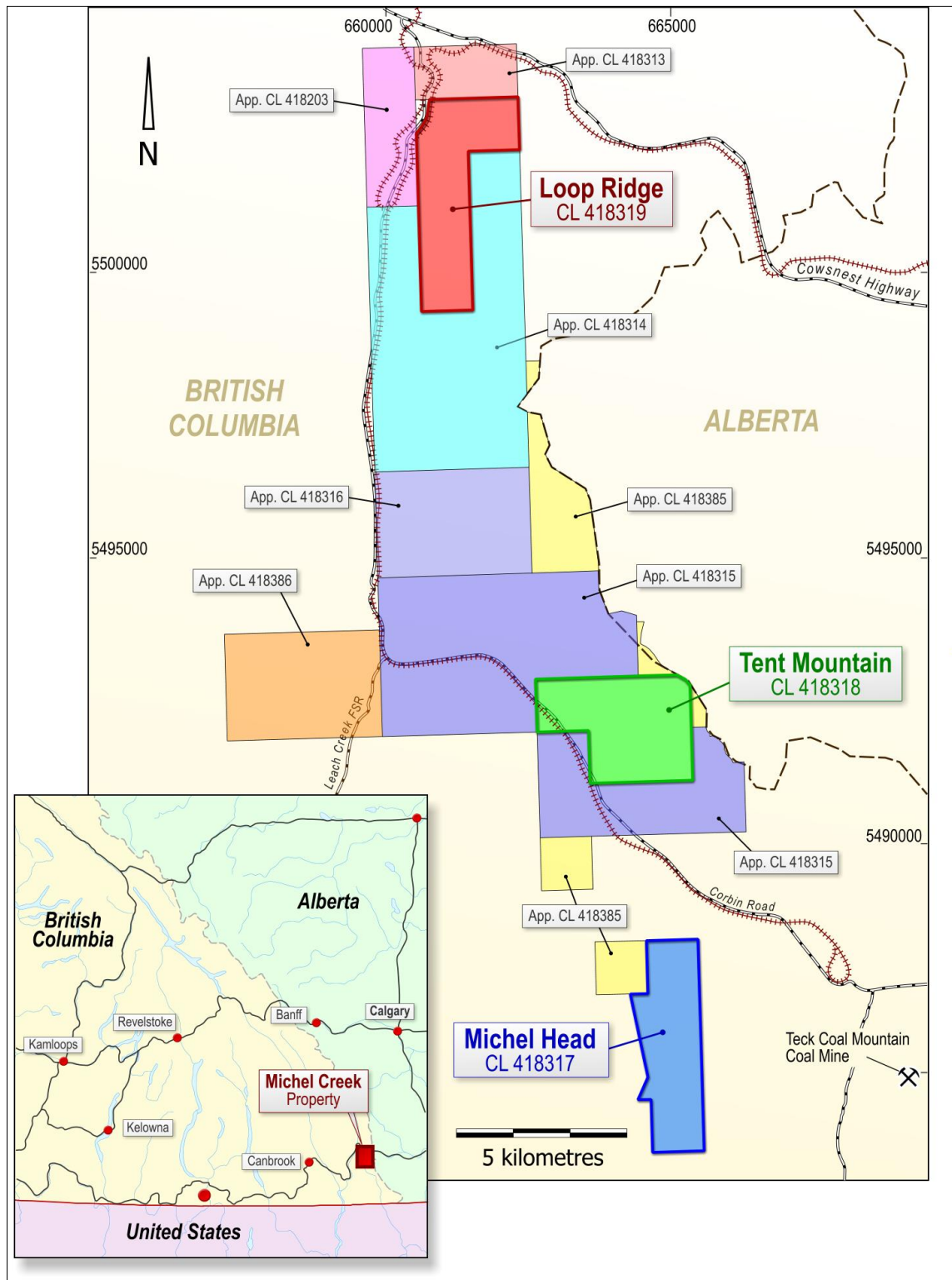


Figure 3-2 Claim Location

Primary road access to the Michel Head property is via the Crowsnest Highway (Highway 3), which is an all-weather paved major highway, connecting Sparwood with Fernie in the west and communities of the Crowsnest Pass in the east. The property is accessed by driving east from Sparwood along Highway 3 for 11km then turning south onto Corbin Road. From Corbin Road, access to the Michel Head property is a further 19km south. There is a network of old logging and exploration trails on the property that were utilized for drilling access.

The property lies adjacent to the rail infrastructure of the Canadian Pacific Railway (CP) running through the Michel Creek valley, which connects the area to the major export bulk commodity ports on the west coast of Canada. A paved landing strip is available north of Sparwood for light aircraft.

The property is situated in the northwest trending Front Ranges of the Rocky Mountains physiographic region, which is characterized by a series of steep mountains running to the northwest, incised by west flowing streams. Elevations range from ~1,400m along Michel Creek to a height of 2,300m on Michel Head. Michel Head has generally thin tree cover.

The climate is characterized by long, cold winters and short, cool to hot summers. In Sparwood, the temperature ranges from a record high of 39°C in the summer to a record low of -39.8°C in the winter, with a mean maximum in August of 23.6°C and a mean minimum in December of -11.6°C. Temperatures at the higher altitudes of the property would be slightly lower. The average amount of precipitation in Sparwood is 603mm with an equivalent of 248cm of that falling as snow.

Surface rights are held by Tembec Inc. as part of their free-hold Tent Mountain Block 21. There are no oil and gas drilling activities on the property.

Exploration in the Michel Creek area began in the late nineteenth century. The Crow's Nest Pass Coal Company began its operations in the area in 1897 and in 1908, mining at Coal Mountain, 4km east of the area. However, the first exploration documented in B.C. government assessment reports for the area was in 1971.

In 1972 Kaiser completed a program of road building, geological mapping and sampling in the area, which they called Taylor Mountain East, now called the Michel Head project area. In 1973, Kaiser continued the program to the south with the Taylor Mountain South program of road building, geological mapping and coal outcrop sampling. The 1970's work by Kaiser Resources on the Michel Head property, held by CanAus, resulted in a preliminary resource estimate for this area indicating 30.1Mt.

4 GEOLOGY

4.1 Stratigraphy

The Jurassic-Cretaceous Kootenay Group occupies part of a northwest trending belt of predominantly non-marine rocks comprising part of the Rocky Mountain Foothills and Front Ranges of southwestern Alberta and southeastern British Columbia. The Kootenay Group extends from just north of the United States border in the south to the North Saskatchewan River in the north (Gibson, 1985).

The Kootenay Group of the Rocky Mountain Foothills and Front Ranges encompasses the stratigraphic interval between the Jurassic Fernie Group below and the Lower Cretaceous Blairmore Group above (Gibson, 1985).

Three formations are recognized within the Kootenay Group, including the basal sandstone, Morrissey Formation, the coal-bearing Mist Mountain Formation, and the upper Elk Formation, Figure 4-1.

Figure 4-2 has been compiled from the drilling and interpretation of the geology to date on Michel Head. The section shows four coal seams within a section approximately 75m thick. The east Michel Creek/Mount Taylor area is somewhat anomalous in that the lower portion of the Mist Mountain Formation is dominated by up to four major sandstone horizons. Gibson, 1985, has measured a section on Mt. Taylor (west of Michel Head) which shows the Mist Mountain Formation to be just over 400m thick, but there is 190m between the top of the Fernie Group and the first important coal seam.

The drilling on Michel Head has identified a total of nine coal seams, though only four seams report as resources as some seams are too thin, while others are intermittent. The average cumulative thickness of the four main coal seams is 19m in a 70m section, with the coal representing approximately 27% of the section. Table 4-1 lists the seams, the number of intercepts as well as the minimum, maximum and mean thickness of each.

Table 4-1 Average Seam True Thickness, Michel Head Property

Seam	Intercepts	Minimum (m)	Maximum (m)	Mean (m)
10	20	0.5	21.28	6.7
10L	20	0.21	15.88	6.4
9	19	0.14	14.4	4.2
9L	11	0.01	4.13	1.6

Note: Seam thickness is net coal, excluding all rock partings and non-mineable coal (<0.6m)

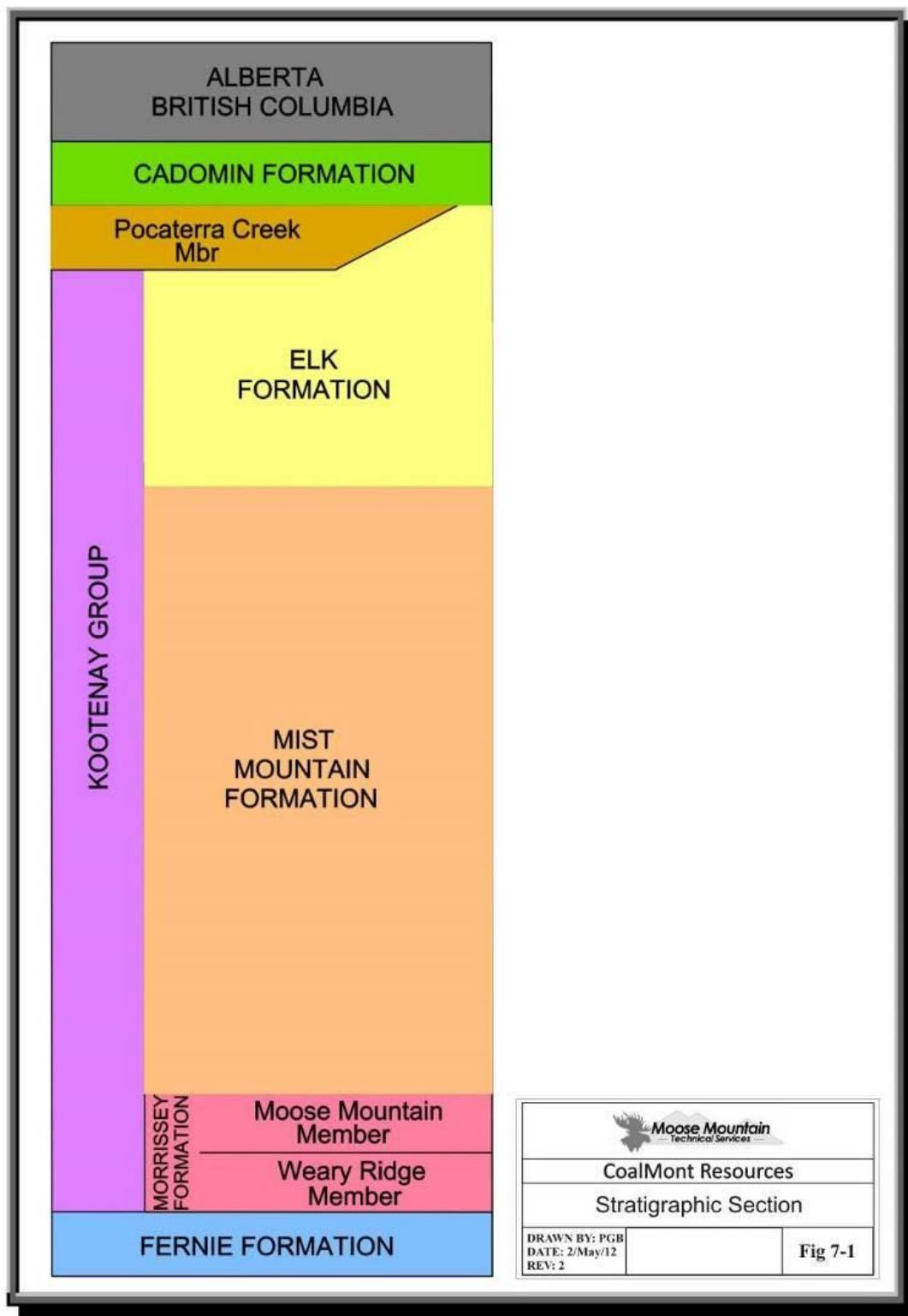


Figure 4-1 **Stratigraphic Section**

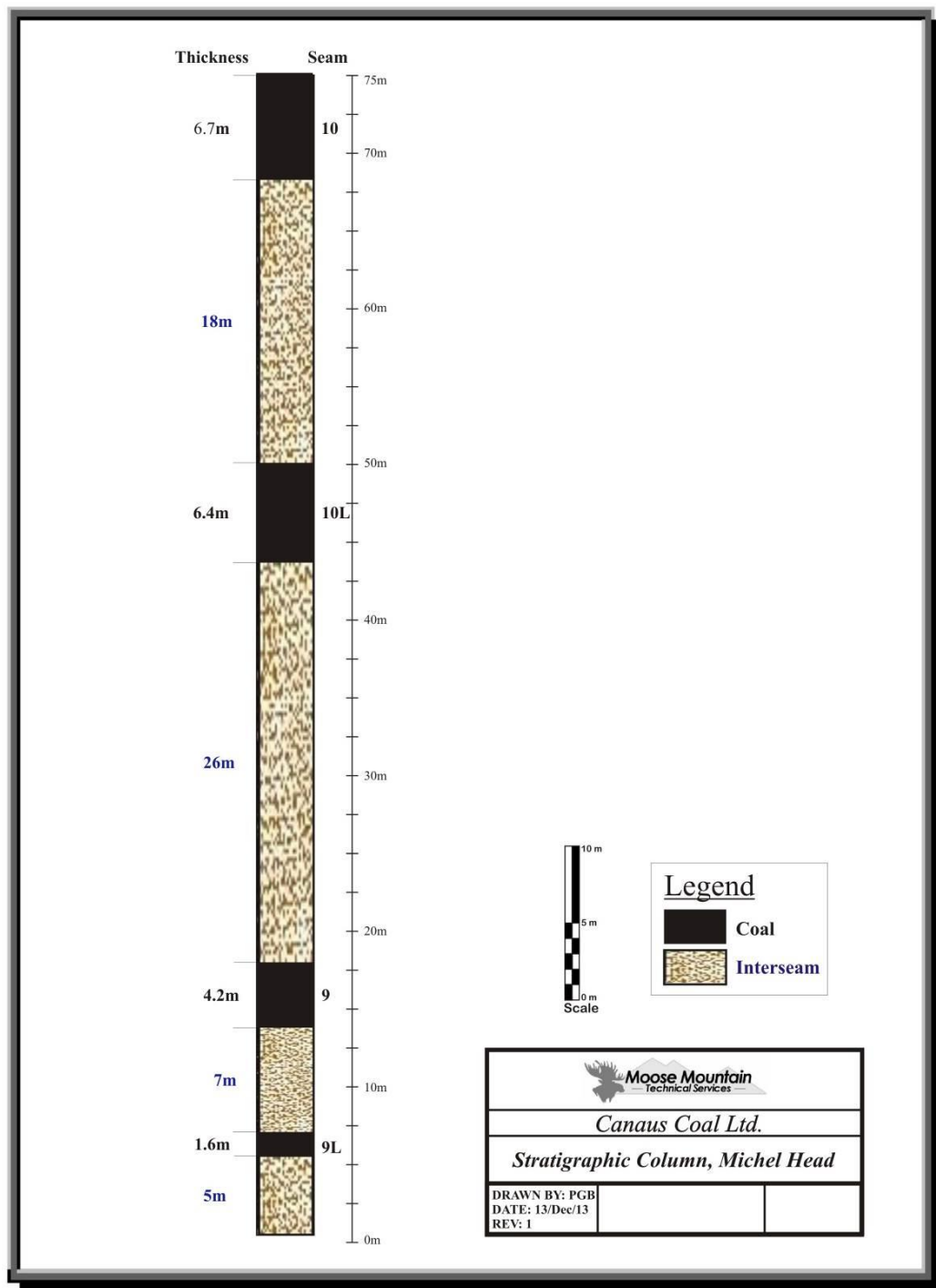


Figure 4-2 Stratigraphic Column; Michel Head Property

4.2 Structure

The East Kootenay coalfields lie in the Front Ranges of the Rocky Mountains which are characterized by north to northwest trending concentric folds and west dipping thrust faults. Tertiary normal faults, some of which are listric and probably occupy earlier thrust surfaces, are also a major feature.

The Crowsnest coalfield is a complex synclinorium in the Lewis thrust sheet. The major compressional features of the basin are the synclines linked en echelon by low-amplitude anticlines. A series of west dipping thrust faults dominate the structure of the north half of the basin. The major extensional feature is the Erickson fault system, which juxtaposes Mississippian limestone and the Kootenay Group. The fault has a minimum, west side down, displacement of 1,200m.

4.3 Resource Model Sections

This section shows the interpreted coal seams which form the basis of the resource estimate.

The following cross-sections, Figure 4-4 to Figure 4-15, show the topography profile along the section line, the drillholes, the coal seams and their interpolated thickness. Cross-section 5484950N (Figure 4-4) is at the south end of the project area, and Cross-section 5487400N (Figure 4-15) is at the north end of the resource area. The red dashed line represents the eastern boundary of the Dominion Government Block, Parcel 82. The lowest seam is 9L, thin red line, Seam 9 is the yellow line, Seam 10L is the blue line, while Seam 10 is the pink line. The 20:1 (BCM waste/tonne raw coal) pit outline is the black dotted line. Figure 4-3, next, shows the locations of the Michel Head cross-sections.

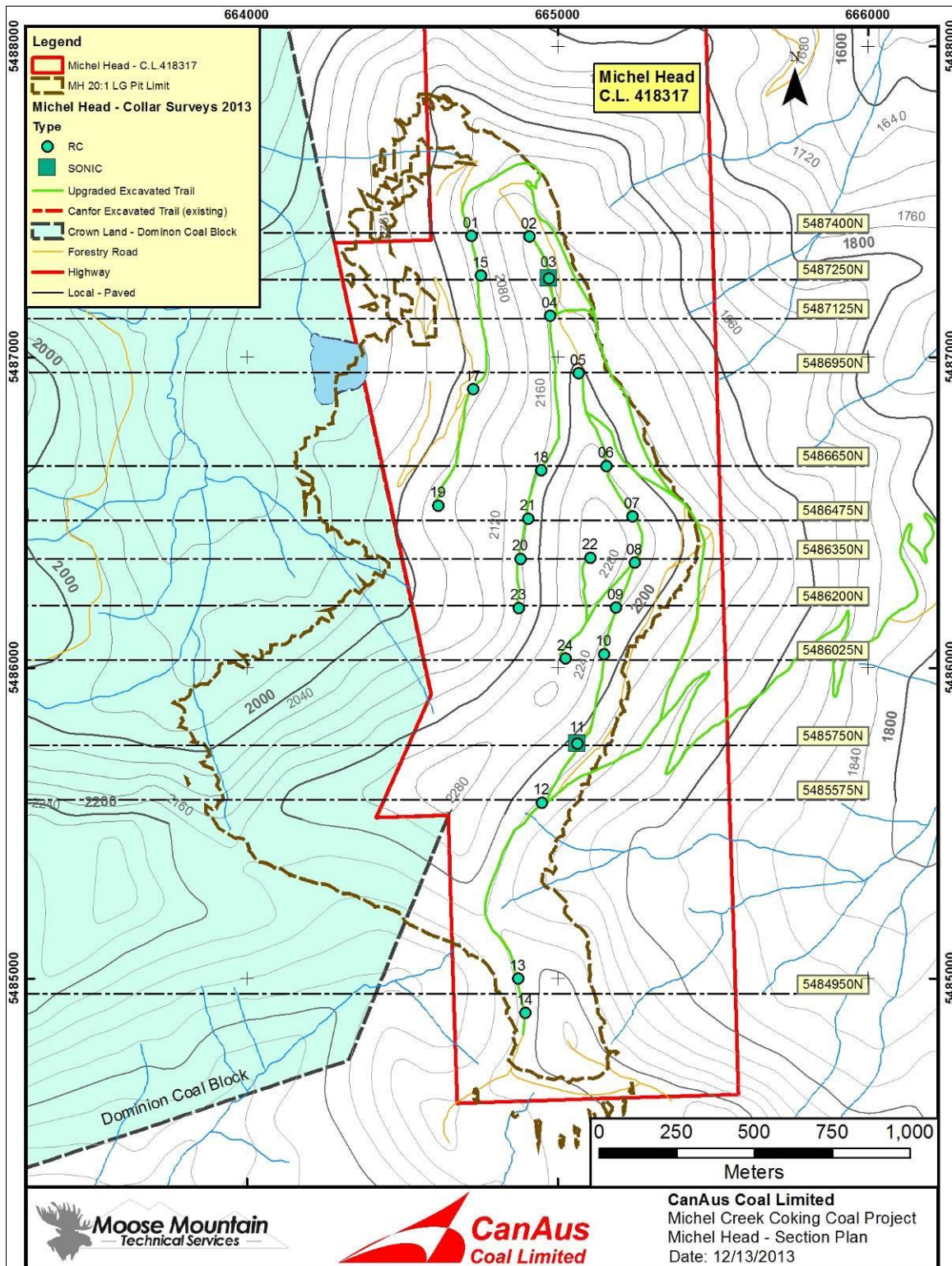


Figure 4-3 Michel Head Cross-section Location Plan

Michel Creek Coking Coal Project – Michel Head
CanAus

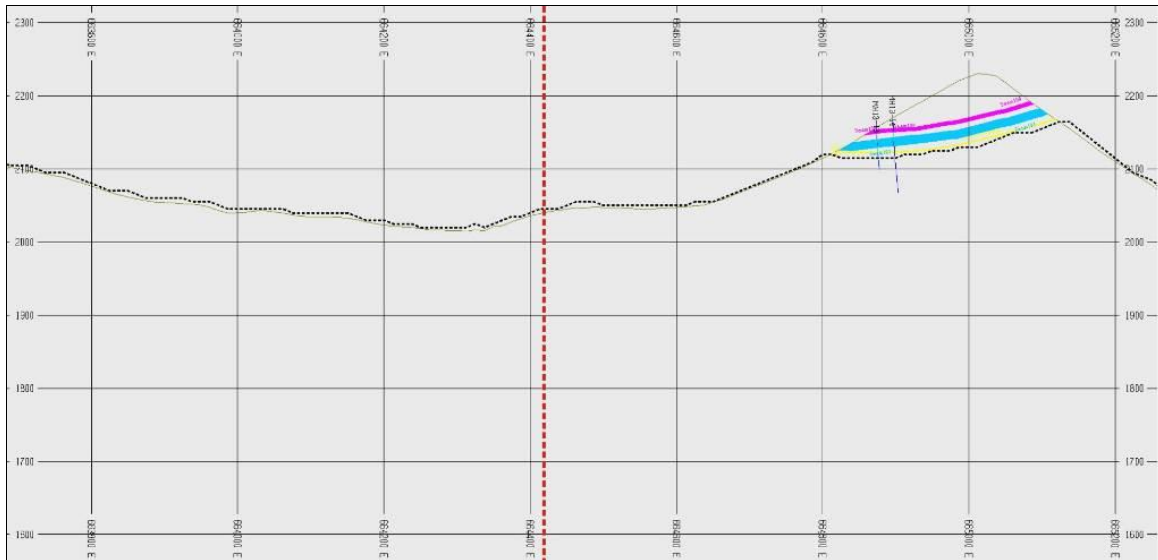


Figure 4-4 Michel Head Cross-section 5484950N

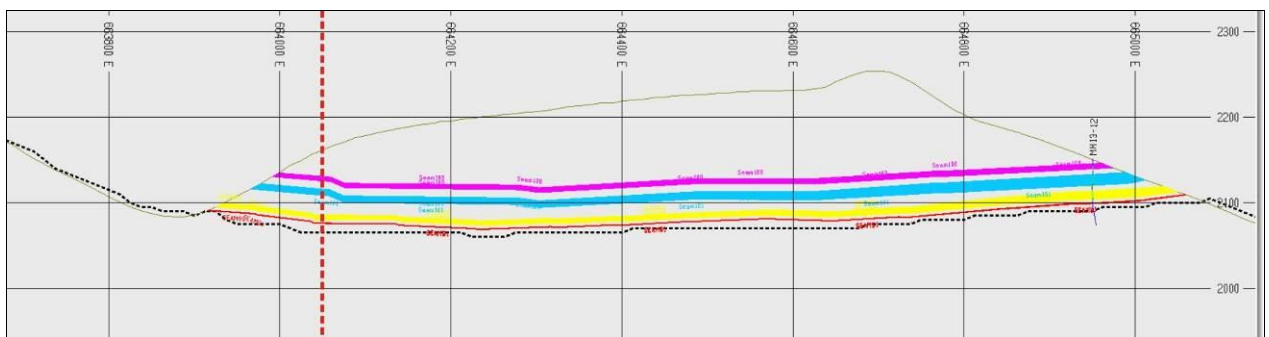


Figure 4-5 Michel Head Cross-section 5485575N

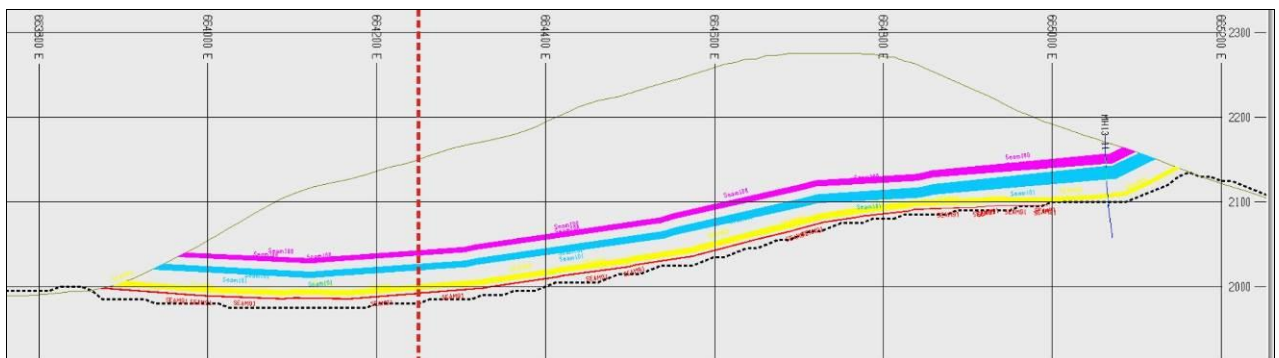


Figure 4-6 Michel Head Cross-section 5485750N

Michel Creek Coking Coal Project – Michel Head
CanAus

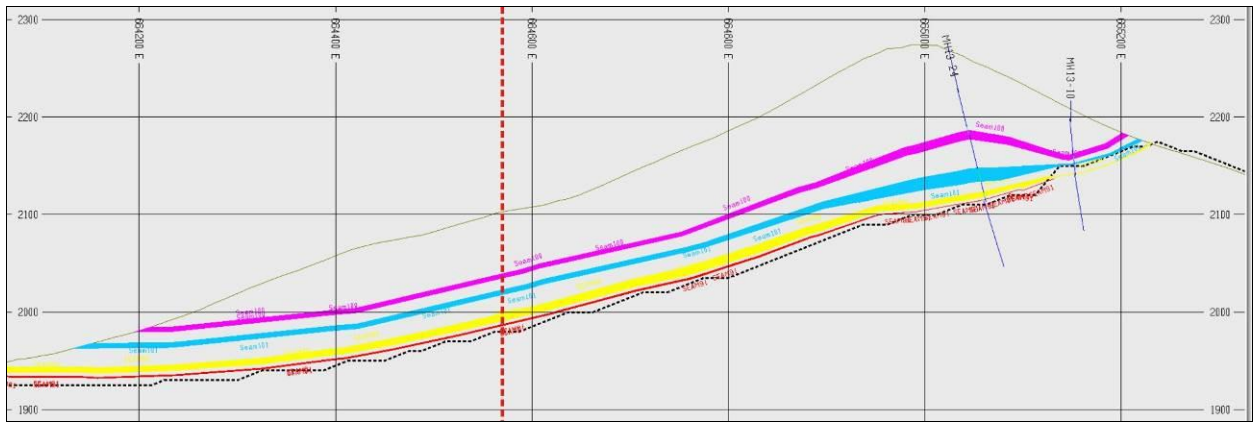


Figure 4-7 Michel Head Cross-section 5486025N

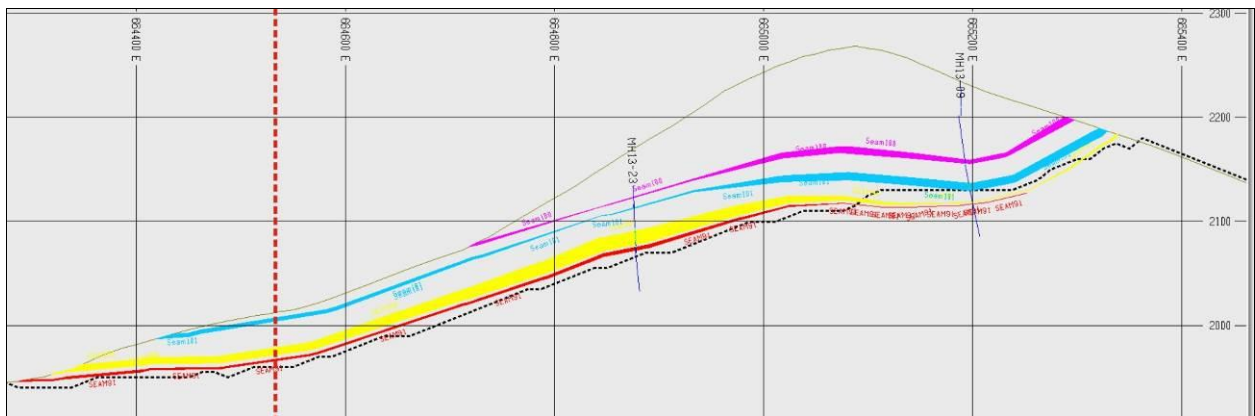


Figure 4-8 Michel Head Cross-section 5486200N

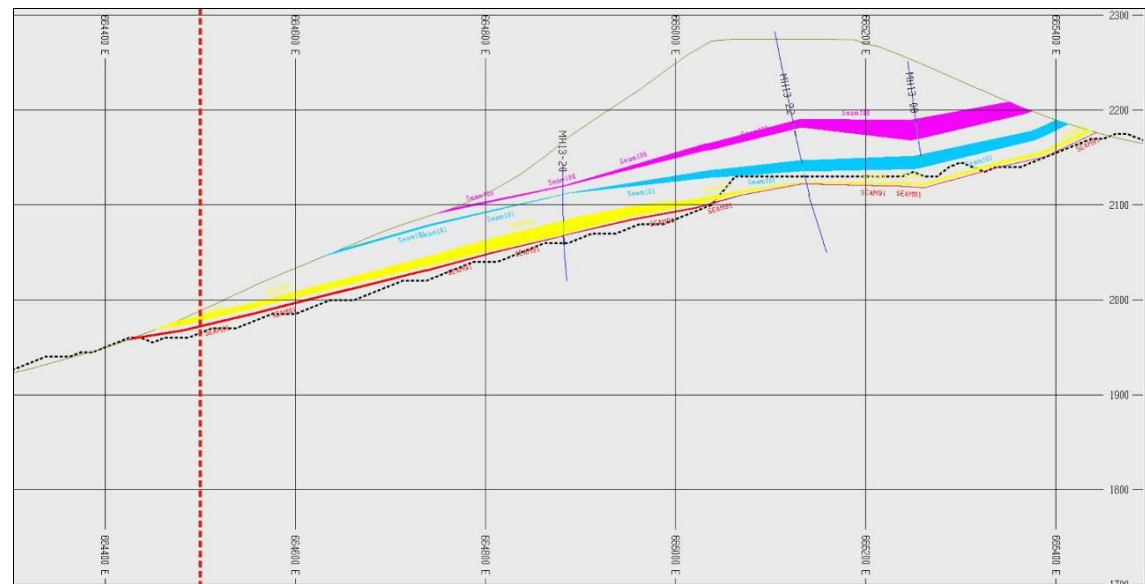


Figure 4-9 Michel Head Cross-section 5486350N

**Michel Creek Coking Coal Project – Michel Head
CanAus**

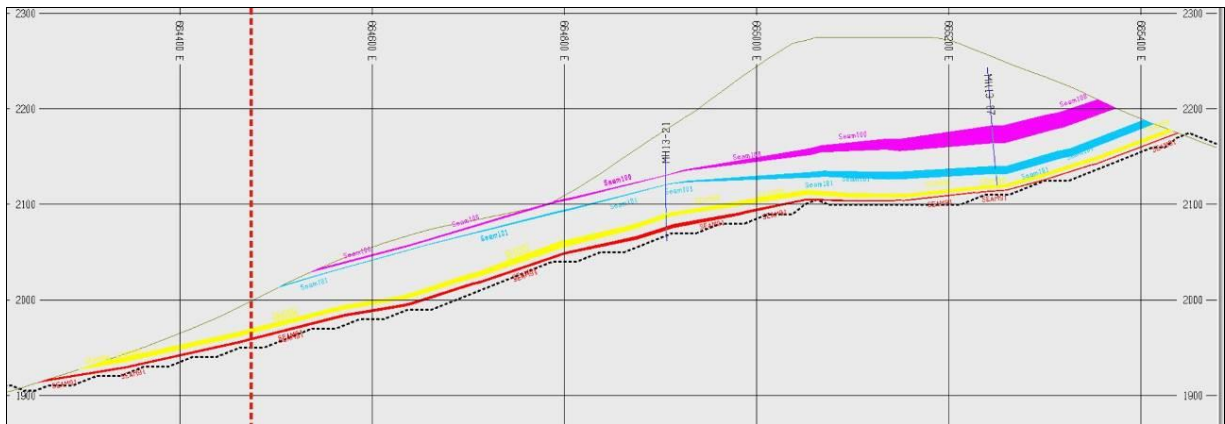


Figure 4-10 Michel Head Cross-section 5486475N

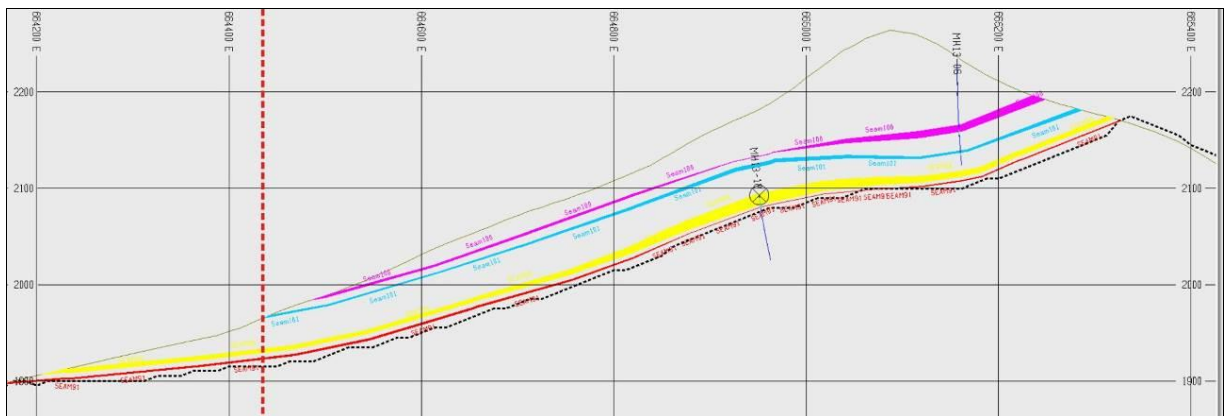


Figure 4-11 Michel Head Cross-section 5486650N

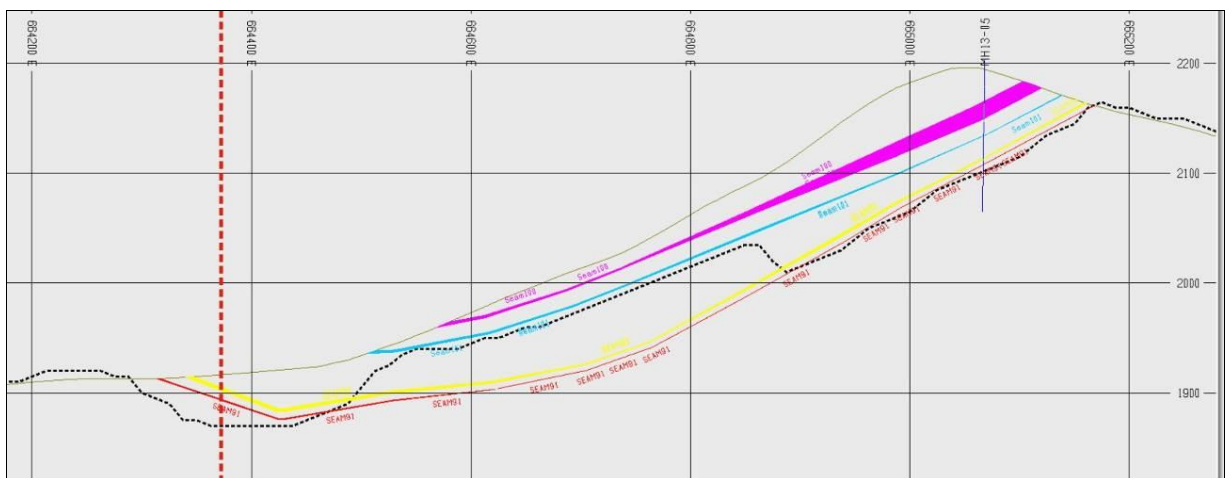


Figure 4-12 Michel Head Cross-section 5486950N

**Michel Creek Coking Coal Project – Michel Head
CanAus**

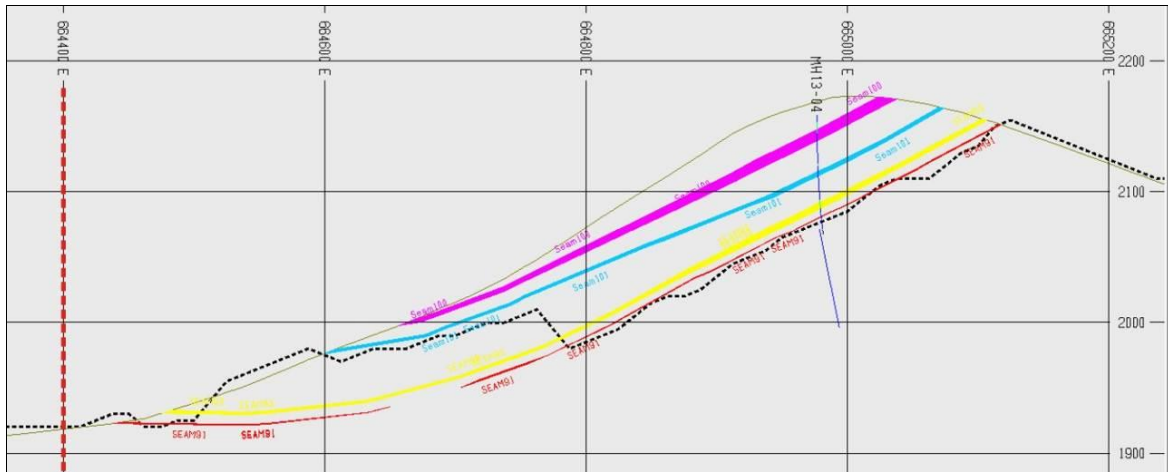


Figure 4-13 Michel Head Cross-section 5487125N

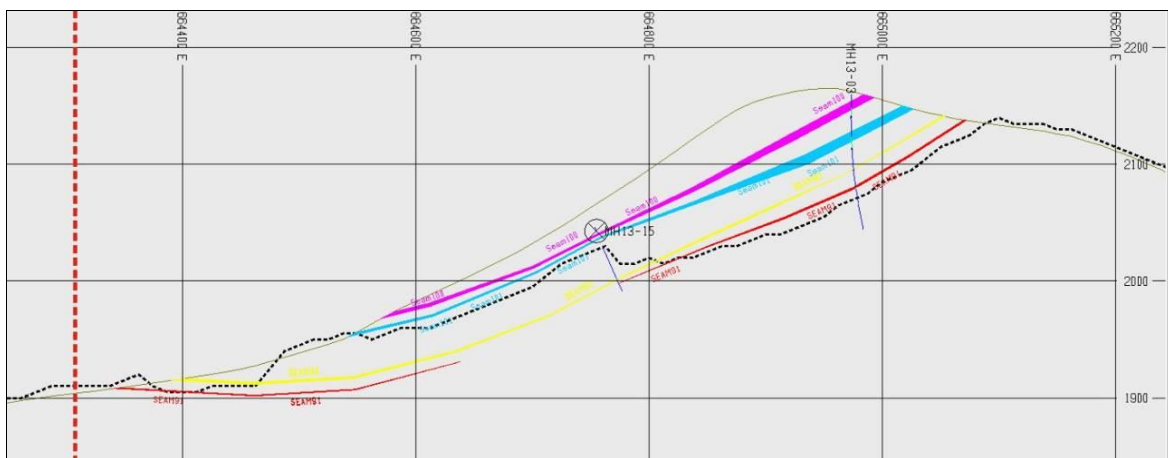


Figure 4-14 Michel Head Cross-section 5487250N

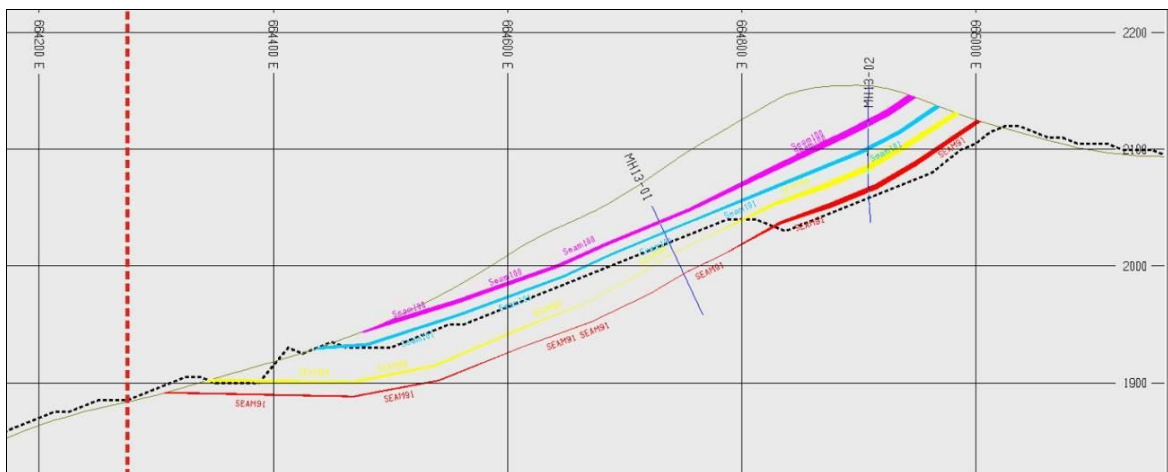


Figure 4-15 Michel Head Cross-section 5487400N

5 EXPLORATION PROGRAM 2013

The 2013 CanAus drill program included 23 reverse circulation drillholes, for a total of 2,932m and two large diameter (15cm) sonic core holes, for a total of 94.53m on the Michel Head property. These are the first recorded drillholes for this area.

Reverse circulation drilling was completed by Drift Exploration Drilling Inc./Orbit Garant Drilling Services Inc., with a Schramm T450 drill. The sonic core drilling was completed by Boart Longyear, with an IR TH-100 drill. Two core sizes were tried; drillhole MH13-03C was 15cm, while drillhole MH13-11C was 11.4cm.

All reverse circulation holes were geophysically logged through the rods using the gamma-neutron and gamma-density method. If the hole remained open after the rods were pulled, the holes were logged for hole deviation and gamma-density/compensated density. Open hole logs were not conducted on MH13-01, MH13-17, MH13-20 and MH13-23 due to hole instability. Holes MH13-12, MH13-18 and MH13-19 were logged only partially in open hole due to caving at 64m, 112.5m, and 67.5m respectively. Geophysical logging was conducted by Century Geophysical Corporation.

Coal samples from the reverse circulation drilling were collected in 0.5m increments through each intersected coal zone and composited into representative seam samples using the down hole geophysical log. Each composite was cataloged and sent to either the Elk Valley Environmental Services Lab in Sparwood or to Birtley Labs in Calgary.

The two sonic cores were drilled on sites with a pre-existing, geophysically logged pilot hole to ensure accurate field measurements of recovery. The cores were logged on site, split into representative seam plies, and sealed in plastic bags for shipment. The core samples were shipped to ALS Labs in Vancouver.

Access roads and drill sites were built by Fiorentino Brothers Contracting Ltd. Drillhole collar surveying was completed by Total Resource Management, Ray Biech.

The map in Figure 5-1 shows the location of the drillholes within the coal licence. Detailed collar locations are included in the Drillhole Data found in Appendix A.

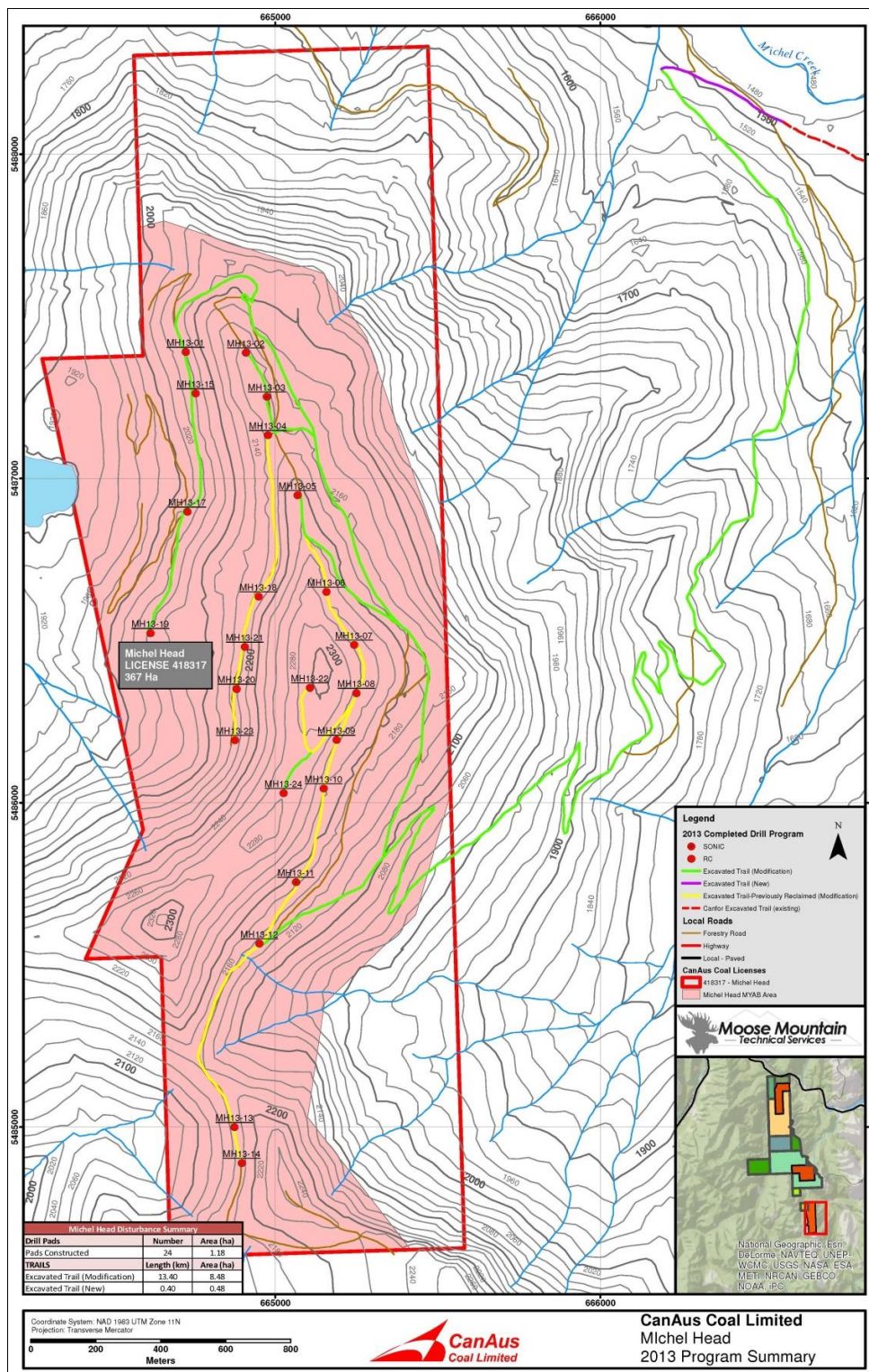


Figure 5-1 Michel Head Drillhole Location Map

The strike length of the Michel Head area is approximately 3.2km, while the width is approximately 1.7km.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

6 SUMMARY AND CONCLUSIONS

[REDACTED]

7 REFERENCES

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8 CERTIFICATE AND SIGNATURE PAGES

CERTIFICATE OF QUALIFICATIONS: ROBERT J. MORRIS

I Robert J. Morris, Principal Geologist, Moose Mountain Technical Services hereby certify that:

1. This certificate applies to the assessment report titled *Summary Report on the Michel Head Property –2013 Exploration Program - Michel Creek Coking Coal Project*.
2. I am independent of the CanAus and work as a consultant geologist.
3. That I graduated as a geologist from the University of British Columbia, Vancouver, with a degree of Bachelor of Science in 1973.
4. That I graduated as a geologist from Queen’s University, Kingston, Ontario, with a degree of Master of Science in 1978.
5. That I am a member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia (Registration #18,301).
6. That I have been involved in the mining exploration projects since my graduation in 1973.
7. That I am familiar with the subject area from fieldwork since 1973 and that I personally wrote and supervised the preparation of this report.

Dated this 13th day of March 2014; in Fernie, British Columbia

“Signed and Sealed”

R.J. Morris, M.Sc., P.Geo.

CERTIFICATE OF QUALIFICATIONS: JACLYN L. GALBRAITH

I Jaclyn L. Galbraith, Engineer-in-Training (Geological), Moose Mountain Technical Services hereby certify that:

1. This certificate applies to the assessment report titled *Summary Report on the Michel Head Property –2013 Exploration Program - Michel Creek Coking Coal Project*.
2. I am independent of the CanAus and work as a consultant geologist.
3. That I graduated as a geological engineer from Queen’s University, Kingston, Ontario, with a degree of Bachelor of Science Geological Engineering in 2010.
4. That I am a member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia (Registration #159069).
5. That I have been involved in the mining exploration projects since my summer co-op work in 2007.
6. That I am familiar with the subject area from fieldwork since 2013 and that I personally wrote and supervised the preparation of this report.

Dated this 13th day of March 2014; in Fernie, British Columbia

“Signed and Sealed”

J.L. Galbraith, B.Sc., E.I.T.

Appendix A Drillhole Data

Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-01	664723.38	5487390.373	2051.389	102.64	90	-65	0	14	14	part	
MH13-01							14	16.2	2.2	coal	10L
MH13-01							16.2	24	7.8	part	
MH13-01							24	25.3	1.3	coal	10L
MH13-01							25.3	102.64	77.34	part	
MH13-02	664908.709	5487388.458	2158.173	121.2	90	-90	0	4.37	4.37	part	
MH13-02							4.37	4.49	0.12	coal	
MH13-02							4.49	34.24	29.75	part	
MH13-02							34.24	37.88	3.64	coal	10
MH13-02							37.88	38.04	0.16	part	
MH13-02							38.04	39.78	1.74	coal	10
MH13-02							39.78	39.95	0.17	part	
MH13-02							39.95	40.5	0.55	coal	10
MH13-02							40.5	56.68	16.18	part	
MH13-02							56.68	56.98	0.3	coal	10L
MH13-02							56.98	57.88	0.9	part	
MH13-02							57.88	58.34	0.46	coal	10L
MH13-02							58.34	58.44	0.1	part	
MH13-02							58.44	59.26	0.82	coal	10L
MH13-02							59.26	59.88	0.62	part	
MH13-02							59.88	61.17	1.29	coal	10L
MH13-02							61.17	73.44	12.27	part	
MH13-02							73.44	73.7	0.26	coal	9
MH13-02							73.7	74	0.3	part	

**Michel Creek Coking Coal Project – Michel Head
CanAus**

Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-02							74	75.3	1.3	coal	9
MH13-02							75.3	75.78	0.48	part	
MH13-02							75.78	77.28	1.5	coal	9
MH13-02							77.28	77.96	0.68	part	
MH13-02							77.96	78.94	0.98	coal	9
MH13-02							78.94	92.34	13.4	part	
MH13-02							92.34	92.6	0.26	coal	9L
MH13-02							92.6	93.02	0.42	part	
MH13-02							93.02	93.62	0.6	coal	9L
MH13-02							93.62	93.82	0.2	part	
MH13-02							93.82	96.3	2.48	coal	9L
MH13-02							96.3	96.74	0.44	part	
MH13-02							96.74	97.42	0.68	coal	9L
MH13-02							97.42	99.78	2.36	part	
MH13-02							99.78	100.2	0.42	coal	8
MH13-02							100.2	106.16	5.96	part	
MH13-02							106.16	106.32	0.16	coal	7
MH13-02							106.32	106.76	0.44	part	
MH13-02							106.76	107.14	0.38	coal	7
MH13-02							107.14	121.2	14.06	part	
MH13-03	664973.273	5487252.962	2159.641	115.7	90	-90	0	10.55	10.55	part	
MH13-03							10.55	16.38	5.83	coal	10
MH13-03							16.38	16.81	0.43	part	
MH13-03							16.81	17.97	1.16	coal	10
MH13-03							17.97	35.52	17.55	part	
MH13-03							35.52	36.74	1.22	coal	10L

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-03							36.74	38.74	2	part	
MH13-03							38.74	39.84	1.1	coal	10L
MH13-03							39.84	40.52	0.68	part	
MH13-03							40.52	44.16	3.64	coal	10L
MH13-03							44.16	44.32	0.16	part	
MH13-03							44.32	45.6	1.28	coal	10L
MH13-03							45.6	64.22	18.62	part	
MH13-03							64.22	64.54	0.32	coal	9
MH13-03							64.54	75.78	11.24	part	
MH13-03							75.78	76.04	0.26	coal	9L
MH13-03							76.04	77.74	1.7	part	
MH13-03							77.74	78.1	0.36	coal	9L
MH13-03							78.1	78.94	0.84	part	
MH13-03							78.94	79.22	0.28	coal	9L
MH13-03							79.22	79.44	0.22	part	
MH13-03							79.44	80.68	1.24	coal	9L
MH13-03							80.68	93.01	12.33	part	
MH13-03							93.01	93.54	0.53	coal	7
MH13-03							93.54	115.7	22.16	part	
MH13-04	664976.672	5487133.608	2158.777	163.92	90	-90	0	5.02	5.02	part	
MH13-04							5.02	7.2	2.18	coal	10
MH13-04							7.2	7.3	0.1	part	
MH13-04							7.3	10.64	3.34	coal	10
MH13-04							10.64	10.78	0.14	part	
MH13-04							10.78	10.92	0.14	coal	10
MH13-04							10.92	11	0.08	part	

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-04							11	11.46	0.46	coal	10
MH13-04							11.46	11.62	0.16	part	
MH13-04							11.62	13.14	1.52	coal	10
MH13-04							13.14	13.42	0.28	part	
MH13-04							13.42	14	0.58	coal	10
MH13-04							14	21.18	7.18	part	
MH13-04							21.18	21.32	0.14	coal	
MH13-04							21.32	31.08	9.76	part	
MH13-04							31.08	31.78	0.7	coal	
MH13-04							31.78	37.1	5.32	part	
MH13-04							37.1	39.04	1.94	coal	10L
MH13-04							39.04	41.38	2.34	part	
MH13-04							41.38	41.88	0.5	coal	10L
MH13-04							41.88	42.22	0.34	part	
MH13-04							42.22	42.26	0.04	coal	10L
MH13-04							42.26	58.58	16.32	part	
MH13-04							58.58	58.96	0.38	coal	
MH13-04							58.96	63.78	4.82	part	
MH13-04							63.78	63.82	0.04	coal	9
MH13-04							63.82	63.96	0.14	part	
MH13-04							63.96	64.24	0.28	coal	9
MH13-04							64.24	64.92	0.68	part	
MH13-04							64.92	70.02	5.1	coal	9
MH13-04							70.02	70.16	0.14	part	
MH13-04							70.16	70.98	0.82	coal	9
MH13-04							70.98	73.6	2.62	part	

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-04							73.6	73.8	0.2	coal	9L
MH13-04							73.8	74.18	0.38	part	
MH13-04							74.18	74.28	0.1	coal	9L
MH13-04							74.28	74.84	0.56	part	
MH13-04							74.84	75.38	0.54	coal	9L
MH13-04							75.38	79.56	4.18	part	
MH13-04							79.56	79.76	0.2	coal	8
MH13-04							79.76	86.84	7.08	part	
MH13-04							86.84	86.94	0.1	coal	7
MH13-04							86.94	87.06	0.12	part	
MH13-04							87.06	87.66	0.6	coal	7
MH13-04							87.66	163.92	76.26	part	
MH13-05	665068.156	5486948.355	2202.82	138	90	-90	0	5.18	5.18	part	
MH13-05							5.18	5.46	0.28	coal	
MH13-05							5.46	15.36	9.9	part	
MH13-05							15.36	15.5	0.14	coal	12
MH13-05							15.5	22.12	6.62	part	
MH13-05							22.12	22.36	0.24	coal	11
MH13-05							22.36	23.08	0.72	part	
MH13-05							23.08	23.84	0.76	coal	11
MH13-05							23.84	32.76	8.92	part	
MH13-05							32.76	32.84	0.08	coal	
MH13-05							32.84	36.22	3.38	part	
MH13-05							36.22	36.36	0.14	coal	
MH13-05							36.36	36.42	0.06	part	
MH13-05							36.42	36.5	0.08	coal	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-05							36.5	39.16	2.66	part	
MH13-05							39.16	39.52	0.36	coal	10
MH13-05							39.52	39.76	0.24	part	
MH13-05							39.76	44.5	4.74	coal	10
MH13-05							44.5	44.58	0.08	part	
MH13-05							44.58	47.62	3.04	coal	10
MH13-05							47.62	47.74	0.12	part	
MH13-05							47.74	49.18	1.44	coal	10
MH13-05							49.18	49.48	0.3	part	
MH13-05							49.48	50.9	1.42	coal	10
MH13-05							50.9	51.86	0.96	part	
MH13-05							51.86	54	2.14	coal	10
MH13-05							54	54.78	0.78	part	
MH13-05							54.78	55.68	0.9	coal	10
MH13-05							55.68	71	15.32	part	
MH13-05							71	71.02	0.02	coal	10L
MH13-05							71.02	89.66	18.64	part	
MH13-05							89.66	90.52	0.86	coal	9
MH13-05							90.52	96.32	5.8	part	
MH13-05							96.32	96.38	0.06	coal	9L
MH13-05							96.38	104	7.62	part	
MH13-05							104	104.42	0.42	coal	7
MH13-05							104.42	138	33.58	part	
MH13-06	665157.057	5486650.231	2231.633	108	90	-90	0	20.9	20.9	part	
MH13-06							20.9	21.68	0.78	coal	12
MH13-06							21.68	30.68	9	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-06							30.68	31.68	1	coal	11
MH13-06							31.68	65.62	33.94	part	
MH13-06							65.62	65.86	0.24	coal	
MH13-06							65.86	69.68	3.82	part	
MH13-06							69.68	75	5.32	coal	10
MH13-06							75	75.78	0.78	part	
MH13-06							75.78	76.5	0.72	coal	10
MH13-06							76.5	94.6	18.1	part	
MH13-06							94.6	94.94	0.34	coal	10L
MH13-06							94.94	95.3	0.36	part	
MH13-06							95.3	97.08	1.78	coal	10L
MH13-06							97.08	98.1	1.02	part	
MH13-06							98.1	98.48	0.38	coal	10L
MH13-06							98.48	108	9.52	part	
MH13-07	665241.441	5486486.96	2243.642	124	90	-90	0	55.3	55.3	part	
MH13-07							55.3	55.7	0.4	coal	
MH13-07							55.7	62.4	6.7	part	
MH13-07							62.4	62.8	0.4	coal	10
MH13-07							62.8	62.94	0.14	part	
MH13-07							62.94	63.02	0.08	coal	10
MH13-07							63.02	63.1	0.08	part	
MH13-07							63.1	63.36	0.26	coal	10
MH13-07							63.36	63.72	0.36	part	
MH13-07							63.72	64.14	0.42	coal	10
MH13-07							64.14	64.36	0.22	part	
MH13-07							64.36	65.64	1.28	coal	10

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-07							65.64	66.08	0.44	part	
MH13-07							66.08	69.84	3.76	coal	10
MH13-07							69.84	70	0.16	part	
MH13-07							70	70.04	0.04	coal	10
MH13-07							70.04	70.3	0.26	part	
MH13-07							70.3	70.38	0.08	coal	10
MH13-07							70.38	70.46	0.08	part	
MH13-07							70.46	70.72	0.26	coal	10
MH13-07							70.72	71.56	0.84	part	
MH13-07							71.56	71.88	0.32	coal	10
MH13-07							71.88	72.36	0.48	part	
MH13-07							72.36	73.44	1.08	coal	10
MH13-07							73.44	73.84	0.4	part	
MH13-07							73.84	74.2	0.36	coal	10
MH13-07							74.2	74.24	0.04	part	
MH13-07							74.24	74.34	0.1	coal	10
MH13-07							74.34	74.4	0.06	part	
MH13-07							74.4	75.56	1.16	coal	10
MH13-07							75.56	75.66	0.1	part	
MH13-07							75.66	75.76	0.1	coal	10
MH13-07							75.76	76.58	0.82	part	
MH13-07							76.58	77.38	0.8	coal	10
MH13-07							77.38	78.3	0.92	part	
MH13-07							78.3	78.64	0.34	coal	10
MH13-07							78.64	78.78	0.14	part	
MH13-07							78.78	80.04	1.26	coal	10

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-07							80.04	80.44	0.4	part	
MH13-07							80.44	80.52	0.08	coal	10
MH13-07							80.52	80.66	0.14	part	
MH13-07							80.66	81.08	0.42	coal	10
MH13-07							81.08	89.34	8.26	part	
MH13-07							89.34	89.56	0.22	coal	
MH13-07							89.56	106.32	16.76	part	
MH13-07							106.32	106.42	0.1	coal	10L
MH13-07							106.42	106.74	0.32	part	
MH13-07							106.74	109.8	3.06	coal	10L
MH13-07							109.8	110.38	0.58	part	
MH13-07							110.38	110.48	0.1	coal	10L
MH13-07							110.48	110.94	0.46	part	
MH13-07							110.94	113.72	2.78	coal	10L
MH13-07							113.72	124	10.28	part	
MH13-08	665248.75	5486338.355	2251.374	127.72	90	-90	0	2	2	part	
MH13-08							2	2.08	0.08	coal	
MH13-08							2.08	62.14	60.06	part	
MH13-08							62.14	75	12.86	coal	10
MH13-08							75	75.18	0.18	part	
MH13-08							75.18	77.52	2.34	coal	10
MH13-08							77.52	77.82	0.3	part	
MH13-08							77.82	78.38	0.56	coal	10
MH13-08							78.38	79.28	0.9	part	
MH13-08							79.28	80.7	1.42	coal	10
MH13-08							80.7	80.82	0.12	part	

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-08							80.82	81.58	0.76	coal	10
MH13-08							81.58	82.06	0.48	part	
MH13-08							82.06	82.1	0.04	coal	10
MH13-08							82.1	82.22	0.12	part	
MH13-08							82.22	83.5	1.28	coal	10
MH13-08							83.5	100.38	16.88	part	
MH13-08							100.38	100.7	0.32	coal	10L
MH13-08							100.7	100.82	0.12	part	
MH13-08							100.82	101.14	0.32	coal	10L
MH13-08							101.14	101.82	0.68	part	
MH13-08							101.82	101.84	0.02	coal	10L
MH13-08							101.84	102.08	0.24	part	
MH13-08							102.08	102.64	0.56	coal	10L
MH13-08							102.64	103	0.36	part	
MH13-08							103	103.48	0.48	coal	10L
MH13-08							103.48	103.54	0.06	part	
MH13-08							103.54	105.66	2.12	coal	10L
MH13-08							105.66	105.98	0.32	part	
MH13-08							105.98	106.5	0.52	coal	10L
MH13-08							106.5	107.12	0.62	part	
MH13-08							107.12	108.14	1.02	coal	10L
MH13-08							108.14	108.7	0.56	part	
MH13-08							108.7	109.68	0.98	coal	10L
MH13-08							109.68	110.2	0.52	part	
MH13-08							110.2	110.82	0.62	coal	10L
MH13-08							110.82	112.38	1.56	part	

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-08							112.38	114.06	1.68	coal	10L
MH13-08							114.06	127.72	13.66	part	
MH13-09	665188.46	5486194.15	2235.167	151	90	-90	0	5.72	5.72	part	
MH13-09							5.72	5.74	0.02	coal	
MH13-09							5.74	24.1	18.36	part	
MH13-09							24.1	24.32	0.22	coal	
MH13-09							24.32	24.48	0.16	part	
MH13-09							24.48	24.52	0.04	coal	
MH13-09							24.52	24.76	0.24	part	
MH13-09							24.76	25.58	0.82	coal	12
MH13-09							25.58	26.48	0.9	part	
MH13-09							26.48	26.6	0.12	coal	12
MH13-09							26.6	32.84	6.24	part	
MH13-09							32.84	33.26	0.42	coal	11
MH13-09							33.26	33.58	0.32	part	
MH13-09							33.58	33.72	0.14	coal	11
MH13-09							33.72	79.06	45.34	part	
MH13-09							79.06	81.3	2.24	coal	10
MH13-09							81.3	98.54	17.24	part	
MH13-09							98.54	98.66	0.12	coal	10L
MH13-09							98.66	99.14	0.48	part	
MH13-09							99.14	100.36	1.22	coal	10L
MH13-09							100.36	102.24	1.88	part	
MH13-09							102.24	102.44	0.2	coal	10L
MH13-09							102.44	104.84	2.4	part	
MH13-09							104.84	105.7	0.86	coal	10L

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-09							105.7	106.98	1.28	part	
MH13-09							106.98	107.26	0.28	coal	10L
MH13-09							107.26	107.76	0.5	part	
MH13-09							107.76	107.88	0.12	coal	10L
MH13-09							107.88	116.38	8.5	part	
MH13-09							116.38	116.52	0.14	coal	9
MH13-09							116.52	119	2.48	part	
MH13-09							119	119.02	0.02	coal	9L
MH13-09							119.02	151	31.98	part	
MH13-10	665148.642	5486044.412	2216.903	134	90	-90	0	9.74	9.74	part	
MH13-10							9.74	10.66	0.92	coal	12
MH13-10							10.66	11.62	0.96	part	
MH13-10							11.62	11.74	0.12	coal	12
MH13-10							11.74	18.1	6.36	part	
MH13-10							18.1	18.4	0.3	coal	11
MH13-10							18.4	54.48	36.08	part	
MH13-10							54.48	54.86	0.38	coal	10
MH13-10							54.86	55.78	0.92	part	
MH13-10							55.78	57.82	2.04	coal	10
MH13-10							57.82	58.22	0.4	part	
MH13-10							58.22	59.02	0.8	coal	10
MH13-10							59.02	59.4	0.38	part	
MH13-10							59.4	60.7	1.3	coal	10
MH13-10							60.7	61.38	0.68	part	
MH13-10							61.38	61.52	0.14	coal	10
MH13-10							61.52	62.16	0.64	part	

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-10							62.16	62.68	0.52	coal	10
MH13-10							62.68	65.16	2.48	part	
MH13-10							65.16	65.6	0.44	coal	10L
MH13-10							65.6	66.12	0.52	part	
MH13-10							66.12	66.32	0.2	coal	10L
MH13-10							66.32	72.18	5.86	part	
MH13-10							72.18	72.36	0.18	coal	9
MH13-10							72.36	74	1.64	part	
MH13-10							74	74.02	0.02	coal	9L
MH13-10							74.02	134	59.98	part	
MH13-11	665063.117	5485756.074	2178.421	121	90	-90	0	18.98	18.98	part	
MH13-11							18.98	19.32	0.34	coal	
MH13-11							19.32	24.46	5.14	part	
MH13-11							24.46	30.4	5.94	coal	10
MH13-11							30.4	30.86	0.46	part	
MH13-11							30.86	31.04	0.18	coal	10
MH13-11							31.04	31.66	0.62	part	
MH13-11							31.66	32.96	1.3	coal	10
MH13-11							32.96	33.6	0.64	part	
MH13-11							33.6	33.84	0.24	coal	10
MH13-11							33.84	34.86	1.02	part	
MH13-11							34.86	35.92	1.06	coal	10
MH13-11							35.92	37.7	1.78	part	
MH13-11							37.7	48.16	10.46	coal	10L
MH13-11							48.16	48.5	0.34	part	
MH13-11							48.5	49.2	0.7	coal	10L

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-11							49.2	49.36	0.16	part	
MH13-11							49.36	49.44	0.08	coal	10L
MH13-11							49.44	49.58	0.14	part	
MH13-11							49.58	50.78	1.2	coal	10L
MH13-11							50.78	50.82	0.04	part	
MH13-11							50.82	50.92	0.1	coal	10L
MH13-11							50.92	51.1	0.18	part	
MH13-11							51.1	51.18	0.08	coal	10L
MH13-11							51.18	51.34	0.16	part	
MH13-11							51.34	51.9	0.56	coal	10L
MH13-11							51.9	52.94	1.04	part	
MH13-11							52.94	53.58	0.64	coal	10L
MH13-11							53.58	54.02	0.44	part	
MH13-11							54.02	54.12	0.1	coal	10L
MH13-11							54.12	72.56	18.44	part	
MH13-11							72.56	73.92	1.36	coal	9
MH13-11							73.92	74.44	0.52	part	
MH13-11							74.44	74.88	0.44	coal	9
MH13-11							74.88	75.32	0.44	part	
MH13-11							75.32	76.46	1.14	coal	9
MH13-11							76.46	76.58	0.12	part	
MH13-11							76.58	76.78	0.2	coal	9
MH13-11							76.78	78.02	1.24	part	
MH13-11							78.02	78.16	0.14	coal	9
MH13-11							78.16	82	3.84	part	
MH13-11							82	82.02	0.02	coal	9L

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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-11							82.02	121	38.98	part	
MH13-12	664950.395	5485566.252	2150.985	77.62	90	-90	0	7.34	7.34	part	
MH13-12							7.34	7.64	0.3	coal	10
MH13-12							7.64	7.94	0.3	part	
MH13-12							7.94	8.58	0.64	coal	10
MH13-12							8.58	9.98	1.4	part	
MH13-12							9.98	13.1	3.12	coal	10
MH13-12							13.1	17.74	4.64	part	
MH13-12							17.74	19.34	1.6	coal	10L
MH13-12							19.34	19.56	0.22	part	
MH13-12							19.56	31.08	11.52	coal	10L
MH13-12							31.08	31.22	0.14	part	
MH13-12							31.22	31.32	0.1	coal	10L
MH13-12							31.32	31.46	0.14	part	
MH13-12							31.46	31.6	0.14	coal	10L
MH13-12							31.6	32.1	0.5	part	
MH13-12							32.1	32.62	0.52	coal	10L
MH13-12							32.62	35.26	2.64	part	
MH13-12							35.26	36.38	1.12	coal	9
MH13-12							36.38	37.48	1.1	part	
MH13-12							37.48	37.74	0.26	coal	9
MH13-12							37.74	37.84	0.1	part	
MH13-12							37.84	37.9	0.06	coal	9
MH13-12							37.9	40.22	2.32	part	
MH13-12							40.22	40.36	0.14	coal	9
MH13-12							40.36	41.66	1.3	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-12							41.66	43.94	2.28	coal	9
MH13-12							43.94	44.14	0.2	part	
MH13-12							44.14	44.78	0.64	coal	9
MH13-12							44.78	44.86	0.08	part	
MH13-12							44.86	45.24	0.38	coal	9
MH13-12							45.24	45.9	0.66	part	
MH13-12							45.9	46.38	0.48	coal	9
MH13-12							46.38	49.12	2.74	part	
MH13-12							49.12	49.8	0.68	coal	9L
MH13-12							49.8	50.12	0.32	part	
MH13-12							50.12	50.44	0.32	coal	9L
MH13-12							50.44	51.58	1.14	part	
MH13-12							51.58	51.62	0.04	coal	9L
MH13-12							51.62	77.62	26	part	
MH13-13	664873.674	5484999.85	2166.241	67	90	-90	0	25.22	25.22	part	
MH13-13							25.22	27.08	1.86	coal	10
MH13-13							27.08	28.72	1.64	part	
MH13-13							28.72	30.08	1.36	coal	10
MH13-13							30.08	34.04	3.96	part	
MH13-13							34.04	39.42	5.38	coal	10L
MH13-13							39.42	40.02	0.6	part	
MH13-13							40.02	45	4.98	coal	10L
MH13-13							45	46	1	part	
MH13-13							46	46.26	0.26	coal	10L
MH13-13							46.26	46.54	0.28	part	
MH13-13							46.54	46.76	0.22	coal	10L

**Michel Creek Coking Coal Project – Michel Head
CanAus**

Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-13							46.76	46.84	0.08	part	
MH13-13							46.84	46.92	0.08	coal	10L
MH13-13							46.92	51.74	4.82	part	
MH13-13							51.74	53.44	1.7	coal	9
MH13-13							53.44	60	6.56	part	
MH13-13							60	60.02	0.02	coal	9L
MH13-13							60.02	67	6.98	part	
MH13-14	664896.234	5484889.154	2170.551	103.46	90	-90	0	19.22	19.22	part	
MH13-14							19.22	25.56	6.34	coal	10L
MH13-14							25.56	25.7	0.14	part	
MH13-14							25.7	28.02	2.32	coal	10L
MH13-14							28.02	28.88	0.86	part	
MH13-14							28.88	29.18	0.3	coal	10L
MH13-14							29.18	29.5	0.32	part	
MH13-14							29.5	30.16	0.66	coal	10L
MH13-14							30.16	30.42	0.26	part	
MH13-14							30.42	30.8	0.38	coal	10L
MH13-14							30.8	32.32	1.52	part	
MH13-14							32.32	32.36	0.04	coal	10L
MH13-14							32.36	32.5	0.14	part	
MH13-14							32.5	32.94	0.44	coal	10L
MH13-14							32.94	33.4	0.46	part	
MH13-14							33.4	33.72	0.32	coal	10L
MH13-14							33.72	39.86	6.14	part	
MH13-14							39.86	40.24	0.38	coal	9
MH13-14							40.24	46.5	6.26	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-14							46.5	46.52	0.02	coal	9L
MH13-14							46.52	103.46	56.94	part	
MH13-15	664753.747	5487262.497	2046.233	59	90	-70	0	6.14	6.14	part	
MH13-15							6.14	7.06	0.92	coal	10
MH13-15							7.06	7.18	0.12	part	
MH13-15							7.18	7.76	0.58	coal	10
MH13-15							7.76	8.96	1.2	part	
MH13-15							8.96	9.18	0.22	coal	10L
MH13-15							9.18	9.56	0.38	part	
MH13-15							9.56	10.68	1.12	coal	10L
MH13-15							10.68	43.94	33.26	part	
MH13-15							43.94	44.1	0.16	coal	9
MH13-15							44.1	47.42	3.32	part	
MH13-15							47.42	48.1	0.68	coal	9
MH13-15							48.1	59	10.9	part	
MH13-17	664728.772	5486897.029	2018.621	95.96	90	-70	0	10.4	10.4	part	
MH13-17							10.4	11.3	0.9	coal	10
MH13-17							11.3	26.1	14.8	part	
MH13-17							26.1	27.2	1.1	coal	10L
MH13-17							27.2	86.95	59.75	part	
MH13-17							86.95	87.4	0.45	coal	9
MH13-17							87.4	95.96	8.56	part	
MH13-18	664947.306	5486635.81	2156.757	132.56	90	-90	0	18.66	18.66	part	
MH13-18							18.66	18.78	0.12	coal	10L
MH13-18							18.78	19.16	0.38	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-18							19.16	19.28	0.12	coal	10L
MH13-18							19.28	19.38	0.1	part	
MH13-18							19.38	21.4	2.02	coal	10L
MH13-18							21.4	21.98	0.58	part	
MH13-18							21.98	22.88	0.9	coal	10L
MH13-18							22.88	24.46	1.58	part	
MH13-18							24.46	24.74	0.28	coal	10L
MH13-18							24.74	25.78	1.04	part	
MH13-18							25.78	25.92	0.14	coal	10L
MH13-18							25.92	33.38	7.46	part	
MH13-18							33.38	33.46	0.08	coal	
MH13-18							33.46	65.8	32.34	part	
MH13-18							65.8	65.88	0.08	coal	9
MH13-18							65.88	65.92	0.04	part	
MH13-18							65.92	66.66	0.74	coal	9
MH13-18							66.66	67.5	0.84	part	
MH13-18							67.5	68.28	0.78	coal	9
MH13-18							68.28	68.82	0.54	part	
MH13-18							68.82	69.52	0.7	coal	9
MH13-18							69.52	69.78	0.26	part	
MH13-18							69.78	70.14	0.36	coal	9
MH13-18							70.14	70.44	0.3	part	
MH13-18							70.44	76.4	5.96	coal	9
MH13-18							76.4	76.54	0.14	part	
MH13-18							76.54	77.48	0.94	coal	9
MH13-18							77.48	80	2.52	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-18							80	80.02	0.02	coal	9L
MH13-18							80.02	90.78	10.76	part	
MH13-18							90.78	90.88	0.1	coal	8
MH13-18							90.88	92.46	1.58	part	
MH13-18							92.46	92.76	0.3	coal	8
MH13-18							92.76	98.1	5.34	part	
MH13-18							98.1	98.12	0.02	coal	7
MH13-18							98.12	98.28	0.16	part	
MH13-18							98.28	99.12	0.84	coal	7
MH13-18							99.12	132.56	33.44	part	
MH13-19	664615.275	5486522.888	2057.609	202.9	90	-80	0	11.56	11.56	part	
MH13-19							11.56	12.46	0.9	coal	10
MH13-19							12.46	15	2.54	part	
MH13-19							15	15.24	0.24	coal	10L
MH13-19							15.24	66.38	51.14	part	
MH13-19							66.38	69.6	3.22	coal	9
MH13-19							69.6	75.05	5.45	part	
MH13-19							75.05	77.5	2.45	coal	9L
MH13-19							77.5	83	5.5	part	
MH13-19							83	83.75	0.75	coal	7
MH13-19							83.75	190.2	106.45	part	
MH13-19							190.2	194.1	3.9	coal	4
MH13-19							194.1	202.9	8.8	part	
MH13-20	664880.478	5486351.258	2143.103	123.28	90	-80	0	24.1	24.1	part	
MH13-20							24.1	24.75	0.65	coal	10
MH13-20							24.75	33	8.25	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-20							33	33.02	0.02	coal	10L
MH13-20							33.02	60.5	27.48	part	
MH13-20							60.5	67.15	6.65	coal	9
MH13-20							67.15	68.45	1.3	part	
MH13-20							68.45	70.9	2.45	coal	9
MH13-20							70.9	71.8	0.9	part	
MH13-20							71.8	74.85	3.05	coal	9
MH13-20							74.85	76.02	1.17	part	
MH13-20							76.02	76.45	0.43	coal	9L
MH13-20							76.45	123.28	46.83	part	
MH13-21	664905.34	5486480.688	2151.012	89.24	90	-90	0	6.74	6.74	part	
MH13-21							6.74	6.9	0.16	coal	
MH13-21							6.9	19	12.1	part	
MH13-21							19	19.52	0.52	coal	10
MH13-21							19.52	25.34	5.82	part	
MH13-21							25.34	25.56	0.22	coal	10L
MH13-21							25.56	29.24	3.68	part	
MH13-21							29.24	29.42	0.18	coal	10L
MH13-21							29.42	59.06	29.64	part	
MH13-21							59.06	59.56	0.5	coal	9
MH13-21							59.56	59.68	0.12	part	
MH13-21							59.68	60.48	0.8	coal	9
MH13-21							60.48	61.14	0.66	part	
MH13-21							61.14	61.84	0.7	coal	9
MH13-21							61.84	62.9	1.06	part	
MH13-21							62.9	63.08	0.18	coal	9

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-21							63.08	63.16	0.08	part	
MH13-21							63.16	63.3	0.14	coal	9
MH13-21							63.3	63.46	0.16	part	
MH13-21							63.46	63.56	0.1	coal	9
MH13-21							63.56	64.24	0.68	part	
MH13-21							64.24	64.34	0.1	coal	9
MH13-21							64.34	74.92	10.58	part	
MH13-21							74.92	75.76	0.84	coal	9L
MH13-21							75.76	76.24	0.48	part	
MH13-21							76.24	76.38	0.14	coal	9L
MH13-21							76.38	76.5	0.12	part	
MH13-21							76.5	76.98	0.48	coal	9L
MH13-21							76.98	77.14	0.16	part	
MH13-21							77.14	77.18	0.04	coal	9L
MH13-21							77.18	78.1	0.92	part	
MH13-21							78.1	78.86	0.76	coal	9L
MH13-21							78.86	82.72	3.86	part	
MH13-21							82.72	82.8	0.08	coal	7
MH13-21							82.8	82.96	0.16	part	
MH13-21							82.96	83.6	0.64	coal	7
MH13-21							83.6	89.24	5.64	part	
MH13-22	665106.035	5486355.092	2283.355	239.86	90	-80	0	12.09	12.09	part	
MH13-22							12.09	12.73	0.64	coal	
MH13-22							12.73	15.17	2.44	part	
MH13-22							15.17	15.47	0.3	coal	
MH13-22							15.47	52.55	37.08	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-22							52.55	52.79	0.24	coal	
MH13-22							52.79	54.03	1.24	part	
MH13-22							54.03	54.47	0.44	coal	
MH13-22							54.47	57.17	2.7	part	
MH13-22							57.17	57.23	0.06	coal	
MH13-22							57.23	68.67	11.44	part	
MH13-22							68.67	68.85	0.18	coal	
MH13-22							68.85	90.85	22	part	
MH13-22							90.85	90.89	0.04	coal	
MH13-22							90.89	95.03	4.14	part	
MH13-22							95.03	95.25	0.22	coal	
MH13-22							95.25	98.55	3.3	part	
MH13-22							98.55	100.95	2.4	coal	10
MH13-22							100.95	106.37	5.42	part	
MH13-22							106.37	107.07	0.7	coal	10
MH13-22							107.07	138.59	31.52	part	
MH13-22							138.59	139.11	0.52	coal	10L
MH13-22							139.11	142.73	3.62	part	
MH13-22							142.73	143.69	0.96	coal	10L
MH13-22							143.69	150.49	6.8	part	
MH13-22							150.49	153.29	2.8	coal	10L
MH13-22							153.29	153.71	0.42	part	
MH13-22							153.71	154.41	0.7	coal	10L
MH13-22							154.41	163.41	9	part	
MH13-22							163.41	163.77	0.36	coal	9
MH13-22							163.77	165.11	1.34	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-22							165.11	165.27	0.16	coal	9L
MH13-22							165.27	175.11	9.84	part	
MH13-22							175.11	175.67	0.56	coal	7
MH13-22							175.67	239.86	64.19	part	
MH13-23	664875.47	5486193.46	2134.476	102.12	90	-90	0	10	10	part	
MH13-23							10	10.02	0.02	coal	10
MH13-23							10.02	18	7.98	part	
MH13-23							18	18.02	0.02	coal	10L
MH13-23							18.02	40.2	22.18	part	
MH13-23							40.2	54	13.8	coal	9
MH13-23							54	56.5	2.5	part	
MH13-23							56.5	57.3	0.8	coal	9L
MH13-23							57.3	58.85	1.55	part	
MH13-23							58.85	59.65	0.8	coal	9L
MH13-23							59.65	102.12	42.47	part	
MH13-24	665024.781	5486030.352	2271.803	231.86	90	-80	0	42.46	42.46	part	
MH13-24							42.46	43.58	1.12	coal	11
MH13-24							43.58	82.14	38.56	part	
MH13-24							82.14	82.24	0.1	coal	10
MH13-24							82.24	83.1	0.86	part	
MH13-24							83.1	83.34	0.24	coal	10
MH13-24							83.34	83.48	0.14	part	
MH13-24							83.48	83.64	0.16	coal	10
MH13-24							83.64	83.78	0.14	part	
MH13-24							83.78	83.9	0.12	coal	10
MH13-24							83.9	83.98	0.08	part	

**Michel Creek Coking Coal Project – Michel Head
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Hole ID	Easting	Northing	Elev.	TD	Azimuth	Dip	From	To	Thickness	Rock Type	Seam
MH13-24							83.98	84.54	0.56	coal	10
MH13-24							84.54	85.48	0.94	part	
MH13-24							85.48	85.5	0.02	coal	10
MH13-24							85.5	91.48	5.98	part	
MH13-24							91.48	92.16	0.68	coal	10
MH13-24							92.16	123.92	31.76	part	
MH13-24							123.92	124.26	0.34	coal	
MH13-24							124.26	127.72	3.46	part	
MH13-24							127.72	138.52	10.8	coal	10L
MH13-24							138.52	139.02	0.5	part	
MH13-24							139.02	140.12	1.1	coal	10L
MH13-24							140.12	140.86	0.74	part	
MH13-24							140.86	141.36	0.5	coal	10L
MH13-24							141.36	141.72	0.36	part	
MH13-24							141.72	142.34	0.62	coal	10L
MH13-24							142.34	152.62	10.28	part	
MH13-24							152.62	152.78	0.16	coal	9
MH13-24							152.78	153.44	0.66	part	
MH13-24							153.44	158.2	4.76	coal	9
MH13-24							158.2	158.3	0.1	part	
MH13-24							158.3	158.42	0.12	coal	9
MH13-24							158.42	158.5	0.08	part	
MH13-24							158.5	158.76	0.26	coal	9
MH13-24							158.76	162	3.24	part	
MH13-24							162	162.02	0.02	coal	9L
MH13-24							162.02	231.86	69.84	part	

Appendix B Geophysical Logs

Geophysical Logs are available upon request from the Ministry of Energy and Mines of British Columbia Assessment Reports division.

Appendix C Core Logs

**Michel Creek Coking Coal Project – Michel Head
CanAus**



Corehole Log

Date: **September 13-16 / 2013**

Hole No: **MH13-03C**

Location:		Lat: / ' " N Long: / ' " W					DLS			Qtr.	Lsd	Sec	Twp	Rge	Mer					
UTM NAD83		Easting: 664973.27					Northing: 5487252.96					Elev: 2159.64								
Cored Interval - Units (m)						Recoverd		Description				Orientation (° TCA)			RQD (%)	Geotechnical Sample ID	Coal Sample ID	Seam	Rec. (%)	ELog Depth (m)
Box	Cut	From	To	Totl.	Sec.	Totl.	Lithology, Color, Size, Texture, Hardness, Shearing, Contacts, Bedding Angle, Alteration, Wetness, Contamination				No.	Joints	Bedding							
1	1	0	1.50	1.50		1.40	Silty Shale: grey-brown, hard, broken chunky fragments, bottom 20 cm crushed and powdery													
						1.40														
2	2	1.50	3.00	1.50		0.80	Shale: silty, hard, grey-brown as above, broken chunky fragments													
						0.80														
3	3	3.00	4.50	1.50		1.50	Siltstone: as above, hard broken fragments crushed and powdery at top, dark grey-brown calcareous marine origin glauconitic													
						1.40														
4	4	4.50	6.00	1.50		1.40	Siltstone: as above, very hard, well indurated, calcareous, chunky broken fragments massive													
						1.40														
5	5	6.00	7.50	1.50		1.40	Siltstone: hard, massive, grey-brown as above				representative sample			#23801 (1.0m)						
						1.40														
6	6	7.50	9.00	1.50		1.50	Siltstone: grey, blocky, hard with calcite veins, broken chunky fragments													
						1.10														
						0.40	Carbonaceous Shale: dark grey, medium soft broken crushed fragments													
							(meterage corrected from 10' pipe lengths)													
7	7	9.00	10.60	1.60		1.50	Carbonaceous Shale: dark grey, soft as above													
						0.75														
						0.75	Shale: grey-brown, medium soft, crushed chunky to crumbly fragments, fissile at base													
							(could not keep coal in the barrel - over-cored run to jam core)													
8	10.60	15.17	4.57	2.00		2.00	Coal: wet fines													10.60
						2.00														
9	15.17	16.76	1.59	1.30		1.30	Coal: crushed, powdery, wet													
						0.90														
						0.10	Mudstone: dark brown-black, broken fragments													
						0.30	Coal: crushed, wet, muddy													
10	16.76	18.28	1.52	1.20		1.20	Coal: crushed , wet, muddy slurry													
						1.20														
8	11	18.28	19.81	1.53		1.52	Carbonaceous Shale/Coal: crushed, milled, dark grey-black													17.95
						0.20														
						1.32	Shale: silty, medium dark brown, crushed, soft													
9	12	19.81	22.85	3.04		1.52	(lost core in softer shale)													

**Michel Creek Coking Coal Project – Michel Head
CanAus**



Corehole Log

Date: **September 13-16 / 2013**

Hole No: **MH13-03C**

Location:		/ /		° ' " N Long.		° ' " W		DLS		Qtr.	Lsd	Sec	Tw	Rge	Mer		
UTM NAD83		Easting: 664973.27		Northing: 5487252.96		Elev: 2159.64											
Cored Interval - Units (m)						Recovered		Description		Orientation (° TCA)		ROD (%)	Geochem Sample ID	Coal Sample ID	Seam	Rec. (%)	ELog Depth (m)
Box	Cut	From	To	Totl.	Sec.	Totl.	Lithology, Color, Size, Texture, Hardness, Shearing, Contacts, Bedding Angle, Alteration, Wetness, Contamination		No.	Joints	Bedding						
					1.52		Siltstone: medium-dark grey, carbonaceous, hard, shaly, platy, fragments, massive broken						#23804 (1.0m)				
10-11	13	22.85	25.90	3.05	2.45		Siltstone: as above, blocky to chunky broken fragments, hard massive						#23805 (1.0m)				
					2.35		Shale: brown, soft, milled carby										
					0.10												
12-13	14	25.90	28.95	3.05	2.40		Siltstone: grey blocky hard iron staining on fractures, massive						#23806 (0.9m)				
					2.40												
14-15	15	28.95	32.00	3.05	2.70		Siltstone: grey, blocky, hard massive as above						#23807 (1.0m)				
					2.70												
16-17	16	32.00	35.04	3.04	2.80		Siltstone w/ shale bands: grey, blocky, hard, broken, as above, more carby and shaley than above										
					2.80												
18-19	17	35.04	38.08	3.04	3.04		Siltstone: as above, hard, blocky						#23808 (1.0m)				
					0.26												
					0.50		Carbonaceous Shale: black, muddy, wet, milled							MH13-4 (1.9m)	9 - Upper	100%	35.52
					1.40		Coal: powdery, soft crushed										36.74
					0.88		Carbonaceous Shale: crushed, chunky, broken						#23809 (1.9m)				
20-21	18	38.08	41.12	3.04	3.04		Shale: grey brown, soft crushed						#23810 (0.5m)				
					1.35												
					0.15		Coal: dull, crushed, powdery, with few small fragments (coal thinner than shown in E-Log) - no sample						no sample	9 - ?	100%		37.84
					0.67		Shale: as above, crushed soft grey - brown										39.84
					0.87		Coa: dull black, powdery to fine pea size fragments										
22	19	41.12	44.16	3.04	1.90		Core loss? - possibly from top of run										40.52
					1.90		Coal: crushed, powdery, wet at top										
23-24	20	44.16	47.20	3.04	3.02		(recovered coal from previous run ?)										
					2.67		Coal: crushed, wet bands, powdery (recovered ~ 1.1m coal from previous run)										
					0.35		Shale: brown, crumbly, broken (core loss from bottom of run?)						#23811 (0.4m)				45.60
Total:				47.20	38.39	Rec.Total / Cored Total x 100 =		81.3%	Recovery		Total Drill Depth:		47.2				

**Michel Creek Coking Coal Project – Michel Head
CanAus**



Corehole Log

Date: **September 13-16 / 2013**

Hole No: **MH13-03C**

Location:		Lat. ____° ____' ____" N Long. ____° ____' ____" W		DLS		Qtr.	Lsd	Sec	Twp	Rge	Mer	
UTM NAD83		Easting: 664973.27		Northing: 5487252.96		Elev: 2159.64						
Cored Interval - Units (m)		Recoverd		Description		Orientation (° TCA)		RQD (%)	Geotechnical Sample ID	Coal Seam	Rec. (%)	ELog Depth (m)
Box	Cutl	From	To	Totl.	Sec.	Totl.	Lithology, Color, Size, Texture, Hardness, Shearing, Contacts, Bedding Angle, Alteration, Wetness, Contamination		No.	Joints	Bedding	
Comments:												
Recore of Top Seam (# 9) - September 16 / 2013												
1	1	10.67	13.71	3.04		3.00	Shale: grey, blocky to chunky, broken fragments possible gradational contact with top of coal					
						0.70						
						0.82	Coal: crushed powdery with some pea - crumbs sized fragments - no visible parting					10.55
2						0.78	Coal: as above, powdery, dry					
						0.40	Shale: brown, crushed with possible gradational contact - dry					12.32
						0.30	Coal: caked, lumpy, possible shaley					12.50
3	2	13.71	16.76	3.05		3.05	Coal: as above, lumpy possible shaley?, some moisture					
						0.30						
						1.25	Coal: black powdery with some fragments - dry, very homogeneous					
						1.50	Coal: dark black lustre, wet steaming, cored not completely pulverized, muddy coating, shiny bits of coal approx. 10% shiny, 90% dull black, more plastic texture - the 10% component - hard and competent					15.70
5	3	16.76	19.81	3.05		2.25	Coal: dark black, very wet, poor recovery in first 0.60m, interval consists of wet black coal slime, recovery increasing to end of box, coal as above w/10-15% shiny vitrinite in 85-90% dull black matrix					
						0.75	(Note: lost recovery coincides with parting in gamma log)					
6						0.15	Coal / Carbonaceous Shale: black lesser amount brown 80:20 coal/carb. Shale - transition zone, core pulverized powder containing some larger fragments that exhibit the black/brown contrast, dry					
						0.80	Shale: brown, fairly homogeneous, pulverized with pea size fragments, dry gradational upper contact					
						0.55	Carbonaceous Shale: dark black, unit cored well, sharp upper contact, homogeneous unit contains some minor coal fragments?					
Total:				9.14		8.30	Rec.Total / Cored Total x 100 =		90.8%	Recovery	Total Drill Depth:	19.81
Comments: Recore of 9 Seam to improve recovery - September 16 / 2013												



Corehole Log

Date: Sept. 17 - 21, 2013

Hole No: MH13-11C

Location:				Lat: ' / ' / " N Long: ' / ' / " W				DLS		Qtr.		Lsd		Sec		Twp		Rge		Mer	
UTM NAD83				Easting: 665063.12				Northing: 5485756.07		Elevation: 2178.42											
Cored Interval - Units (m)				Recoverd				Description				Orientation (° TCA)		RQD (%)		Geotechnical Sample ID		Seam Rec. (%)		Elev Dpht (m)	
Box	Cut	From	To	Totl.	Sec.	Totl.	Lithology, Color, Size, Texture, Hardness, Shearing, Contacts, Bedding Angle, Alteration, Wetness, Contamination				No.	Joints	Bedding								
1	1		3.04	3.04		3.04	Shale: brown, mud with coarse shale fragments; interval wet														
					0.25		Shale: brown to grey, fine grain, interval pulverized / powdery containing up to fist size shale fragments, dry														
					1.27																
2					0.60		Shale?: fine grain muddy slop in box - possible core loss, wet														
					0.92		Shale: brown, muddy / cakey, interval cored well, core covered in a brown mud, interval contains fragments of grey - brown fine grain shaley mudstone, moist				representative sample (2-3m)		# 23812 (1.0m)								
3	2	3.04	4.57	1.53		1.53	Shale: grey to brown, fine grain good core recovery, brown powder covering core, fresh surface fine grain, grey to brown, very homogeneous interval, broken core up to fist size fragments, dry														
					1.53																
4	3	4.57	7.62	3.05		2.05	Lost Core - zero recovery, interval corresponds to zone of lower density in geophysical log														
					1.00																
					0.53		Siltstone to Sandstone: grey, fine grain, homogeneous unit with interbedded brown shale, unit very hard exhibits a conchoidal fracture pattern, contains minor carbonate veinlets, dry														
5					0.70		Siltstone to Sandstone: as above														
					0.82		Sandstone: grey, fine grain, very homogeneous, unit cored very well, bedding evident, interbedded with finer grain silts, minor carbonate veinlets, dry														
6	4	7.62	10.67	3.05		3.05	Sandstone: as above														
					1.52																
7					1.53		Sandstone: as above														
8	5	10.67	13.72	3.05		2.95	Sandstone: as above														
					1.53																
9					1.42		Sandstone: as above														
10	6	13.72	16.77	3.05		2.88	Sandstone: as above														
					1.50																
11					1.38		Sandstone: as above, last 10 cm, mud hosting ss fragments														
12	7	16.77	19.82	3.05		2.20	Sandstone: as above														
					0.70																
					0.77		Lost Core - no recovery														

**Michel Creek Coking Coal Project – Michel Head
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Corehole Log

Date: **Sept. 17 - 21, 2013**

Hole No: **MH13-11C**

Location:		Lat: ° ' " N Long: ° ' " W						DLS		Qtr.	Lsd	Sec	Twp	Rge	Mer	
UTM NAD83		Easting:		665063.12		Northing: 5485756.07		Elevation: 2178.42								
Cored Interval - Units (m)						Recoverd		Description		Orientation (° TCA)		ROD (%)	Geotechnical Samples ID	Coal Samples ID	Seam Rec. (%)	ELog Depth (m)
Box	Out	From	To	Totl.	Sec.	Totl.	Lithology, Color, Size, Texture, Hardness, Shearing, Contacts, Bedding Angle, Alteration, Wetness, Contamination		No.	Joints	Bedding					
13					1.50		Sandstone: as above									
14	8	19.82	22.87	3.05	2.53											
					0.42		Lost Core - no recovery (coal seam??); as per geophysical log - no evidence in the core box									
					1.11		Sandstone: as above, breaking up in plates @ end of box									
15					1.42		Sandstone: as above, "platy" carbonate veinlets perpendicular to bedding planes									
16	9	22.87	25.92	3.05	2.01											
					0.40		Sandstone: as above, broken									
					0.11		Sandstone: mud, dark brown - grey hosting sandstone fragments									
					1.01		Lost Core - no recovery									
17					0.48		Carbonaceous Shale: black, muddy shale hosting thin bands of black lustrous coal - interval moist - shale along with coal fragments hosted in dull black moist / sticky matrix									
					0.38		Shale: very fine grain brown powder with some shale fragments - brown to dark grey									
					0.64		Coal: black, pulverized dry, 10% lustrous coal in 90% dull black pulverized coal									24.46
18	10	25.92	28.97	3.05	0.77											
					0.31		Coal: carbonaceous shale?, black, muddy, sticky - abundant coal fragments within, "wet"									
					0.46		Coal: black, dull, pulverized containing thumb size fragments of dull coal									
					0.76		Lost Core - zero recovery, assume coal									
19					1.52		Lost Core - zero recovery, assume coal									
20	11	28.97	32.02	3.05	2.75											
					1.02		Coal: shaly?, dull, competent approximately 10% fragments up to thumb nail size within dull cakey moist fine grain matrix - note: this interval marks the first run with the smaller diameter core (4.5")									30.40

**Michel Creek Coking Coal Project – Michel Head
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Corehole Log

Date: **Sept. 17 - 21, 2013**

Hole No: **MH13-11C**

Location:		Lat: ° ' " N Long: ° ' " W				DLS		Qtr.	Lsd	Sec	Twp	Rge	Mer			
UTM NAD83		Easting: 665063.12		Northing: 5485756.07		Elevation: 2178.42										
Cored Interval - Units (m)						Recover		Description		Orientation (° TCA)		RQD (%)	Geotechnical Remarks (D)	Coal ID	Seam Rec. (%)	ELog Depth (m)
Box	Cut	From	To	Totl.	Sec.	Totl.	Lithology, Color, Size, Texture, Hardness, Shearing, Contacts, Bedding Angle, Alteration, Wetness, Contamination		No.	Joints	Bedding					
					0.25		Shale: parting, brown, fine grain powder hosting dark grey to black shale fragments - dry									
21					1.33		Shale: parting as above						# 23817 (1.63m)			
					0.15		Carbonaceous Shale: black, muddy matrix hosting shale and very thin coal seams - fragments(?), good contact with above shale							MH13-11C-003 (0.75m)	10 - Mid	100%
22	12	32.02	35.07	3.05	2.62		Carbonaceous Shale: as above, sharp lower contact - wet, minor coal component									32.96
					0.59		Shale: brown, crushed, fine powder, some fragments - dry									
23					0.79		Shale: brown, as above - more rocky - recovered shale fragments - dry						# 23818 (2.45m)			
					0.64		Shale: as above, more rocky fragments									
24	13	35.07	38.12	3.05	2.95		Coal/Carb. Shale: black, muddy - interval compressed up into drill rods after "gas burb", rock coal fragments in shale - entry wet						# 23819 (0.4m)			37.70
					1.10		Coal: black, shiny, pulverized 10-15% shiny vitrinite fragments in dull black matrix - dry									
25					1.45		Coal: as above, slightly more competent at end of run - dry									
26	14	38.12	41.17	3.05	3.05		Coal: as above, top of run a bit sticky - moist									
					1.52		Coal: as above, top of run a bit sticky - moist									
27					1.53		Coal: jet black, shiny, 10-15% vitrinite, homogeneous interval - dry									
28	15	41.17	44.22	3.05	3.05		Coal: as above, sticky at start of run for approx. 30 cm, remainder of interval typical pulverized powder dull black pulverized core with <10% shiny component and last 25 cm a bit more sticky - overall interval dry									
					1.52		Coal: as above, sticky at start of run for approx. 30 cm, remainder of interval typical pulverized powder dull black pulverized core with <10% shiny component and last 25 cm a bit more sticky - overall interval dry									
29					1.06		Coal: as above, interval predominantly sticky - cakey (moist), well distributed shiny vitrinite throughout - 10%, up to pea-size fragments									
					0.47		Carbonaceous Shale: shale fragments hosted within black carbonaceous matrix									
30	16	44.22	47.27	3.05	3.05		Carbonaceous Shale: black, sticky as above unit, very coal rich									
					1.27		Coal: dull black, approx. 10% vitrinite fragments in homogeneous coal powder - dry									

**Michel Creek Coking Coal Project – Michel Head
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Corehole Log

Date: **Sept. 17 - 21, 2013**

Hole No: **MH13-11C**

Location:		Lat. / / ' / ' " N Long. / / ' / ' " W						DLS			Qtr.	Lsd	Sec	Twp	Rge	Mer	
UTM NAD83		Easting: 665063.12 Northing: 5485756.07 Elevation: 2178.42															
Cored Interval - Units (m)						Recover		Description			Orientation (° TCA)			RQD (%)	Grain Size (mm)	Seam Rec. (%)	Log Depth (m)
Box	Cut	From	To	Totl.	Sec.	Totl.	Lithology, Color, Size, Texture, Hardness, Shearing, Contacts, Bedding Angle, Alteration, Wetness, Contamination			No. Joints Bedding							
31					1.53		Coal: dull black, approx 10% vitrinite, homogeneous powder dry								MH13-11C-004 (1.53m)	10-Lower	99%
32	17	47.27	50.32	3.05		3.03	Coal: as above, moist thru first 30 cm, typical homogeneous pulverized core to end of interval, dry										50.92
33					0.48		Carbonaceous Shale: dry								MH13-11C-005 (1.53m)	10-Lower	99%
					0.53		Shale: brown, pulverized with some rock bits, also minor interbedded coal - dry										
					0.50		Carbonaceous Shale: brown to black, more competent albeit broken core, sticky with some shiny coal										51.86
34	18	50.32	53.37	3.05		3.02	Shale: weakly carbonaceous shale, brown with some black coal bands <10cm, pulverized with shale fragments - dry										
					0.87												
					0.47		Shale: light brown, pulverized, minor shale fragments - dry								# 23820 (1.49m)		
					0.15		Carbonaceous Shale: brown to black shale hosting shiny coal fragments										52.94
35					0.29		Coal: black, shiny, pulverized some vitrinite fragments up to 3 cm in size, <10% - dry								MH13-11C-006 (1.53m)	10-Lower	99%
					0.50		Carbonaceous Shale: brown to black, pulverized entry hosts 2 possible coal seams <10 cm thick, coal very shiny - interval is dry										
					0.74		Coal: dull black, pulverized with fragments <5 cm in size, shiny component <5%, interval a bit cakey at end of interval										53.56
36	19	53.37	56.42	3.05		2.94	Coal / Carbonaceous Shale: black, hint of brown, muddy, some coal bits .1 cm in size, shale bits (?), predominantly a cakey dull black matrix - wet										
					0.55												
					0.94		Shale: weakly carbonaceous, dark brown, pulverized, cakey at start of interval rest of unit homogeneous pulverized - dry								# 23821 (2.21m)		
37					0.72		Shale: as above, pulverized some shale - coal(?) fragments <3 cm in size - dry										
					0.73		Shale: dark brown, predominantly fragments, minor pulverized powder - matrix - dry, however, last 0.20 m - sticky										
38	20	56.42	59.47	3.05		2.81	Shale: brown, lighter brown than above, pulverized with 25% rock fragments up to 7 cm - dry										
					1.39												
39					1.42		Shale: as above - dry								# 23822 (1.0m)		
40	21	59.47	62.52	3.05		3.05											
					1.52		Shale: as above - dry								# 23823 (1.0m)		

**Michel Creek Coking Coal Project – Michel Head
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Corehole Log

Date: **Sept. 17 - 21, 2013**

Hole No: **MH13-11C**

Location:		Lat: ° / ' / " N Long: ° / ' / " W										DLS		Qtr.	Lsd	Sec	Twp	Rge	Mer		
UTM NAD83		Easting:		665063.12		Northing:		5485756.07		Elevation:		2178.42									
Cored Interval - Units (m)										Recover		Description		Orientation (° TCA)		ROD (%)	Geotechnical Sample ID	Coal ID	Seam	Seam Rec. (%)	ELog Depth (m)
Box	Cut	From	To	Totl.	Sec.	Totl.	Lithology, Color, Size, Texture, Hardness, Shearing, Contacts, Bedding Angle, Alteration, Wetness, Contamination					No.	Joints	Bedding							
41					1.53		Shale: as above, dry however more rocky 50:50 pulverized material It brown powder: powder covered rock fragments (very fine grey shale)														
42	22	62.52	65.57	3.05		2.75															
					1.20		Shale: brown, muddy - sticky hosting dark very fine grain shale fragments - moist									# 23824 (1.0m)					
					0.32		Siltstone?: fine grain, light brown powder hosting sharp fragments very fine grain dark grey - black rock that has shattered - dry														
43					0.85		Siltstone?: light brown pulverized matrix hosting sharp fragments as above, locally bands of shiny - lustrous mudstone or siltstone - dry														
					0.38		Shale: as above, fragments much duller and softer - dry														
44	23	65.57	68.62	3.05		2.24															
					0.94		Shale: dark brown - grey mud (note: this muddy interval resulted as the first run after a shut down of drill (1 hr) to cool off - the muddy texture was a bit of a surprise considering the very dry nature of several previous runs!!) - dark brown mud - pulverized but now muddy matrix hosting dark grey shale fragments - wet														
45					1.30		Shale: as above - wet									# 23825 (1.0m)					
46	24	68.62	71.67	3.05		2.56															
					1.52		Shale: as above - dry														
47					1.04		Shale: as above, however more fragments than previous run - dry									# 23826 (1.0m)					
48	25	71.67	74.72	3.05		3.05															
					1.10		Carbonaceous Shale: dark brown, completely pulverized dry									# 23827 (0.96m)					
					0.19		Shale: light brown intermixed with pulverized carbonate shale - this too completely pulverized - dry														
					0.23		Carbonaceous Shale: as above - dry												72.56		
49					1.14		Carbonaceous Shale: coal?, dry														
					0.39		Coal: black, shiny and completely pulverized with <10% lustre - dry												74.88		
							TD @ 74.72 m, 3:51 pm September 21, 2013														
Total:		74.72		66.93		Rec. Total / Cored Total x 100 =		88.2%		Recovery		Total Drill Depth:		74.72							
Comments: Note: driller advanced hole another 10' but did not have sufficient casing to ream to this depth - upon pulling back the core barrel became stuck - subsequently what core had been drilled was not recovered. Hole abandoned at 74.72 meters. Driller unable to recover last run. Lost 8 meters of 7" casing in hole.																					