

## ***ASSESSMENT REPORT***

### ***2006 Roman Mountain Exploration Program***

***Owner and Operator: Peace River Coal Inc.***

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Appendices F & G contain coal quality data and remain confidential under the terms of the *Coal Act Regulation*, Section 2(1). They have been removed from the public version.

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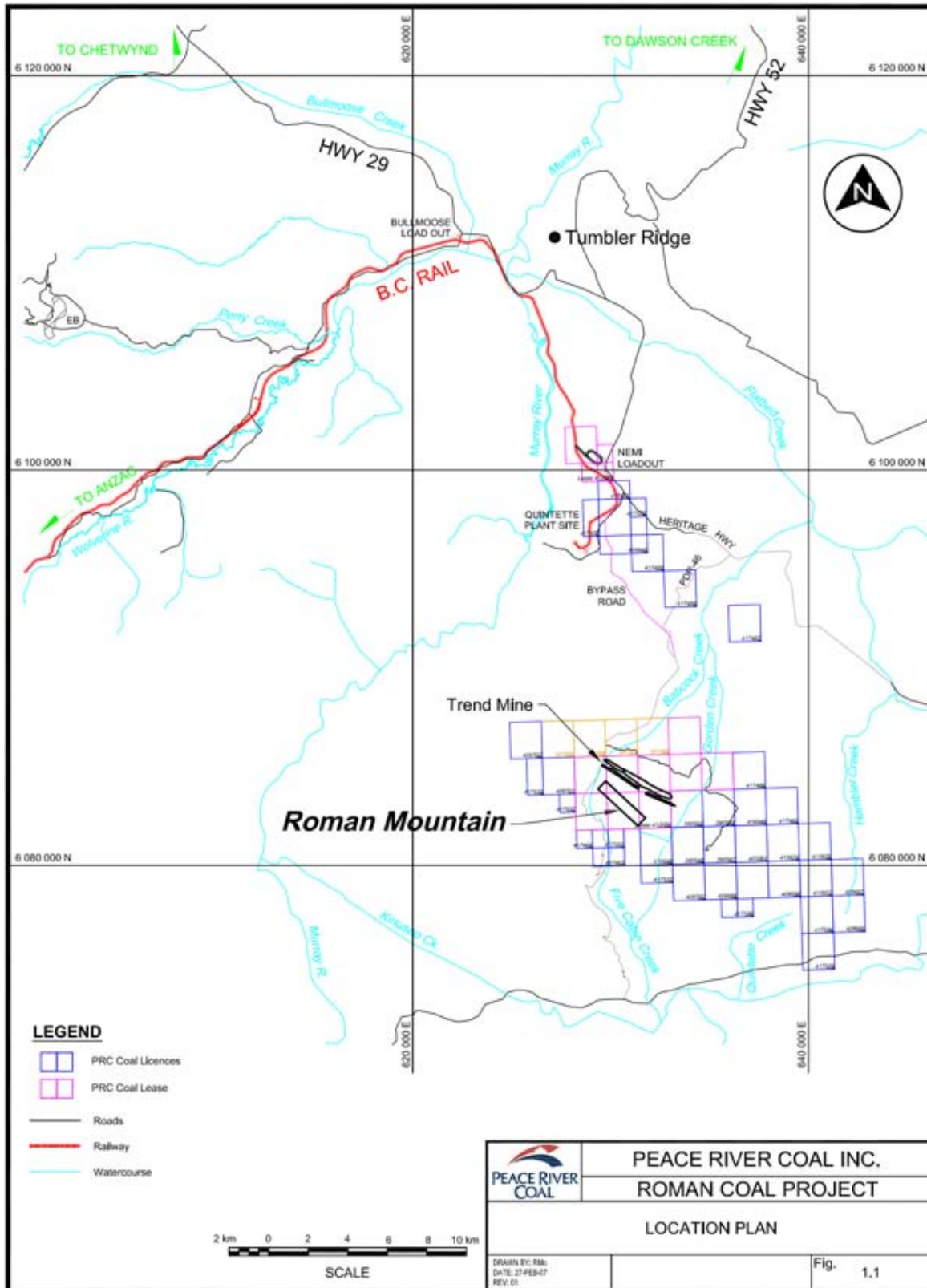
# 1 Introduction

During July – November, 2006 NEMI Northern Energy and Mining Inc. conducted a program of open-hole percussion drilling, diamond drill coring, bulk sampling and trenching on the Roman Mountain - Murray Syncline coal deposit, located approximately 1km south of the Trend Mine ([FIGURE 1.1](#)). Late in 2006 all of NEMI's coal properties became the property of Peace River Coal.

Exploration access was established via existing dormant roads and trails, which were extended to new areas. A new access route from the Trend Mine was constructed. A total of 6561m of drilling was completed, including 4993m in 28 new rotary percussion holes, 391m in 2 diamond drill holes, 846m in 19 bulk sample holes and 331m deepening 7 existing holes from 1975-76 and 2005. Two of the 1975 drill holes (totaling 420m) were reentered, cleaned out and re-logged. Thirty-one trenches were dug using an excavator, exposing the significant coal seams on the property. The program ended when weather conditions made access and equipment operation impractical. All of the drilling and trenching was completed under the direction of the author.

Results of the 2006 work confirm and expand the known location, structure and size of the deposit as reported by Quintette Coal Limited in 1976 and NEMI Northern Energy and Mining Inc. in 2005.

**Figure 1.1 Location Plan**



## **2 Property and Location**

### **2.1 Ownership**

During 2006 negotiations took place between NEMI Northern Energy and Mining Inc., Hillsborough Resources Inc. and Anglo Coal Canada Inc. and resulted in the formation of a new entity, Peace River Coal Limited Partnership, owned by these three partners. Peace River Coal Inc. (PRC) was created to operate the metallurgical coal assets in the Peace River Coalfield of British Columbia, including the Roman Mountain coal deposit. The transition was completed in early December of 2006.

### **2.2 Property**

The Roman Mountain – Murray Syncline coal deposit is located on Coal Lease 417059. All of the exploration work took place on this lease.

Part of the access route along Babcock Creek lies on coal licenses 417463, 417531, and 814027 currently held by PRC.

### **2.3 Location**

This property is located in the Peace River Coalfield of British Columbia approximately 30km south of the town of Tumbler Ridge. This centre of property is in UTM Zone 10, NAD 83 at coordinates 6083500 Northing, 630000 Easting ([FIGURE 1.1](#)).



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## 3 Program Overview

### 3.1 Goals and Parameters

The 2006 exploration program was intended to gather sufficient geological data to support a development decision on the entire Roman Mountain - Murray Syncline coal deposit. Coal seams of the Gates Formation have been extensively investigated to date and Gething Formation coals have been examined to a lesser extent.

This deposit is considered Complex under the guidelines of GSC Paper 88-21, and a data point density sufficient to define an Indicated Resource was used in designing the exploration program. The program was focused on the central and southeast half of the deposit in an attempt to extend the known information gathered during the 2005 exploration program.

### 3.2 History

Extensive work was done on the deposit in the early 1970's by Denison Mines Ltd and Mitsui Mining Co Ltd, two of the senior shareholders of Quintette Coal Ltd. This work included detailed surface geological and topographic mapping and structural interpretation, a fourteen (14) hole percussion drilling program in 1975 and a twelve (12) hole diamond drilling program in 1976. Nine of these holes are located within the area of the 2006 program. In addition to a structural model and seam thickness/tonnage estimates, the 1970's work included extensive coal quality testing, which data PRC has on file. In 2005, NEMI completed an exploration program consisting of twenty-four (24) rotary percussion holes, nineteen (19) of which were geophysically logged, and the re-opening and re-logging of fourteen (14) of the 1975-76 drill holes, three (3) of which were deepened. Spot coring was undertaken in one hole, and nineteen (19) excavator trenches were dug to supplement the drill hole data. All drill hole and trench locations were surveyed using centimeter-level accuracy, base-station corrected, differential GPS equipment.

### 3.3 2006 Drilling/Trenching

In 2006, twenty-eight (28) new rotary percussion drill holes, two (2) diamond drill holes, nineteen (19) bulk sample holes and thirty-one (31) trenches were completed, to confirm and expand on the 2005 and 1975-76 data ([FIGURE 3.3.1](#), [FIGURE 3.3.2](#) and [TABLE 3.3.1](#)). A total of 6561m of drilling was completed, including 4993m in the rotary percussion holes, 391m in the diamond drill holes, 846m in the bulk sample holes and 331m deepening seven (7) existing holes. In addition, two (2) of the 1975 drill holes (totaling 420m) were reentered, cleaned out and re-logged.

All but two of the 2006 drill holes were geophysically logged, poor hole conditions preventing entry in some cases.

To supplement the drill holes and to provide extra data points, thirty-one (31) trenches were dug, logged and reclaimed using an excavator, exposing the significant coal seams on the property ([FIGURE 3.3.1](#), [FIGURE 3.3.2](#) and [TABLE 3.3.2](#)).

All drill collars and trenches were surveyed with base-station corrected, differential GPS equipment. Most points were surveyed to centimeter-level accuracy.

**Figure 3.3.1 Roman Mountain Exploration Plan East (See Pocket)**

**Figure 3.3.2 Roman Mountain Exploration Plan West (See Pocket)**

### **3.4 Access**

During early June, 2006, property access was reestablished via the existing Babcock Creek Road and Roman Mountain south side road. An additional access trail connecting the Trend Mine with Roman Mountain was established during July and August, 2006.

The Babcock Creek Road has gentle grades, a sound roadbed and a temporary, wooden-decked steel bridge which was installed across Johnson Creek in 2005. Several drill sites were established along this road, where it passes through Coal Lease #417059.

The Roman Mountain south side road, established in the 1970's, branches off and crosses Five Cabin Creek at 8.5km from the old Babcock exploration camp (Core Lodge). This rough and occasionally steep (>10% grade) road climbs about 5.5km to the alpine areas of Roman Mountain, reaching an altitude of 1930m. The running surface is firm and fairly rough, with frequent cross-ditches to handle runoff. Beyond this point, grades of 20% are common with occasional pitches exceeding 30%. The shortcomings of this route were apparent in 2005 and plans were made for a shorter, flatter alternative.

This resulted in the establishment of a 2.5km access trail from the Trend Mine to the center of the Roman Mountain project area. The trail connects Roman Mountain with one of the mine's haul roads and was constructed with drainage ditches and culverts and has a stable, rocky roadbed. Gradients were kept below 10% and the highest elevation is 1750m, permitting snow removal and winter access. This trail allows for faster, safer and more efficient access to Roman Mountain for personnel, services and equipment.

The existing (approximately 6 km) network of drill trails was reopened to most of the 1975-76 and 2005 drill sites, and approximately 5.5km of new exploration trail was constructed near the top and on the southeast side of the mountain.

**Table 3.3.1 Drillhole Locations**

Drillhole #	2006 Section	Northing	Easting	Elevation	Hole Azimuth	Hole Plunge	Hole Depth	Seam Intersections from Driller reports
RHTR-2006-1	L 10450	6084396.54	628964.18	1409.00	215	70	91.72	9-11m, 55-70m, 85-88m
RHTR-2006-2	L 13000	6082878.72	631058.79	1982.87	Vertical	90	361.64	66-68.5m, 83-88m, 98-104m, 217-220m, 330-336m, 337-340m, 349-353m
RHTR-2006-3	L 12500	6083215.73	630652.87	1833.22	215	85	238.16	94.5-97.5m, 100.6-103.6m 131-140.2m, 155.1-164m, 199-215m, 226-227m, 228-229m
RHTR-2006-4	L 12500	6083222.90	630654.12	1832.90	35	60	174.88	
RHTR-2006-5	L 12800	6083078.30	630838.58	1901.36	35	60	205.02	30.5-33.5m, 76.2-79.2m, 82.3-86.3m, 112.8-118.9m, 134.1-138.1m, 167.6-182.9m, 201-204m
RHTR-2006-6	L 13000	6082856.28	631090.68	1980.97	35	60	205.10	91-98.5m, 112-120m, 150-160m, 173-175m
RHTR-2006-7	L 13000	6082896.56	631076.57	1983.42	35	75	281.45	125.4-126m, 129-132m, 238-250m, 261-262m
RHTR-2006-8	L 12500	6083220.91	630655.60	1833.11	215	60	237.09	21.3-24.3m, 79.2-85.3m, 126.5-129.5m, 131-131.7m, 150.9-153.9m
RHTR-2006-9	L 12800	6083020.98	630808.94	1924.58	35	80	312.15	104.3-108.3m, 109.5-116m, 116.4-120.5m, 121.5-132.5m, 206-211.6m, 232-235m, 237.5-238m, 296-297m
RHTR-2006-10	L 12800	6083002.31	630799.39	1926.29	Vertical	90	258.12	53-54.6m, 54.9-55.5m, 59-60m, 108-108.5m, 110-118m, 128-128.5m, 235.4-243.5m, 244.4-246m, 253.7-275m
RHTR-2006-11	L 13300	6082738.64	631235.90	1965.10	Vertical	90	333.13	305-309.9m, 311-326m
RHTR-2006-12	L 13300	6082890.15	631205.36	1984.35	215	60	294.50	61.5-63.5m, 67-71m, 122-124m, 130-132m, 143-146m, 207-208m, 209-220m, 258-268m, 269-292m
RHTR-2006-13	L 12500	6083084.99	630554.40	1852.98	215	60	108.10	15.2-20.7m, 29.3-30.5m, 64-68.9m, 70.1-72.5m, 73.2-77.1m, 85.3-88.3m, 92.4-94.5m, 100.6-103.6m
RHTR-2006-14	L 13300	6082354.86	630693.44	1863.99	215	60	58.51	16-17m, 22-23m, 29.5-30m, 39-39.5m, 42-48m, 50.5-55m
RHTR-2006-15	L 13300	6082366.13	630694.90	1867.10	Vertical	90	115.98	36-51m, 52-56.3m, 57.5-59.4m
RHTR-2006-16	L 12250	6083356.07	630344.78	1776.94	35	85	276.57	11-28.5m, 107-116m, 120.5-127m, 168-169m,
RHTR-2006-17	L 12800	6082901.13	630726.64	1904.32	215	60	75.10	21.3-27.4m, 28.9-39.6m, 51.8-57.9m
RHTR-2006-18	L 11900	6083563.99	630047.23	1697.89	215	85	216.97	4.0-5.5m, 12.2-12.7m, 17-23m, 50-55m, 57-60m, 98-101m, 168-182m, 184-200m, 225-226.5m

Drillhole #	2006 Section	Northing	Easting	Elevation	Hole Azimuth	Hole Plunge	Hole Depth	Seam Intersections from Driller reports	
RHTR-2006-19	L 11650	6083659.75	629822.51	1653.73	Vertical	90	170.03	17-22m, 48.9-52m, 59-59.5m, 101.7-112.9m, 113.9-119.8m, 120.8-131m, 145.9-148.1m, 150-152m	
RHTR-2006-20	L 13750	6082392.89	631548.70	1786.37	Vertical	90	125.63	37.2-39.0m, 42.1-48.5m, 61.0-62.5m, 65.5-66.4m, 73.8-74.7m, 77.7-86.9m	
RHTR-2006-21	L 13750	6082377.83	631532.82	1786.94	215	60	93.03	10.7-16.8m, 17.4-29m, 64-67m, 68-69.2m, 77.7-79.2m	
RHTR-2006-22	L 13750	6082406.72	631563.61	1785.65	35	60	73.53	28.7-30.5m, 35-45.7m	
RHTR-2006-23	L 11900	6083508.92	630015.83	1696.15	215	85	158.58	17.8-21m, 28.4-29.5m, 46-47m, 81-89m, 94.5-97.6m, 98-106.2m, 118.5-121.5m, 122.5-127.8m, 131-134 several thin CZs	
RHTR-2006-24	L 12500	6083505.58	630811.70	1744.57	35	60	91.54	52-63m with several rock partings	
RHTR-2006-25	L 13550	6082500.43	631397.88	1865.31	215	80	144.31	10.7-14.6m, 22.9-24.4m, 34.1-39.6m, 91.7-1-102.1m, 103.6-112.8m, 114.3-117.3m, 136.2-137.2m, 140.2-141.7m	
RHTR-2006-26	L 10450	6084378.80	628948.67	1410.28	215	60	90.86	42.5-49m, 49.8-56.3m	
RHTR-2006-27	L 10450	6084422.98	628991.81	1408.46	35	60	55.18	14-22.5m,	
RHTR-2006-28	L 11500	6083856.15	629770.87	1625.67	35	70	146	53.0-54.9m, 74.7-75.6m, 84.1-85.0m, 123.4-131.1m, 134.1-137.2m	
DDHTR-2006-1	L 12500	6083222.31	630656.39	1832.87	215	80	270.24		
DDHTR-2006-2	L 13300	6082830.85	631314.30	2018.81	35	60	121.00	36.9-43.9m,	
QBR-7580 Deepened	L 13000	6082774.07	631013.64	1981.02	Vertical	90	262.13	168.2m, 174.0-174.3m, 231.6-246.9m, 248.4-257.5m, 274.3-275.2m	
RHTR2005-3 Deepened	L 12000	6083494.56	630157.71	1718.62	215	80	198.08	D1: 2.4-4.3m, D2: 8.8-12.2m, E: 41.8-46.3m, F: 84.1-85.9m, 157.0-106.0m, 163.0-165.8m, 172.2-174.7m, 185.9m	
RHTR2005-4 Deepened	L 12000	6083375.78	630082.47	1713.04	215	70	91.84	G: 28-49' / J: 57-75' / K1: 118-123' / K2: 128-129' / K3: 147-153'	
RHTR2005-10 Deepened	L 11750	6083685.50	629960.04	1666.75	Vertical	90	248.57		
<b>UTM Coordinates NAD 83</b>							<b>Total:</b>	<b>6184.74</b>	

Table 3.3.1 Bulk Sample Drill Holes

Drillhole #	2006 Section		Elevation	Hole Azimuth	Hole Plunge	Hole Depth	Seams intersected		Thickness (m)	
	Northing	Easting					Seams	From To		
BSTR2006-1	12420	6083353.87	1758.54	Vertical	90	33.63	F	27.27	29.65	2.38
BSTR2006-2	12423	6083354.53	1758.63	Vertical	90	36.52	F	30.67	33.34	2.67
BSTR2006-3	12113	6083508.86	1718.27	Vertical	90	51.36	OZ	31.3	31.6	0.3
							E1	42.42	45.11	2.69
							E2	45.85	47.39	1.54
BSTR2006-4	12111	6083512.67	1717.98	Vertical	90	45.87	E3	50.4	50.91	0.51
							OZ	20.8	21.4	0.6
							OZ	25.5	26.3	0.8
							OZ	27.05	28.3	1.25
							E1	38.69	41.28	2.59
							E2	42.31	43.75	1.44
							E3	46.09	46.50	0.41
BSTR2006-5	12066	6083516.00	1717.04	Vertical	90	57.71	D1	38.85	40	1.15
							OZ	44.4	44.9	0.5
							D2	48.49	50.55	2.06
							Parting	50.55	51.38	0.83
							D2	51.38	54.79	3.41
BSTR2006-6	12076	6083515.97	1717.19	Vertical	90	49.07	D1	31.37	33.1	1.73
							OZ	36.83	37.49	0.66
							D2	41.26	45.74	4.48
BSTR2006-7	11610	6083714.15	1654.84	Vertical	90	32.91	D1	16.8	17.9	1.1
							OZ	21.78	22.05	0.29
							D2	24	29.66	5.66
BSTR2006-8	11616	6083722.02	1654.54	Vertical	90	39.36	D1	22.07	23.67	1.6
							OZ	30.9	31.23	0.33
							D2	33.35	37.22	3.87
BSTR2006-9	11646	6083657.48	1658.11	Vertical	90	36.54	OZ	6.4	6.65	0.25
							E1	26.97	31.32	2.35
							E2	31.78	32.95	1.19
							E3	35.88	36.57	0.69
BSTR2006-10	11649	6083654.13	1658.28	Vertical	90	34.86	OZ	16.7	17.5	0.8
							E1	27.45	29.68	2.23
							E2	29.84	32.14	2.3
BSTR2006-11	11685	6083618.12	1662.03	Vertical	90	45.15	E1	2.00	5.20	3.20
							E2	5.75	6.20	0.45
							E3	9.70	10.25	0.55
BSTR2006-12	11685	6083615.68	1661.93	Vertical	90	42.39	F	39.3	43.04	3.74
							E2	1.8	3.4	1.6
							E3	5.8	6.45	0.65
							F	35.77	39.38	3.61
BSTR2006-13	12032	6083560.47	1696.94	Vertical	90	37.25	OZ	21.3	21.7	0.4
BSTR2006-14	12369	6083412.99	1743.36	Vertical	90	71.52	F	31.48	35.09	3.61
							G	51.65	56.97	5.32
							I	57.18	59.16	1.98
							J	65.65	72.4	6.75
BSTR2006-15	11978	6083385.74	1713.40	Vertical	90	41.59	G	22.48	26.6	4.12
							I	27.3	27.87	0.57
							J	30.29	42.86	12.57
BSTR2006-16	11970	6083396.36	1713.22	Vertical	90	55.80	G	31.75	34.57	2.82
							J	37.33	43.57	6.24
							J2	47.03	53.48	6.45
BSTR2006-17	12393	6083416.37	1744.43	Vertical	90	43.90	G	24.45	28.73	4.28
BSTR2006-18	11442	6083966.07	1594.62	Vertical	90	42.94	J	31.86	41.4	9.54
							G	27.32	30.8	3.48
							I	30.9	31.35	0.45
							J	31.75	42.88	10.93
BSTR2006-19	11444	6083962.92	1594.62	Vertical	90	47.88	G	27.95	31.5	3.55
							J	33.29	45.05	11.76

**Table 3.3.2 Trench Locations**

Trench #	Section	Northing	Easting	Elevation	Seam	Limb of Syncline	Dipping	Azimuth of Seam		Plunge of Seam	Seam Top (m)	Seam Bottom (m)	True Width	Comments
								Normal	Normal					
TR2006-1 D seam	L 12500	6083125.328	630554.771	1859.560	D2	Southwest	307/57°NE	217	33	33	8.58	11.98	3.40	
TR2006-1 E seam	"	6083100.440	630546.103	1850.295	E1	Southwest	288/56°N	198	34	34	1.00	3.05	2.05	
TR2006-1 F seam	"	6083084.496	630531.181	1841.932	F	Southwest	330/74°N	240	16	16	2.00	5.52	3.52	
TR2006-1 G seam	"	6083036.976	630530.124	1836.309	G	Southwest	306/60°N	218	30	30	1.00	2.84	1.84	
TR2006-1 J seam	"	6083031.290	630526.201	1835.708	J	Southwest	318/59°N	228	32	32	7.96	12.38	4.42	
TR2006-2 D seam	L 12800	6082966.857	630767.431	1917.666	D2	Southwest	310/60°N	220	30	30	7.83	11.12	3.29	
TR2006-2 E seam	"	6082943.444	630750.147	1911.781	E1	Southwest	316/66°N	226	24	24	1.00	3.85	2.85	
TR2006-2 F seam	"	6082925.389	630743.501	1908.305	F	Southwest	300/50°N	210	40	40	2.00	5.13	3.13	
TR2006-2 J seam	"	6082874.150	630718.077	1894.972	J	Southwest	312/64°N	222	26	26	?	3.42	>3.42	G seam and HW J seam under road, not exposed
TR2006-3 D1 seam	L 13000	6082778.392	630987.958	1975.753	D1	Southwest	308/60°N	218	30	30	3.10	4.16	1.06	
TR2006-3 D2 seam	"	6082776.417	630996.652	1974.542	D2	Southwest	306/60°N	218	30	30	5.76	7.99	2.23	
TR2006-3 E seam	"	6082756.739	630974.686	1964.267	E1	Southwest	318/62°N	228	28	28	1.00	3.12	2.12	
TR2006-3 F seam	"	6082734.335	630971.780	1960.170	F	Southwest	312/7°N	222	approx 30	approx 30	2.00	3.70	1.70	
TR2006-3 G seam	"	6082702.124	630952.278	1942.835	G	Southwest	308/54°N	218	36	36	0.00	3.17	3.17	
TR2006-3 J seam	"	Not surveyed			J	Southwest	314/50°N	224	40	40	5.41	10.79	6.38	J seam under road, logged then backfilled for access
TR2006-4 D2 seam	L 13300	6082672.743	631153.328	1970.278	D2	Southwest	309/54°N	219	36	36	5.78	8.14	2.36	
TR2006-4 E seam	"	6082627.110	631177.470	1947.577	E1	Southwest	308/62°N	218	28	28	1.07	3.52	2.45	
TR2006-4 F seam	"	6082608.580	631172.202	1937.719	F	Southwest	303/55°N	213	35	35	2.00	4.87	2.87	
TR2006-4 G seam	"	6082559.432	631165.655	1917.662	G	Southwest	308/50°N	218	40	40	1.00	2.23	1.23	
TR2006-4 J seam	"	6082557.567	631165.211	1917.007	J	Southwest	312/62°N	222	28	28	3.00	6.71	3.71	
TR2006-5 D2 seam	L 12500	6083236.431	630728.753	1848.151	D2	Northeast	322/50°S	52	40	40	1.00	6.63	5.63	
TR2006-5 E seam	"	6083278.798	630691.858	1811.313	E1	Northeast	310/60°S	40	30	30	2.45	4.97	2.52	
TR2006-5 F seam	"	6083296.164	630702.84	1802.675	F	Northeast	318/55°S	48	35	35	1.49	4.10	2.61	
TR2006-5 G seam	"	6083324.369	630725.629	1790.395	G	Northeast	304/64°S	34	26	26	1.09	4.07	2.98	
TR2006-5 J seam	"	6083320.874	630751.748	1795.746	J	Northeast	310/59°S	40	31	31	0.50	6.70	6.20	
TR2006-6 D2 seam	L 12800	6083149.317	630907.806	1919.562	D2	Northeast	318/7°S	48	approx 30	approx 30	1.00	4.77	3.77	
TR2006-6 E seam	"	6083193.452	630879.157	1885.241	E1	Northeast	308/42°S	38	48	48	1.02	3.38	2.36	
TR2006-6 F seam	"	6083209.315	630891.122	1875.761	F	Northeast	306/50°S	38	40	40	1.00	3.61	2.61	
TR2006-6 G seam	"	6083229.981	630912.801	1863.442	G	Northeast	312/60°N	42	30	30	1.00	4.80	3.80	
TR2006-6 J seam	"	6083236.371	630917.25	1860.728	J	Northeast	310/55°N	40	35	35	9.35	15.85	6.50	
TR2006-7 D2 seam	L 13000	6083006.672	631163.467	1995.818	D2	Northeast	308/70°S	38	20	20	1.00	2.59	1.59	
TR2006-7 E seam	"	6083025.434	631180.011	1986.543	E1	Northeast	300/66°S	30	24	24	1.00	3.26	2.26	
TR2006-7 F seam	"	631179.149	6083050.384	1975.449	F	Northeast	305/63°S	35	27	27	1.48	3.63	2.15	

Trench #	Section	Northing	Easting	Elevation	Seam	Limb of Syncline	Bedding	Azimuth of Seam Normal	Plunge of Seam Normal	Seam Top (m)	Seam Bottom (m)	True Width	Comments
TR2006-7 G seam	-	6083078.833	631204.308	1963.919	G	Northeast	312/51°S	42	39	2.00	4.42	2.42	
TR2006-7 J seam	-	6083084.143	631208.167	1961.573	J	Northeast	313/52°S	43	38	7.58	13.14	5.56	
TR2006-8 D2 seam	L 13300	6082866.136	631333.12	2012.764	D2	Northeast	304/48°S	34	42	5.50	9.83	3.33	
TR2006-8 E seam	-	6082891.507	631341.59	1995.24	E1	Northeast	314/60°S	44	30	1.00	1.94	0.94	
TR2006-8 F seam	-	6082905.751	631354.623	1983.406	F	Northeast	314/63°S	44	27	2.00	4.42	2.42	
TR2006-8 G seam	-	6082927.554	631381.162	1985.764	G	Northeast	324/52°S	54	38	1.12	4.48	3.36	
TR2006-8 J seam	-	6082930.443	631384.888	1983.394	J	Northeast	317/63°S	47	27	6.71	12.18	5.47	
TR2006-9 D2 seam	L 12000	6083564.784	630207.887	1701.967	D2	Northeast	324/67°S	54	26	1.00	4.64	3.64	
TR2006-9 E seam	-	6083581.758	630222.773	1696.643	E1	Northeast	312/60°S	42	30	1.00	3.01	2.01	
TR2006-10 F seam	L 12250	6083285.066	630290.608	1770.835	F	Southwest	322/58°N	232	32	1.00	3.84	2.84	
TR2006-10 G seam	L 12250	6083238.378	630257.091	1759.413	G	Southwest	301/52°N	211	38	1.13	3.30	2.17	
TR2006-10 J seam	-	6083231.023	630251.632	1757.499	J	Southwest	300/50°N	210	34	10.02	13.79	3.77	
TR2006-11 G seam	L 11500	6083885.594	629656.544	1602.821	G	Southwest	308/50°N	218	34	1.00	6.06	5.06	
TR2006-11 J seam	-	6083977.181	629650.516	1601.102	J	Southwest	305/74°N	215	16	7.10	10.38	3.28	
TR2006-11 K seam	-	6083968.434	629646.688	1599.406	K1-2	Southwest	317/64°N	227	26	21.38	23.28	1.90	
TR2006-12 D1 seam	L 11250	6083394.372	629616.184	1581.272	D1	Southwest	315/75°N	225	15	2.00	2.36	0.36	
TR2006-12 E1 seam	-	6083319.604	629615.148	1585.842	E1	Southwest	310/57°N	220	33	1.76	4.42	2.66	
TR2006-12 L seam	-	6084131.077	629630.650	1516.684	L	Northeast	304/74°S	34	16	1.00	2.90	1.90	
TR2006-13 G seam	L 11050	6084125.612	629472.978	1474.215	G	Northeast	315/62°S	45	28	1.00	5.50	4.50	
TR2006-13 J seam	-	Not surveyed			J	Northeast	294/69°S	24	24	7.04	11.59	4.55	
TR2006-14A Upper Gething	L 13500	6082292.720	631104.478	1840.973	9 Seams	Southwest	300/64°N	210	26	2.00	48.50	46.50	Four seams, fault repeated
TR2006-14B Middle Gething	-	6082184.290	631111.135	1834.100	M1	Southwest	311/77°N	221	13	1.23	2.85	1.62	
TR2006-14C Lower Gething	-	Not surveyed			M2	Southwest	311/77°N	221	13	4.32	4.91	0.59	
TR2006-14C Lower Gething	-	6082144.045	631111.251	1828.138	CZ	Southwest	309/67°N	219	23	2.27	2.41	0.14	
TR2006-15 Upper Gething	L 12500	6083560.711	630832.910	1742.200	Bird	Southwest	304/50°S	34	40	1.00	7.40	6.40	
TR2006-15 Upper Gething	-	6083573.086	630827.825	1742.913	G T-1	Northeast	304/50°S	34	40	8.50	10.60	2.10	
TR2006-16 Upper Gething	L 13300	6082387.576	630907.998	1862.426	5 Seams	Southwest	300/80°N	210	10	2.00	21.76	19.76	Three seams, fault repeated
TR2006-17 Upper Gething	L 12950	6082495.605	630710.031	1876.108	Bird	Southwest	300/82°N	210	8	2.00	3.91	1.91	
TR2006-17 Upper Gething	-	6082493.020	630708.765	1876.717	G T-1	Southwest	318/70°N	228	20	4.95	8.26	3.31	
TR2006-17 Upper Gething	-	6082489.620	630706.530	1876.844	G T-2	Southwest	318/70°N	228	20	9.18	11.95	2.77	
TR2006-18 Upper Gething	L 13700	6082182.797	631261.502	1794.509	5 Seams	Southwest	304/85°N	214	5	2.39	6.74	4.35	Four seams, fault repeated
TR2006-18 Upper Gething	L 13300	6083167.45	631488.15	1913.266	Bird	Northeast	301/52°S	31	38	2.40	10.24	7.84	
TR2006-18 Upper Gething	-	6083175.157	631492.11	1915.686	G T-1	Northeast	301/52°S	31	38	11.05	13.64	2.59	

Trench #	Section	Northing	Easting	Elevation	Seam	Limb of Syncline	Bedding	Azimuth of Seam Normal	Plunge of Seam Normal	Seam Top (m)	Seam Bottom (m)	True Width	Comments
TR2006-20 E seam	L 13550	6082640.636	631477.91	1883.768	E1	Northwest	320/ 50°S	50	40	1.00	2.33	1.33	
TR2006-20 F seam	"	6082854.707	631487.261	1880.13	F	Northwest	315/ 58°S	45	32	1.00	3.84	2.84	
TR2006-20 G seam	"	6082896.134	631534.706	1877.525	G	Northwest	303/ 58°S	33	32	1.00	5.45	4.45	
TR2006-20 J seam	"	6082702.126	631538.064	1876.866	J	Northwest	309/ 60°S	39	30	8.00	15.44	7.44	
TR2006-21 G seam	L 13750	6082488.712	631609.019	1792.617	G	Northwest	327/ 40°S	57	50	1.00	5.46	4.46	
TR2006-21 J seam	"	6082489.734	631601.34	1790.797	J	Northwest	327/ 40°S	57	50	9.03	18.43	9.40	
TR2006-22 G seam	L 13850	6082353.593	631619.894	1752.733	G	Syncline hing	230/ 22°W	140	68	1.00	6.27	7.27	
TR2006-22 J seam	"	6082348.351	631629.924	1747.473	J	Syncline hing	230/ 100°W	140	80	10.69	17.96	7.27	
TR2006-23 G/J seam	L 13750	6082361.091	631526.465	1783.888	G	Southwest	276/ 37°N	186	53	1.12	8.94	7.82	
TR2006-23 G/J seam	"	6082352.741	631526.465	1782.008	J	Southwest	288/ 36°N	198	54	10.10	18.74	8.64	
TR2006-23 G/J seam	"	6082345.522	631526.902	1781.208	J Repeat 1	Southwest	310/ 78°N	220	12	23.97	25.70	1.73	
TR2006-23 G/J seam	"	6082338.153	631526.553	1780.494	J Repeat 2	Southwest	310/ 71°N	220	19	30.64	43.26	12.62	
TR2006-24 F seam	L 13650	6082514.719	631506.271	1831.67	F	Near hinge	324/ 84°S	234	6	1.00	1.75	0.75	
TR2006-25 E seam	L 13550	6082550.583	631347.221	1895.258	E1	Southwest	300/ 62°N	210	26	1.00	2.86	1.86	
TR2006-25 F seam	"	6082497.898	631393.79	1863.29	F	Southwest	300/ 87°N	210	3	20.26	22.72	2.46	
TR2006-25 G/J seam	"	6082430.07	631361.006	1849.372	G	Southwest	300/ 70°N	210	20	1.00	4.24	3.24	
TR2006-25 G/J seam	"	6082425.505	631356.886	1847.869	J	Southwest	312/ 78°N	222	14	7.61	14.83	7.22	
TR2006-25 G/J seam	"	6082410.781	631346.922	1845.839	K1	Southwest	312/ 78°N	222	14	24.48	25.56	1.08	
TR2006-28 Upper Gething	L 12300	6083666.216	630670.476	1711.084	Bird	Northwest	300/ 70°S	30	20	1.00	11.67	10.67	
TR2006-28 Upper Gething	"	6083673.29	630683.645	1720.055	G-T-1	Northwest	300/ 70°S	30	20	13.97	17.73	3.76	
TR2006-27 G/J seam	L 11400	6083748.118	629577.437	1579.056	G	Southwest	316/ 48°N	228	42	1.00	6.93	5.93	
TR2006-27 G/J seam	"	6083741.759	629574.932	1576.748	J	Southwest	306/ 62°N	216	28	1.00	6.93	5.93	
TR2006-28 G/J seam	L 13700	6082391.291	631439.729	1817.955	G	Southwest	304/ 69°N	214	21	2.00	7.40	5.40	
TR2006-28 G/J seam	"	6082383.675	631437.577	1815.228	J	Southwest	304/ 69°N	214	21	10.06	17.44	7.38	
TR2006-28 G/J seam	"	6082376.835	631433.965	1813.548	J Repeat 1	Southwest	304/ 69°N	214	21	17.94	25.56	7.62	
TR2006-28 G/J seam	"	6082360.654	631428.096	1813.728	K1	Southwest	312/ 80°N	222	10	34.94	36.12	1.18	
TR2006-29 G/J seam	L 13800	6082344.974	631584.756	1764.065	G	Southwest	280/ 68°N	190	22	2.00	7.26	5.26	
TR2006-29 G/J seam	"	6082336.643	631583.359	1761.665	J	Southwest	300/ 44°N	210	46	9.23	17.93	8.70	
TR2006-29 G/J seam	"	6082278.768	631590.34	1761.845	J Repeat 1	Southwest	040/ 18°S	310	72	27.93	61.63	33.70	Folded over - true thickness indeterminate in the sturdier coal
TR2006-30 L seam	L 12250	6083166.138	630207.458	1750.004	L	Southwest	308/ 69°N	219	21	1.00	4.35	3.35	
TR2006-31 Upper Gething	L 12500	6083757.378	630528.187	1674.754	Bird	Northwest	124/ 68°SW	34	32	6.48	12.93	6.45	
TR2006-31 Upper Gething	"	6083767.559	630535.943	1684.041	G-T-1	Northwest	133/ 68°SW	43	22	15.36	17.71	2.35	





## **4 2006 Exploration Work**

### **4.1 Drilling**

A total of 6561m of drilling was completed over four months, including 4993m in 28 new rotary percussion holes, 391m in 2 diamond drill holes, 846m in 19 bulk sample holes and 331m deepening 7 existing holes. Most of these investigated the Gates Formation coals; three holes targeted the Gething Formation.

Three drilling contractors were used during the course of the program: Carbon Mountain Drilling Ltd., Geotech Drilling Services Ltd. and Derex Drilling Services Ltd.

Carbon Mountain Drilling mobilized to the site on July 20 and completed 3413m of rotary percussion drilling in 96 days, averaging 35.6m/day.

Geotech Drilling Services Ltd. mobilized to the site on August 1 and completed 2180m of drilling (including 1910m of rotary percussion and 270m of diamond drilling) in 93 days, averaging 23.44m/day.

Carbon Mountain Drilling mobilized a bulk sampling drill to the site on August 24 and completed 846m of rotary percussion drilling and coring in 74 days, averaging 11.44m/day.

Derex Drilling Services Ltd. mobilized to the site on September 15 and completed 121m of diamond drilling in 49 days, averaging 2.47m/day.

Two 1975 holes (QBD-7513 and QBD-7514) totaling 420m were reentered, cleaned out and re-logged.

All 2006 drill holes were cased, usually to 3-9m depth, with 6-12" steel casing. The casing was generally left in the holes and the holes left open. In the case of bulk sample holes the 10-12" casing was removed and the holes back-filled for safety reasons.

Drilling continued into November, occasionally hampered by weather conditions and equipment breakdowns. Snowfall in September through November caused access problems, both because of the steep gradients of the higher-elevation trails and because of snow drifts that form rapidly under windy conditions in the alpine areas. The continuing heavy snowfall eventually forced an end to activities and the contractors removed all of their equipment from the site by November 5.

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Most rotary percussion drill holes intersected all of their targets and were successfully logged. The exceptions were:

- Hole RHTR-2006-10 was drilled to 295m but immediately backfilled with pulverized coal to 258m, and geophysical logs only reached this depth.
- Hole RHTR-2006-13 encountered muddy conditions that prevented geophysical tools from reaching the hole bottom. Subsequently, through-rod logs were obtained.
- Hole RHTR-2006-21 became blocked about half-way down, at the 46.53m point, resulting in partial open-hole logs. A through-rod gamma-gamma log reached hole bottom.
- Hole RHTR-2006-26 collapsed below the casing and attempts to re-enter and extend the casing resulted in the drill rods and hammer getting stuck in the hole. The equipment was not recovered and only a through-rod gamma-gamma log was obtained.
- Hole RHTR-2006-28 became blocked at the 19m point of a 146m deep hole. Minimal geophysical data was obtained.
- Hole RHTR-2005-10 was reentered, cleaned-out and deepened but immediately collapsed at the bottom of the casing. Logging was not attempted; 2005 logs are on hand.
- Hole QBD-7513 was reentered and cleaned out. Through-rod geophysical logs were taken to only 192m, above G seam, when the rods backfilled with fine coal (full depth was 220m). The open hole blocked and a partial open-hole log was obtained to 53 m.
- Hole QBD 7514 was reentered, cleaned-out and attempts were made to deepen the hole but the drillers encountered a blockage at the bottom of the hole which they were not able to drill through. After taking a through-rod geophysical log, the rods were pulled out and the hole caved in.

The first diamond drill hole (DDHTR-2006-1) was completed and successfully intersected the target seams. Core recovery was good in the rock sections and the upper coal seams; however, recovery fell to 69% in F seam, 33% in G seam and 38% in J seam. In the second diamond drill hole (DDHTR-2006-2) core recovery was very good, nearly 100% in D, E and F seams. Drilling progress was very slow due to equipment problems, water supply difficulties, weather conditions and permafrost. In late October drilling was stopped and the hole abandoned midway between F and G seams, failing to reach its targeted depth below L seam. The hole quickly blocked with ice and geophysical logging was impossible.

All 19 bulk sample drill holes intersected the target seams. Rotary percussion techniques were utilized to the estimated hanging wall contact points with the target seams, after which coring equipment was employed through the coal-bearing section. Both six-inch and nine-inch diameter coring was performed and coal seam recovery was consistently good (>79%) in the 13 holes

sampling the upper seams (D, E and F). Six holes targeted the lower seams (G and J) and had variable recovery (47% to 100%) with nine of the thirteen seams sampled having recoveries of less than 68%. All core was immediately logged geologically on site and the coal seams sampled. Geophysical logging was successful, although the lower 3m of BSTR-2006-18 sloughed-in and the J-seam footwall data was not obtained.

## 4.2 Trenching

An extensive series of excavator trenches were opened to expose all of the major coal seams. Locations of these trenches are given in [TABLE 3.3.2](#) and the coordinates refer in all cases to a point on the hanging wall of each seam.

Most trenches were situated to supplement the Gates Formation drilling data on the cross-sections. Some trenches were situated to investigate more complicated geological structure, especially in the southeast end of the syncline where seam repetition was encountered (trenches TR-2006-22, 23, 25, 28 and 29) and on the southwest limb of the syncline where faulting was suspected (trenches TR-2006-11, 27 and 30). A further eight trenches examined the Gething Formation coals (trenches TR-2006-14, 15, 16, 17, 18, 19, 26 and 31).

Whenever possible, the overburden was stripped in a straight path approximately 1.5-2 meters wide over the entire length of the trench, oriented perpendicular to the strike of the coal seams. Four shorter, narrower trenches were dug by hand where the excavator could not gain access. Detailed geological logging was completed in most trenches, with the true seam thicknesses measured to centimeter accuracy where possible. Some trenches encountered permafrost, running water and unstable ground, which made detailed measurements and examinations difficult. In all, thirty-one (31) numbered trenches were dug, and sixty-six (66) geological logs of the major coal-bearing sections completed. The trenches exposed and measured 104 occurrences of the major coal seams; an additional 102 minor coal seams and other geological features were also recorded.

Whenever possible, points on the hanging wall and footwall contacts of all seams were surveyed to centimeter-level accuracy. In cases where unstable ground conditions existed, a representative point above the hanging-wall contact of the uppermost seam was marked and surveyed and coordinates of lower contacts were calculated from trench log measurements. A total of 254 points on the major coal seams were surveyed.

All trenches were backfilled, recontoured and seeded after measurement, except for those exposed in access trail cuts that form part of water management ditches.

Trench logs are included in this report in [APPENDIX C](#).

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### 4.3 Geophysical Logging

As a matter of course, all drill holes were geophysically logged, except as noted in section 4.1. The geophysical contractor was Century Corporation of Canada.

All open holes were logged with a gamma/neutron/deviation tool (either tool #9055, #9056, or #9067) and with a gamma/density/resistivity/caliper tool (tool #9239). Some holes were also logged with a dipmeter/deviation tool (#9411) though high footage cost and slow logging rate limited its use. Through-rod logs used a gamma-gamma tool (#9068). Century has provided .las and .tif files of all geophysical logs.

Attempts were made to log each hole immediately after drilling; however, many holes could not be logged until one to several days had passed, due to weather conditions, access difficulties and logger availability. Hole stability was an issue in many of the holes, where rock sloughing and ice build-up prevented the wire-line logging tools from accessing the entire hole depths. Occasionally, holes that had sloughed or iced-up had to be re-opened and additional attempts made to log the holes. Attempts to re-open holes were not always successful and through-rod gamma-gamma logs were all that were obtained for RHTR-2006-13, RHTR-2006-26, QBD-7513, QBD 7514, and RHTR-2005-10. Two holes were iced-up and/or sloughed, and because of access difficulties and weather conditions were not re-opened for through-rod logs (RHTR-2006-28 and DDHTR-2006-2).

In general the quality of the data was found to be good. However, on some occasions faulty deviation data had to be corrected. An unusual deviation recorded for hole RHTR-2006-10 could not be checked because of logger unavailability, shortage of deviation tools and the hole icing up. Questionable deviation measurements from 2005 were not checked in 2006. In view of the ongoing questions about the reliability of the drillhole deviation data it would be desirable to re-log a number of 2005 and 2006 holes using a different methodology.

All of the 2006 geophysical logs are included in [APPENDIX D](#).

### 4.4 Surveying

During the program all of the new drill holes and trenches were surveyed by Canyon Contracting Ltd. using Ashtech and Sokkia (Locus and Stratus models) static, wireless, base-station corrected, post-processed differential GPS to achieve sub-centimeter level accuracy. The new exploration trails were surveyed with PRC's backpack GPS using Solo Field software, which is generally accurate to  $\pm 2$  meters.

The locations of drillholes and trenches are shown in [TABLE 3.3.1](#) and [TABLE 3.3.2](#).

## 4.5 Sampling and Analysis

### 4.5.1 Bulk Sampling

A total of 225 bulk drill core samples were taken from 19 drill holes on selected coal seams during August - November ([APPENDIX E](#)) for the purpose of coal quality analysis. The bulk sample drilling was performed by Carbon Mountain Drilling.

Four 6-inch holes were drilled on each of D, E, and F seams; two holes on each limb of the syncline. An extra 6-inch hole was drilled on F seam on the north limb (BSTR-2006-13) due to poor F seam recovery in BSTR-2006-1. Four holes (two 6-inch holes and two 9-inch holes) were drilled on G/J seams on the north limb and two holes (one 6-inch hole and one 9-inch hole) were drilled on G/J seams on the south limb. All holes were planned to intersect the top contacts of the seams at a depth of approximately 30m, to ensure that only non-oxidized coal was sampled. Because of structural complications the south limb G/J seams did not core well and recovery was poor. To reach the required bulk sample quantity, more holes were drilled on the north limb G/J seams where core recovery was significantly better.

Geological examination of the bulk sample core took place immediately after being removed from the drilling apparatus. Detailed logs included measurements of depth, recovery, loss, seam and parting widths, geological features, lithological descriptions and sample information. Complete geological logs are included in [APPENDIX B](#).

All major seams (D2, E1, F, G and J) were sampled in their entirety with a 10cm hanging wall and a 10cm footwall sample taken separately. In most cases, coal and seam partings were sampled separately except where the partings were small (<10cm), in which cases the partings were included in the seam samples. This sampling technique was an attempt to simulate expected mining conditions.

Less coal was required for the D, E and F seam bulk samples compared to the G and J samples because these seams each constitute only a small fraction (<10%) of the overall coal resource.

Recovery of core was nearly 100% in seams D and E and over 93% in F seam, with the exception of hole BSTR-2006-1 where F seam recovery was 79% and the core diameter reduced due to ground conditions. The recovery in G and J seams varied, and extra holes were needed to supply a representative quantity of coal. Hole BSTR-2006-14 was drilled on the north limb of the syncline and recovered 100% of G seam but the hole was abandoned when less than 50% of J seam was recovered. A second hole, BSTR-2006-17 was drilled in this location, which recovered only 56% of G seam and 78% of J seam. Holes BSTR-2006-15 and BSTR-2006-16 were drilled on the south limb of the syncline. Because of structurally-produced shearing, coal seam recovery approximated only 50% in all of the five seams encountered. Another bulk sample drill location on the south limb of the syncline was selected to attempt to improve G and J seam recovery but weather conditions prevented access to that site. A second location on the north limb of the syncline, which offered better access, was selected for holes BSTR-2006-18 and BSTR-2006-19.

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Recovery of G seam was only approximately 50% in these holes, but recovery of J seam was approximately 90%.

All of the bulk samples were sent to GWIL Industries' Birtley Laboratories in Calgary, Alberta for analysis. Individual seam component samples were air dried, crushed to -19mm and combined where seam recovery was acceptable. The resulting composite samples were screened, washed and proximate analysis including ash content, sulphur and free swelling index (FSI) was performed. Analytical results are shown in [APPENDIX F](#).

#### 4.5.2 Diamond Drill Core Sampling

Two diamond drill holes were drilled during the program, near the central and peak areas of Roman Mountain. The drill core was geologically logged and a total of 83 core samples were taken from the major coal seams during November ([APPENDIX G](#)) for coal quality analysis.

Hole DDHTR-2006-1 was drilled by Geotech Drilling Services in August and intersected all the significant Gates Formation coal seams located on the property. Core recovery was variable as the drillers encountered problems with both the rock structure and their equipment. The coal seams were sampled in their entirety and 10 centimeter hanging wall and footwall samples were also collected on each seam. D2 seam recovery was 86%, E1 seam recovery was 80%, F seam recovery was 69%, G seam recovery was 33% and J seam recovery was 38%.

Hole DDHTR-2006-2 was drilled by Derex Drilling Services during September and October and intersected D, E and F seams, but failed to reach the targeted G and J seams as the drilling was halted due to weather conditions. Core recovery was excellent and close to 100% of each coal seam was recovered and sampled. Again, ten centimeter hanging wall and footwall samples were collected on each seam.

Detailed geological logs and sampling were completed on the drill core during November, 2006 and the core boxes (containing the core remaining after sampling) were stored on a rack at the Trend Mine site. All of the samples were packaged and shipped to Loring Laboratories Ltd. in Calgary during November, 2006. Individual component samples were crushed to -12mm and proximate analysis including ash content, sulphur, specific gravity and free swelling index (FSI) was performed. Where seam recovery was acceptable, individual seam component samples were combined, screened and washed. Proximate analysis, Sulphur and FSI tests were then performed. Core logs are included in [APPENDIX B](#). Analytical results are shown in [APPENDIX H](#); analytical process guidelines are shown in [APPENDIX I](#).

## 5 Geology

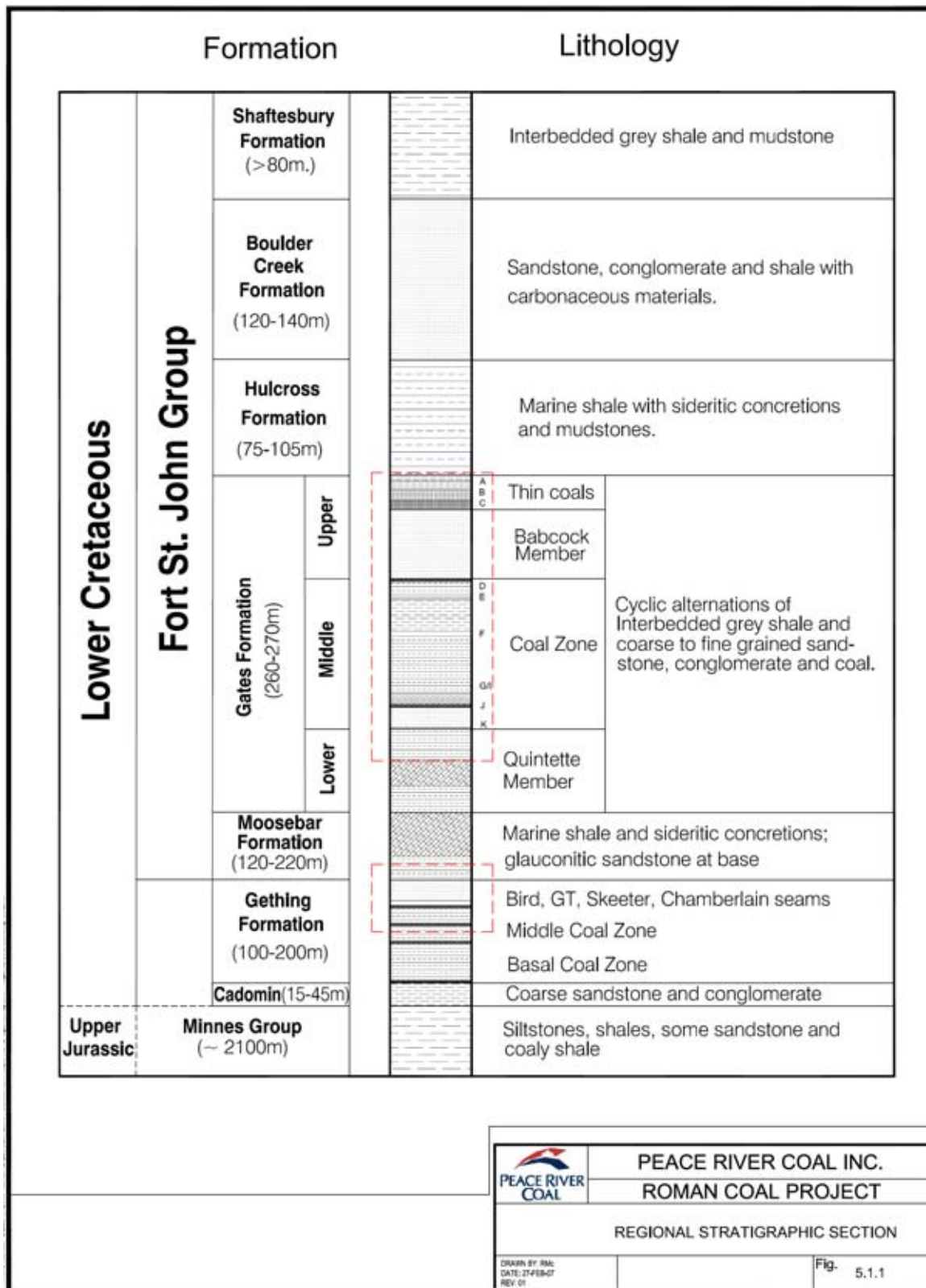
### 5.1 Regional Setting

In the Trend Mine/Roman Mountain area the stratigraphy is confined to the Lower Cretaceous section ([FIGURE 5.1.1](#) – Regional Stratigraphic Section). Significant units are:

- **Nikanassin Formation (Minnes Group):** Mainly argillaceous with occasional siltstones, fine sandstones and minor coal. To date economic coal seams have not been found. This unit straddles the Jurassic-Cretaceous boundary at Roman Mountain.
- **Cadomin Formation (Bullhead Group):** Mainly coarse grained, well cemented conglomerates. Its thickness ranges from 15-45m. The Cadomin is commonly highly resistant to weathering and is a widespread regional stratigraphic marker. This unit sits disconformably on the Minnes Group; however, all of the formations of the Bullhead and Fort St. John Groups are conformable.
- **Gething Formation (Bullhead Group):** Consists of alternating units of fine to coarse grained sandstone, carbonaceous shale, coal, siltstone and conglomerate. Three to four significant coal seams occur in the upper part of this formation, and form part of the Trend Project reserves. Historically, the Gething Formation coals have not been mined in this area. The upper contact is a thin bed of pebble conglomerate overlain by distinctive glauconitic, marine sandstones that form the base of the overlying Moosebar Formation. Its thickness ranges from 120-200m.
- **Moosebar Formation (Fort St. John Group):** consists mainly of homogeneous dark grey shales and siltstones, often sideritic, this marine unit grades upward into similar, continental shales, forming the base of the overlying Gates Formation. The lower half of this unit is the most recessive-weathering rock in the area and commonly forms linear gullies and stream channels. Its thickness ranges from 120-215m.
- **Gates Formation (Fort St. John Group):** The major coal-bearing unit of the study area, consisting of siltstone, shale, sandstone, conglomerate and several cycles of coal deposition. It is generally subdivided into four sub-units, termed the Upper Gates member, the Babcock member, the Middle Gates member and the Quintette member. The Quintette member, ~ 80-90m thick, consists primarily of massive, fine grained siltstones and sandstones. The Middle Gates, ~90-100m thick, consists of a series of fining-upward sequences that culminate in coal development, and hosts all of the economic coal seams of the Gates Formation. The Babcock Member is a channel deposit sequence of massive sandstones, conglomeratic sandstones and chert pebble/granule conglomerates, averaging 20-30m thick. The Upper Gates member is a 30-40m series of shales and sandy shales with several thin, discontinuous coal seams. A very thin bed of ferruginous chert pebbles marks the top of the unit. Overall thickness of the Gates Formation is 270-300m.



Figure 5.1.1 Regional Stratigraphic Section



- **Hulcross Formation (Fort St. John Group):** A marine unit consisting of medium-dark grey shales with thin interbeds of siltstone and very fine sandstone. Its thickness ranges from 75-105m.
- **Boulder Creek Formation (Fort St. John Group):** Made up of alternating sequences of shale and med-fine greywacke, overlain by fine conglomerate and conglomeratic sandstone. Some thin, discontinuous coal seams exist but are not considered of economic interest. Its thickness averages ~130m.
- **Shaftesbury Formation (Fort St. John Group):** The uppermost unit found in the area, consisting of dark grey-black marine shales with minor siltstone, with a thickness of >80m.

## 5.2 Geological Overview

The 2006 drilling took place principally within the Gates formation exposed on Roman Mountain, in the Murray Syncline. Rocks of the Upper Gates section, above the Babcock Member, are the youngest found in the project area – no Hulcross or younger formations have been found here. Older rocks of the underlying Moosebar, Gething, Cadomin and Nikanassin Formations are present on both limbs of the syncline, and the Lower Moosebar and Upper Gething were intersected in 8 trenches and 3 rotary percussion drill holes during the 2006 program.

The 2006 drilling tested the Gates formation section from the Upper Gates through the K seam section. Five major coal seams, termed D, E, F, G and J, are present and several subsidiary seams have been identified. Seam nomenclature is consistent with that of Trend and other mines in the area with D seam being the uppermost major seam, sitting just below the Babcock member, and J seam the lowest major seam present. The 2006 work permitted average thicknesses of the Gates coal seams to be calculated over the entire deposit ([TABLE 5.2.1](#)).

Coal seams of the Gething formation were mapped on Roman Mountain in 1975 and are visible in outcrop on both limbs of the syncline. Quintette Coal Ltd. (August, 1976) estimated the Upper Gething coal seam (termed the Bird Seam), to have an average true thickness of 4.6m on Roman Mountain. Coal-EX Consultants (Perry, 2004) reported the seams of the Bird/GT zone of the Gething Formation to have an average aggregate true thickness of 9.07m on the Trend South block, approximately 1km northeast of the 2006 Roman Mountain project area.

Eight trenches and 3 rotary percussion drill holes were completed in 2006 to test the thickness, structure and extent of the coal seams of the Upper Gething formation on Roman Mountain. The

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uppermost (Bird) seam is found throughout the project area only a few centimeters below the contact with the overlying Moosebar Fm. On the northwest limb of the syncline one seam, termed GT-1, lies 1-2.5m below the Bird seam. On the southwest limb three seams termed GT-1, GT-2 and GT-3 were found, separated from the Bird seam and each other by interseams of 0.5-3m.

On the north limb, the trenches revealed an average thickness of 7.8m for the Bird seam, and 2.7m for the GT1 seam. On the south limb, 9 separate seams were revealed in trench TR-2006-14 with an aggregate total of 39.3m. The lower 6 seams appear to represent the double repetition of the Bird, GT1 and GT2 seams, as the nearby trenches TR-2006-16, Tr-2006-17 and TR-2006-18 revealed fewer coal seams, but of similar thickness. The Bird seam averaged 3.5m, the GT1 seam averaged 2.9m and the GT2 seam averaged 2.1m in the four trenches on the south limb. Hole RHTR-2006-24, on the north limb, intersected 1.9m of Bird seam coal, 2.1m of GT1 seam and 1.32m of GT2 seam. Hole RHTR-2006-14, on the south limb, intersected the Bird, GT1, GT2 and GT3 seams, which were repeated further down the hole. Hole RHTR-2006-15, also on the south limb, intersected the Bird, GT1, GT2 and GT3 seams as well; however with no repetition. On average for these two holes, the Bird seam averaged 4.2m, the GT1 seam averaged 4.9m, the GT2 seam averaged 3.7m and the GT3 seam averaged 0.82m.

Overburden cover is variable, ranging from a few cm thick in the center of the syncline to 3-4 meters on the northeast limb. The northwest end of the project area is a gently sloping bench sitting about 50m above Babcock Creek. This area experiences high groundwater discharge and is open and swampy. It is typically covered by 5-6m of till, mantled by up to 1m of peaty, organic soil. Thick overburden was confirmed in the northwest end of the syncline during 2006, where the excavator was unsuccessful in reaching bedrock after approximately 5m in depth. Drilling on the Babcock Road at the northwest end of the syncline also revealed an overburden thickness of up to 12m.

Permafrost was prevalent above the 1850m elevation, and occurred at lower elevation on cooler, north-facing slopes. It was found in the majority of drillholes in 2006 and in many trenches. The base of permafrost reaches depths of 200m or more under the highest parts of Roman Mountain.

The accurate surface geological mapping from the 1970's and the new data gathered in 2005 assisted in the placement of drill holes in 2006 and coal seams could be trenched in several meters of overburden with confidence.

**Table 5.2.1 Roman Mountain Seam Data**

<b>Formation</b>	<b>Seam</b>	<b>2006 Mean Seam Thickness (m)</b>	<b>2006 Mean Seam Thickness - Major Seams (m)</b>	<b>Quintette 1976 Mean Seam Thickness (m)</b>
Gates	<b>D1</b>	1.1		1.26
Gates	<b>D2</b>	2.94	2.94	2.98
Gates	<b>D3</b>	0.58		
Gates	<b>E1</b>	2.01	2.01	2.04
Gates	<b>E2</b>	0.73		
Gates	<b>E3</b>	0.37		
Gates	<b>F</b>	1.91	1.91	2.08
Gates	<b>G</b>	3.44	3.44	2.96
Gates	<b>I</b>	0.7		
Gates	<b>J</b>	5.56	5.56	4.87
Gates	<b>K1</b>	0.99		
Gates	<b>K2</b>	0.83		
Gates	<b>K3</b>	0.73		
<b>Sum of major Gates seams</b>			<b>16.62</b>	<b>16.19</b>
Gething, SW	<b>Bird</b>	3.35	3.35	4.6
Gething, SW	<b>GT-1</b>	3.44	3.44	
Gething, SW	<b>GT-2</b>	2.9	2.90	
Gething, SW	<b>GT-3</b>	0.69		
<b>Sum of major Gething seams SW</b>			<b>9.69</b>	
Gething, NE	<b>Bird</b>	4.45	6.37	4.6
Gething, NE	<b>GT-1</b>	3.35	2.04	
<b>Sum of major Gething seams NE</b>			<b>8.41</b>	

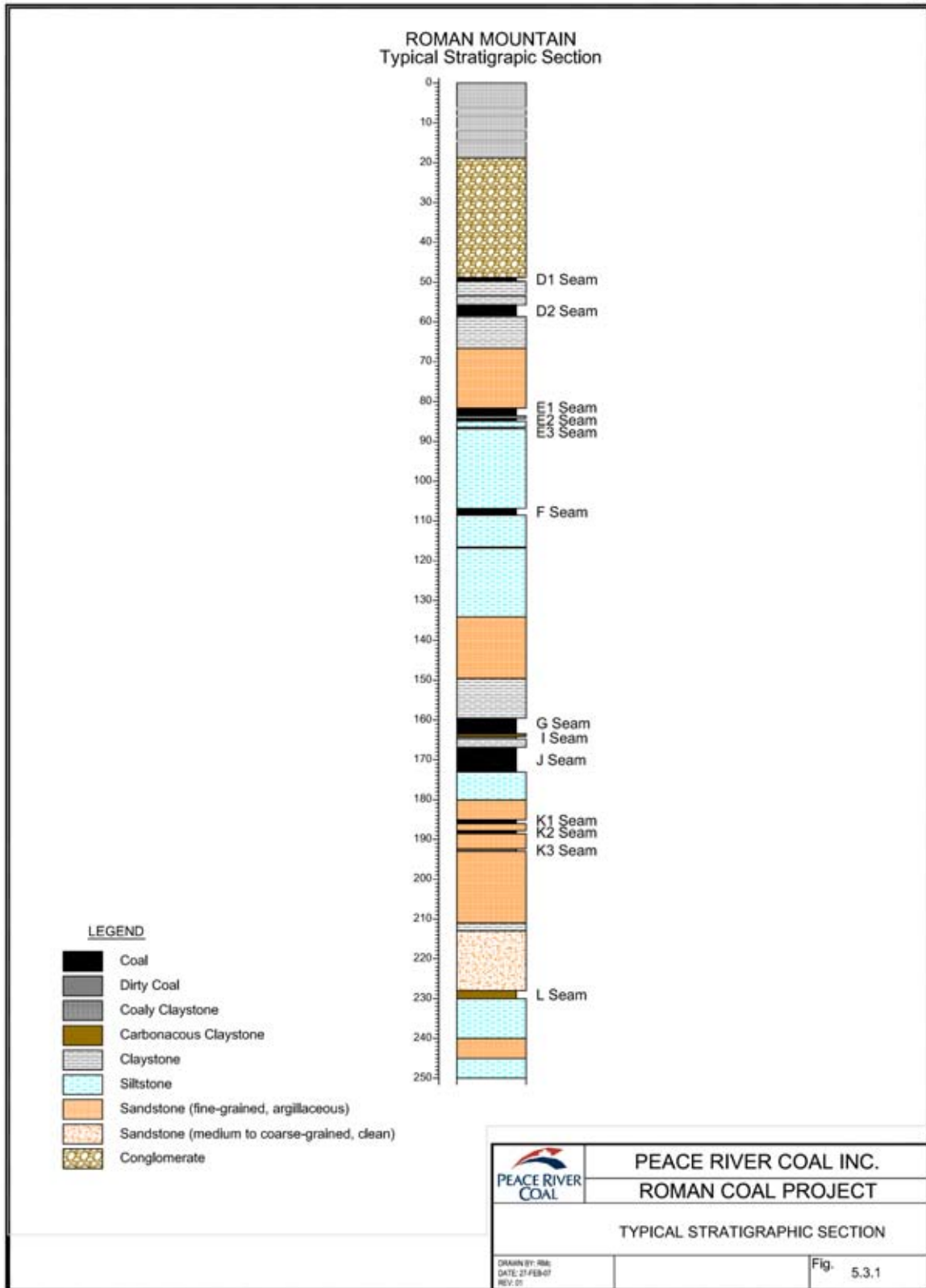
## 5.3 Stratigraphy

A generalized stratigraphic section for the project area is presented in [FIGURE 5.3.1](#) and [TABLE 5.3.1](#). Major units and coal seams correspond closely with those found at the nearby Trend Mine.

This report will not attempt to repeat the geological details presented in earlier sources; rather it concentrates on new findings. Some stratigraphic details noted in 2006 include:

- On Roman Mountain the Upper Gates formation is predominantly fine-grained sandstone. These contain occasional carbonaceous zones and thin claystone beds. The base of the upper Gates is a 5-6m claystone containing 3-4 carbonaceous sections, one of which immediately overlies the D conglomerate.
- The “D conglomerate” is distinctly finer grained than at Trend. Its upper half is almost entirely sandstone and the lower half primarily well-sorted granule conglomerate and sandstone. No sulfides were seen in core from this unit.
- The characteristic D seam section identified in 1975 persists throughout the southeast half of the deposit. D2 seam average thickness remains constant.
- Similarly, the characteristic E seam section is found throughout the southeast half of the deposit. Variations in parting number and thickness sometimes make identification of E2 seam difficult.
- F seam appears to thin slightly to the southeast but retains economic thickness throughout the area.
- A prominent, cliff-forming sandstone overlies G seam on the southeast end of the deposit. This unit is less well defined in other areas, often grading into siltstone.
- The characteristic K seam section was found in most locations. However, thickening and merging of K1 and K2 seams is indicated in holes RHTR-2005-3, RHTR2006-19 and 23, suggesting that some zones near the center of the deposit may be of economic interest.
- Variations in interseam thicknesses are controlled by structure, notably thickening in the fold hinge; no major stratigraphic trends have been identified.
- Gething Formation coals seams are concentrated in a well-defined part of the stratigraphic section but exhibit substantial variability within that zone. Thicknesses of seams and interseams can vary over short distances and individual seams exhibit less lateral continuity than those of the Gates Formation. Nevertheless, the coal-bearing section appears to host aggregate thicknesses of 6-8m of coal throughout the project area, independent of the number or stratigraphic position of the seams involved.

**Figure 5.3.1 Typical Stratigraphic Section**



**Table 5.3.1 Roman Mountain General Stratigraphy**

Unit	True Thickness (m)	Comments
<b>Gates Formation</b>		
Upper Gates	Variable	Primarily sandstone with minor claystone, at least 4 minor coal seams present.
D Conglomerate	Variable, >10m	Fine pebble to granule conglomerate, massive. More sandstone than conglomerate in the study area, unit fines and thins to the north.
D1 Seam	0.93	Usually clean coal. Always found on the lower contact of the D conglomerate.
D1/D2 Interseam	6	A ~50cm thick carbonaceous zone several meters above D2 is ubiquitous.
D2 Seam	3.17	Usually a claystone parting 30-40cm below roof. Lower 1m sometimes dirty, gradational.
D2/E1 Interseam	23	Lower half mostly fine sandstone; 2-3m rusty marker sandstone at bottom ends ~2m above E1.
E1 Seam	2.2	Commonly includes 2-3 claystone partings of 10-15cm; lowest is a high-gamma tonstein marker horizon.
E1/E2 Parting	0.61	Claystone.
E2 Seam	0.73	Usually clean coal.
E2/E3 Parting	1.5	Typically sandy siltstone, often displays plant roots at top.
E3 Seam	0.37	Commonly a thin, dirty carbonaceous zone.
E3/F Interseam	20	Siltstone.
F Seam	1.88	Clean coal, sometimes with a thin boney zone on top. Seam thins and disappears to the northwest. A second carbonaceous zone appears there, ~8m above this horizon.
F/G Interseam	51	Often includes 10-15m hard, silty sandstone zone in lower half. Lowest 10m fines downward into soft, increasingly carbonaceous claystone.
G Seam	4	Commonly has a 20cm rider over 10-20cm carb claystone. Top half has higher clay content than most other seams. Lower 1m often gradational.
G/I parting	0.65	Sometimes disappears; usually carbonaceous claystone.
I Seam	0.7	Usually dirty coal.
I/J Interseam	2	Claystone; top contact gradational, bottom contact sharp.
J seam	6.01	May have a 20cm rider over 20cm stoney coal. Some boney zones in top half, clean and very uniform in lower half. Bottom contact sharp.
J/K1 Interseam	12	Lower half generally sandstone or sandy siltstone.
K1 Seam	0.99	Usually clean coal.
K1/K2 Parting	1.7	Commonly ~1m.
K2 Seam	0.83	Usually clean coal.
K2/K3 Interseam	3.8	Includes 1m sandstone in center.
K3 Seam	0.6	Usually a thin, dirty carbonaceous zone.

Unit	True Thickness (m)	Comments
Sub-K Siltstone	20	Fairly uniform.
Footwall Clay	~1m	A widespread, unconsolidated ashfall clay horizon.
Lower Gates Sandstone	15	Fairly uniform, not obvious in outcrop.
L seam	~ 2m	A carbonaceous zone seen in QBD-7659 and TR2006- 12 and 30.
Lower Gates	20-25m	Siltstone/claystone.
<b>Moosebar Formation</b>		Contact gradational, not apparent in logs, no surface exposures.
Upper Moosebar Fm	50-70m	Siltstone/claystone, uniform, massive.
Lower Moosebar Fm	50-70m	Siltstone/claystone with prominent, rusty-weathering siderite concretionary lenses. Soft and recessive weathering.
Basal Sandstone	1-2m	Olive-green weathering, glauconitic sandstone.
<b>Gething Formation</b>		
Bird Seam	4.55	Typically clean coal throughout, occasionally carbonaceous claystone partings appear.
Bird-GT-1 Interseam	1-2m	Claystone.
GT-1 Seam	3.35	Top and bottom sections clean, middle 1/3 often dirty.
GT-1/GT-2 Interseam	1-2m	Claystone.
GT-2 Seam	3.35	Typically clean coal.
GT-2/GT-3 Interseam	1-3m	Claystone.
GT-3 Seam	1.0	Typically dirty coal and carbonaceous claystone.
Base, Upper Gething	5-10m	Siltstone/claystone.
Mid-Gething	50	Sandstone, silver-grey weathering.
Mid-Gething Coaly Zone	5	Found on southwest limb, claystone and carbonaceous claystone, coal plies to 90cm.
Lower Gething	40	Sandstone.
Lower Gething	3	Siltstone, claystone and carbonaceous claystone.
<b>Cadomin Fm</b>	25	Massive chert pebble conglomerate. Resistant weathering .



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- A significant carbonaceous zone in the middle Gething formation was mapped in 1975-6 over a 1km strike length on the southeast limb of the syncline. In trench TR2006-14B it consisted of two coal seams, 1.62 and 0.59m in thickness, separated by 1.47m of waste. Further work is needed to assess its economic potential. Other carbonaceous zones in the middle to lower Gething appear to have less thickness and continuity, and are unlikely to have economic potential on Roman Mountain.

## 5.4 Structure

The 2006 drilling confirmed the 2005 structural model of Roman Mountain. Notable additions to the structural interpretation include:

- Structural thickening of the G-J interseam is particularly pronounced on the southeast end of the deposit.
- At least three major faults are present in the southeast end of the deposit, all steeply-dipping, as shown on cross-sections L12,800 to L13,890. These are:
  - An axial-plane fault bearing 310/80°S has developed where brittle sandstone and conglomerate has reached the point of failure, and is traceable in outcrop in the center of the syncline over 700-800m of strike length. It is a reverse fault with the south block lifted ~10m relative to the north, and in more ductile strata is probably expressed as a fold.
  - A near-vertical fault bearing 310/80-90°N on the southwest limb of the syncline was mapped in 1975-76 and exposed in trench TR2006-25-F in 2006, where it is expressed in an intensely sheared zone 5-6m in thickness. It is a reverse fault, with the north block lifted ~30m relative to the south.
  - A thrust fault exposed in trenches TR2006-23, 28 and 29 and drillholes RHTR2006-20 and 21 has created shearing over a 1-5m interval, at a low angle to bedding. A throw of 75-100m is indicated, producing repetition of J seam on the southwest side of the syncline hinge. The extension of this zone may be responsible for thinning of G seam in trench TR2006-4G/J.
- Steep bedding on the southwest limb of the syncline near drillhole QBD-7662 was part of the 1976 model; 2006 drilling and trenching confirmed the positions of G and J seams in this area and reinforce this interpretation.
- Two of the faults identified in the 2005 drilling have been found in drillholes RHTR2006-18, 19 and 23 and in drillholes BSTR2006-15 and 16. These low-angle faults are shown on cross-sections L 11,500 to L 12,250, and are about 45° flatter than the faults found in the southeast end of the structure. Exactly how these interrelate is unclear at

- present, as no prominent faults have so far been identified between L 12,250 and L 12,800.
- A fault tentatively identified in 2005 was found in trenches TR2006-11 and 27, and is shown on cross-sections L 11,250 to L 12,500.
  - Drilling on the northwest end of the project area, on the Babcock Creek road, has identified a new area of structural complication which present data cannot resolve. An accidental discovery of a 1970's era drill casing and subsequent clean-out and logging revealed that drillhole QBR-7570 was not drilled higher on the slope where previously assumed, but much nearer to Babcock Creek. This means that coal seams are found below the assumed bottom of J seam, apparently due to near-vertical reverse faulting on the southwest limb of the syncline. Unfortunately, of the seven holes drilled near this end of the project area, only three have been successfully geophysically logged. The area will need additional drilling in future to resolve the structural questions, but appears to contain significantly more coal than previously thought.
  - Faulting and folding of the upper Gething coal-bearing sequence was found in trenches TR2006-14A, 16, 17 and 18 and in drillholes RHTR2006-14 and 15. Repetition of four coal seams has resulted in an aggregate coal seam thickness of ~35m in trench TR2006-14A. This is interpreted as an isoclinal minor syncline/anticline pair on the southwest limb of the Murray syncline which has failed along the anticlinal plane. This produced thrusting at a shallow angle to bedding with a maximum throw of ~50m. This structure was found over a strike length of ~500m but is not expected to extend beyond the area trenched.

Overall dimensions of the Roman Mountain coal deposit have been found to be close to earlier estimates but additional data has permitted PRC to refine the structural model. This structural interpretation is presented as 18 cross-sections, in Appendix J.

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## 6 Coal Resources

Historic coal resource estimates conducted by Denison Mines Limited for the Roman Mountain Gates Formation coals totaled 27.63 Mt of raw coal (Gormley, December 1976). An estimated stripping ratio of 7.37:1 had also been published by Quintette, based on an earlier resource estimate of 22.1 Mt of raw, unoxidized coal.

A recent estimate of resources has been made by Coal-Ex Consulting (Perry, 2002). Based on a range of historical reserve estimations, Perry considered the Gates Formation of Roman Mountain to contain a resource of 26.2 Mt of coal, classified as inferred, in-place and of “immediate interest”. Coal-Ex did not publish an estimated stripping ratio.

The 2005 and 2006 project areas encompass all of the coal deposit used in historical estimates. These programs employed a density and distribution of data points sufficient to define an Indicated Resource for Complex Coal Deposit in accordance with the standards of GSC Paper 88-21 (Hughes et al, 1989). The results of these programs support earlier resource estimates, but no NI 43-101 standard estimates have been made incorporating the 2005/2006 exploration data.

Gething Formation coals have not been sufficiently investigated to permit estimation of coal resources. Present work confirms the presence of coal seams of significant thickness on both limbs of the Murray syncline, at all sites examined.

## 7 Reclamation

PRC policy is to keep exploration disturbance to the smallest practical area. Natural soil profiles are maintained whenever possible to enhance natural regeneration and to control erosion-causing runoff. Drill and trench sites are recontoured and revegetated as soon as work is completed and all exploration areas are left in a clean, safe and stable condition at the end of each field season.

At the completion of the 2005 drilling program, the disturbed area was estimated to be 12.09ha, less than originally expected, and the reclamation security submitted for the 2005 program was sufficient for the anticipated disturbance in 2006.

During the 2006 program, new disturbance was 5.08ha, including 3.96 ha for roads and trails, 0.49 ha for drill pads and 0.63ha for trenches.

Primary access in 2006 was via a new trail constructed from the Trend mine, as described in Section 3.4. During construction, woody debris was buried to the greatest extent possible, and shoulder areas were contoured to a naturalistic form. Disturbed areas were seeded and fertilized with the same mixtures used at the Trend Mine. Drainage is controlled by ditches and culverts, with some supplemental cross-ditching.

All trenches were backfilled and the sites recontoured before the end of the field season, and seeded and fertilized as described above. In addition, all of the sites disturbed by trenching in 2005 were seeded and fertilized as well; these had been recontoured in 2005.

New drill trails and pads were constructed on the upper parts of Roman Mountain, all in alpine areas. Most of these were not recontoured in 2006, as it is expected that many will be reused in 2007. However, a section of trail located on steeper terrain between L 12,500 and L 12,800 was recontoured to pre-existing form, seeded and fertilized. In addition, all areas of disturbed soil on the shoulders of the drill trails and pads were recontoured, seeded and fertilized, leaving a ~3m running surface in useable condition.

Reclamation in 2006 totaled 1.66ha, including 0.79ha for roads and trails and 0.87ha for trenches and drill pads.

In addition, the entire network of trails and pads were seeded and fertilized to stabilize soils and prevent erosion. Steeper trails were temporarily deactivated with cross-ditches where possible, but heavy snowfall buried some parts of the trail network before this could be completed. The bridge at Johnson Creek remains in place on temporary abutments, to serve PRC's Southridge Project. The culverts at the Babcock Creek road crossing of 5-Cabin Creek were not removed, as a 1.2m snowfall in November closed off all access to the area.

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## 8 Expenditures

A field budget prepared in June, 2006 estimated 2006 drilling program expenses at \$1,730,000.00. The subsequent decision to focus on the deeper drill targets of the highest parts of Roman Mountain resulted in an increased budget, and actual expenditures for this work during the period July through December, 2006 were \$2,671,391.23.

Major budget items included:

- Drilling - \$1,646,424.31
- Heavy equipment - \$402,376.00
- Technical services - \$178,417.00
- Personnel - \$176,948.00
- Assorted costs - \$104,183.26

Details are presented in [APPENDIX K](#).

## 9 Conclusions

The 2006 Roman Mountain exploration program accomplished most of its goals. New property access was established and the network of drill trails extended.

With minor exceptions, at the end of the program the entire Gates Formation coal deposit of Roman Mountain had been drilled and trenched at a data point spacing consistent with assurance criteria for an indicated resource of complex geology under GSC Paper 88-21. Twenty-eight new drill holes and 31 trenches were completed, confirming the deposit size and refining the structural and stratigraphic interpretation. Modern estimates of coal tonnage were produced that are consistent with historical resource quantities.

The coal deposits of the Gething Formation were examined in eight trenches and three percussion drill holes and the presence of economic thicknesses of coal confirmed. This work was not extensive enough to define a coal resource under GSC 88-21, so additional drilling/trenching will be required to accomplish this. The results to date are encouraging.

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Ronald F. McIntyre, P. Geo  
Peace River Coal  
March 30, 2007

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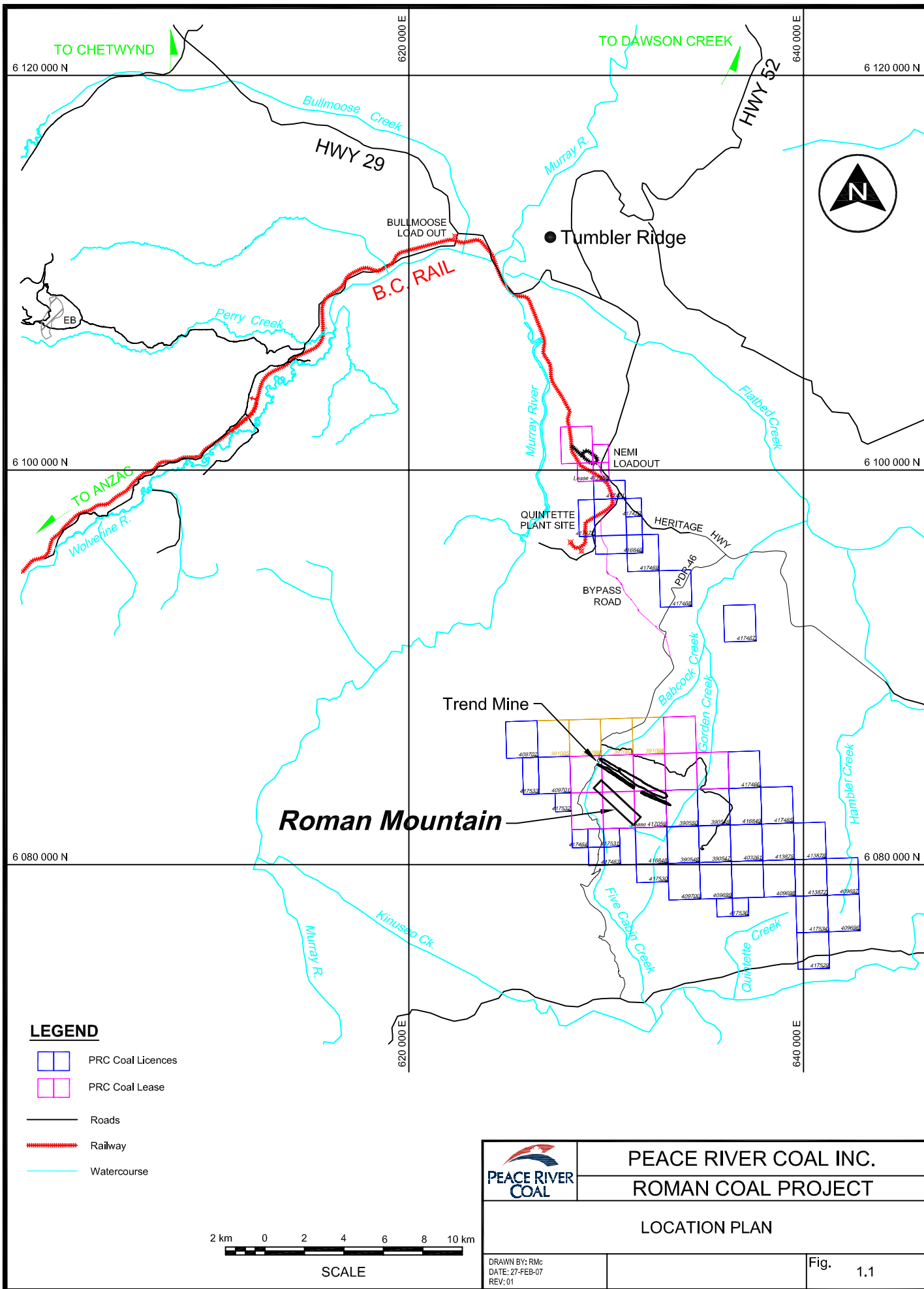
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**LEGEND**

- PRC Coal Licences
- PRC Coal Lease
- Roads
- Railway
- Watercourse

2 km 0 2 4 6 8 10 km

SCALE



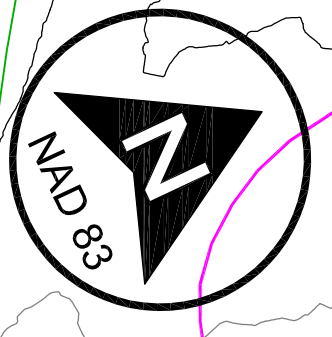
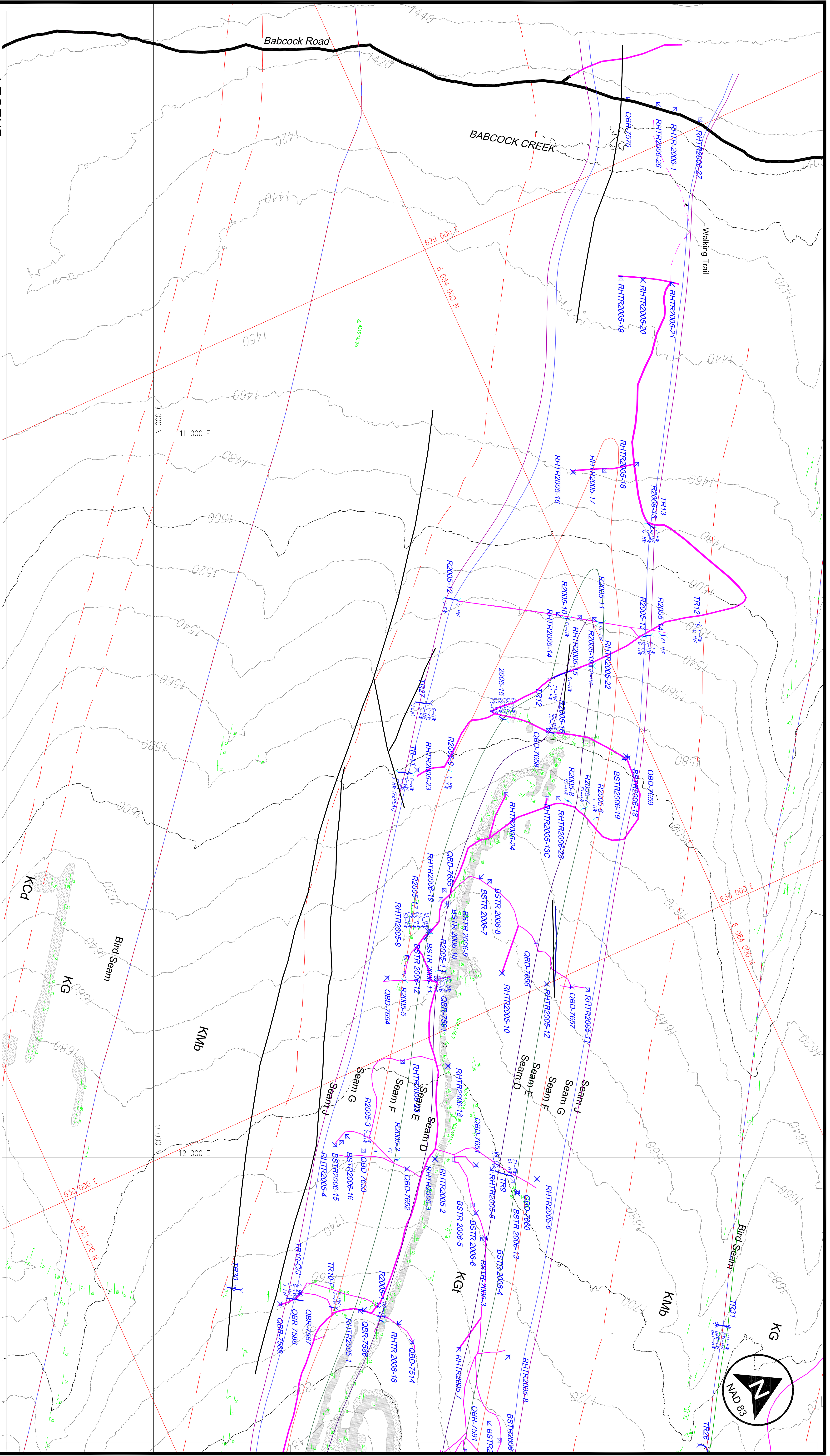
**PEACE RIVER COAL INC.**  
**ROMAN COAL PROJECT**

**LOCATION PLAN**

DRAWN BY: Rmc  
DATE: 27-FEB-07  
REV: 01

Fig. 1.1



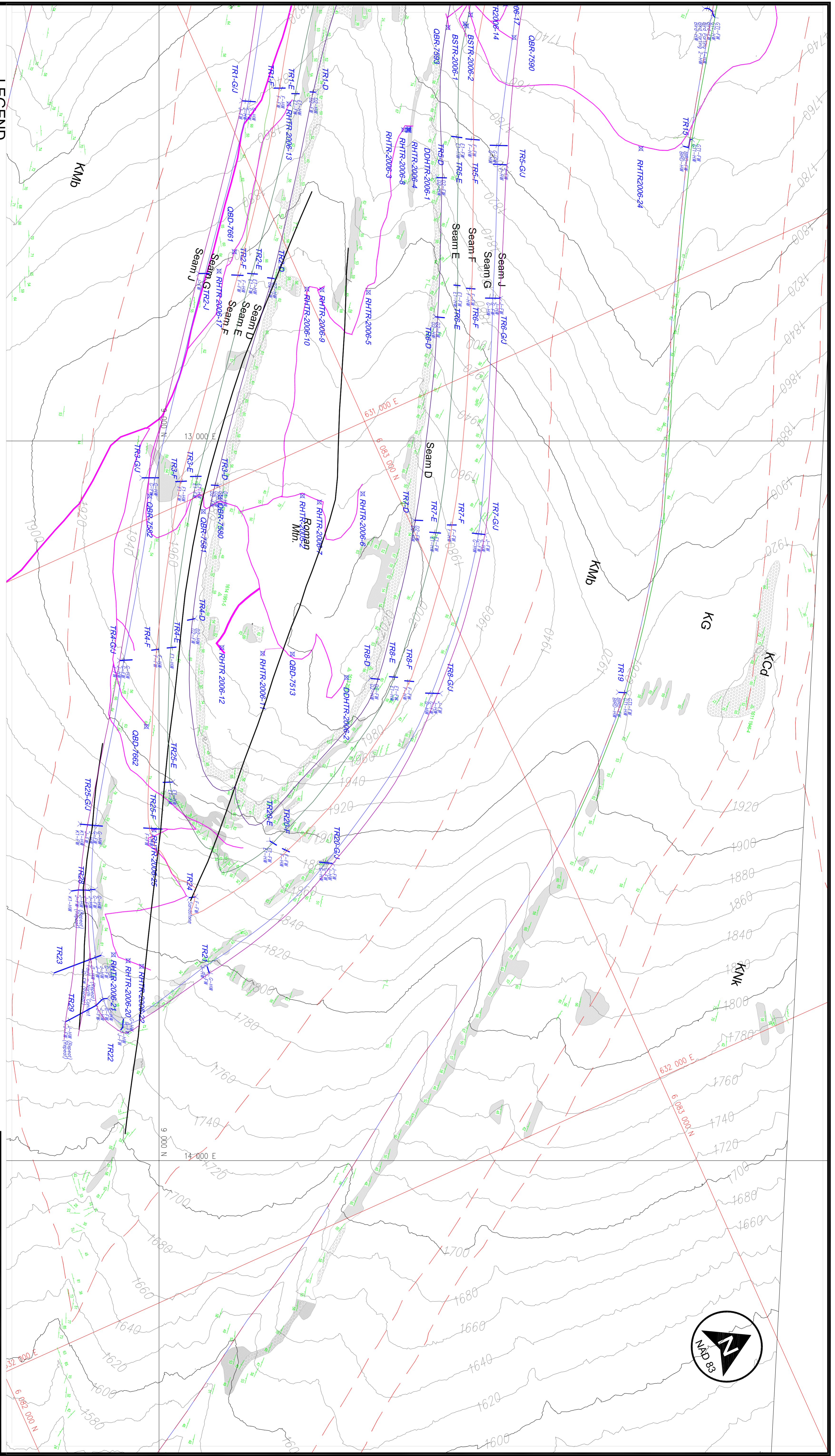


**LEGEND**

- GRAVEL ROAD
- EXPLORATION TRAIL
- OLD TRAIL - REVEGETATED
- TRAIL - WALKING
- SEISMIC LINE
- TRAIL - TEMP. DEACTIVATED
- FORMATION CONTACT LINE
- OUTCROP
- BEDDING
- DRILL HOLES - 1975-76
- DRILL HOLES - 2005
- DRILL HOLES - 2006
- TRENCHES - 2005-2006
- COAL SEAMS
- FAULTS
- KGI GATES FORMATION
- KMB MOOSEBAR FORMATION
- KG GETTING FORMATION
- KCD CADOMIN FORMATION
- KNK NIKANASSIN FORMATION

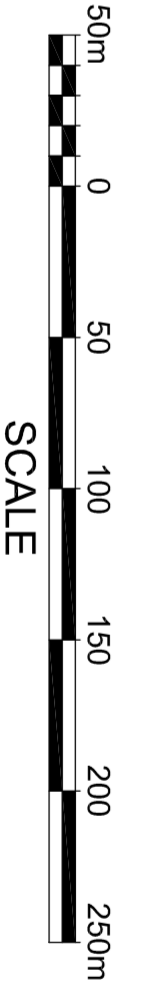


<p><b>PEACE RIVER COAL</b></p>	<b>PEACE RIVER COAL INC.</b>	
	<b>ROMAN COAL PROJECT</b>	
<b>LOCATION PLAN</b> <b>TRAILS, DRILLHOLES AND TRENCHES</b> <b>SHEET 1 OF 2</b>		
DRAWN BY: DT DATE: MAR 07 REV: 00	<b>1 : 2500</b>	Fig. 3.3.1

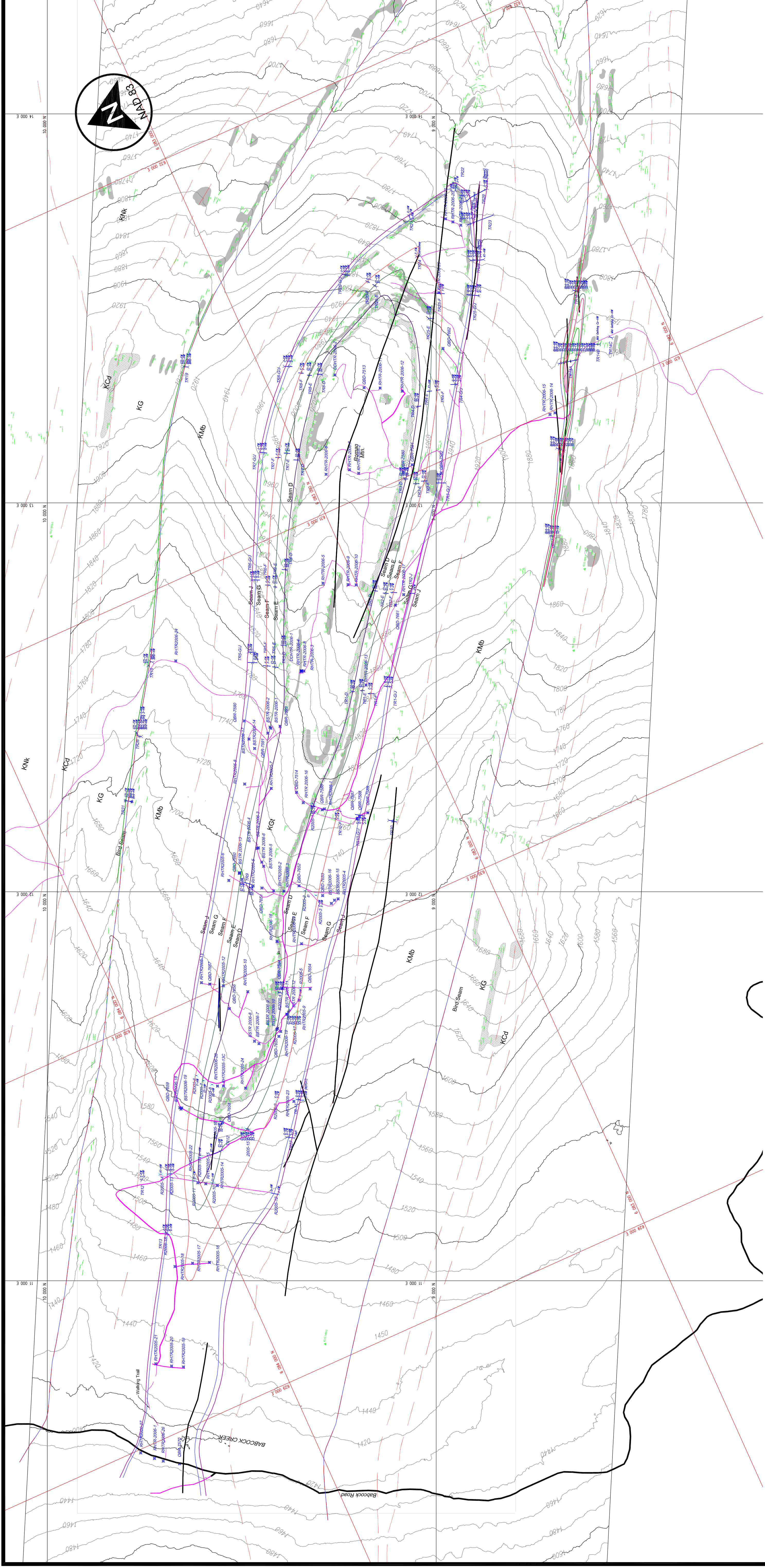


**LEGEND**

- GRAVEL ROAD
- EXPLORATION TRAIL
- OLD TRAIL - REVEGETATED
- TRAIL - WALKING
- SEISMIC LINE
- TRAIL - TEMP. DEACTIVATED
- FORMATION CONTACT LINE
- OUTCROP
- BEDDING
- DRILL HOLES - 1975-76
- DRILL HOLES - 2005
- DRILL HOLES - 2006
- TRENCHES - 2005-2006
- COAL SEAMS
- FAULTS
- KGI GATES FORMATION
- KMB MOOSEBAR FORMATION
- KG GETHING FORMATION
- KCD CADOMIN FORMATION
- KNK NIKANASSIN FORMATION

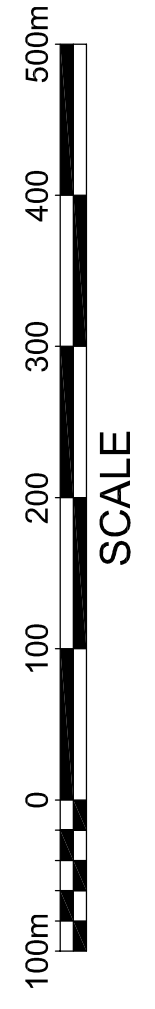


<p><b>PEACE RIVER COAL</b></p>	<b>PEACE RIVER COAL INC.</b>	
	<b>ROMAN COAL PROJECT</b>	
LOCATION PLAN		
TRAILS, DRILLHOLES AND TRENCHES		
SHEET 2 OF 2		
DRAWN BY: DT	DATE: MAR 07	REV: 00
<b>1 : 2500</b>	Fig. 3.3.2	



**LEGEND**

- GRAVEL ROAD
- EXPLORATION TRAIL
- OLD TRAIL - REVEGETATED
- TRAIL - WALKING
- SEISMIC LINE
- TRAIL - TEMP. DEACTIVATED
- FORMATION CONTACT LINE
- OUTCROP
- BEDDING
- DRILL HOLES - 1975-76
- DRILL HOLES - 2005
- DRILL HOLES - 2006
- TRENCHES - 2005-2006
- COAL SEAMS
- FAULTS
- KGt GATES FORMATION
- KMb MOOSEBAR FORMATION
- KG GETTING FORMATION
- KCd CADOMIN FORMATION
- KNK NIKANASSIN FORMATION



**PEACE RIVER COAL INC.**  
**ROMAN COAL PROJECT**  
 LOCATION PLAN  
 TRAILS, DRILLHOLES AND TRENCHES

PEACE RIVER COAL

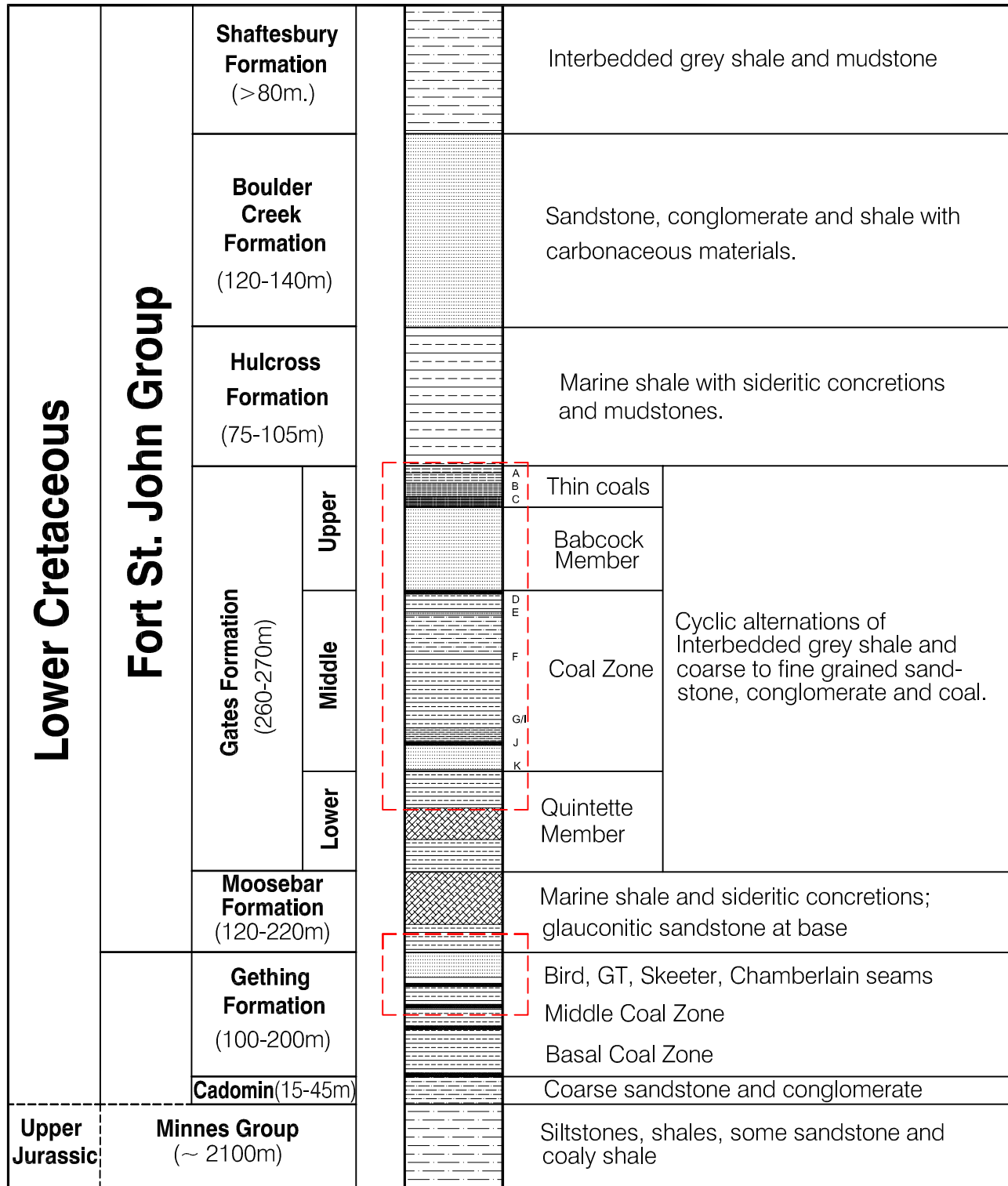
1 : 5000

Fig. 3.3

DRAWN BY: DT  
 DATE: MAR 07  
 REV: 00

## Formation

## Lithology



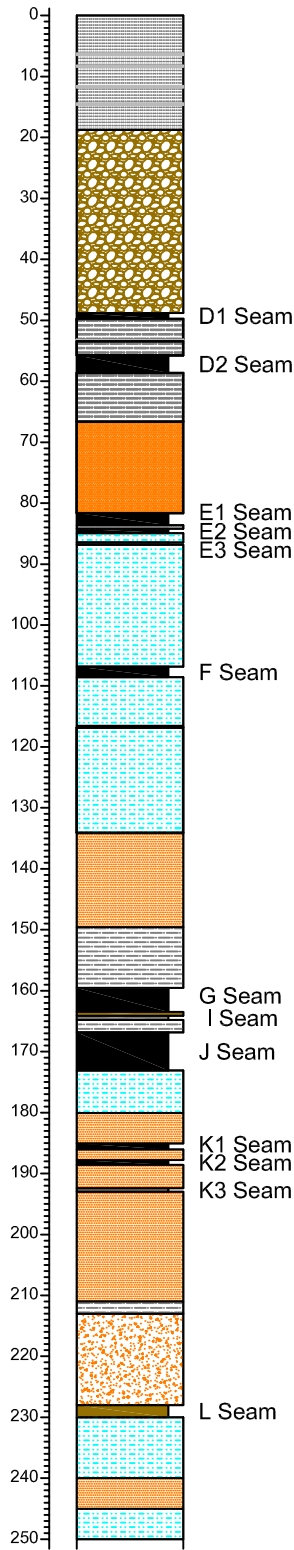
**PEACE RIVER COAL INC.**  
**ROMAN COAL PROJECT**

REGIONAL STRATIGRAPHIC SECTION







DRAWN BY: RMc  
DATE: 27-FEB-07  
REV: 01

Fig. 5.1.1

### ROMAN MOUNTAIN Typical Stratigraphic Section



**LEGEND**

-  Coal
-  Dirty Coal
-  Coaly Claystone
-  Carbonaceous Claystone
-  Claystone
-  Siltstone
-  Sandstone (fine-grained, argillaceous)
-  Sandstone (medium to coarse-grained, clean)
-  Conglomerate



**PEACE RIVER COAL INC.**  
**ROMAN COAL PROJECT**

TYPICAL STRATIGRAPHIC SECTION

DRAWN BY: RMc  
DATE: 27-FEB-07  
REV: 01

Fig. 5.3.1

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-1**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1758.63	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	34.10	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	25-Aug-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	27-Aug-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083354.53	630556.87	9427.21	12423.23

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-1

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	153.6	129.4	-88.2	1.8
10.0	12.0	136.1	111.9	-89.1	0.9
12.0	14.0	124.2	100.0	-88.3	1.7
14.0	16.0	111.4	87.2	-88.2	1.8
16.0	18.0	101.6	77.4	-87.3	2.7
18.0	20.0	92.5	68.3	-87.7	2.3
20.0	22.0	84.7	60.5	-87.2	2.8
22.0	24.0	77.2	53.0	-88.8	1.2
24.0	26.0	71.1	46.9	-87.0	3.0
26.0	28.0	66.6	42.4	-85.6	4.4
28.0	30.0	63.8	39.6	-85.7	4.3
30.0	32.0	62.0	37.8	-86.2	3.8
32.0	33.7	61.0	36.8	-86.3	3.7

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-1

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
F	27.27	29.65	2.38		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-1	0.00	4.00	OB	4.00		
BSTR2006-1	4.00	12.30	CLY	8.30		
BSTR2006-1	12.30	18.20	CLY/CC	5.90		
BSTR2006-1	18.20	21.20	CLY	3.00		
BSTR2006-1	21.20	27.27	CLY/CC	6.07		
BSTR2006-1	27.27	29.65	F	2.38		
BSTR2006-1	29.65	30.29	CC/CLY	0.64		
BSTR2006-1	30.29	34.10	SLT	3.81		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-2**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1758.63	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	37.15	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	26-Aug-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	27-Aug-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As Drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083353.87	630553.43	9425.20	12420.36

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-2

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	73.8	49.6	-89.0	1.0
10.0	12.0	76.2	52.0	-87.1	2.9
12.0	14.0	74.6	50.4	-87.3	2.7
14.0	16.0	72.3	48.1	-86.7	3.3
16.0	18.0	67.8	43.6	-87.4	2.6
18.0	20.0	65.2	41.0	-87.2	2.8
20.0	22.0	62.8	38.6	-87.8	2.2
22.0	24.0	61.2	37.0	-86.1	3.9
24.0	26.0	59.7	35.5	-85.6	4.4
26.0	28.0	59.4	35.2	-86.3	3.7
28.0	30.0	59.4	35.2	-86.1	3.9
30.0	32.0	60.0	35.8	-86.3	3.7
32.0	34.0	61.2	37.0	-86.1	3.9
34.0	36.6	62.8	38.6	-86.1	0.0

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-2

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
F	30.67	33.34	2.67		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-2	0.00	3.50	OB	3.50		
BSTR2006-2	3.50	11.10	CLY/CC	7.60		
BSTR2006-2	11.10	20.00	CLY	8.90		
BSTR2006-2	20.00	24.60	CLY/CC	4.60		
BSTR2006-2	24.60	30.67	CLY	6.07		
BSTR2006-2	30.67	33.34	F	2.67		
BSTR2006-2	33.34	34.08	CLY/SLT	0.74		
BSTR2006-2	34.08	34.81	SST	0.73		
BSTR2006-2	34.81	37.15	SLT	2.34		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-3**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1718.27	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	52.41	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	28-Aug-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	2-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083508.86	630286.13	9456.92	12113.01

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**    Geological and geophysical logs do not correlate well

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-3

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	12.0	41.4	17.2	-88.3	1.7
12.0	14.0	41.1	16.9	-88.0	2.0
14.0	16.0	40.8	16.6	-88.9	1.1
16.0	18.0	40.4	16.2	-87.9	2.1
18.0	20.0	39.5	15.3	-88.6	1.4
20.0	22.0	40.0	15.8	-87.8	2.2
22.0	24.0	40.5	16.3	-88.9	1.1
24.0	26.0	40.4	16.2	-89.1	0.9
26.0	28.0	40.6	16.4	-87.9	2.1
28.0	30.0	40.6	16.4	-87.7	2.3
30.0	32.0	40.1	15.9	-87.9	2.1
32.0	34.0	39.3	15.1	-87.1	2.9
34.0	36.0	38.7	14.5	-88.6	1.4
36.0	38.0	38.6	14.4	-87.9	2.1
38.0	40.0	38.0	13.8	-87.5	2.5
40.0	42.0	38.1	13.9	-87.0	3.0
42.0	44.0	37.8	13.6	-86.7	3.3
44.0	46.0	37.4	13.2	-87.2	2.8
46.0	48.0	37.1	12.9	-86.0	4.0
48.0	50.0	36.9	12.7	-86.8	3.2
50.0	51.7	36.6	12.4	-86.4	3.6

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-3

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
E1	42.42	45.11	2.69		
E2	45.85	47.39	1.54		
E3	50.40	50.91	0.51		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-3	0.00	4.00	D2	4.00		
BSTR2006-3	4.00	11.90	CLY/Voids	7.90		
BSTR2006-3	11.90	21.80	CLY	9.90		
BSTR2006-3	21.80	23.60	SLT	1.80		
BSTR2006-3	23.60	26.25	SST	2.65		
BSTR2006-3	26.25	26.75	CZ	0.50		
BSTR2006-3	26.75	29.10	SST	2.35		
BSTR2006-3	29.10	30.50	Void	1.40		
BSTR2006-3	30.50	31.30	SST	0.80		
BSTR2006-3	31.30	31.60	CZ	0.30		
BSTR2006-3	31.60	37.80	SST/Voids	6.20		
BSTR2006-3	37.80	38.50	Void	0.70		
BSTR2006-3	38.50	40.00	SLT	1.50		
BSTR2006-3	40.00	42.42	CLY	2.42		
BSTR2006-3	42.42	45.11	E1	2.69		
BSTR2006-3	45.11	45.85	CC	0.74		
BSTR2006-3	45.85	47.39	E2	1.54		
BSTR2006-3	47.39	48.36	CLY	0.97		
BSTR2006-3	48.36	49.37	SLT	1.01		
BSTR2006-3	49.37	50.40	CLY	1.03		
BSTR2006-3	50.40	50.91	E3	0.51		
BSTR2006-3	50.40	52.41	SST/SLT	2.01		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-4**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1717.98	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	46.5	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	29-Aug-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	2-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083512.67	630286.08	9460.37	12111.40

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-4

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	6.0	115.8	91.6	-89.1	0.9
6.0	8.0	107.6	83.4	-88.1	1.9
8.0	10.0	98.9	74.7	-86.6	3.4
10.0	12.0	93.1	68.9	-88.8	1.2
12.0	14.0	87.6	63.4	-88.0	2.0
14.0	16.0	80.6	56.4	-88.7	1.3
16.0	18.0	76.1	51.9	-88.9	3.1
18.0	20.0	70.9	46.7	-89.4	0.6
20.0	22.0	66.0	41.8	-88.9	1.1
22.0	24.0	63.3	39.1	-89.4	0.6
24.0	26.0	60.6	36.4	-89.6	0.4
26.0	28.0	59.1	34.9	-87.9	2.1
28.0	30.0	56.4	32.2	-87.9	2.1
30.0	32.0	53.6	29.4	-89.6	0.4
32.0	34.0	51.6	27.4	-89.7	0.3
34.0	36.0	49.3	25.1	-88.9	1.1
36.0	38.0	47.7	23.5	-88.3	1.7
38.0	40.0	46.1	21.9	-88.8	1.2
40.0	42.0	44.7	20.5	-88.7	1.3
42.0	44.0	43.6	19.4	-88.8	1.2
44.0	45.5	43.0	18.8	-90.0	0.0

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-4

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
E1	38.69	41.28	2.59		
E2	42.31	43.75	1.44		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-4	0.00	3.50	OB	3.50		
BSTR2006-4	3.50	9.00	CLY	5.50		
BSTR2006-4	9.00	11.20	SLT	2.20		
BSTR2006-4	11.20	12.50	CLY	1.30		
BSTR2006-4	12.50	14.40	SLT	1.90		
BSTR2006-4	14.40	20.80	SST/Voids	6.40		
BSTR2006-4	20.80	21.40	CZ	0.60		
BSTR2006-4	21.40	25.50	SST/Voids	4.10		
BSTR2006-4	25.50	26.30	CZ	0.80		
BSTR2006-4	26.30	27.05	SST/Voids	0.75		
BSTR2006-4	27.05	28.30	CZ	1.25		
BSTR2006-4	28.30	30.40	SST/Voids	2.10		
BSTR2006-4	30.40	33.60	SST/CC	3.20		
BSTR2006-4	33.60	36.21	SLT	2.61		
BSTR2006-4	36.21	38.69	CLY	2.48		
BSTR2006-4	38.69	41.28	E1	2.59		
BSTR2006-4	41.28	42.31	CLY	1.03		
BSTR2006-4	42.31	43.75	E2	1.44		
BSTR2006-4	43.75	46.09	SLT	2.34		
BSTR2006-4	46.09	46.50	E3	0.41		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-5**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1717.04	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	58.04	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	1-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	2-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083516.00	630237.45	9443.46	12065.69

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-5

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	6.0	259.9	260.0	-89.5	0.5
6.0	8.0	294.6	260.0	-88.5	1.5
8.0	10.0	287.8	263.6	-88.7	1.3
10.0	12.0	288.9	264.7	-89.0	3.5
12.0	14.0	288.5	264.3	-89.2	0.8
14.0	16.0	290.0	265.8	-88.0	2.0
16.0	18.0	290.3	266.1	-88.0	4.4
18.0	20.0	291.8	267.6	-88.0	2.0
20.0	22.0	292.6	268.4	-88.4	1.6
22.0	24.0	292.7	268.5	-88.3	1.7
24.0	26.0	292.8	268.6	-88.2	1.8
26.0	28.0	292.9	268.7	-87.8	2.2
28.0	30.0	292.6	268.4	-88.2	1.8
30.0	32.0	293.1	268.9	-88.0	2.0
32.0	34.0	293.5	269.3	-88.4	1.6
34.0	36.0	294.1	269.9	-88.8	1.2
36.0	38.0	294.4	270.2	-88.5	1.5
38.0	40.0	295.3	271.1	-88.1	1.9
40.0	42.0	296.6	272.4	-87.7	2.3
42.0	44.0	297.5	273.3	-88.3	1.7
44.0	46.0	298.5	274.3	-89.0	1.0
46.0	48.0	299.5	275.3	-88.3	1.7
48.0	50.0	300.7	276.5	-87.8	2.2
50.0	52.0	302.1	277.9	-88.5	1.5
52.0	54.0	303.3	279.1	-89.0	1.0
54.0	56.0	304.5	280.3	-88.5	1.5
56.0	58.0	305.6	281.4	-90.0	0.0

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-5

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	43.75	44.90	1.15		
D2	48.49	54.79	6.30		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-5	0.00	0.50	OB	0.50		
BSTR2006-5	0.50	18.25	CGLM/Voids	17.75		
BSTR2006-5	18.25	37.60	CGLM	19.35		
BSTR2006-5	37.60	38.85	CC	1.25		
BSTR2006-5	38.85	40.00	D1	1.15		
BSTR2006-5	40.00	42.00	CLY	2.00		
BSTR2006-5	42.00	44.40	SLT	2.40		
BSTR2006-5	44.40	44.90	CZ	0.50		
BSTR2006-5	44.90	48.49	SLT	3.59		
BSTR2006-5	48.49	50.55	D2	2.06		
BSTR2006-5	50.55	51.38	Parting	0.83		
BSTR2006-5	51.38	54.79	D2	3.41		
BSTR2006-5	54.79	58.04	CLY/CC	3.25		

## Drill Hole Summary Sheet

**Hole Number:** **BSTR 2006-6**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1717.19	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	49.19	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	4-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	9-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083515.97	630249.22	9448.26	12076.43

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-6

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	270.4	246.2	-88.7	1.3
10.0	12.0	272.4	248.2	-88.8	1.2
12.0	14.0	272.3	248.1	-87.5	2.5
14.0	16.0	271.9	247.7	-88.2	1.8
16.0	18.0	271.7	247.5	-89.1	0.9
18.0	20.0	271.9	247.7	-88.1	1.9
20.0	22.0	272.0	247.8	-87.9	2.1
22.0	24.0	272.0	247.8	-87.8	2.2
24.0	26.0	272.1	247.9	-88.5	1.5
26.0	28.0	272.4	248.2	-88.0	2.0
28.0	30.0	272.6	248.4	-87.5	2.5
30.0	32.0	273.0	248.8	-87.7	2.3
32.0	34.0	273.2	249.0	-87.7	2.3
34.0	36.0	273.4	249.2	-87.8	2.2
36.0	38.0	273.5	249.3	-88.0	2.0
38.0	40.0	273.6	249.4	-87.9	2.1
40.0	42.0	273.6	249.4	-87.4	2.6
42.0	44.0	273.7	249.5	-89.0	1.0
44.0	46.0	273.4	249.2	-88.1	1.9
46.0	48.0	273.3	249.1	-88.1	2.1
48.0	49.2	273.2	249.0	-88.1	1.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-6

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	31.37	33.10	1.73		
D2	41.26	45.74	4.48		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-6	0.00	0.50	OB	0.50		
BSTR2006-6	0.50	5.00	CGLM	4.50		
BSTR2006-6	5.00	12.30	CGLM/Voids	7.30		
BSTR2006-6	12.30	30.71	CGLM	18.41		
BSTR2006-6	30.71	31.37	CLY/CC	0.66		
BSTR2006-6	31.37	33.10	D1	1.73		
BSTR2006-6	33.10	34.97	CLY	1.87		
BSTR2006-6	34.97	36.83	SLT	1.86		
BSTR2006-6	36.83	37.49	CZ	0.66		
BSTR2006-6	37.49	38.58	CLY	1.09		
BSTR2006-6	38.58	41.26	SLT	2.68		
BSTR2006-6	41.26	45.74	D2	4.48		
BSTR2006-6	45.74	49.19	CLY	3.45		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-7**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1654.84	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	33.21	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	5-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	9-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083714.15	629826.48	9455.60	11609.60

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:              Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-7

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	6.0	316.5	292.3	-89.7	0.3
6.0	8.0	305.8	281.6	-89.8	0.2
8.0	10.0	301.6	277.4	-89.7	0.3
10.0	12.0	299.4	275.2	-89.7	0.3
12.0	14.0	299.0	274.8	-89.8	0.2
14.0	16.0	298.9	274.7	-89.8	0.2
16.0	18.0	299.3	275.1	-89.6	0.4
18.0	20.0	297.7	273.5	-89.4	0.6
20.0	22.0	296.6	272.4	-89.3	0.7
22.0	24.0	293.5	269.3	-89.6	0.4
24.0	26.0	289.9	265.7	-89.1	0.9
26.0	28.0	285.5	261.3	-89.2	0.8
28.0	30.0	281.8	257.6	-88.4	1.6
30.0	33.0	277.4	253.2	-89.2	0.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-7

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D2	24.00	29.66	5.66		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-7	0.00	0.30	OB	0.30		
BSTR2006-7	0.30	16.80	CGLM	16.50		
BSTR2006-7	16.80	17.90	D1	1.10		
BSTR2006-7	17.90	19.80	CLY	1.90		
BSTR2006-7	19.80	20.25	CGLM	0.45		
BSTR2006-7	20.25	21.76	CLY	1.51		
BSTR2006-7	21.76	22.05	CZ	0.29		
BSTR2006-7	22.05	24.00	CLY	1.95		
BSTR2006-7	24.00	29.66	D2	5.66		
BSTR2006-7	29.66	33.21	CLY	3.55		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-8**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1654.54	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	38.8	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	7-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	9-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083722.02	629837.01	9467.10	11615.98

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-8

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	4.0	58.7	320.0	-89.8	0.2
4.0	6.0	41.5	320.0	-89.7	0.3
6.0	8.0	29.2	320.0	-89.8	0.2
8.0	10.0	22.1	320.0	-89.8	0.2
10.0	12.0	16.6	320.0	-89.8	0.2
12.0	14.0	14.4	320.0	-89.7	0.3
14.0	16.0	9.4	320.0	-89.9	0.1
16.0	18.0	0.4	320.0	-89.6	0.4
18.0	20.0	344.6	320.4	-89.1	0.9
20.0	22.0	327.3	303.1	-89.4	0.6
22.0	24.0	310.4	286.2	-89.2	0.8
24.0	26.0	297.3	273.1	-89.4	0.6
26.0	28.0	287.3	263.1	-89.1	0.9
28.0	30.0	280.1	255.9	-88.7	1.3
30.0	32.0	275.0	250.8	-88.8	1.2
32.0	34.0	271.2	247.0	-89.0	1.0
34.0	36.0	268.2	244.0	-88.8	1.2
36.0	38.0	265.9	241.7	-88.6	1.4
38.0	39.5	264.8	240.6	-88.6	1.4

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-8

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	22.07	23.67	1.60		
D2	33.35	37.22	3.87		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-8	0.00	0.30	OB	0.30		
BSTR2006-8	0.30	22.07	CGLM	21.77		
BSTR2006-8	22.07	23.67	D1	1.60		
BSTR2006-8	23.67	25.40	CLY	1.73		
BSTR2006-8	25.40	25.90	CGLM	0.50		
BSTR2006-8	25.90	27.73	CLY	1.83		
BSTR2006-8	27.73	28.98	CGLM	1.25		
BSTR2006-8	28.98	30.90	CLY	1.92		
BSTR2006-8	30.90	31.23	CZ	0.33		
BSTR2006-8	31.23	33.35	CLY	2.12		
BSTR2006-8	33.35	37.22	D2	3.87		
BSTR2006-8	37.22	39.80	CLY	2.58		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-9**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1658.11	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	37.03	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	8-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	9-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As Drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083657.48	629840.88	9409.82	11645.98

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-9

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	195.2	171.0	-88.5	1.5
8.0	10.0	195.1	170.9	-88.3	1.7
10.0	12.0	194.4	170.2	-87.8	2.2
12.0	14.0	194.0	169.8	-88.5	1.5
14.0	16.0	192.6	168.4	-87.6	2.4
16.0	18.0	191.9	167.7	-88.6	1.4
18.0	20.0	191.6	167.4	-87.7	2.3
20.0	22.0	191.1	166.9	-86.0	4.0
22.0	24.0	191.0	166.8	-87.7	2.3
24.0	26.0	190.8	166.6	-87.3	2.7
26.0	28.0	191.2	167.0	-86.3	3.7
28.0	30.0	191.7	167.5	-86.7	3.3
30.0	32.0	192.3	168.1	-86.9	3.1
32.0	34.0	192.9	168.7	-86.4	3.6
34.0	36.7	193.5	169.3	-86.1	3.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR 2006-9

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
E1	28.97	31.32	2.35		
E2	31.76	32.95	1.19		
E3	35.88	36.57	0.69		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-9	0.00	1.00	OB	1.00		
BSTR2006-9	1.00	2.00	SLT	1.00		
BSTR2006-9	2.00	6.40	CLY/CC	4.40		
BSTR2006-9	6.40	6.65	CZ	0.25		
BSTR2006-9	6.65	17.00	CLT/CC	10.35		
BSTR2006-9	17.00	27.00	SLT/SST	10.00		
BSTR2006-9	27.00	28.97	CLY	1.97		
BSTR2006-9	28.97	31.32	E1	2.35		
BSTR2006-9	31.32	31.76	CLY	0.44		
BSTR2006-9	31.76	32.95	E2	1.19		
BSTR2006-9	32.95	35.88	SLT	2.93		
BSTR2006-9	35.88	36.57	E3	0.69		
BSTR2006-9	36.57	37.03	CLY	0.46		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-10**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1658.28	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	35.38	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	9-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	9-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As Drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083654.13	629842.62	9407.48	11648.93

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-10

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	203.2	179.0	-89.6	0.4
8.0	10.0	198.5	174.3	-89.4	0.6
10.0	12.0	198.5	174.3	-89.3	0.7
12.0	14.0	193.7	169.5	-88.9	1.1
14.0	16.0	190.6	166.4	-89.2	0.8
16.0	18.0	188.9	164.7	-89.6	0.4
18.0	20.0	186.7	162.5	-88.4	1.6
20.0	22.0	185.6	161.4	-89.0	1.0
22.0	24.0	184.6	160.4	-89.2	0.8
24.0	26.0	184.3	160.1	-89.1	0.9
26.0	28.0	184.1	159.9	-89.2	0.8
28.0	30.0	184.1	159.9	-89.1	0.9
30.0	32.0	184.1	159.9	-89.1	0.9
32.0	34.0	183.7	159.5	-89.1	0.9
34.0	35.0	183.0	158.8	-89.1	1.2

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR 2006-10

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
E1	27.45	29.68	2.23		
E2	29.84	32.14	2.30		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-10	0.00	1.00	OB	1.00		
BSTR2006-10	1.00	3.00	SLT	2.00		
BSTR2006-10	3.00	13.80	CLY	10.80		
BSTR2006-10	13.80	16.70	SLT/CLY	2.90		
BSTR2006-10	16.70	17.50	CZ	0.80		
BSTR2006-10	17.50	18.50	SST	1.00		
BSTR2006-10	18.50	19.60	Void	1.10		
BSTR2006-10	19.60	21.70	SST	2.10		
BSTR2006-10	21.70	22.15	Void	0.45		
BSTR2006-10	22.15	23.00	SST	0.85		
BSTR2006-10	23.00	27.45	CLY	4.45		
BSTR2006-10	27.45	29.68	E1	2.23		
BSTR2006-10	29.68	29.84	CLY	0.16		
BSTR2006-10	29.84	32.14	E2	2.30		
BSTR2006-10	32.14	35.38	CLY	3.24		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-11**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1662.03	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	45.53	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	10-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	20-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083618.12	629866.11	9384.27	11685.13

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-11

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	196.1	171.9	-89.5	0.5
10.0	12.0	180.2	156.0	-89.4	0.6
12.0	14.0	178.1	153.9	-88.6	1.4
14.0	16.0	179.0	154.8	-89.0	1.0
16.0	18.0	178.8	154.6	-88.8	1.2
18.0	20.0	179.2	155.0	-88.6	1.4
20.0	22.0	179.4	155.2	-88.5	1.5
22.0	24.0	178.9	154.7	-88.5	1.5
24.0	26.0	178.8	154.6	-88.1	1.9
26.0	28.0	178.4	154.2	-88.1	1.9
28.0	30.0	177.9	153.7	-88.3	1.7
30.0	32.0	177.6	153.4	-88.5	1.5
32.0	34.0	177.3	153.1	-88.6	1.4
34.0	36.0	177.1	152.9	-88.8	1.2
36.0	38.0	177.2	153.0	-89.0	1.0
38.0	40.0	177.6	153.4	-88.3	1.7
40.0	42.0	178.0	153.8	-89.0	1.0
42.0	44.0	178.2	154.0	-88.9	1.1
44.0	45.3	178.1	153.9	-88.7	1.3

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-11

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
F	39.30	43.04	3.74		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-11	0.00	1.00	OB	1.00		
BSTR2006-11	1.00	2.00	CLY	1.00		
BSTR2006-11	2.00	5.20	E1	3.20		
BSTR2006-11	5.20	5.75	CLY	0.55		
BSTR2006-11	5.75	6.20	E2	0.45		
BSTR2006-11	6.20	9.70	SLT/CLY	3.50		
BSTR2006-11	9.70	10.25	E3	0.55		
BSTR2006-11	10.25	28.03	SLT	17.78		
BSTR2006-11	28.03	39.30	CLY	11.27		
BSTR2006-11	39.30	43.04	F	3.74		
BSTR2006-11	43.04	45.53	SLT/CLY	2.49		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-12**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1661.93	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	42.99	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	11-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	20-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083615.68	629864.43	9381.37	11684.60

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-12

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	6.0	275.9	251.7	-89.7	0.3
6.0	8.0	262.3	238.1	-89.7	0.3
8.0	10.0	274.6	250.4	-89.9	0.1
10.0	12.0	264.2	240.0	-89.8	0.2
12.0	14.0	246.3	222.1	-89.8	0.2
14.0	16.0	232.7	208.5	-89.7	0.3
16.0	18.0	185.8	161.6	-89.2	0.8
18.0	20.0	167.0	142.8	-89.4	0.6
20.0	22.0	160.4	136.2	-89.1	0.9
22.0	24.0	159.5	135.3	-89.1	0.9
24.0	26.0	155.8	131.6	-89.6	0.4
26.0	28.0	154.5	130.3	-89.0	1.0
28.0	30.0	155.1	130.9	-88.7	1.3
30.0	32.0	156.3	132.1	-88.7	1.3
32.0	34.0	158.9	134.7	-89.0	1.0
34.0	36.0	162.9	138.7	-88.4	1.6
36.0	38.0	166.2	142.0	-88.4	1.6
38.0	40.0	169.4	145.2	-88.3	1.7
40.0	42.5	173.1	148.9	-88.2	1.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-12

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
F	35.77	39.38	3.61		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-12	0.00	1.80	OB	1.80		
BSTR2006-12	1.80	3.40	E2	1.60		
BSTR2006-12	3.40	5.80	CLY	2.40		
BSTR2006-12	5.80	6.45	E3	0.65		
BSTR2006-12	6.45	15.65	SLT/SST	9.20		
BSTR2006-12	15.65	28.40	SLT	12.75		
BSTR2006-12	28.40	35.77	CLY	7.37		
BSTR2006-12	35.77	39.38	F	3.61		
BSTR2006-12	39.38	42.99	SLT/CLY	3.61		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-13**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1696.94	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	38.84	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	12-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	20-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
60838580.47	630229.60	9499.04	12032.08

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-13

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	200.5	176.3	-89.6	0.4
8.0	10.0	164.8	140.6	-89.8	0.2
10.0	12.0	160.2	136.0	-89.8	0.2
12.0	14.0	167.8	143.6	-89.5	0.5
14.0	16.0	180.9	156.7	-89.8	0.2
16.0	18.0	200.7	176.5	-89.4	0.6
18.0	20.0	208.4	184.2	-89.4	0.6
20.0	22.0	219.3	195.1	-89.6	0.4
22.0	24.0	228.1	203.9	-89.5	0.5
24.0	26.0	239.4	215.2	-89.4	0.6
26.0	28.0	249.8	225.6	-89.1	0.9
28.0	30.0	261.8	237.6	-88.7	1.3
30.0	32.0	278.4	254.2	-89.2	0.8
32.0	34.0	291.8	267.6	-88.5	1.5
34.0	36.0	304.0	279.8	-89.2	0.8
36.0	37.2	310.0	285.8	-89.1	0.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-13

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
F	31.48	35.09	3.61		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-13	0.00	2.50	OB	2.50		
BSTR2006-13	2.50	4.60	CC/CLY	2.10		
BSTR2006-13	4.60	13.25	CLY/SLT	8.65		
BSTR2006-13	13.25	20.70	SLT	7.45		
BSTR2006-13	20.70	21.30	SST	0.60		
BSTR2006-13	21.30	21.70	CZ	0.40		
BSTR2006-13	21.70	22.30	SST	0.60		
BSTR2006-13	22.30	29.10	SLT	6.80		
BSTR2006-13	29.10	31.48	CLY	2.38		
BSTR2006-13	31.48	35.09	F	3.61		
BSTR2006-13	35.09	37.35	CLY	2.26		
BSTR2006-13	37.35	38.84	SLT	1.49		

## Drill Hole Summary Sheet

**Hole Number:** **BSTR 2006-14**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1743.36	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	72.85	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	27-Sep-06
<b>Hole Diameter (cm)</b>	9"	<b>Date Geophys. Logged</b>	30-Sep-06
<b>Core size</b>	9"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083412.99	630523.35	9466.78	12368.68

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:** Abandoned in J Seam

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-14

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	6.0	155.4	131.2	-89.8	0.2
6.0	8.0	146.5	122.3	-88.7	1.3
8.0	10.0	151.2	127.0	-89.7	0.3
10.0	12.0	152.1	127.9	-89.4	0.6
12.0	14.0	153.2	129.0	-89.7	0.3
14.0	16.0	152.9	128.7	-89.9	0.1
16.0	18.0	152.4	128.2	-89.7	0.3
18.0	20.0	151.3	127.1	-89.8	0.2
20.0	22.0	151.0	126.8	-89.8	0.2
22.0	24.0	151.6	127.4	-89.4	0.6
24.0	26.0	149.6	125.4	-89.7	0.3
26.0	28.0	147.3	123.1	-89.8	0.2
28.0	30.0	145.2	121.0	-89.8	0.2
30.0	32.0	142.5	118.3	-89.6	0.4
32.0	34.0	141.0	116.8	-90.0	0.0
34.0	36.0	140.9	116.7	-89.9	0.1
36.0	38.0	141.8	117.6	-89.7	0.3
38.0	40.0	144.4	120.2	-89.7	0.3
40.0	42.0	147.4	123.2	-89.7	0.3
42.0	44.0	149.5	125.3	-89.6	0.4
44.0	46.0	150.4	126.2	-89.6	0.4
46.0	48.0	150.9	126.7	-89.3	0.7
48.0	50.0	150.2	126.0	-89.4	0.6
50.0	52.0	148.9	124.7	-89.1	0.9
52.0	54.0	146.0	121.8	-89.3	0.7
54.0	56.0	141.9	117.7	-88.4	1.6
56.0	58.0	136.5	112.3	-89.0	1.0
58.0	60.0	131.0	106.8	-88.4	1.6
60.0	62.0	125.5	101.3	-87.9	2.1
62.0	64.0	120.3	96.1	-87.2	2.8
64.0	66.0	115.4	91.2	-86.8	3.2
66.0	68.0	111.1	86.9	-86.6	3.4
68.0	70.9	106.7	82.5	-86.0	4.0

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-14

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	51.65	56.97	5.32		
I	57.18	59.16	1.98		
J	65.65	72.40	6.75		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-14	0.00	1.00	OB	1.00		
BSTR2006-14	1.00	7.50	CLY	6.50		
BSTR2006-14	7.50	13.50	SLT	6.00		
BSTR2006-14	13.50	18.00	CLY	4.50		
BSTR2006-14	18.00	21.80	SLT/SST	3.80		
BSTR2006-14	21.80	33.65	CLY	11.85		
BSTR2006-14	33.65	46.60	SST/SLT	12.95		
BSTR2006-14	46.60	51.65	CLY	5.05		
BSTR2006-14	51.65	56.97	G	5.32		
BSTR2006-14	56.97	57.18	CC	0.21		
BSTR2006-14	57.18	59.16	I	1.98		
BSTR2006-14	59.16	65.65	CLY	6.49		
BSTR2006-14	65.65	72.40	J	6.75		
BSTR2006-14	72.40	72.85	CLY	0.45		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-15**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1713.40	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	45.39	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	29-Sep-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	30-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083385.74	630083.18	9261.38	11978.42

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-15

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	168.4	144.2	-87.8	2.2
8.0	10.0	170.2	146.0	-88.0	2.0
10.0	12.0	172.6	148.4	-88.6	1.4
12.0	14.0	173.7	149.5	-88.2	1.8
14.0	16.0	175.2	151.0	-88.2	1.8
16.0	18.0	177.0	152.8	-87.7	2.3
18.0	20.0	178.3	154.1	-88.3	1.7
20.0	22.0	179.8	155.6	-88.1	1.9
22.0	24.0	181.1	156.9	-87.7	2.3
24.0	26.0	182.5	158.3	-87.8	2.2
26.0	28.0	183.9	159.7	-87.0	3.0
28.0	30.0	185.0	160.8	-87.6	2.4
30.0	32.0	185.9	161.7	-86.7	3.3
32.0	34.0	186.7	162.5	-86.7	3.3
34.0	36.0	187.6	163.4	-85.7	4.3
36.0	38.0	188.0	163.8	-87.6	2.4
38.0	40.0	188.8	164.6	-87.8	2.2
40.0	41.5	189.1	164.9	-87.8	2.2

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-15

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	22.48	26.60	4.12		
J	30.29	42.86	12.57		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-15	0.00	3.60	OB	3.60		
BSTR2006-15	3.60	4.50	CLY	0.90		
BSTR2006-15	4.50	6.40	SST	1.90		
BSTR2006-15	6.40	20.70	SLT	14.30		
BSTR2006-15	20.70	22.48	CLY	1.78		
BSTR2006-15	22.48	26.60	G	4.12		
BSTR2006-15	26.60	27.30	CLY	0.70		
BSTR2006-15	27.30	27.87	I	0.57		
BSTR2006-15	27.87	30.29	CLY	2.42		
BSTR2006-15	30.29	42.86	J	12.57		
BSTR2006-15	42.86	45.39	CLY	2.53		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-16**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1713.22	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	56.10	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	1-Oct-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	2-Oct-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083396.36	630078.93	9269.33	11970.19

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9411

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-16

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	172.7	148.5	-89.6	0.4
8.0	10.0	165.2	141.0	-89.9	0.1
10.0	12.0	168.8	144.6	-89.8	0.2
12.0	14.0	165.7	141.5	-89.3	0.7
14.0	16.0	169.2	145.0	-89.0	1.0
16.0	18.0	172.0	147.8	-89.4	0.6
18.0	20.0	174.1	149.9	-89.4	0.6
20.0	22.0	176.1	151.9	-89.2	0.8
22.0	24.0	178.7	154.5	-89.1	0.9
24.0	26.0	181.1	156.9	-89.0	1.0
26.0	28.0	184.9	160.7	-88.5	1.5
28.0	30.0	188.0	163.8	-88.3	1.7
30.0	32.0	190.6	166.4	-87.7	2.3
32.0	34.0	192.7	168.5	-87.4	2.6
34.0	36.0	193.4	169.2	-87.2	2.8
36.0	38.0	194.0	169.8	-87.1	2.9
38.0	40.0	194.6	170.4	-87.2	2.8
40.0	42.0	195.2	171.0	-86.7	3.3
42.0	44.0	195.8	171.6	-86.6	3.4
44.0	46.0	196.4	172.2	-87.6	2.4
46.0	48.0	197.1	172.9	-86.3	3.7
48.0	50.0	197.5	173.3	-86.9	3.1
50.0	52.0	197.9	173.7	-86.9	3.1
52.0	54.0	198.3	174.1	-86.9	3.1
54.0	55.8	198.7	174.5	-87.2	2.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-16

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	31.75	34.57	2.82		
J	37.33	43.57	6.24		
J2	47.03	53.48	6.45		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-16	0.00	1.00	OB	1.00		
BSTR2006-16	1.00	12.00	SLT/SST	11.00		
BSTR2006-16	12.00	19.40	SST	7.40		
BSTR2006-16	19.40	30.50	SLT	11.10		
BSTR2006-16	30.50	31.75	CLY	1.25		
BSTR2006-16	31.75	34.57	G	2.82		
BSTR2006-16	34.57	37.33	CLY	2.76		
BSTR2006-16	37.33	43.57	J	6.24		
BSTR2006-16	43.57	47.03	SLT/CLY	3.46		
BSTR2006-16	47.03	53.48	J2	6.45		
BSTR2006-16	53.48	54.68	CLY	1.20		
BSTR2006-16	54.68	56.10	SLT	1.42		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-17**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1744.43	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	44.32	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	4-Oct-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	4-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083416.37	630551.27	9481.31	12392.75

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9055

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-17

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	12.0	32.5	334.0	-89.5	0.5
12.0	14.0	17.8	334.0	-89.3	0.7
14.0	16.0	12.1	334.0	-89.5	0.5
16.0	18.0	7.7	334.0	-89.3	0.7
18.0	20.0	2.8	334.0	-88.7	1.3
20.0	22.0	358.9	334.7	-89.2	0.8
22.0	24.0	357.3	333.1	-88.5	1.5
24.0	26.0	356.8	332.6	-88.0	2.0
26.0	28.0	357.1	332.9	-88.0	2.0
28.0	30.0	357.6	333.4	-87.6	2.4
30.0	32.0	357.9	333.7	-87.7	2.3
32.0	34.0	358.2	334.0	-87.6	2.4
34.0	36.0	358.1	333.9	-87.7	2.3
36.0	38.0	358.2	334.0	-87.8	2.2
38.0	40.0	358.3	334.1	-87.9	2.1
40.0	42.0	358.5	334.3	-87.9	2.1
42.0	43.9	358.7	334.5	-87.9	2.1

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-17

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	24.45	28.73	4.28		
J	31.86	41.40	9.54		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-17	0.00	5.00	OB	5.00		
BSTR2006-17	5.00	21.50	SLT	16.50		
BSTR2006-17	21.50	24.45	CLY	2.95		
BSTR2006-17	24.45	28.73	G	4.28		
BSTR2006-17	28.73	29.72	CC	0.99		
BSTR2006-17	29.72	29.87	I	0.15		
BSTR2006-17	29.87	31.86	CLY	1.99		
BSTR2006-17	31.86	41.40	J	9.54		
BSTR2006-17	41.40	42.75	CLY	1.35		
BSTR2006-17	42.75	44.32	SLT	1.57		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-18**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1594.62	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	45.08	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	31-Oct-06
<b>Hole Diameter (cm)</b>	9"	<b>Date Geophys. Logged</b>	2-Nov-06
<b>Core size</b>	9"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083966.07	629755.53	9656.25	11441.56

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9055

**Comments:**                                    Sloughed to above J footwall

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-18

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	272.7	248.5	-89.9	0.1
10.0	12.0	287.6	263.4	-89.8	0.2
12.0	14.0	288.6	264.4	-89.9	0.1
14.0	16.0	289.8	265.6	-89.9	0.1
16.0	18.0	290.5	266.3	-89.8	0.2
18.0	20.0	292.0	267.8	-89.8	0.2
20.0	22.0	293.5	269.3	-89.9	0.1
22.0	24.0	294.8	270.6	-89.9	0.1
24.0	26.0	294.3	270.1	-89.9	0.1
26.0	28.0	292.9	268.7	-89.9	0.1
28.0	30.0	290.1	265.9	-89.9	0.1
30.0	32.0	288.5	264.3	-89.8	0.2
32.0	34.0	286.1	261.9	-89.8	0.2
34.0	36.0	281.1	256.9	-89.8	0.2
36.0	38.0	274.1	249.9	-89.7	0.3
38.0	40.0	262.7	238.5	-89.5	0.5
40.0	43.0	228.9	204.7	-89.2	0.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-18

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	27.32	30.80	3.48		
I	30.90	31.35	0.45		
J	31.75	42.68	10.93		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-18	0.00	2.50	OB	2.50		
BSTR2006-18	2.50	10.50	CLY	8.00		
BSTR2006-18	10.50	24.70	SLT	14.20		
BSTR2006-18	24.70	27.32	CLY	2.62		
BSTR2006-18	27.32	30.80	G	3.48		
BSTR2006-18	30.80	30.90	CLY	0.10		
BSTR2006-18	30.90	31.35	I	0.45		
BSTR2006-18	31.35	31.75	CLY	0.40		
BSTR2006-18	31.75	42.68	J	10.93		
BSTR2006-18	42.68	45.08	CLY	2.40		

## Drill Hole Summary Sheet

**Hole Number:**                    **BSTR 2006-19**

<b>Hole Type</b>	Bulk Sample	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1594.62	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	48.05	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	N/A	<b>Date Drilling Complete</b>	2-Nov-06
<b>Hole Diameter (cm)</b>	6"	<b>Date Geophys. Logged</b>	3-Nov-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	As drilled
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083962.92	629757.06	9654.01	11444.25

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>			<b>X</b>		9239, 9055

**Comments:**

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:              Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: BSTR 2006-19

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	355.3	331.1	-89.6	0.4
8.0	10.0	344.2	320.0	-89.7	0.3
10.0	12.0	339.7	315.5	-89.6	0.4
12.0	14.0	341.5	317.3	-89.3	0.7
14.0	16.0	341.6	317.4	-89.5	0.5
16.0	18.0	344.3	320.1	-89.4	0.6
18.0	20.0	344.7	320.5	-89.0	1.0
20.0	22.0	344.4	320.2	-89.0	1.0
22.0	24.0	344.2	320.0	-89.1	0.9
24.0	26.0	342.8	318.6	-88.6	1.4
26.0	28.0	341.8	317.6	-89.0	1.0
28.0	30.0	340.6	316.4	-88.7	1.3
30.0	32.0	339.3	315.1	-88.7	1.3
32.0	34.0	338.0	313.8	-88.9	1.1
34.0	36.0	336.8	312.6	-88.9	1.1
36.0	38.0	335.9	311.7	-89.0	1.0
38.0	40.0	335.0	310.8	-89.1	0.9
40.0	42.0	334.2	310.0	-89.0	1.0
42.0	44.0	333.5	309.3	-89.1	0.9
44.0	46.0	332.8	308.6	-89.0	1.0
46.0	47.9	332.1	307.9	-89.1	0.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: BSTR 2006-19

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	27.95	31.50	3.55		
J	33.29	45.05	11.76		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
BSTR2006-19	0.00	4.50	OB	4.50		
BSTR2006-19	4.50	24.80	SLT	20.30		
BSTR2006-19	24.80	27.95	CLY	3.15		
BSTR2006-19	27.95	31.50	G	3.55		
BSTR2006-19	31.50	33.29	CLY	1.79		
BSTR2006-19	33.29	45.05	J	11.76		
BSTR2006-19	45.05	48.05	CLY	3.00		

## Drill Hole Summary Sheet

**Hole Number:** DDHTR 2006-1

<b>Hole Type</b>	Diamond Drill	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1832.87	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	270.24	<b>Hole Angle (°)</b>	80
<b>Length of Casing (m)</b>	7.50	<b>Date Drilling Complete</b>	28-Aug-06
<b>Hole Diameter (cm)</b>	HQ	<b>Date Geophys. Logged</b>	29-Aug-06
<b>Core size</b>	HQ	<b>Date Core Logged</b>	Nov-06
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083222.31	630656.39	9347.45	12568.23

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
X		X		X	X	X	9068, 9239, 9067, 9411

**Comments:**

Drilling Contractor: GT  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: DDHTR 2006-1

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	14.0	205.5	181.3	-78.5	11.5
14.0	16.0	204.9	180.7	-78.5	11.5
16.0	18.0	204.3	180.1	-78.6	11.4
18.0	20.0	203.8	179.6	-78.6	11.4
20.0	22.0	203.7	179.5	-78.5	11.5
22.0	24.0	203.5	179.3	-78.6	11.4
24.0	26.0	203.5	179.3	-78.7	11.3
26.0	28.0	203.4	179.2	-78.5	11.5
28.0	30.0	203.4	179.2	-78.7	11.3
30.0	32.0	203.3	179.1	-78.6	11.4
32.0	34.0	203.3	179.1	-78.7	11.3
34.0	36.0	203.3	179.1	-78.6	11.4
36.0	38.0	203.3	179.1	-78.9	11.1
38.0	40.0	203.4	179.2	-78.7	11.3
40.0	42.0	203.4	179.2	-78.8	11.2
42.0	44.0	203.5	179.3	-78.9	11.1
44.0	46.0	203.6	179.4	-78.8	11.2
46.0	47.0	203.6	179.4	-78.8	11.2
47.0	48.0	203.7	179.5	-78.8	11.2
48.0	49.0	203.7	179.5	-78.7	11.3
49.0	50.0	203.8	179.6	-78.7	11.3
50.0	52.0	203.9	179.7	-78.7	11.3
52.0	54.0	204.0	179.8	-78.7	11.3
54.0	56.0	204.1	179.9	-78.7	11.3
56.0	58.0	204.2	180.0	-78.7	11.3
58.0	60.0	204.3	180.1	-78.7	11.3
60.0	62.0	204.4	180.2	-78.6	11.4
62.0	64.0	204.5	180.3	-78.7	11.3
64.0	66.0	204.6	180.4	-78.7	11.3
66.0	68.0	204.7	180.5	-78.7	11.3
68.0	70.0	204.8	180.6	-78.6	11.4
70.0	72.0	204.9	180.7	-78.6	11.4
72.0	74.0	205.0	180.8	-78.6	11.4
74.0	76.0	205.1	180.9	-78.7	11.3
76.0	78.0	205.1	180.9	-78.7	11.3
78.0	80.0	205.2	181.0	-78.7	11.3
80.0	82.0	205.3	181.1	-78.7	11.3
82.0	84.0	205.4	181.2	-78.6	11.4
84.0	86.0	205.5	181.3	-78.6	11.4
86.0	88.0	205.5	181.3	-78.8	11.2
88.0	90.0	205.6	181.4	-78.6	11.4
90.0	92.0	205.7	181.5	-78.7	11.3

## Downhole Survey Summary Table

Hole Number: DDHTR 2006-1

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
92.0	94.0	205.8	181.6	-78.6	11.4
94.0	96.0	205.8	181.6	-78.6	11.4
96.0	98.0	205.9	181.7	-78.7	11.3
98.0	100.0	205.9	181.7	-78.7	11.3
100.0	102.0	206.0	181.8	-78.5	11.5
102.0	104.0	206.0	181.8	-78.7	11.3
104.0	106.0	206.1	181.9	-78.7	11.3
106.0	108.0	206.1	181.9	-78.7	11.3
108.0	110.0	206.1	181.9	-78.8	11.2
110.0	112.0	206.2	182.0	-78.8	11.2
112.0	114.0	206.2	182.0	-78.8	11.2
114.0	116.0	206.3	182.1	-78.8	11.2
116.0	118.0	206.3	182.1	-78.7	11.3
118.0	120.0	206.4	182.2	-78.7	11.3
120.0	122.0	206.4	182.2	-78.8	11.2
122.0	124.0	206.4	182.2	-78.7	11.3
124.0	126.0	206.4	182.2	-78.7	11.3
126.0	128.0	206.4	182.2	-78.6	11.4
128.0	130.0	206.4	182.2	-78.4	11.6
130.0	132.0	206.5	182.3	-78.7	11.3
132.0	134.0	206.5	182.3	-78.6	11.4
134.0	136.0	206.4	182.2	-78.7	11.3
136.0	138.0	206.4	182.2	-78.6	11.4
138.0	140.0	206.4	182.2	-78.7	11.3
140.0	142.0	206.4	182.2	-78.7	11.3
142.0	144.0	206.4	182.2	-78.5	11.5
144.0	146.0	206.4	182.2	-78.7	11.3
146.0	148.0	206.5	182.3	-78.7	11.3
148.0	150.0	206.5	182.3	-78.8	11.2
150.0	152.0	206.5	182.3	-78.7	11.3
152.0	154.0	206.5	182.3	-78.7	11.3
154.0	156.0	206.6	182.4	-78.8	11.2
156.0	158.0	206.6	182.4	-78.8	11.2
158.0	160.0	206.7	182.5	-78.7	11.3
160.0	162.0	206.7	182.5	-78.7	11.3
162.0	164.0	206.7	182.5	-78.8	11.2
164.0	166.0	206.8	182.6	-78.8	11.2
166.0	168.0	206.8	182.6	-78.8	11.2
168.0	170.0	206.9	182.7	-78.8	11.2
170.0	172.0	206.9	182.7	-78.9	11.1
172.0	174.0	206.9	182.7	-78.8	11.2
174.0	176.0	207.0	182.8	-78.4	11.6

## Downhole Survey Summary Table

Hole Number: DDHTR 2006-1

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
176.0	178.0	207.0	182.8	-78.7	11.3
178.0	180.0	207.0	182.8	-78.7	11.3
180.0	182.0	207.0	182.8	-78.8	11.2
182.0	184.0	207.0	182.8	-78.7	11.3
184.0	186.0	207.0	182.8	-78.7	11.3
186.0	188.0	207.1	182.9	-78.9	11.1
188.0	190.0	207.1	182.9	-78.8	11.2
190.0	192.0	207.1	182.9	-78.8	11.2
192.0	194.0	207.1	182.9	-78.8	11.2
194.0	196.0	207.1	182.9	-78.9	11.1
196.0	198.0	207.1	182.9	-78.8	11.2
198.0	200.0	207.2	183.0	-78.9	11.1
200.0	202.0	207.2	183.0	-78.9	11.1
202.0	204.0	207.2	183.0	-79.0	11.0
204.0	206.0	207.3	183.1	-78.9	11.1
206.0	208.0	207.3	183.1	-78.9	11.1
208.0	210.0	207.3	183.1	-79.1	10.9
210.0	212.0	207.4	183.2	-79.1	10.9
212.0	214.0	207.4	183.2	-79.1	10.9
214.0	216.0	207.5	183.3	-79.1	10.9
216.0	218.0	207.5	183.3	-79.2	10.8
218.0	220.0	207.6	183.4	-79.2	10.8
220.0	222.0	207.6	183.4	-79.1	10.9
222.0	224.0	207.6	183.4	-79.1	10.9
224.0	226.0	207.7	183.5	-79.2	10.8
226.0	227.0	207.7	183.5	-79.2	10.8
227.0	228.0	207.7	183.5	-79.1	10.9
228.0	230.0	207.7	183.5	-79.2	10.8
230.0	232.0	207.7	183.5	-79.3	10.7
232.0	234.0	207.8	183.6	-79.1	10.9
234.0	236.0	207.8	183.6	-78.1	11.9
236.0	238.0	207.8	183.6	-79.2	10.8
238.0	240.0	207.8	183.6	-79.1	10.9
240.0	242.0	207.8	183.6	-79.2	10.8
242.0	244.0	207.8	183.6	-79.0	11.0
244.0	246.0	207.9	183.7	-79.1	10.9
246.0	248.0	207.9	183.7	-79.1	10.9
248.0	250.0	207.9	183.7	-78.9	11.1
250.0	252.0	207.9	183.7	-78.9	11.1
252.0	254.0	207.9	183.7	-79.0	11.0
254.0	256.0	207.9	183.7	-78.9	11.1
256.0	258.0	208.0	183.8	-79.1	10.9

## Downhole Survey Summary Table

Hole Number: DDHTR 2006-1

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
258.0	260.0	208.0	183.8	-79.0	11.0
260.0	262.0	208.0	183.8	-79.1	10.9
262.0	264.0	208.0	183.8	-78.9	11.1
264.0	266.0	208.0	183.8	-78.9	11.1
266.0	268.0	208.1	183.9	-78.9	11.1
268.0	270.3	208.1	183.9	-78.9	11.1

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: DDHTR 2006-1

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	94.09	95.00	0.91		
CZ	96.72	97.06	0.34		
D2	99.37	103.38	4.01		
E1	138.90	141.42	2.52		
E2	142.20	142.98	0.78		
E3	144.97	145.65	0.68		
F-bone	170.21	170.67	0.46		
F	170.67	174.30	3.63		
G	240.75	247.39	6.64		
I	248.42	249.28	0.86		
J	254.89	266.61	11.72		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
DDHTR 2006-1	0	2.00	OB	2.00		
DDHTR 2006-1	2	7.92	SST	5.92		
DDHTR 2006-1	7.92	35.58	CGLM	27.66		
DDHTR 2006-1	35.58	46.40	SST	10.82		
DDHTR 2006-1	46.4	47.81	CGLM	1.41		
DDHTR 2006-1	47.81	52.91	SST	5.10		
DDHTR 2006-1	52.91	58.70	CGLM	5.79		
DDHTR 2006-1	58.7	71.37	CGLM/SST	12.67		
DDHTR 2006-1	71.37	81.56	SST	10.19		
DDHTR 2006-1	81.56	92.33	CGLM	10.77		
DDHTR 2006-1	92.33	94.09	SST	1.76		
DDHTR 2006-1	94.09	95.00	D1	0.91		
DDHTR 2006-1	95	96.72	CLY	1.72		
DDHTR 2006-1	96.72	97.06	CZ	0.34		
DDHTR 2006-1	97.06	99.37	CLY	2.31		
DDHTR 2006-1	99.37	103.38	D2	4.01		
DDHTR 2006-1	103.38	107.66	SLT/CLY	4.28		
DDHTR 2006-1	107.66	108.70	SST	1.04		
DDHTR 2006-1	108.7	117.74	SLT/CLY	9.04		
DDHTR 2006-1	117.74	124.62	SLT	6.88		
DDHTR 2006-1	124.62	136.36	SST	11.74		
DDHTR 2006-1	136.36	138.15	SLT	1.79		
DDHTR 2006-1	138.15	138.90	CLY	0.75		
DDHTR 2006-1	138.9	141.42	E1	2.52		
DDHTR 2006-1	141.42	142.20	CLY	0.78		
DDHTR 2006-1	142.2	142.98	E2	0.78		
DDHTR 2006-1	142.98	144.97	SLT/SST	1.99		
DDHTR 2006-1	144.97	145.65	E3	0.68		
DDHTR 2006-1	145.65	149.40	SST/SLT	3.75		
DDHTR 2006-1	149.4	166.39	SLT	16.99		
DDHTR 2006-1	166.39	170.21	SLT/CLY	3.82		
DDHTR 2006-1	170.21	170.67	F-bone	0.46		
DDHTR 2006-1	170.67	174.30	F	3.63		
DDHTR 2006-1	174.3	176.37	SST/SLT	2.07		
DDHTR 2006-1	176.37	182.84	SLT	6.47		
DDHTR 2006-1	182.84	183.38	CZ	0.54		
DDHTR 2006-1	183.38	185.25	SLT	1.87		
DDHTR 2006-1	185.25	185.40	Fault	0.15		
DDHTR 2006-1	185.4	187.11	SLT	1.71		
DDHTR 2006-1	187.11	187.90	CLY	0.79		
DDHTR 2006-1	187.9	188.39	CZ	0.49		
DDHTR 2006-1	188.39	190.81	CLY	2.42		
DDHTR 2006-1	190.81	195.43	SLT	4.62		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
DDHTR 2006-1	195.43	201.81	CLY	6.38		
DDHTR 2006-1	201.81	230.41	SLT	28.60		
DDHTR 2006-1	230.41	240.75	SLT/CLY	10.34		
DDHTR 2006-1	240.75	247.39	G	6.64		
DDHTR 2006-1	247.39	248.42	CLY	1.03		
DDHTR 2006-1	248.42	249.28	I	0.86		
DDHTR 2006-1	249.28	250.60	CLY	1.32		
DDHTR 2006-1	250.6	254.89	SLT/CLY	4.29		
DDHTR 2006-1	254.89	266.61	J	11.72		
DDHTR 2006-1	266.61	270.07	SLT/CLY	3.46		

## Drill Hole Summary Sheet

**Hole Number:** DDHTR 2006-2

<b>Hole Type</b>	Diamond Drill	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	2018.81	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	117	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	27-Oct-06
<b>Hole Diameter (cm)</b>	HQ	<b>Date Geophys. Logged</b>	Not logged
<b>Core size</b>	HQ	<b>Date Core Logged</b>	Nov-06
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082830.85	631314.30	9260.30	13328.81

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
							none

**Comments:** Not logged, permafrost, ice filled to collar

Drilling Contractor: Derex  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: DDHTR 2006-2

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	121.0	35.0	10.8	-60.0	30.0

## Seam Interval Summary Table

Picked by: Dave Thompson

Data checked by: Melanie Mackay, G.I.T.

Hole Number: DDHTR 2006-2

Confirmed by: Ron McIntyre, P.Geol.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	34.17	34.77	0.60		
CZ	36.00	36.40	0.40		
D2	37.96	40.70	2.74		
E1	71.46	73.29	1.83		
E2	75.62	75.90	0.28		
E3	78.27	78.71	0.44		
F	95.24	97.22	1.98		
CZ	99.60	100.02	0.42		
CZ	103.56	103.70	0.14		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
DDHTR-2006-2	0.00	1.00	OB	1.00		
DDHTR-2006-2	1.00	2.44	CLY	1.44		
DDHTR-2006-2	2.44	7.79	CGLM	5.35		
DDHTR-2006-2	7.79	13.83	SST/CGLM	6.04		
DDHTR-2006-2	13.83	14.93	CLY	1.10		
DDHTR-2006-2	14.93	34.17	CGLM	19.24		
DDHTR-2006-2	34.17	34.77	D1	0.60		
DDHTR-2006-2	34.77	36.00	CLY	1.23		
DDHTR-2006-2	36.00	36.40	CZ	0.40		
DDHTR-2006-2	36.40	37.96	CLY	1.56		
DDHTR-2006-2	37.96	40.70	D2	2.74		
DDHTR-2006-2	40.70	44.39	SLT/CLY	3.69		
DDHTR-2006-2	44.39	45.61	SST	1.22		
DDHTR-2006-2	45.61	47.05	SLT	1.44		
DDHTR-2006-2	47.05	50.70	CLY	3.65		
DDHTR-2006-2	50.70	53.03	SLT	2.33		
DDHTR-2006-2	53.03	70.60	SST	17.57		
DDHTR-2006-2	70.60	71.46	CLY	0.86		
DDHTR-2006-2	71.46	73.29	E1	1.83		
DDHTR-2006-2	73.29	75.62	CLY	2.33		
DDHTR-2006-2	75.62	75.90	E2	0.28		
DDHTR-2006-2	75.90	78.27	SLT/CLY	2.37		
DDHTR-2006-2	78.27	78.71	E3	0.44		
DDHTR-2006-2	78.71	81.22	SLT/SST	2.51		
DDHTR-2006-2	81.22	87.37	SLT/CLY	6.15		
DDHTR-2006-2	87.37	90.83	SLT	3.46		
DDHTR-2006-2	90.83	95.24	CLY	4.41		
DDHTR-2006-2	95.24	97.22	F	1.98		
DDHTR-2006-2	97.22	99.60	CLY	2.38		
DDHTR-2006-2	99.60	100.02	CZ	0.42		
DDHTR-2006-2	100.02	103.56	CLY	3.54		
DDHTR-2006-2	103.56	103.70	CZ	0.14		
DDHTR-2006-2	103.70	106.40	CLY	2.70		
DDHTR-2006-2	106.40	118.34	SLT	11.94		
DDHTR-2006-2	118.34	121.00	SST	2.66		

## Drill Hole Summary Sheet

**Hole Number:**                   **QBD 7513**

<b>Hole Type</b>	Diamond Drill	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1996.20	<b>Collar Bearing (°)</b>	38
<b>Total Depth (m)</b>	220.00	<b>Hole Angle (°)</b>	67
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	27-Aug-75
<b>Hole Diameter (cm)</b>	NQ	<b>Date Geophys. Logged</b>	relogged 9-Sep-06
<b>Core size</b>	NQ	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082775.84	631253.80	9185.31	13296.20

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>				<b>X</b>	<b>X</b>	9067, 9329, 9411

**Comments:**    Partial logs - tools would not drop down the open hole; thru-rod density

Drilling Contractor:                Denison Mines Ltd.  
 Geophysical Contractor:        Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: QBD-7513

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	35.4	11.2	-66.5	23.5
10.0	12.0	37.2	13.0	-66.8	23.2
12.0	14.0	37.5	13.3	-66.7	23.3
14.0	16.0	37.8	13.6	-67.7	22.3
16.0	18.0	37.8	13.6	-66.9	23.1
18.0	20.0	37.8	13.6	-66.9	23.1
20.0	22.0	37.9	13.7	-67.0	23.0
22.0	24.0	37.9	13.7	-67.2	22.8
24.0	26.0	38.0	13.8	-66.7	23.3
26.0	28.0	38.0	13.8	-66.6	23.4
28.0	30.0	38.0	13.8	-66.7	23.3
30.0	32.0	38.0	13.8	-66.9	23.1
32.0	34.0	38.0	13.8	-66.3	23.7
34.0	36.0	38.0	13.8	-67.2	22.8
36.0	38.0	38.1	13.9	-66.9	23.1
38.0	40.0	38.1	13.9	-66.9	23.1
40.0	42.0	38.1	13.9	-67.4	22.6
42.0	44.0	38.2	14.0	-67.3	22.7
44.0	46.0	38.2	14.0	-66.9	23.1
46.0	48.0	38.2	14.0	-66.6	23.4
48.0	50.0	38.3	14.1	-66.5	23.5
50.0	52.5	38.3	14.1	-66.4	23.6
52.5	220.0	38.3	14.1	-66.4	23.6

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: QBD 7513

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	14.00	14.22	0.22		
CZ	18.02	18.59	0.57		
CZ	19.17	19.38	0.21		
D1	88.47	89.78	1.31		
D2	92.02	94.13	2.11		
E1	127.76	128.83	1.07		
E1 PARTING	128.83	129.16	0.33		
E1	129.16	129.43	0.27		
E2	131.93	132.62	0.69		
E3	134.31	134.52	0.21		
F	153.08	155.03	1.95		
F PARTING	155.03	155.17	0.14		
F	155.17	155.51	0.34		
CZ	157.52	158.24	0.72		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
QBD-7513	0.00	1.00	OB	1.00		
QBD-7513	1.00	5.00	SST/SLT	4.00		
QBD-7513	5.00	14.00	SST	9.00		
QBD-7513	14.00	14.22	CZ	0.22		
QBD-7513	14.22	16.40	SST	2.18		
QBD-7513	16.40	18.02	CLY/SLT	1.62		
QBD-7513	18.02	18.59	CZ	0.57		
QBD-7513	18.59	19.17	CLY	0.58		
QBD-7513	19.17	19.38	CZ	0.21		
QBD-7513	19.38	22.60	CLY	3.22		
QBD-7513	22.60	36.80	SST/SLT	14.20		
QBD-7513	36.80	49.70	SLT/CLY	12.90		
QBD-7513	49.70	50.90	CZ	1.20		
QBD-7513	50.90	53.00	SST	2.10		
QBD-7513	53.00	54.30	CZ	1.30		
QBD-7513	54.30	88.47	CGLM	34.17		
QBD-7513	88.47	89.78	D1	1.31		
QBD-7513	89.78	92.02	CLY	2.24		
QBD-7513	92.02	94.13	D2	2.11		
QBD-7513	94.13	98.00	CLY	3.87		
QBD-7513	98.00	125.00	SST/SLT	27.00		
QBD-7513	125.00	127.76	CLY	2.76		
QBD-7513	127.76	128.83	E1	1.07		
QBD-7513	128.83	129.16	E1 parting	0.33		
QBD-7513	129.16	129.43	E1	0.27		
QBD-7513	129.43	131.93	CLY	2.50		
QBD-7513	131.93	132.62	E2	0.69		
QBD-7513	132.62	134.31	CLY	1.69		
QBD-7513	134.31	134.52	E3	0.21		
QBD-7513	134.52	142.00	CLY	7.48		
QBD-7513	142.00	144.00	SLT	2.00		
QBD-7513	144.00	150.00	SST	6.00		
QBD-7513	150.00	153.08	SLT	3.08		
QBD-7513	153.08	155.03	F	1.95		
QBD-7513	155.03	155.17	F parting	0.14		
QBD-7513	155.17	155.51	F	0.34		
QBD-7513	155.51	157.52	CLY	2.01		
QBD-7513	157.52	158.24	CZ	0.72		
QBD-7513	158.24	166.00	CLY	7.76		
QBD-7513	166.00	177.00	SLT/SST	11.00		
QBD-7513	177.00	179.00	SLT	2.00		
QBD-7513	179.00	193.00	SST	14.00		
QBD-7513	193.00	194.40	CLY	1.40		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
QBD-7513	194.40	198.12	G	3.72		
QBD-7513	198.12	199.00	CLY	0.88		
QBD-7513	199.00	200.20	I	1.20		
QBD-7513	200.20	201.78	CLY	1.58		
QBD-7513	201.78	210.16	J	8.38		
QBD-7513	210.16	220.00	CLY/SLT	9.84		

## Drill Hole Summary Sheet

**Hole Number:** QBD 7514

<b>Hole Type</b>	Diamond Drill	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1779.26	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	200.51	<b>Hole Angle (°)</b>	70
<b>Length of Casing (m)</b>	1.00	<b>Date Drilling Complete</b>	1975
<b>Hole Diameter (cm)</b>	NQ	<b>Date Geophys. Logged</b>	relogged 23-Oct-06
<b>Core size</b>	NQ	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083361.13	630376.00	9359.05	12255.57

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
						X	9067

**Comments:** Hole lost in snow, no open hole log

Drilling Contractor: GT  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

### Downhole Survey Summary Table

Hole Number: QBD-7514

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: QBD 7514

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
Casing	0.00	3.00	3.00		
CZ	10.45	10.81	0.36		
D1	26.49	27.58	1.09		
CZ	30.40	30.80	0.40		
CZ	31.02	31.56	0.54		
CZ	35.30	35.79	0.49		
D2	35.79	39.36	3.57		
E1	74.76	78.98	4.22		
E2	79.82	80.63	0.81		
E3	82.49	83.11	0.62		
CZ	84.12	84.52	0.40		
F BONE	110.47	111.15	0.68		
F	111.15	113.86	2.71		
CZ	123.50	123.76	0.26		
G	176.62	185.03	8.41		
I	186.19	189.55	3.36		
J	195.68	201.17	5.49		



## Drill Hole Summary Sheet

**Hole Number:**                    **QBD 7661**

<b>Hole Type</b>	Diamond Drill	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1943.12	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	106.37	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	1976
<b>Hole Diameter (cm)</b>	HQ	<b>Date Geophys. Logged</b>	relogged 5-Sep-06
<b>Core size</b>	HQ	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082931.66	630710.71	9104.66	12736.98

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>		9067, 9239, 9411

**Comments:**                                    9056 deviation unserviceable

Drilling Contractor:                    Denison Mines Ltd.  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: QBD-7661

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	14.0	120.4	96.2	-89.3	0.7
14.0	16.0	122.3	98.1	-89.2	0.8
16.0	18.0	123.7	99.5	-89.4	0.6
18.0	20.0	125.3	101.1	-89.3	0.7
20.0	22.0	127.1	102.9	-89.3	0.7
22.0	24.0	128.7	104.5	-89.3	0.7
24.0	26.0	129.6	105.4	-89.1	0.9
26.0	28.0	130.0	105.8	-89.2	0.8
28.0	30.0	131.4	107.2	-89.3	0.7
30.0	32.0	132.6	108.4	-89.0	1.0
32.0	34.0	133.8	109.6	-89.1	0.9
34.0	36.0	134.7	110.5	-89.2	0.8
36.0	38.0	135.3	111.1	-89.3	0.7
38.0	40.0	136.1	111.9	-89.3	0.7
40.0	42.0	136.3	112.1	-89.3	0.7
42.0	44.0	137.1	112.9	-89.1	0.9
44.0	46.0	138.1	113.9	-89.3	0.7
46.0	48.0	139.7	115.5	-89.0	1.0
48.0	50.0	140.7	116.5	-89.2	0.8
50.0	52.0	141.8	117.6	-89.0	1.0
52.0	54.0	143.4	119.2	-89.2	0.8
54.0	56.0	144.6	120.4	-89.1	0.9
56.0	58.0	145.7	121.5	-89.1	0.9
58.0	60.0	147.2	123.0	-89.0	1.0
60.0	62.0	148.3	124.1	-89.2	0.8
62.0	64.0	149.6	125.4	-89.2	0.8
64.0	66.0	150.9	126.7	-89.1	0.9
66.0	68.0	152.4	128.2	-89.0	1.0
68.0	70.0	153.7	129.5	-89.0	1.0
70.0	72.0	154.9	130.7	-89.0	1.0
72.0	74.0	156.1	131.9	-89.1	0.9
74.0	76.0	157.3	133.1	-89.0	1.0
76.0	78.0	158.4	134.2	-89.0	1.0
78.0	80.0	159.6	135.4	-88.3	1.7
80.0	82.0	161.3	137.1	-88.7	1.3
82.0	84.0	162.6	138.4	-88.4	1.6
84.0	86.0	163.9	139.7	-88.3	1.7
86.0	88.0	165.1	140.9	-88.3	1.7
88.0	90.0	166.3	142.1	-88.4	1.6
90.0	92.0	167.3	143.1	-88.0	2.0
92.0	94.0	168.8	144.6	-87.0	3.0
94.0	96.0	170.4	146.2	-87.6	2.4



## Downhole Survey Summary Table

Hole Number: QBD-7661

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
96.0	98.0	172.4	148.2	-87.0	3.0
98.0	100.0	174.0	149.8	-86.1	3.9
100.0	102.0	175.5	151.3	-87.9	2.1
102.0	104.0	177.2	153.0	-86.8	3.2
104.0	106.5	179.7	155.5	-85.5	4.5

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: QBD-7661

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
Casing	0.00	3.00	3.00		
G	77.67	83.62	5.95		
I	84.54	85.64	1.10		
J	89.48	99.45	9.97		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
QBD-7661	0.00	1.50	OB	1.50		
QBD-7661	1.50	3.75	SLT	2.25		
QBD-7661	3.75	5.40	CC	1.65		
QBD-7661	5.40	10.50	SLT	5.10		
QBD-7661	10.50	12.30	SLT/CLY	1.80		
QBD-7661	12.30	37.00	SLT	24.70		
QBD-7661	37.00	45.00	SST	8.00		
QBD-7661	45.00	65.00	SST/SLT	20.00		
QBD-7661	65.00	72.50	SLT	7.50		
QBD-7661	72.50	77.67	CLY	5.17		
QBD-7661	77.67	83.62	G	5.95		
QBD-7661	83.62	84.54	SLT/CLY	0.92		
QBD-7661	84.54	85.64	I	1.10		
QBD-7661	85.64	87.60	SLT/CLY	1.96		
QBD-7661	87.60	89.48	CLY	1.88		
QBD-7661	89.48	99.45	J	9.97		
QBD-7661	99.45	103.70	CLY	4.25		

## Drill Hole Summary Sheet

**Hole Number: QBR 7570**

<b>Hole Type</b>		Rotary	<b>Survey Instrument / Accuracy</b>		Base Stn, cm-acc.
<b>Collar Elevation (m)</b>		1411.32	<b>Collar Bearing (°)</b>		Vertical
<b>Total Depth (m)</b>		102.92	<b>Hole Angle (°)</b>		90
<b>Length of Casing (m)</b>		12.00	<b>Date Drilling Complete</b>		1975
<b>Hole Diameter (cm)</b>		15.24 (6")	<b>Date Geophys. Logged</b>		relogged 23-Oct-06
<b>Core size</b>		6"	<b>Date Core Logged</b>		N/A
<b>NAD 83 UTM Coordinates</b>			<b>Mine Grid Coordinates*</b>		
<b>Northing (m)</b>	<b>Easting (m)</b>		<b>Northing (m)</b>	<b>Easting (m)</b>	
6084343.61	628925.12		9659.95	10529.36	

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
X	X	X	X				9055, 9239

**Comments:** Surveyed, Oct 26,2006

**Drilling Contractor:** Denison Mines Ltd.

**Geophysical Contractor:** Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
637701.86 E

## Downhole Survey Summary Table

Hole Number: QBR 7570

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	16.0	250.6	226.4	-89.2	0.8
16.0	18.0	249.0	224.8	-89.3	0.7
18.0	20.0	248.3	224.1	-89.4	0.6
20.0	22.0	249.8	225.6	-89.5	0.5
22.0	24.0	249.2	225.0	-89.7	0.3
24.0	26.0	250.1	225.9	-89.9	0.1
26.0	28.0	251.3	227.1	-89.9	0.1
28.0	30.0	252.7	228.5	-89.9	0.1
30.0	32.0	254.1	229.9	-89.8	0.2
32.0	34.0	255.8	231.6	-89.9	0.1
34.0	36.0	256.6	232.4	-89.9	0.1
36.0	38.0	259.4	235.2	-89.8	0.2
38.0	40.0	263.2	239.0	-89.7	0.3
40.0	42.0	267.8	243.6	-89.6	0.4
42.0	44.0	275.7	251.5	-89.5	0.5
44.0	46.0	284.0	259.8	-89.6	0.4
46.0	48.0	293.4	269.2	-89.2	0.8
48.0	50.0	303.7	279.5	-89.0	1.0
50.0	52.0	315.0	290.8	-88.6	1.4
52.0	54.0	326.4	302.2	-88.2	1.8
54.0	56.0	336.5	312.3	-87.8	2.2
56.0	58.0	344.4	320.2	-87.7	2.3
58.0	60.0	350.2	326.0	-87.6	2.4
60.0	62.0	355.0	330.8	-87.1	2.9
62.0	64.0	358.5	334.3	-87.1	2.9
64.0	66.0	1.4	337.2	-86.9	3.1
66.0	68.0	4.0	339.8	-86.8	3.2
68.0	70.0	6.1	341.9	-86.3	3.7
70.0	72.0	7.7	343.5	-86.6	3.4
72.0	74.0	9.4	345.2	-86.0	4.0
74.0	76.0	11.1	346.9	-85.8	4.2
76.0	78.0	12.6	348.4	-85.8	4.2
78.0	80.0	14.1	349.9	-85.9	4.1
80.0	82.0	15.5	351.3	-85.5	4.5
82.0	84.0	16.8	352.6	-85.5	4.5
84.0	86.0	18.0	353.8	-85.6	4.4
86.0	88.0	19.2	355.0	-85.9	4.1
88.0	90.0	20.4	356.2	-86.0	4.0
90.0	92.0	21.5	357.3	-85.9	4.1
92.0	94.0	22.6	358.4	-86.3	3.7
94.0	95.6	23.2	359.0	-86.6	3.4

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## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: QBR-7570

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
Casing	0.00	12.00	12.00		
E1	19.62	20.03	0.41		
CZ	20.03	23.21	3.18		
E2	23.56	24.25	0.69		
Washout	37.58	38.65	1.07		
F	42.75	43.64	0.89		
G	69.91	71.38	1.47		
J	77.30	85.13	7.83		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
QBR-7570	0.00	11.70	OB	11.70		
QBR-7570	11.70	19.62	CLY	7.92		
QBR-7570	19.62	20.03	E1	0.41		
QBR-7570	20.03	23.21	CZ	3.18		
QBR-7570	23.21	23.56	CLY	0.35		
QBR-7570	23.56	24.25	E2	0.69		
QBR-7570	24.25	28.75	SLT	4.50		
QBR-7570	28.75	33.30	CLY	4.55		
QBR-7570	33.30	37.58	SLT	4.28		
QBR-7570	37.58	38.65	Washout	1.07		
QBR-7570	38.65	42.75	CLY/SLT	4.10		
QBR-7570	42.75	43.64	F	0.89		
QBR-7570	43.64	48.00	SLT	4.36		
QBR-7570	48.00	54.70	CLY/SLT	6.70		
QBR-7570	54.70	62.70	SLT/SST	8.00		
QBR-7570	62.70	63.85	CLY	1.15		
QBR-7570	63.85	69.91	SLT	6.06		
QBR-7570	69.91	71.38	G	1.47		
QBR-7570	71.38	77.30	CLY	5.92		
QBR-7570	77.30	85.13	J	7.83		
QBR-7570	85.13	95.30	CLY	10.17		
QBR-7570	95.30	100.40	SLT	5.10		



## Drill Hole Summary Sheet

**Hole Number:**                    **QBR 7580**

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1981.02	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	262.13	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	9/7/2006 deepened
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	8-Sep-06
<b>Core size</b>	6"	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082774.07	630972.07	9085.19	13077.90

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>		9067, 9239, 9411

**Comments:**                                    9056 deviation unserviceable

Drilling Contractor:                    GT  
 Geophysical Contractor:            Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: QBR-7580

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	36.1	11.9	-86.0	4.0
10.0	12.0	34.4	10.2	-86.3	3.7
12.0	14.0	33.9	9.7	-87.2	2.8
14.0	16.0	33.3	9.1	-86.6	3.4
16.0	18.0	33.2	9.0	-88.1	1.9
18.0	20.0	33.2	9.0	-88.1	1.9
20.0	22.0	32.5	8.3	-88.7	1.3
22.0	24.0	32.6	8.4	-88.3	1.7
24.0	26.0	32.5	8.3	-88.1	1.9
26.0	28.0	32.5	8.3	-88.4	1.6
28.0	30.0	32.6	8.4	-88.7	1.3
30.0	32.0	32.6	8.4	-88.8	1.2
32.0	34.0	32.8	8.6	-88.9	1.1
34.0	36.0	33.2	9.0	-89.1	0.9
36.0	38.0	33.7	9.5	-89.2	0.8
38.0	40.0	34.4	10.2	-89.0	1.0
40.0	42.0	34.9	10.7	-88.7	1.3
42.0	44.0	35.5	11.3	-88.9	1.1
44.0	46.0	35.9	11.7	-88.8	1.2
46.0	48.0	36.0	11.8	-88.8	1.2
48.0	50.0	36.0	11.8	-89.4	0.6
50.0	52.0	35.9	11.7	-89.0	1.0
52.0	54.0	35.8	11.6	-89.0	1.0
54.0	56.0	35.6	11.4	-89.0	1.0
56.0	58.0	35.0	10.8	-89.6	0.4
58.0	59.0	34.8	10.6	-89.5	0.5
59.0	60.0	34.6	10.4	-89.7	0.3
60.0	62.0	34.4	10.2	-89.5	0.5
62.0	64.0	33.9	9.7	-89.5	0.5
64.0	66.0	33.4	9.2	-88.4	1.6
66.0	68.0	32.8	8.6	-89.5	0.5
68.0	70.0	32.4	8.2	-89.6	0.4
70.0	72.0	32.1	7.9	-89.1	0.9
72.0	74.0	31.9	7.7	-89.4	0.6
74.0	76.0	31.9	7.7	-88.5	1.5
76.0	78.0	31.6	7.4	-89.0	1.0
78.0	80.0	31.3	7.1	-89.2	0.8
80.0	82.0	30.9	6.7	-89.0	1.0
82.0	84.0	30.0	5.8	-88.5	1.5
84.0	86.0	28.7	4.5	-87.7	2.3
86.0	88.0	26.5	2.3	-86.8	3.2
88.0	90.0	383.5	359.3	-87.3	2.7

## Downhole Survey Summary Table

Hole Number: QBR-7580

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
90.0	92.0	379.6	355.4	-87.2	2.8
92.0	94.0	373.8	349.6	-87.1	2.9
94.0	96.0	364.6	340.4	-86.2	3.8
96.0	98.0	351.4	327.2	-85.7	4.3
98.0	100.0	329.4	305.2	-84.8	5.2
100.0	102.0	301.2	277.0	-84.3	5.7
102.0	104.0	277.3	253.1	-84.0	6.0
104.0	106.0	260.9	236.7	-83.4	6.6
106.0	107.0	255.3	231.1	-82.3	7.7
107.0	108.0	251.0	226.8	-82.1	7.9
108.0	109.0	247.3	223.1	-81.9	8.1
109.0	110.0	244.5	220.3	-82.0	8.0
110.0	112.0	240.8	216.6	-82.3	7.7
112.0	114.0	238.3	214.1	-81.6	8.4
114.0	116.0	236.2	212.0	-81.7	8.3
116.0	118.0	234.7	210.5	-81.7	8.3
118.0	120.0	233.4	209.2	-82.2	7.8
120.0	122.0	232.3	208.1	-81.7	8.3
122.0	124.0	231.3	207.1	-81.4	8.6
124.0	126.0	230.5	206.3	-81.3	8.7
126.0	128.0	229.8	205.6	-81.1	8.9
128.0	130.0	229.0	204.8	-81.0	9.0
130.0	132.0	228.3	204.1	-80.8	9.2
132.0	134.0	227.7	203.5	-81.3	8.7
134.0	136.0	227.0	202.8	-79.4	10.6
136.0	138.0	226.4	202.2	-80.8	9.2
138.0	140.0	226.0	201.8	-80.5	9.5
140.0	142.0	225.7	201.5	-80.5	9.5
142.0	144.0	225.3	201.1	-80.7	9.3
144.0	146.0	225.0	200.8	-80.3	9.7
146.0	148.0	224.8	200.6	-80.7	9.3
148.0	150.0	224.5	200.3	-80.9	9.1
150.0	152.0	224.3	200.1	-80.4	9.6
152.0	154.0	224.1	199.9	-80.3	9.7
154.0	156.0	223.9	199.7	-80.2	9.8
156.0	158.0	223.8	199.6	-80.1	9.9
158.0	160.0	223.6	199.4	-79.7	10.3
160.0	162.0	223.5	199.3	-80.4	9.6
162.0	164.0	223.4	199.2	-80.3	9.7
164.0	166.0	223.3	199.1	-80.0	10.0
166.0	168.0	223.2	199.0	-79.9	10.1
168.0	170.0	223.2	199.0	-80.0	10.0

## Downhole Survey Summary Table

Hole Number: QBR-7580

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
170.0	172.0	223.1	198.9	-80.0	10.0
172.0	174.0	223.0	198.8	-79.8	10.2
174.0	176.0	223.0	198.8	-79.9	10.1
176.0	178.0	222.9	198.7	-79.5	10.5
178.0	180.0	222.9	198.7	-79.7	10.3
180.0	182.0	222.9	198.7	-79.7	10.3
182.0	184.0	222.8	198.6	-79.5	10.5
184.0	186.0	222.8	198.6	-79.8	10.2
186.0	188.0	222.8	198.6	-79.9	10.1
188.0	190.0	222.8	198.6	-79.9	10.1
190.0	192.0	222.8	198.6	-80.2	9.8
192.0	194.0	222.8	198.6	-80.0	10.0
194.0	196.0	222.8	198.6	-79.7	10.3
196.0	198.0	222.8	198.6	-79.9	10.1
198.0	200.0	222.8	198.6	-80.1	9.9
200.0	202.0	222.8	198.6	-79.8	10.2
202.0	204.0	222.8	198.6	-79.2	10.8
204.0	206.0	222.9	198.7	-78.9	11.1
206.0	208.0	223.0	198.8	-79.2	10.8
208.0	210.0	223.0	198.8	-78.8	11.2
210.0	212.0	223.1	198.9	-79.0	11.0
212.0	214.0	223.2	199.0	-78.6	11.4
214.0	216.0	223.3	199.1	-78.0	12.0
216.0	218.0	223.4	199.2	-78.0	12.0
218.0	220.0	223.5	199.3	-77.3	12.7
220.0	222.0	223.6	199.4	-76.5	13.5
222.0	224.0	223.7	199.5	-76.4	13.6
224.0	226.0	223.8	199.6	-76.2	13.8
226.0	228.0	223.9	199.7	-76.5	13.5
228.0	230.0	224.0	199.8	-75.5	14.5
230.0	232.0	224.1	199.9	-75.2	14.8
232.0	234.0	224.1	199.9	-74.7	15.3
234.0	236.0	224.2	200.0	-72.9	17.1
236.0	238.0	224.2	200.0	-75.0	15.0
238.0	240.0	224.2	200.0	-73.0	17.0
240.0	242.0	224.2	200.0	-72.8	17.2
242.0	244.0	224.1	199.9	-72.9	17.1
244.0	246.0	224.1	199.9	-73.0	17.0
246.0	248.0	224.1	199.9	-72.4	17.6
248.0	250.0	224.1	199.9	-71.8	18.2
250.0	252.0	224.0	199.8	-71.9	18.1
252.0	254.0	224.0	199.8	-71.5	18.5

## Downhole Survey Summary Table

Hole Number: QBR-7580

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
254.0	256.0	223.9	199.7	-72.4	17.6
256.0	258.0	223.8	199.6	-71.5	18.5
258.0	262.1	223.6	199.4	-70.9	19.1

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: QBR 7580

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	13.58	15.42	1.84		
CZ	18.74	19.18	0.44		
D2	19.31	23.43	4.12		
CZ	24.20	24.48	0.28		
E1	89.15	92.03	2.88		
E2	92.90	93.83	0.93		
E3	96.36	96.93	0.57		
F	118.47	120.78	2.31		
F	121.00	121.76	0.76		
CZ	129.61	130.16	0.55		
F BONE	141.82	142.15	0.33		
F	142.15	143.14	0.99		
CZ	157.42	158.76	1.34		
CZ	160.70	160.98	0.28		
G	228.72	239.80	11.08		
I	242.77	244.36	1.59		
J	247.08	257.66	10.58		
K1	274.30	275.20	0.90		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
QBR-7580	0.00	0.50	OB	0.50		
QBR-7580	0.50	13.58	CGLM	13.08		
QBR-7580	13.58	15.42	D1	1.84		
QBR-7580	15.42	18.74	CLY/SLT	3.32		
QBR-7580	18.74	19.18	CZ	0.44		
QBR-7580	19.18	19.31	CLY	0.13		
QBR-7580	19.31	23.43	D2	4.12		
QBR-7580	23.43	24.20	CLY	0.77		
QBR-7580	24.20	24.48	CZ	0.28		
QBR-7580	24.48	28.00	CLY	3.52		
QBR-7580	28.00	43.85	SLT/CLY	15.85		
QBR-7580	43.85	45.55	SST	1.70		
QBR-7580	45.55	55.75	SST/SLT	10.20		
QBR-7580	55.75	85.35	SST	29.60		
QBR-7580	85.35	89.15	SLT	3.80		
QBR-7580	89.15	92.03	E1	2.88		
QBR-7580	92.03	92.90	SLT/CLY	0.87		
QBR-7580	92.90	93.83	E2	0.93		
QBR-7580	93.83	95.40	SST	1.57		
QBR-7580	95.40	96.36	CLY	0.96		
QBR-7580	96.36	96.93	E3	0.57		
QBR-7580	96.93	100.00	SST/SLT	3.07		
QBR-7580	100.00	103.00	CLY/SLT	3.00		
QBR-7580	103.00	106.00	SLT/CLY	3.00		
QBR-7580	106.00	117.80	SLT	11.80		
QBR-7580	117.80	118.47	F BONE	0.67		
QBR-7580	118.47	120.78	F	2.31		
QBR-7580	120.78	121.00	CLY	0.22		
QBR-7580	121.00	121.76	F	0.76		
QBR-7580	121.76	122.60	CLY	0.84		
QBR-7580	122.60	125.00	SST	2.40		
QBR-7580	125.00	126.70	SLT	1.70		
QBR-7580	126.70	129.61	SLT/CLY	2.91		
QBR-7580	129.61	130.16	CZ	0.55		
QBR-7580	130.16	141.82	SLT/CLY	11.66		
QBR-7580	141.82	142.15	F BONE	0.33		
QBR-7580	142.15	143.14	F	0.99		
QBR-7580	143.14	144.75	CLY	1.61		
QBR-7580	144.75	147.85	SST	3.10		
QBR-7580	147.85	155.45	SLT/CLY	7.60		
QBR-7580	155.45	157.42	CLY	1.97		
QBR-7580	157.42	158.76	CZ	1.34		
QBR-7580	158.76	160.70	CLY/SLT	1.94		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
QBR-7580	160.70	160.98	CZ	0.28		
QBR-7580	160.98	165.40	CLY/SLT	4.42		
QBR-7580	165.40	170.60	CC	5.20		
QBR-7580	170.60	179.70	CLY	9.10		
QBR-7580	179.70	184.30	SLT	4.60		
QBR-7580	184.30	216.75	SST	32.45		
QBR-7580	216.75	222.70	SST/SLT	5.95		
QBR-7580	222.70	223.90	SST	1.20		
QBR-7580	223.90	228.72	CLY	4.82		
QBR-7580	228.72	239.80	G	11.08		
QBR-7580	239.80	242.77	CC	2.97		
QBR-7580	242.77	244.36	I	1.59		
QBR-7580	244.36	247.08	CLY	2.72		
QBR-7580	247.08	257.66	J	10.58		
QBR-7580	257.66	263.60	CLY	5.94		
QBR-7580	263.60	274.30	SLT	10.70		
QBR-7580	274.30	275.20	K1	0.90		



## Drill Hole Summary Sheet

**Hole Number:**                    **QBR 7582**

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1943.12	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	23.44	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	1975
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	relogged 8-Sep-06
<b>Core size</b>	4.5"	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082684.93	630972.07	8986.84	13076.55

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>		9067, 9239, 9411

**Comments:**                                    9056 deviation unserviceable

Drilling Contractor:                    Denison Mines Ltd.  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: QBR 7582

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	321.2	297.0	-89.4	0.6
10.0	12.0	322.9	298.7	-89.6	0.4
12.0	14.0	321.8	297.6	-89.6	0.4
14.0	16.0	320.0	295.8	-89.9	0.1
16.0	18.0	320.5	296.3	-89.5	0.5
18.0	20.0	316.3	292.1	-89.2	0.8
20.0	22.0	304.7	280.5	-88.3	1.7
22.0	23.5	296.2	272.0	-88.2	1.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: QBR-7582

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	4.00	4.81	0.81		
I	4.81	5.61	0.80		
CZ	5.61	6.75	1.14		
J	8.29	17.71	9.42		
CZ	19.02	19.23	0.21		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
QBR-7582	0.00	3.00	Casing	3.00		
QBR-7582	3.00	4.00	SLT	1.00		
QBR-7582	4.00	4.81	CZ	0.81		
QBR-7582	4.81	5.61	I	0.80		
QBR-7582	5.61	6.75	CZ	1.14		
QBR-7582	6.75	8.29	CLY	1.54		
QBR-7582	8.29	17.71	J	9.42		
QBR-7582	17.71	19.02	CLY	1.31		
QBR-7582	19.02	19.23	CZ	0.21		
QBR-7582	19.23	20.70	CLY	1.47		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2005-3 Deepened

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1718.62	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	198.08	<b>Hole Angle (°)</b>	80
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	25-Oct-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	26-Oct-06
<b>Core size</b>	4.5"	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083494.56	630157.72		

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		9239, 9055, 9411

**Comments:**

Drilling Contractor: GT  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2005-3

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
88.0	90.0	212.3	188.1	-71.5	18.5
90.0	92.0	212.3	188.1	-71.5	18.5
92.0	94.0	212.2	188.0	-70.9	19.1
94.0	96.0	212.2	188.0	-70.8	19.2
96.0	98.0	212.2	188.0	-70.4	19.6
98.0	100.0	212.2	188.0	-70.3	19.7
100.0	102.0	212.2	188.0	-70.2	19.8
102.0	104.0	212.2	188.0	-70.1	19.9
104.0	106.0	212.2	188.0	-69.4	20.6
106.0	108.0	212.3	188.1	-69.5	20.5
108.0	110.0	212.3	188.1	-69.6	20.4
110.0	112.0	212.3	188.1	-69.4	20.6
112.0	114.0	212.3	188.1	-69.7	20.3
114.0	116.0	212.3	188.1	-69.3	20.7
116.0	118.0	212.4	188.2	-69.4	20.6
118.0	120.0	212.4	188.2	-68.8	21.2
120.0	122.0	212.4	188.2	-68.9	21.1
122.0	124.0	212.5	188.3	-69.2	20.8
124.0	126.0	212.5	188.3	-68.1	21.9
126.0	128.0	212.5	188.3	-68.3	21.7
128.0	130.0	212.6	188.4	-68.2	21.8
130.0	132.0	212.6	188.4	-67.8	22.2
132.0	134.0	212.7	188.5	-67.7	22.3
134.0	136.0	212.7	188.5	-66.9	23.1
136.0	138.0	212.8	188.6	-67.1	22.9
138.0	140.0	212.8	188.6	-66.9	23.1
140.0	142.0	212.9	188.7	-66.6	23.4
142.0	144.0	213.0	188.8	-66.4	23.6
144.0	146.0	213.0	188.8	-65.6	24.4
146.0	148.0	213.1	188.9	-64.8	25.2
148.0	150.0	213.2	189.0	-64.9	25.1
150.0	152.0	213.2	189.0	-64.2	25.8
152.0	154.0	213.3	189.1	-64.1	25.9
154.0	156.0	213.4	189.2	-64.8	25.2
156.0	158.0	213.5	189.3	-63.7	26.3
158.0	160.0	213.5	189.3	-64.6	25.4
160.0	162.0	213.6	189.4	-63.4	26.6
162.0	164.0	213.7	189.5	-63.2	26.8
164.0	166.0	213.8	189.6	-63.1	26.9
166.0	168.0	213.8	189.6	-62.3	27.7
168.0	170.0	213.9	189.7	-62.5	27.5
170.0	172.0	214.0	189.8	-62.2	27.8

## Downhole Survey Summary Table

Hole Number: RHTR 2005-3

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
172.0	174.0	214.1	189.9	-62.7	27.3
174.0	176.0	214.2	190.0	-61.6	28.4
176.0	178.0	214.3	190.1	-61.4	28.6
178.0	180.0	214.3	190.1	-61.3	28.7
180.0	182.0	214.4	190.2	-60.9	29.1
182.0	184.0	214.5	190.3	-61.1	28.9
184.0	186.0	214.6	190.4	-60.5	29.5
186.0	188.0	214.7	190.5	-61.1	28.9
188.0	190.0	214.7	190.5	-61.0	29.0
190.0	192.0	214.8	190.6	-61.1	28.9
192.0	194.0	214.9	190.7	-59.5	30.5
194.0	196.0	215.0	190.8	-60.5	29.5
196.0	198.0	215.1	190.9	-60.6	29.4
198.0	203.0	215.1	190.9	-60.6	29.4

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2005-3

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	2.40	3.48	1.08		
CZ	5.93	6.40	0.47		
D2	8.93	12.00	3.07		
E1	41.75	44.42	2.67		
E2	45.27	46.18	0.91		
E3	48.18	48.60	0.42		
F	84.24	86.71	2.47		
CZ	96.87	97.18	0.31		
G	153.41	160.13	6.72		
CZ	160.30	160.59	0.29		
I	161.08	162.30	1.22		
J	168.63	174.04	5.41		
K1	187.52	189.70	2.18		
K2	189.80	192.70	2.90		





## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2005-3	86.71	88.00	CLY	1.29		
RHTR2005-3	88.00	89.55	SST	1.55		
RHTR2005-3	89.55	91.60	SLT	2.05		
RHTR2005-3	96.87	97.18	CZ	0.31		
RHTR2005-3	97.18	98.45	CLY	1.27		
RHTR2005-3	98.45	99.60	SST	1.15		
RHTR2005-3	99.60	102.80	SLT/CLY	3.20		
RHTR2005-3	102.80	121.45	SLT	18.65		
RHTR2005-3	121.45	132.60	SST	11.15		
RHTR2005-3	132.60	135.75	CLY	3.15		
RHTR2005-3	135.75	148.90	SLT/SST	13.15		
RHTR2005-3	148.90	151.50	SLT	2.60		
RHTR2005-3	151.50	153.41	CLY	1.91		
RHTR2005-3	153.41	160.13	G	6.72		
RHTR2005-3	160.13	160.30	CLY	0.17		
RHTR2005-3	160.30	160.59	CZ	0.29		
RHTR2005-3	160.59	161.08	CC	0.49		
RHTR2005-3	161.08	162.30	I	1.22		
RHTR2005-3	162.30	168.63	CLY/SLT	6.33		
RHTR2005-3	168.63	174.04	J	5.41		
RHTR2005-3	174.04	180.00	CLY	5.96		
RHTR2005-3	180.00	184.20	SLT	4.20		
RHTR2005-3	184.20	187.52	SLT/SST	3.32		
RHTR2005-3	187.52	189.70	K1	2.18		
RHTR2005-3	189.70	189.80	CC	0.10		
RHTR2005-3	189.80	192.70	K2	2.90		
RHTR2005-3	192.70	193.45	SLT	0.75		
RHTR2005-3	193.45	194.65	SLT/SST	1.20		
RHTR2005-3	194.65	196.50	SLT	1.85		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2005-3 Deepened

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1713.04	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	91.84	<b>Hole Angle (°)</b>	70
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	26-Oct-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	2-Nov-06
<b>Core size</b>	4.5"	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083375.78	630082.47		

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>				9239, 9055

**Comments:**

Drilling Contractor: GT  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2005-4

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
78.0	80.0	212.3	188.1	-58.9	31.1
80.0	82.0	212.2	188.0	-58.9	31.1
82.0	84.0	212.1	187.9	-58.2	31.8
84.0	86.0	212.0	187.8	-59.4	30.6
86.0	88.0	211.9	187.7	-57.4	32.6
88.0	90.0	211.8	187.6	-58.9	31.1
90.0	92.0	211.8	187.6	-58.5	31.5
92.0	96.0	211.8	187.6	-58.5	31.5

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2005-4

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
Casing	0.00	3.00	3.00		
G	8.77	14.83	6.06		
I	15.00	15.30	0.30		
J	17.71	22.83	5.12		
K1	36.02	37.20	1.18		
K2	38.27	39.36	1.09		
K3	45.02	46.05	1.03		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2005-4	0.00	2.00	OB	2.00		
RHTR2005-4	2.00	7.30	SLT	5.30		
RHTR2005-4	7.30	8.77	CLY	1.47		
RHTR2005-4	8.77	14.83	G	6.06		
RHTR2005-4	14.83	17.71	CLY	2.88		
RHTR2005-4	17.71	22.83	J	5.12		
RHTR2005-4	22.83	31.30	STL/CLY	8.47		
RHTR2005-4	31.30	36.02	SST/SLT	4.72		
RHTR2005-4	36.02	37.20	K1	1.18		
RHTR2005-4	37.20	38.27	CLY	1.07		
RHTR2005-4	38.27	39.36	K2	1.09		
RHTR2005-4	39.36	45.02	SLT	5.66		
RHTR2005-4	45.02	46.05	K3	1.03		
RHTR2005-4	46.05	49.00	SST/SLT	2.95		
RHTR2005-4	49.00	53.80	SST	4.80		
RHTR2005-4	53.80	65.30	SLT	11.50		
RHTR2005-4	65.30	66.80	CLY	1.50		
RHTR2005-4	66.80	82.00	SST	15.20		
RHTR2005-4	82.00	83.70	SLT/SST	1.70		
RHTR2005-4	83.70	96.00	SST	12.30		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2005-10 Deepened

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1666.75	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	248.57	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	6-Oct-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	8-Nov-06
<b>Core size</b>	4.5"	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083685.50	629960.04		

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
						<b>X</b>	9068

**Comments:** Collapsed just below casing

Drilling Contractor: GT  
Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
637701.86 E





## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

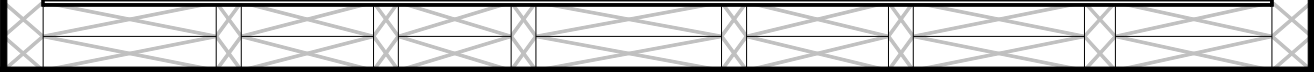
Hole Number: RHTR 2005-4

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
Casing	0.00	3.00	3.00		
F	24.42	25.41	0.99		
G bone	95.76	96.05	0.29		
G	96.05	100.39	4.34		
I	100.87	102.02	1.15		
J	104.67	114.70	10.03		

# Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
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## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-1

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1409.00	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	91.72	<b>Hole Angle (°)</b>	80
<b>Length of Casing (m)</b>	12.00	<b>Date Drilling Complete</b>	24-Jul-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	23-Oct-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6084396.54	628964.18	9724.25	10543.27

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		9239, 9055, 9411

**Comments:**

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-1

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	25.1	37.2	13.0	-78.4	11.6
25.1	27.1	36.7	12.5	-78.3	11.7
27.1	29.1	35.9	11.7	-77.3	12.7
29.1	31.1	35.3	11.1	-78.1	11.9
31.1	33.1	34.8	10.6	-76.2	13.8
33.1	35.1	34.5	10.3	-77.4	12.6
35.1	37.1	34.3	10.1	-76.1	13.9
37.1	39.1	34.1	9.9	-75.1	14.9
39.1	41.1	34.0	9.8	-74.6	15.4
41.1	43.1	33.9	9.7	-76.1	13.9
43.1	45.1	33.9	9.7	-74.9	15.1
45.1	47.1	33.9	9.7	-73.7	16.3
47.1	49.1	34.0	9.8	-73.1	16.9
49.1	51.1	34.1	9.9	-72.3	17.7
51.1	53.1	34.2	10.0	-73.0	17.0
53.1	55.1	34.2	10.0	-72.9	17.1
55.1	57.1	34.3	10.1	-73.1	16.9
57.1	59.1	34.4	10.2	-73.2	16.8
59.1	61.1	34.4	10.2	-71.5	18.5
61.1	63.1	34.4	10.2	-71.0	19.0
63.1	65.1	34.5	10.3	-72.5	17.5
65.1	67.1	34.5	10.3	-71.1	18.9
67.1	69.1	34.5	10.3	-71.4	18.6
69.1	71.1	34.6	10.4	-70.1	19.9
71.1	73.1	34.6	10.4	-69.4	20.6
73.1	75.1	34.6	10.4	-69.7	20.3
75.1	77.1	34.6	10.4	-69.0	21.0
77.1	79.1	34.6	10.4	-68.4	21.6
79.1	81.1	34.6	10.4	-68.2	21.8
81.1	83.1	34.6	10.4	-68.3	21.7
83.1	85.1	34.6	10.4	-67.6	22.4
85.1	87.1	34.6	10.4	-67.1	22.9
87.1	89.1	34.6	10.4	-66.4	23.6
89.1	91.9	34.5	10.3	-66.3	23.7

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geol.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR 2006-1

Confirmed by: Ron McIntyre, P.Geol.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	44.45	49.73	5.28		
I	50.58	52.01	1.43		
J	53.56	61.74	8.18		
K1	79.82	80.98	1.16		
K2	82.15	83.26	1.11		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-1	0.00	11.20	OB	11.20		
RHTR2006-1	11.20	21.30	SLT	21.30		
RHTR2006-1	21.30	29.60	SST	8.30		
RHTR2006-1	29.60	43.50	SLT	13.90		
RHTR2006-1	43.50	44.45	CLY	0.95		
RHTR2006-1	44.45	49.73	G	5.28		
RHTR2006-1	49.73	50.58	CLY	0.85		
RHTR2006-1	50.58	52.01	I	1.43		
RHTR2006-1	52.01	53.56	CLY	1.55		
RHTR2006-1	53.56	61.74	J	8.18		
RHTR2006-1	61.74	64.00	CLY/SLT	2.26		
RHTR2006-1	64.00	72.80	SLT	8.80		
RHTR2006-1	72.80	73.80	SST	1.00		
RHTR2006-1	73.80	76.00	SLT	2.20		
RHTR2006-1	76.00	79.82	SST	3.82		
RHTR2006-1	79.82	80.98	K1	1.16		
RHTR2006-1	80.98	82.15	CLY	1.17		
RHTR2006-1	82.15	83.26	K2	1.11		
RHTR2006-1	83.26	84.35	SST	1.09		
RHTR2006-1	84.35	89.00	SLT	4.65		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-2

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1982.87	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	361.64	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	5.50	<b>Date Drilling Complete</b>	6-Aug-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	8/9/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082878.72	631058.79	9199.16	13076.15

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		9056, 9239, 9411

**Comments:**

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-2

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	239.2	215.0	-88.4	1.6
10.0	12.0	262.4	238.2	-88.9	1.1
12.0	14.0	272.8	248.6	-89.1	0.9
14.0	16.0	276.9	252.7	-88.9	1.1
16.0	18.0	280.0	255.8	-89.8	0.2
18.0	20.0	281.6	257.4	-89.6	0.5
20.0	22.0	282.8	258.6	-89.8	0.2
22.0	24.0	283.0	258.8	-89.7	0.3
24.0	26.0	282.8	258.6	-89.7	0.3
26.0	28.0	282.8	258.6	-89.8	0.2
28.0	30.0	282.7	258.5	-89.5	0.5
30.0	32.0	282.7	258.5	-89.6	0.4
32.0	34.0	282.6	258.4	-89.6	0.4
34.0	36.0	282.3	258.1	-89.9	0.1
36.0	38.0	282.1	257.9	-89.5	0.5
38.0	40.0	281.7	257.5	-89.8	0.2
40.0	42.0	281.7	257.5	-89.9	0.1
42.0	44.0	281.3	257.1	-89.6	0.4
44.0	46.0	281.0	256.8	-90.0	0.0
46.0	48.0	280.9	256.7	-89.7	0.3
48.0	50.0	280.5	256.3	-89.9	0.1
50.0	52.0	280.3	256.1	-90.0	0.0
52.0	54.0	280.1	255.9	-90.0	0.0
54.0	56.0	279.9	255.7	-89.9	0.1
56.0	58.0	279.6	255.4	-90.0	0.0
58.0	60.0	279.3	255.1	-89.9	0.1
60.0	62.0	279.1	254.9	-89.9	0.1
62.0	64.0	278.8	254.6	-89.9	0.1
64.0	66.0	278.4	254.2	-89.7	0.3
66.0	68.0	278.0	253.8	-89.6	0.4
68.0	70.0	277.5	253.3	-89.5	0.5
70.0	72.0	277.0	252.8	-89.5	0.5
72.0	74.0	276.4	252.2	-89.5	0.5
74.0	76.0	275.8	251.6	-89.4	0.6
76.0	78.0	275.3	251.1	-89.3	0.7
78.0	80.0	274.7	250.5	-89.0	1.0
80.0	82.0	274.0	249.8	-88.5	1.5
82.0	84.0	273.2	249.0	-88.8	1.3
84.0	86.0	272.6	248.4	-88.5	1.5
86.0	88.0	272.1	247.9	-89.3	0.7
88.0	90.0	271.6	247.4	-88.9	1.1
90.0	92.0	271.0	246.8	-88.3	1.7



## Downhole Survey Summary Table

Hole Number: RHTR 2006-2

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
92.0	94.0	270.4	246.2	-88.2	1.8
94.0	96.0	269.6	245.4	-88.0	2.0
96.0	98.0	268.9	244.7	-88.2	1.8
98.0	100.0	268.2	244.0	-88.3	1.7
100.0	102.0	267.6	243.4	-88.0	2.0
102.0	104.0	267.0	242.8	-87.8	2.2
104.0	106.0	266.4	242.2	-87.4	2.6
106.0	108.0	265.8	241.6	-87.5	2.5
108.0	110.0	265.2	241.0	-87.7	2.3
110.0	112.0	264.7	240.5	-87.6	2.4
112.0	114.0	264.4	240.2	-87.6	2.4
114.0	116.0	263.9	239.7	-87.4	2.6
116.0	118.0	263.4	239.2	-87.7	2.3
118.0	120.0	263.0	238.8	-87.6	2.4
120.0	122.0	262.6	238.4	-87.7	2.3
122.0	124.0	262.2	238.0	-87.3	2.7
124.0	126.0	261.8	237.6	-87.3	2.7
126.0	128.0	261.3	237.1	-87.1	2.9
128.0	130.0	261.0	236.8	-87.2	2.8
130.0	132.0	260.6	236.4	-87.0	3.1
132.0	134.0	260.3	236.1	-87.2	2.8
134.0	136.0	260.0	235.8	-86.6	3.4
136.0	138.0	259.7	235.5	-86.7	3.3
138.0	140.0	259.3	235.1	-86.7	3.3
140.0	142.0	259.0	234.8	-86.6	3.5
142.0	144.0	258.7	234.5	-86.3	3.7
144.0	146.0	258.3	234.1	-86.5	3.5
146.0	148.0	258.0	233.8	-86.0	4.0
148.0	150.0	257.7	233.5	-86.2	3.8
150.0	152.0	257.4	233.2	-86.1	3.9
152.0	154.0	257.1	232.9	-86.2	3.8
154.0	156.0	256.7	232.5	-86.2	3.8
156.0	158.0	256.5	232.3	-86.1	3.9
158.0	160.0	256.2	232.0	-85.9	4.1
160.0	162.0	255.8	231.6	-86.0	4.0
162.0	164.0	255.6	231.4	-85.9	4.1
164.0	166.0	255.3	231.1	-86.1	4.0
166.0	168.0	255.1	230.9	-85.6	4.4
168.0	170.0	254.8	230.6	-85.0	5.0
170.0	172.0	254.6	230.4	-86.1	3.9
172.0	174.0	254.3	230.1	-85.8	4.2
174.0	176.0	254.0	229.8	-84.9	5.1

## Downhole Survey Summary Table

Hole Number: RHTR 2006-2

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
176.0	178.0	253.8	229.6	-85.2	4.8
178.0	180.0	253.5	229.3	-85.2	4.8
180.0	182.0	253.2	229.0	-85.0	5.0
182.0	184.0	252.9	228.7	-84.9	5.1
184.0	186.0	252.6	228.4	-84.7	5.3
186.0	188.0	252.4	228.2	-84.9	5.1
188.0	190.0	252.2	228.0	-84.7	5.3
190.0	192.0	252.0	227.8	-84.2	5.8
192.0	194.0	251.8	227.6	-84.1	5.9
194.0	196.0	251.6	227.4	-83.8	6.3
196.0	198.0	251.5	227.3	-84.4	5.6
198.0	200.0	251.2	227.0	-83.8	6.2
200.0	202.0	251.2	227.0	-83.6	6.4
202.0	204.0	250.9	226.7	-83.4	6.6
204.0	206.0	250.8	226.6	-83.2	6.8
206.0	208.0	250.8	226.6	-83.2	6.8
208.0	210.0	250.6	226.4	-83.3	6.7
210.0	212.0	250.5	226.3	-83.1	7.0
212.0	214.0	250.4	226.2	-82.9	7.1
214.0	216.0	250.3	226.1	-83.0	7.0
216.0	218.0	250.3	226.1	-82.6	7.4
218.0	220.0	250.2	226.0	-82.5	7.5
220.0	222.0	250.2	226.0	-82.3	7.8
222.0	224.0	250.1	225.9	-82.0	8.0
224.0	226.0	250.1	225.9	-82.2	7.8
226.0	228.0	250.0	225.8	-82.0	8.0
228.0	230.0	250.0	225.8	-81.8	8.3
230.0	232.0	249.9	225.7	-81.5	8.5
232.0	234.0	249.9	225.7	-81.4	8.6
234.0	236.0	249.8	225.6	-81.2	8.8
236.0	238.0	249.8	225.6	-81.2	8.8
238.0	240.0	249.7	225.5	-80.9	9.1
240.0	242.0	249.6	225.4	-80.8	9.2
242.0	244.0	249.6	225.4	-80.5	9.5
244.0	246.0	249.6	225.4	-80.5	9.5
246.0	248.0	249.6	225.4	-80.4	9.6
248.0	250.0	249.6	225.4	-80.4	9.7
250.0	252.0	249.5	225.3	-80.1	9.9
252.0	254.0	249.4	225.2	-80.1	9.9
254.0	256.0	249.4	225.2	-79.8	10.2
256.0	258.0	249.4	225.2	-80.6	9.4
258.0	260.0	249.4	225.2	-80.9	9.1

## Downhole Survey Summary Table

Hole Number: RHTR 2006-2

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
260.0	262.0	249.3	225.1	-80.6	9.4
262.0	264.0	249.3	225.1	-80.5	9.5
264.0	266.0	249.2	225.0	-80.7	9.3
266.0	268.0	249.2	225.0	-80.6	9.4
268.0	270.0	249.1	224.9	-80.4	9.6
270.0	272.0	249.0	224.8	-80.1	9.9
272.0	274.0	248.9	224.7	-81.1	8.9
274.0	276.0	248.8	224.6	-80.9	9.1
276.0	278.0	248.8	224.6	-80.2	9.8
278.0	280.0	248.7	224.5	-80.0	10.0
280.0	282.0	248.6	224.4	-80.3	9.7
282.0	284.0	248.4	224.2	-80.1	9.9
284.0	286.0	248.3	224.1	-80.4	9.6
286.0	288.0	248.1	223.9	-80.6	9.5
288.0	290.0	248.0	223.8	-80.3	9.7
290.0	292.0	247.8	223.6	-80.5	9.5
292.0	294.0	247.6	223.4	-79.9	10.1
294.0	296.0	247.4	223.2	-79.8	10.2
296.0	298.0	247.3	223.1	-80.1	10.0
298.0	300.0	247.1	222.9	-80.2	9.8
300.0	302.0	246.9	222.7	-80.0	10.0
302.0	304.0	246.7	222.5	-80.0	10.0
304.0	306.0	246.4	222.2	-79.8	10.2
306.0	308.0	246.2	222.0	-80.6	9.4
308.0	310.0	246.0	221.8	-80.1	9.9
310.0	312.0	245.7	221.5	-80.4	9.6
312.0	314.0	245.5	221.3	-80.6	9.4
314.0	316.0	245.3	221.1	-80.4	9.6
316.0	318.0	245.1	220.9	-80.6	9.4
318.0	320.0	244.8	220.6	-79.9	10.1
320.0	322.0	244.6	220.4	-80.0	10.0
322.0	324.0	244.3	220.1	-81.8	8.2
324.0	326.0	244.0	219.8	-80.0	10.0
326.0	328.0	243.7	219.5	-79.3	10.7
328.0	330.0	243.5	219.3	-80.7	9.3
330.0	332.0	243.2	219.0	-80.2	9.8
332.0	334.0	242.9	218.7	-80.9	9.2
334.0	336.0	242.7	218.5	-80.1	9.9
336.0	338.0	242.4	218.2	-80.1	9.9
338.0	340.0	242.1	217.9	-79.6	10.4
340.0	342.0	241.9	217.7	-78.5	11.5
342.0	344.0	241.7	217.5	-78.5	9.2

## Downhole Survey Summary Table

Hole Number: RHTR 2006-2

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
344.0	346.0	241.4	217.2	-78.8	11.2
346.0	348.0	241.2	217.0	-78.9	11.1
348.0	350.0	240.9	216.7	-77.7	12.3
350.0	352.0	240.8	216.6	-79.7	10.3
352.0	354.0	240.6	216.4	-80.1	10.0
354.0	356.0	240.3	216.1	-79.3	10.7
356.0	358.0	240.1	215.9	-80.0	10.0
358.0	360.0	239.9	215.7	-79.5	10.5
360.0	362.5	239.7	215.5	-79.4	10.7

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-2

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	9.34	9.70	0.36		
CZ	10.46	10.71	0.25		
CZ	12.93	13.12	0.19		
CZ	67.72	68.11	0.39		
D1	87.03	93.36	6.33		
CZ	94.41	94.86	0.45		
D2	97.50	105.68	8.18		
E1	187.55	189.52	1.97		
E2	190.43	191.06	0.63		
E3	192.74	193.23	0.49		
F	218.75	220.50	1.75		
F parting	220.50	220.68	0.18		
F	220.68	221.24	0.56		
G	328.28	340.65	12.37		
I	341.35	343.08	1.73		
J	344.66	353.80	9.14		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-2	0.00	1.50	OB	1.50		
RHTR2006-2	1.50	2.50	SLT	1.00		
RHTR2006-2	2.50	9.34	SST	6.84		
RHTR2006-2	9.34	9.70	CZ	0.36		
RHTR2006-2	9.70	10.46	CLY	0.76		
RHTR2006-2	10.46	10.71	CZ	0.25		
RHTR2006-2	10.71	12.93	CLY	2.22		
RHTR2006-2	12.93	13.12	CZ	0.19		
RHTR2006-2	13.12	25.00	SST	11.88		
RHTR2006-2	25.00	27.75	CLY	2.75		
RHTR2006-2	27.75	29.65	SST	1.90		
RHTR2006-2	29.65	30.35	CC	0.70		
RHTR2006-2	30.35	67.72	CGLM/SST	37.37		
RHTR2006-2	67.72	68.11	CZ	0.39		
RHTR2006-2	68.11	87.03	CGLM	18.92		
RHTR2006-2	87.03	93.36	D1	6.33		
RHTR2006-2	93.36	94.41	SLT	1.05		
RHTR2006-2	94.41	94.86	CZ	0.45		
RHTR2006-2	94.86	97.50	CLY	2.64		
RHTR2006-2	97.50	105.68	D2	8.18		
RHTR2006-2	105.68	112.45	CLY	6.77		
RHTR2006-2	112.45	116.70	SLT	4.25		
RHTR2006-2	116.70	124.10	SLT/CLY	7.40		
RHTR2006-2	124.10	130.75	SLT	6.65		
RHTR2006-2	130.75	137.45	SST	6.70		
RHTR2006-2	137.45	140.00	SLT	2.55		
RHTR2006-2	140.00	168.60	SST	28.60		
RHTR2006-2	168.60	171.70	Fault	3.10		
RHTR2006-2	171.70	174.05	SST	2.35		
RHTR2006-2	174.05	178.85	SLT/CLY	4.80		
RHTR2006-2	178.85	185.10	SST	6.25		
RHTR2006-2	185.10	187.55	SLT	2.45		
RHTR2006-2	187.55	189.52	E1	1.97		
RHTR2006-2	189.52	190.43	SLT	0.91		
RHTR2006-2	190.43	191.06	E2	0.63		
RHTR2006-2	191.06	192.74	SLT	1.68		
RHTR2006-2	192.74	193.23	E3	0.49		
RHTR2006-2	193.23	196.00	SLT/SST	2.77		
RHTR2006-2	196.00	218.75	SLT	22.75		
RHTR2006-2	218.75	220.50	F	1.75		
RHTR2006-2	220.50	220.68	SLT	0.18		
RHTR2006-2	220.68	221.24	F	0.56		
RHTR2006-2	221.24	222.60	CLY	1.36		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-2	222.60	224.90	SST	2.30		
RHTR2006-2	224.90	247.75	SLT/CLY	22.85		
RHTR2006-2	247.75	326.00	SLT	78.25		
RHTR2006-2	326.00	328.28	CLY	2.28		
RHTR2006-2	328.28	340.65	G	12.37		
RHTR2006-2	340.65	341.35	CLY	0.70		
RHTR2006-2	341.35	343.08	I	1.73		
RHTR2006-2	343.08	344.66	CLY	1.58		
RHTR2006-2	344.66	353.80	J	9.14		
RHTR2006-2	353.80	359.00	SLT/CLY	5.20		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-3

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1833.22	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	238.16	<b>Hole Angle (°)</b>	85
<b>Length of Casing (m)</b>	4	<b>Date Drilling Complete</b>	6-Aug-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	8/8/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083215.73	630652.87	9340.01	12567.71

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		9056, 9239, 9411

**Comments:**

Drilling Contractor: GT  
 Geophysical Contractor: Century Geophysical Corp.

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E



## Downhole Survey Summary Table

Hole Number: RHTR 2006-3

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	227.3	203.1	-85.5	4.5
10.0	12.0	229.3	205.1	-85.8	4.2
12.0	14.0	230.2	206.0	-84.7	5.4
14.0	16.0	232.2	208.0	-84.3	5.7
16.0	18.0	234.7	210.5	-84.9	5.1
18.0	20.0	236.7	212.5	-84.7	5.3
20.0	22.0	238.9	214.7	-84.6	5.4
22.0	24.0	241.1	216.9	-84.4	5.6
24.0	26.0	243.6	219.4	-84.6	5.5
26.0	28.0	245.9	221.7	-84.1	5.9
28.0	30.0	247.9	223.7	-83.9	6.1
30.0	32.0	249.9	225.7	-84.0	6.0
32.0	34.0	251.3	227.1	-84.9	5.1
34.0	36.0	252.9	228.7	-84.4	5.6
36.0	38.0	254.3	230.1	-84.7	5.3
38.0	40.0	255.8	231.6	-84.1	6.0
40.0	42.0	257.2	233.0	-84.1	5.9
42.0	44.0	258.6	234.4	-84.3	5.7
44.0	46.0	259.9	235.7	-84.1	5.9
46.0	48.0	261.3	237.1	-84.7	5.3
48.0	50.0	262.4	238.2	-84.4	5.6
50.0	52.0	263.4	239.2	-83.9	6.1
52.0	54.0	264.4	240.2	-84.1	5.9
54.0	56.0	265.4	241.2	-83.9	6.2
56.0	58.0	266.3	242.1	-83.8	6.2
58.0	60.0	267.2	243.0	-83.5	6.5
60.0	62.0	268.0	243.8	-83.6	6.4
62.0	64.0	268.8	244.6	-83.4	6.6
64.0	66.0	269.6	245.4	-83.4	6.6
66.0	68.0	270.2	246.0	-83.7	6.3
68.0	70.0	270.7	246.5	-83.7	6.3
70.0	72.0	271.1	246.9	-83.6	6.4
72.0	74.0	271.6	247.4	-83.8	6.2
74.0	76.0	272.0	247.8	-83.7	6.3
76.0	78.0	272.4	248.2	-83.9	6.1
78.0	80.0	272.9	248.7	-83.9	6.1
80.0	82.0	273.3	249.1	-83.9	6.1
82.0	84.0	273.8	249.6	-84.3	5.7
84.0	86.0	274.3	250.1	-84.2	5.8
86.0	88.0	274.7	250.5	-84.4	5.6
88.0	90.0	275.2	251.0	-84.5	5.5
90.0	92.0	275.5	251.3	-84.7	5.3

## Downhole Survey Summary Table

Hole Number: RHTR 2006-3

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
92.0	94.0	276.0	251.8	-84.4	5.6
94.0	96.0	276.4	252.2	-84.8	5.2
96.0	98.0	276.8	252.6	-85.4	4.6
98.0	100.0	277.3	253.1	-85.7	4.3
100.0	102.0	277.7	253.5	-85.8	4.2
102.0	104.0	278.2	254.0	-85.8	4.3
104.0	106.0	278.7	254.5	-85.9	4.1
106.0	108.0	279.3	255.1	-85.9	4.1
108.0	110.0	279.9	255.7	-86.0	4.0
110.0	112.0	280.5	256.3	-85.9	4.1
112.0	114.0	281.2	257.0	-86.1	3.9
114.0	116.0	281.9	257.7	-85.6	4.4
116.0	118.0	282.7	258.5	-85.5	4.5
118.0	120.0	283.5	259.3	-85.2	4.9
120.0	122.0	284.4	260.2	-85.0	5.0
122.0	124.0	285.4	261.2	-84.6	5.4
124.0	126.0	286.4	262.2	-84.4	5.6
126.0	128.0	287.5	263.3	-83.7	6.3
128.0	130.0	288.7	264.5	-83.3	6.7
130.0	132.0	289.9	265.7	-83.1	6.9
132.0	134.0	291.3	267.1	-82.7	7.3
134.0	136.0	292.7	268.5	-82.4	7.6
136.0	138.0	294.1	269.9	-82.3	7.7
138.0	140.0	295.6	271.4	-82.7	7.3
140.0	142.0	297.1	272.9	-81.1	9.0
142.0	144.0	298.8	274.6	-80.4	9.6
144.0	146.0	300.6	276.4	-80.1	9.9
146.0	148.0	302.6	278.4	-78.3	11.7
148.0	150.0	304.7	280.5	-77.7	12.3
150.0	152.0	306.9	282.7	-76.8	13.2
152.0	154.0	309.3	285.1	-76.4	13.6
154.0	156.0	311.7	287.5	-76.0	14.0
156.0	158.0	314.2	290.0	-75.3	14.7
158.0	160.0	316.8	292.6	-74.2	15.8
160.0	162.0	319.4	295.2	-73.7	16.3
162.0	164.0	322.2	298.0	-71.7	18.3
164.0	166.0	325.0	300.8	-70.6	19.4
166.0	168.0	327.9	303.7	-69.3	20.7
168.0	170.0	330.7	306.5	-69.0	21.0
170.0	172.0	333.6	309.4	-67.3	22.7
172.0	174.0	336.5	312.3	-66.7	23.3
174.0	176.0	339.3	315.1	-65.0	25.0

## Downhole Survey Summary Table

Hole Number: RHTR 2006-3

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
176.0	178.0	342.1	317.9	-64.1	25.9
178.0	180.0	344.7	320.5	-62.9	27.1
180.0	182.0	347.2	323.0	-62.3	27.7
182.0	184.0	349.5	325.3	-61.5	28.5
184.0	186.0	351.8	327.6	-60.3	29.7
186.0	188.0	353.9	329.7	-59.6	30.4
188.0	190.0	355.9	331.7	-57.5	32.5
190.0	192.0	357.8	333.6	-55.9	34.1
192.0	194.0	359.7	335.5	-56.1	33.9
194.0	196.0	361.4	337.2	-55.0	35.0
196.0	198.0	363.0	338.8	-55.0	35.0
198.0	200.0	364.5	340.3	-53.7	36.3
200.0	202.0	365.8	341.6	-54.0	36.0
202.0	204.0	367.0	342.8	-54.2	35.8
204.0	206.0	368.3	344.1	-53.6	36.4
206.0	208.0	369.3	345.1	-53.5	36.6
208.0	210.0	370.4	346.2	-52.3	37.8
210.0	212.0	371.3	347.1	-52.5	37.5
212.0	214.0	372.2	348.0	-52.5	37.5
214.0	216.0	373.0	348.8	-52.0	38.0
216.0	218.0	373.8	349.6	-51.6	38.4
218.0	220.0	374.5	350.3	-51.5	38.5
220.0	222.0	375.1	350.9	-50.3	39.7
222.0	224.0	375.8	351.6	-50.5	39.5
224.0	226.0	376.4	352.2	-49.3	40.7
226.0	228.0	377.0	352.8	-49.2	40.8
228.0	230.0	377.4	353.2	-49.7	40.3
230.0	232.0	377.9	353.7	-49.3	40.7
232.0	234.0	378.3	354.1	-48.7	41.4
234.0	236.0	378.4	354.2	-47.1	43.0
236.0	238.2	378.5	354.3	-49.1	40.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-3

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	93.70	94.20	0.50		
CZ	95.97	96.29	0.32		
D2	98.48	101.25	2.77		
E1	130.90	133.44	2.54		
E2	133.98	134.70	0.72		
E3	136.29	136.73	0.44		
F BONE	154.76	155.76	1.00		
F BONE	155.76	158.67	2.91		
G	200.76	205.45	4.69		
I	206.10	207.36	1.26		
J	211.69	218.20	6.51		
K1	229.15	230.08	0.93		
K2	231.88	232.72	0.84		
CZ	233.44	233.71	0.27		
CZ	234.46	234.72	0.26		
K3	236.52	237.75	1.23		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-3	0.00	1.50	OB	1.50		
RHTR2006-3	1.50	22.00	SST	20.50		
RHTR2006-3	22.00	22.40	CC	0.40		
RHTR2006-3	22.40	24.30	SST	1.90		
RHTR2006-3	24.30	25.20	CC	0.90		
RHTR2006-3	25.20	26.35	SST	1.15		
RHTR2006-3	26.35	27.15	CC	0.80		
RHTR2006-3	27.15	93.70	CGLM	66.55		
RHTR2006-3	93.70	94.20	D1	0.50		
RHTR2006-3	94.20	95.97	SLT	1.77		
RHTR2006-3	95.97	96.29	CZ	0.32		
RHTR2006-3	96.29	98.48	SLT	2.19		
RHTR2006-3	98.48	101.25	D2	2.77		
RHTR2006-3	101.25	102.85	CLY	1.60		
RHTR2006-3	102.85	106.00	CLY/SLT	3.15		
RHTR2006-3	106.00	110.35	CLY	4.35		
RHTR2006-3	110.35	118.20	SLT/CLY	7.85		
RHTR2006-3	118.20	127.95	SST	9.75		
RHTR2006-3	127.95	128.90	SLT	0.95		
RHTR2006-3	128.90	130.90	CLY	2.00		
RHTR2006-3	130.90	133.44	E1	2.54		
RHTR2006-3	133.44	133.98	CLY	0.54		
RHTR2006-3	133.98	134.70	E2	0.72		
RHTR2006-3	134.70	136.29	SLT/CLY	1.59		
RHTR2006-3	136.29	136.73	E3	0.44		
RHTR2006-3	136.73	139.40	SLT	2.67		
RHTR2006-3	139.40	154.76	SLT/CLY	15.36		
RHTR2006-3	154.76	155.76	F BONE	1.00		
RHTR2006-3	155.76	158.67	F	2.91		
RHTR2006-3	158.67	159.25	CLY	0.58		
RHTR2006-3	159.25	161.45	SST	2.20		
RHTR2006-3	161.45	165.55	CLY	4.10		
RHTR2006-3	165.55	165.85	CZ	0.30		
RHTR2006-3	165.85	180.00	CLY/SLT	14.15		
RHTR2006-3	180.00	195.30	SLT	15.30		
RHTR2006-3	195.30	200.00	CLY/SLT	4.70		
RHTR2006-3	200.00	200.76	CLY	0.76		
RHTR2006-3	200.76	205.45	G	4.69		
RHTR2006-3	205.45	206.10	CLY	0.65		
RHTR2006-3	206.10	207.36	I	1.26		
RHTR2006-3	207.36	211.69	CLY	4.33		
RHTR2006-3	211.69	218.20	J	6.51		
RHTR2006-3	218.20	224.50	CLY/SLT	6.30		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-3	224.50	229.15	SLT	4.65		
RHTR2006-3	229.15	230.08	K1	0.93		
RHTR2006-3	230.08	231.88	CLY/SLT	1.80		
RHTR2006-3	231.88	232.72	K2	0.84		
RHTR2006-3	232.72	233.44	CLY	0.72		
RHTR2006-3	233.44	233.71	CZ	0.27		
RHTR2006-3	233.71	234.46	SLT	0.75		
RHTR2006-3	234.46	234.72	CZ	0.26		
RHTR2006-3	234.72	236.52	SLT	1.80		
RHTR2006-3	236.52	237.75	K3	1.23		

## Drill Hole Summary Sheet

**Hole Number:**                    **RHTR 2006-5**

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1901.36	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	205.02	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	8-Aug-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	27-Sep-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083078.30	630838.58	9290.85	12793.45

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>		<b>X</b>		<b>X</b>	<b>X</b>		9068, 9239, 9411

**Comments:**

Drilling Contractor:                    GT  
 Geophysical Contractor:              Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: 2006-5

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.00	6.00	26.90	0.78	-57.90	32.10
6.00	8.00	22.30	0.78	-58.60	31.40
8.00	10.00	23.10	0.78	-56.60	33.40
10.00	12.00	25.00	0.78	-58.10	31.90
12.00	14.00	26.30	2.08	-57.80	32.20
14.00	16.00	27.00	2.78	-58.10	31.90
16.00	18.00	27.60	3.38	-58.60	31.40
18.00	20.00	28.10	3.88	-58.80	31.20
20.00	22.00	28.40	4.18	-58.30	31.70
22.00	24.00	28.70	4.48	-57.10	32.90
24.00	26.00	28.90	4.68	-58.40	31.60
26.00	28.00	29.10	4.88	-57.40	32.60
28.00	30.00	29.20	4.98	-58.00	32.00
30.00	32.00	29.40	5.18	-56.20	33.80
32.00	34.00	29.50	5.28	-57.90	32.10
34.00	36.00	29.60	5.38	-58.90	31.10
36.00	38.00	29.70	5.48	-59.00	33.60
38.00	40.00	29.80	5.58	-59.40	30.60
40.00	42.00	29.80	5.58	-57.50	32.50
42.00	44.00	29.90	5.68	-58.70	31.30
44.00	46.00	29.90	5.68	-58.30	31.70
46.00	48.00	30.00	5.78	-58.20	31.80
48.00	50.00	30.00	5.78	-59.30	30.70
50.00	52.00	30.10	5.88	-58.90	31.10
52.00	54.00	30.10	5.88	-59.40	30.60
54.00	56.00	30.10	5.88	-60.90	29.10
56.00	58.00	30.20	5.98	-61.00	29.00
58.00	60.00	30.20	5.98	-60.30	29.70
60.00	62.00	30.20	5.98	-60.50	29.50
62.00	64.00	30.30	6.08	-60.30	29.70
64.00	66.00	30.30	6.08	-60.50	30.30
66.00	68.00	30.30	6.08	-61.90	28.10
68.00	70.00	30.30	6.08	-60.90	29.10
70.00	72.00	30.40	6.18	-62.20	27.80
72.00	74.00	30.40	6.18	-61.70	28.30
74.00	76.00	30.40	6.18	-62.70	27.30
76.00	78.00	30.40	6.18	-61.90	28.10
78.00	80.00	30.40	6.18	-61.50	28.50
80.00	82.00	30.40	6.18	-61.50	34.30
82.00	84.00	30.40	6.18	-61.90	28.10
84.00	86.00	30.40	6.18	-62.10	27.90
86.00	88.00	30.40	6.18	-60.90	29.10



## Downhole Survey Summary Table

Hole Number: 2006-5

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
88.00	90.00	30.50	6.28	-61.60	28.40
90.00	92.00	30.50	6.28	-61.00	26.60
92.00	94.00	30.50	6.28	-60.60	29.40
94.00	96.00	30.50	6.28	-60.70	29.30
96.00	98.00	30.50	6.28	-60.70	29.30
98.00	100.00	30.50	6.28	-60.30	29.70
100.00	102.00	30.50	6.28	-60.00	28.90
102.00	104.00	30.60	6.38	-58.80	31.20
104.00	106.00	30.60	6.38	-60.20	29.80
106.00	108.00	30.60	6.38	-60.80	29.20
108.00	110.00	30.60	6.38	-60.60	29.40
110.00	112.00	30.60	6.38	-61.70	28.30
112.00	114.00	30.60	6.38	-60.30	29.70
114.00	116.00	30.60	6.38	-61.80	28.20
116.00	118.00	30.60	6.38	-61.20	28.80
118.00	120.00	30.60	6.38	-61.00	29.00
120.00	122.00	30.60	6.38	-60.00	30.00
122.00	124.00	30.60	6.38	-60.30	29.70
124.00	126.00	30.60	6.38	-60.20	29.80
126.00	128.00	30.60	6.38	-59.00	31.00
128.00	130.00	30.60	6.38	-59.10	30.90
130.00	132.00	30.60	6.38	-57.50	32.50
132.00	134.00	30.70	6.48	-54.40	35.60
134.00	136.00	30.60	6.38	-54.80	35.20
136.00	138.00	30.60	6.38	-54.30	35.70
138.00	140.00	30.60	6.38	-54.20	35.80
140.00	142.00	30.60	6.38	-54.00	36.00
142.00	144.00	30.60	6.38	-52.90	37.10
144.00	146.00	30.60	6.38	-53.00	37.00
146.00	148.00	30.60	6.38	-51.20	38.80
148.00	150.00	30.60	6.38	-52.20	37.80
150.00	152.00	30.60	6.38	-51.80	38.20
152.00	154.00	30.60	6.38	-50.40	39.60
154.00	156.00	30.60	6.38	-50.50	39.50
156.00	158.00	30.60	6.38	-48.20	41.80
158.00	160.00	30.60	6.38	-47.80	42.20
160.00	162.00	30.60	6.38	-46.80	43.20
162.00	164.00	30.60	6.38	-47.20	42.80
164.00	166.00	30.60	6.38	-47.40	42.60
166.00	168.00	30.60	6.38	-46.50	43.50
168.00	170.00	30.50	6.28	-46.80	43.20
170.00	172.00	30.50	6.28	-47.90	42.10

## Downhole Survey Summary Table

Hole Number: 2006-5

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
172.00	174.00	30.50	6.28	-47.60	42.40
174.00	176.00	30.50	6.28	-46.10	43.90
176.00	178.00	30.50	6.28	-46.00	46.00
178.00	180.00	30.50	6.28	-46.70	43.30
180.00	182.00	30.50	6.28	-46.50	43.50
182.00	184.00	30.50	6.28	-46.20	43.80
184.00	186.00	30.50	6.28	-45.60	44.40
186.00	188.00	30.50	6.28	-45.60	44.40
188.00	190.00	30.50	6.28	-45.70	44.30
190.00	192.00	30.50	6.28	-44.40	45.60
192.00	194.00	30.40	6.18	-44.70	45.30
194.00	196.00	30.40	6.18	-45.00	45.00
196.00	198.00	30.40	6.18	-43.60	46.40
198.00	200.00	30.40	6.18	-43.00	47.00
200.00	202.00	30.40	6.18	-42.60	47.40
202.00	204.00	30.40	6.18	-42.70	47.30
204.00	210.00	30.40	6.18	-42.90	47.10

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR 2006-5

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	78.92	80.40	1.48		
CZ	82.40	82.70	0.30		
D2	85.37	87.00	1.63		
E1	116.14	116.88	0.74		
E1 parting	116.88	117.10	0.22		
E1	117.10	117.85	0.75		
E2	118.45	119.20	0.75		
E3	120.85	121.33	0.48		
F BONE	134.77	135.20	0.43		
F	135.20	137.14	1.94		
CZ	141.53	141.76	0.23		
G	169.54	172.94	3.40		
I	173.48	173.87	0.39		
I parting	173.87	174.14	0.27		
I	174.14	174.60	0.46		
J	176.68	183.00	6.32		
K1	192.49	193.44	0.95		
K2	194.96	195.84	0.88		
K3	202.15	202.55	0.40		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-5	0.00	2.00	OB	2.00		
RHTR2006-5	2.00	11.40	SST	9.40		
RHTR2006-5	11.40	16.70	SLT	5.30		
RHTR2006-5	16.70	16.90	CC	0.20		
RHTR2006-5	16.90	18.20	CLY	1.30		
RHTR2006-5	18.20	30.00	SST	11.80		
RHTR2006-5	30.00	30.35	CC	0.35		
RHTR2006-5	30.35	33.10	CLY	2.75		
RHTR2006-5	33.10	33.65	CC	0.55		
RHTR2006-5	33.65	78.92	CGLM	45.27		
RHTR2006-5	78.92	80.40	D1	1.48		
RHTR2006-5	80.40	82.40	CLY	2.00		
RHTR2006-5	82.40	82.70	CZ	0.30		
RHTR2006-5	82.70	85.37	CLY	2.67		
RHTR2006-5	85.37	87.00	D2	1.63		
RHTR2006-5	87.00	97.75	CLY	10.75		
RHTR2006-5	97.75	99.50	SLT	1.75		
RHTR2006-5	99.50	114.50	SST	15.00		
RHTR2006-5	114.50	116.14	CLY	1.64		
RHTR2006-5	116.14	116.88	E1	0.74		
RHTR2006-5	116.88	117.10	CLY	0.22		
RHTR2006-5	117.10	117.85	E1	0.75		
RHTR2006-5	117.85	118.45	CLY	0.60		
RHTR2006-5	118.45	119.20	E2	0.75		
RHTR2006-5	119.20	120.15	SLT	0.95		
RHTR2006-5	120.15	120.85	CLY	0.70		
RHTR2006-5	120.85	121.33	E3	0.48		
RHTR2006-5	121.33	123.80	SLT	2.47		
RHTR2006-5	123.80	134.77	CLY/SLT	10.97		
RHTR2006-5	134.77	135.20	F BONE	0.43		
RHTR2006-5	135.20	137.14	F	1.94		
RHTR2006-5	137.14	141.53	CLY	4.39		
RHTR2006-5	141.53	141.76	CZ	0.23		
RHTR2006-5	141.76	160.75	CLY	18.99		
RHTR2006-5	160.75	164.75	SLT	4.00		
RHTR2006-5	164.75	165.70	SST	0.95		
RHTR2006-5	165.70	169.54	CLY	3.84		
RHTR2006-5	169.54	172.94	G	3.40		
RHTR2006-5	172.94	173.48	CLY	0.54		
RHTR2006-5	173.48	173.87	I	0.39		
RHTR2006-5	173.87	174.14	CLY	0.27		
RHTR2006-5	174.14	174.60	I	0.46		
RHTR2006-5	174.60	176.68	CLY	2.08		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-5	176.68	183.00	J	6.32		
RHTR2006-5	183.00	187.70	CLY/SLT	4.70		
RHTR2006-5	187.70	192.49	SLT	4.79		
RHTR2006-5	192.49	193.44	K1	0.95		
RHTR2006-5	193.44	194.96	CLY/SLT	1.52		
RHTR2006-5	194.96	195.84	K2	0.88		
RHTR2006-5	195.84	199.70	SLT	3.86		
RHTR2006-5	199.70	202.15	CLY	2.45		
RHTR2006-5	202.15	202.55	K3	0.40		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-6

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1980.97	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	205.10	<b>Hole Angle (°)</b>	55
<b>Length of Casing (m)</b>	4.00	<b>Date Drilling Complete</b>	9-Aug-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	9-Sep-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082956.28	631090.68	9282.97	13073.42

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>		9067, 9239, 9411

**Comments:** 9056 Deviation Unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-6

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	6.0	34.1	9.9	-54.0	36.0
6.0	8.0	35.1	10.9	-54.2	35.8
8.0	10.0	35.3	11.1	-54.1	35.9
10.0	12.0	35.4	11.2	-54.2	35.8
12.0	14.0	35.4	11.2	-54.7	35.3
14.0	16.0	35.6	11.4	-54.9	35.1
16.0	18.0	35.8	11.6	-54.8	35.2
18.0	20.0	35.8	11.6	-54.3	35.7
20.0	22.0	36.1	11.9	-53.8	36.2
22.0	24.0	36.1	11.9	-53.9	36.1
24.0	26.0	36.3	12.1	-54.2	35.8
26.0	28.0	36.4	12.2	-54.2	35.8
28.0	30.0	36.6	12.4	-52.8	37.2
30.0	32.0	36.7	12.5	-53.6	36.4
32.0	34.0	36.7	12.5	-53.1	36.9
34.0	36.0	36.8	12.6	-53.7	36.3
36.0	38.0	36.9	12.7	-53.1	36.9
38.0	40.0	37.0	12.8	-51.7	38.3
40.0	42.0	37.1	12.9	-50.4	39.6
42.0	44.0	37.2	13.0	-53.5	36.5
44.0	46.0	37.2	13.0	-51.1	38.9
46.0	48.0	37.4	13.2	-52.0	38.0
48.0	50.0	37.5	13.3	-51.6	38.4
50.0	52.0	37.5	13.3	-52.4	37.6
52.0	54.0	37.6	13.4	-51.9	38.1
54.0	56.0	37.6	13.4	-51.2	38.8
56.0	58.0	37.6	13.4	-51.4	38.6
58.0	60.0	37.6	13.4	-50.5	39.5
60.0	62.0	37.7	13.5	-50.7	39.3
62.0	64.0	37.7	13.5	-51.7	38.3
64.0	66.0	37.7	13.5	-51.7	40.1
66.0	68.0	37.7	13.5	-51.6	38.4
68.0	70.0	37.8	13.6	-49.0	37.7
70.0	72.0	37.8	13.6	-46.9	43.1
72.0	74.0	37.9	13.7	-48.9	41.1
74.0	76.0	37.9	13.7	-49.3	40.7
76.0	78.0	37.9	13.7	-49.7	40.3
78.0	80.0	37.9	13.7	-49.0	41.0
80.0	82.0	38.0	13.8	-48.9	41.1
82.0	84.0	38.0	13.8	-49.4	40.6
84.0	86.0	38.0	13.8	-50.4	39.6
86.0	88.0	38.0	13.8	-50.3	39.7

## Downhole Survey Summary Table

Hole Number: RHTR 2006-6

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
88.0	90.0	38.1	13.9	-48.9	41.1
90.0	92.0	38.1	13.9	-48.0	42.0
92.0	94.0	38.1	13.9	-48.5	41.5
94.0	96.0	38.1	13.9	-49.2	40.8
96.0	98.0	38.2	14.0	-48.0	44.7
98.0	100.0	38.2	14.0	-48.0	40.0
100.0	102.0	38.2	14.0	-46.7	43.3
102.0	104.0	38.3	14.1	-46.7	43.3
104.0	106.0	38.3	14.1	-45.8	44.2
106.0	108.0	38.3	14.1	-45.2	44.8
108.0	110.0	38.3	14.1	-45.3	44.7
110.0	112.0	38.4	14.2	-45.0	42.6
112.0	114.0	38.4	14.2	-45.0	43.6
114.0	116.0	38.4	14.2	-43.8	46.2
116.0	118.0	38.4	14.2	-42.2	47.8
118.0	120.0	38.4	14.2	-43.3	46.7
120.0	122.0	38.4	14.2	-42.5	47.5
122.0	124.0	38.4	14.2	-44.4	45.6
124.0	126.0	38.5	14.3	-44.0	46.6
126.0	128.0	38.5	14.3	-46.1	43.9
128.0	130.0	38.5	14.3	-44.4	45.6
130.0	132.0	38.5	14.3	-42.9	47.1
132.0	134.0	38.6	14.4	-44.4	45.6
134.0	136.0	38.6	14.4	-43.0	47.0
136.0	138.0	38.6	14.4	-42.9	47.1
138.0	140.0	38.7	14.5	-42.0	49.9
140.0	142.0	38.7	14.5	-41.7	48.3
142.0	144.0	38.7	14.5	-43.2	46.8
144.0	146.0	38.8	14.6	-42.9	47.1
146.0	148.0	38.9	14.7	-41.1	48.9
148.0	150.0	38.9	14.7	-42.2	47.8
150.0	152.0	38.9	14.7	-42.0	49.9
152.0	154.0	39.0	14.8	-41.7	48.3
154.0	156.0	39.1	14.9	-39.8	50.2
156.0	158.0	39.1	14.9	-41.2	48.8
158.0	160.0	39.1	14.9	-42.1	47.9
160.0	162.0	39.2	15.0	-41.6	48.4
162.0	164.0	39.2	15.0	-40.0	53.0
164.0	166.0	39.2	15.0	-39.4	50.6
166.0	168.0	39.3	15.1	-40.8	49.2
168.0	170.0	39.3	15.1	-39.1	50.9
170.0	172.0	39.4	15.2	-40.0	50.0



## Downhole Survey Summary Table

Hole Number: RHTR 2006-6

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
172.0	174.0	39.4	15.2	-41.4	48.6
174.0	176.0	39.5	15.3	-39.6	50.4
176.0	178.0	39.5	15.3	-41.0	49.0
178.0	180.0	39.5	15.3	-39.9	50.1
180.0	182.0	39.5	15.3	-38.8	51.2
182.0	184.0	39.6	15.4	-38.7	51.3
184.0	186.0	39.6	15.4	-39.7	50.3
186.0	188.0	39.6	15.4	-39.0	51.0
188.0	190.0	39.7	15.5	-39.2	50.8
190.0	192.0	39.7	15.5	-39.2	50.8
192.0	194.0	39.7	15.5	-39.2	52.1
194.0	196.0	39.7	15.5	-40.8	49.2
196.0	198.0	39.7	15.5	-39.0	51.0
198.0	200.0	39.8	15.6	-39.0	52.5
200.0	202.0	39.8	15.6	-39.6	50.4
202.0	204.0	39.8	15.6	-35.9	54.1
204.0	205.1	39.8	15.6	-38.4	51.6

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-6

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	53.79	54.54	0.75		
CZ	55.99	56.25	0.26		
D2	58.26	60.48	2.22		
E1	90.68	91.60	0.92		
E1 Parting	91.60	91.76	0.16		
E1	91.76	92.05	0.29		
F Bone	111.55	111.96	0.41		
F Bone	111.96	114.04	2.08		
CZ	116.05	116.49	0.44		
G	150.82	154.25	3.43		
I	154.38	155.06	0.68		
J	157.83	163.01	5.18		
K1	172.72	173.67	0.95		
K2	175.47	176.16	0.69		
CZ	181.62	181.94	0.32		
K3	182.30	182.60	0.30		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-6	0.00	0.70	OB	0.70		
RHTR2006-6	0.70	6.20	SST	5.50		
RHTR2006-6	6.20	6.55	CC	0.35		
RHTR2006-6	6.55	14.90	SST	8.35		
RHTR2006-6	6.20	18.40	SLT	12.20		
RHTR2006-6	18.40	19.75	CC	1.35		
RHTR2006-6	19.75	22.45	SLT	2.70		
RHTR2006-6	22.45	53.79	CGLM	31.34		
RHTR2006-6	53.79	54.54	D1	0.75		
RHTR2006-6	54.54	55.99	SLT	1.45		
RHTR2006-6	55.99	56.25	CZ	0.26		
RHTR2006-6	56.25	58.26	SLT	2.01		
RHTR2006-6	58.26	60.48	D2	2.22		
RHTR2006-6	60.48	64.70	SLT/CLY	4.22		
RHTR2006-6	64.70	68.50	SST/SLT	3.80		
RHTR2006-6	68.50	69.25	CLY	0.75		
RHTR2006-6	69.25	71.00	SLT/SST	1.75		
RHTR2006-6	71.00	89.55	SST	18.55		
RHTR2006-6	89.55	90.68	SLT	1.13		
RHTR2006-6	90.68	91.60	E1	0.92		
RHTR2006-6	91.60	91.76	CLY	0.16		
RHTR2006-6	91.76	92.05	E1	0.29		
RHTR2006-6	92.05	92.88	CC	0.83		
RHTR2006-6	92.88	93.66	SLT	0.78		
RHTR2006-6	93.66	94.33	E2	0.67		
RHTR2006-6	94.33	95.83	SLT/SST	1.50		
RHTR2006-6	95.83	96.20	E3	0.37		
RHTR2006-6	96.20	98.40	SST/SLT	2.20		
RHTR2006-6	98.40	111.55	SLT	13.15		
RHTR2006-6	111.55	111.96	F BONE	0.41		
RHTR2006-6	111.96	114.04	F	2.08		
RHTR2006-6	114.04	116.05	CLY	2.01		
RHTR2006-6	116.05	116.49	CZ	0.44		
RHTR2006-6	116.49	117.60	CLY	1.11		
RHTR2006-6	117.60	123.40	SLT/CLY	5.80		
RHTR2006-6	123.40	138.00	SLT	14.60		
RHTR2006-6	138.00	148.20	SLT/SST	10.20		
RHTR2006-6	148.20	150.82	CLY	2.62		
RHTR2006-6	150.82	154.04	G	3.22		
RHTR2006-6	154.04	154.38	CLY	0.34		
RHTR2006-6	154.38	155.06	I	0.68		
RHTR2006-6	155.06	157.83	SLT/CLY	2.77		
RHTR2006-6	157.83	163.01	J	5.18		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-6	163.01	169.50	SLT/CLY	6.49		
RHTR2006-6	169.50	172.72	SLT/SST	3.22		
RHTR2006-6	172.72	173.67	K1	0.95		
RHTR2006-6	173.67	175.47	SLT/SST	1.80		
RHTR2006-6	175.47	176.16	K2	0.69		
RHTR2006-6	176.16	180.00	SST	3.84		
RHTR2006-6	180.00	181.62	SLT	1.62		
RHTR2006-6	181.62	181.94	CZ	0.32		
RHTR2006-6	181.94	182.30	SLT	0.36		
RHTR2006-6	182.30	182.53	K3	0.23		
RHTR2006-6	182.53	184.55	CLY/SLT	2.02		
RHTR2006-6	184.55	191.10	SST	6.55		
RHTR2006-6	191.10	199.30	SLT	8.20		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2005-7

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1983.42	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	281.45	<b>Hole Angle (°)</b>	75
<b>Length of Casing (m)</b>	6.00	<b>Date Drilling Complete</b>	17-Aug-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	8/18/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082896.56	631076.57	9222.72	13085.05

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		9056, 0239, 9411

**Comments:**

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-7

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	16.0	43.8	19.6	-77.0	13.0
16.0	18.0	45.3	21.1	-76.7	13.3
18.0	20.0	46.3	22.1	-77.5	12.5
20.0	22.0	46.6	22.4	-77.2	12.8
22.0	24.0	46.8	22.6	-77.2	12.8
24.0	26.0	46.9	22.7	-77.3	12.7
26.0	28.0	47.0	22.8	-77.2	12.8
28.0	30.0	47.0	22.8	-77.1	12.9
30.0	32.0	47.1	22.9	-77.1	12.9
32.0	34.0	47.1	22.9	-77.3	12.7
34.0	36.0	47.2	23.0	-76.9	13.1
36.0	38.0	47.2	23.0	-77.0	13.0
38.0	40.0	47.2	23.0	-76.8	13.2
40.0	42.0	47.2	23.0	-75.4	14.6
42.0	44.0	47.3	23.1	-76.5	13.5
44.0	46.0	47.3	23.1	-75.6	14.4
46.0	48.0	47.3	23.1	-76.1	13.9
48.0	50.0	47.2	23.0	-75.7	14.3
50.0	52.0	47.3	23.1	-75.9	14.1
52.0	54.0	47.2	23.0	-75.4	14.6
54.0	56.0	47.3	23.1	-75.1	14.9
56.0	58.0	47.3	23.1	-75.6	14.4
58.0	60.0	47.4	23.2	-75.1	14.9
60.0	62.0	47.4	23.2	-75.3	14.7
62.0	64.0	47.5	23.3	-75.2	14.8
64.0	66.0	47.5	23.3	-75.2	14.8
66.0	68.0	47.5	23.3	-75.5	14.5
68.0	70.0	47.6	23.4	-75.2	14.8
70.0	72.0	47.6	23.4	-75.6	14.4
72.0	74.0	47.6	23.4	-74.9	15.1
74.0	76.0	47.6	23.4	-74.5	15.5
76.0	78.0	47.5	23.3	-74.8	15.2
78.0	80.0	47.5	23.3	-74.5	15.5
80.0	82.0	47.5	23.3	-74.5	15.5
82.0	84.0	47.5	23.3	-75.0	15.0
84.0	86.0	47.4	23.2	-74.3	15.7
86.0	88.0	47.4	23.2	-73.8	16.2
88.0	90.0	47.4	23.2	-73.6	16.4
90.0	92.0	47.4	23.2	-72.4	17.6
92.0	94.0	47.3	23.1	-72.6	17.4
94.0	96.0	47.2	23.0	-72.9	17.1
96.0	98.0	47.2	23.0	-72.8	17.2

## Downhole Survey Summary Table

Hole Number: RHTR 2006-7

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
98.0	100.0	47.2	23.0	-72.8	17.2
100.0	102.0	47.2	23.0	-73.0	17.0
102.0	104.0	47.2	23.0	-72.7	17.3
104.0	106.0	47.2	23.0	-72.8	17.2
106.0	108.0	47.2	23.0	-73.1	16.9
108.0	110.0	47.2	23.0	-73.2	16.8
110.0	112.0	47.3	23.1	-73.1	16.9
112.0	114.0	47.3	23.1	-73.0	17.0
114.0	116.0	47.3	23.1	-73.0	17.0
116.0	118.0	47.3	23.1	-73.1	16.9
118.0	120.0	47.3	23.1	-73.0	17.0
120.0	122.0	47.3	23.1	-73.0	17.0
122.0	124.0	47.3	23.1	-72.9	17.1
124.0	126.0	47.4	23.2	-72.6	17.4
126.0	128.0	47.4	23.2	-72.6	17.4
128.0	130.0	47.4	23.2	-72.4	17.6
130.0	132.0	47.4	23.2	-72.4	17.6
132.0	134.0	47.4	23.2	-72.3	17.7
134.0	136.0	47.4	23.2	-71.9	18.1
136.0	138.0	47.4	23.2	-72.1	17.9
138.0	140.0	47.5	23.3	-72.3	17.7
140.0	142.0	47.5	23.3	-72.5	17.5
142.0	144.0	47.5	23.3	-71.8	18.2
144.0	146.0	47.4	23.2	-71.6	18.4
146.0	148.0	47.4	23.2	-71.5	18.5
148.0	150.0	47.4	23.2	-71.3	18.7
150.0	152.0	47.4	23.2	-71.7	18.3
152.0	154.0	47.4	23.2	-71.1	18.9
154.0	156.0	47.4	23.2	-71.1	18.9
156.0	158.0	47.5	23.3	-71.4	18.6
158.0	160.0	47.5	23.3	-71.3	18.7
160.0	162.0	47.5	23.3	-71.3	18.7
162.0	164.0	47.4	23.2	-71.3	18.7
164.0	166.0	47.4	23.2	-71.2	18.8
166.0	168.0	47.4	23.2	-70.7	19.3
168.0	170.0	47.4	23.2	-71.1	18.9
170.0	172.0	47.4	23.2	-70.9	19.1
172.0	174.0	47.3	23.1	-70.7	19.3
174.0	176.0	47.3	23.1	-70.5	19.5
176.0	178.0	47.2	23.0	-70.2	19.8
178.0	180.0	47.1	22.9	-69.9	20.1
180.0	182.0	47.1	22.9	-69.8	20.2

## Downhole Survey Summary Table

Hole Number: RHTR 2006-7

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
182.0	184.0	47.0	22.8	-69.5	20.5
184.0	186.0	47.0	22.8	-67.8	22.2
186.0	188.0	46.9	22.7	-68.2	21.8
188.0	190.0	46.9	22.7	-67.5	22.5
190.0	192.0	46.8	22.6	-67.1	22.9
192.0	194.0	46.7	22.5	-66.9	23.1
194.0	196.0	46.7	22.5	-66.5	23.5
196.0	198.0	46.6	22.4	-66.0	24.0
198.0	200.0	46.5	22.3	-65.6	24.4
200.0	202.0	46.5	22.3	-65.1	24.9
202.0	204.0	46.4	22.2	-65.1	24.9
204.0	206.0	46.3	22.1	-63.9	26.1
206.0	208.0	46.2	22.0	-63.7	26.3
208.0	210.0	46.1	21.9	-63.1	26.9
210.0	212.0	46.0	21.8	-62.9	27.1
212.0	214.0	45.9	21.7	-62.6	27.4
214.0	216.0	45.8	21.6	-61.3	28.7
216.0	218.0	45.7	21.5	-62.2	27.8
218.0	220.0	45.6	21.4	-62.8	27.2
220.0	222.0	45.5	21.3	-61.2	28.8
222.0	224.0	45.4	21.2	-61.0	29.0
224.0	226.0	45.3	21.1	-60.5	29.5
226.0	228.0	45.2	21.0	-60.2	29.8
228.0	230.0	45.1	20.9	-59.9	30.1
230.0	232.0	45.0	20.8	-60.0	30.0
232.0	234.0	44.9	20.7	-58.9	31.1
234.0	236.0	44.8	20.6	-58.9	31.1
236.0	238.0	44.6	20.4	-59.0	31.0
238.0	240.0	44.5	20.3	-58.7	31.3
240.0	242.0	44.4	20.2	-58.5	31.5
242.0	244.0	44.3	20.1	-57.9	32.1
244.0	246.0	44.2	20.0	-57.7	32.3
246.0	248.0	44.0	19.8	-57.4	32.6
248.0	250.0	43.9	19.7	-57.0	33.0
250.0	252.0	43.8	19.6	-56.7	33.3
252.0	254.0	43.7	19.5	-55.9	34.1
254.0	256.0	43.6	19.4	-55.9	34.1
256.0	258.0	43.4	19.2	-56.4	33.6
258.0	260.0	43.3	19.1	-55.6	34.4
260.0	262.0	43.2	19.0	-55.6	33.1
262.0	264.0	43.1	18.9	-55.0	35.5
264.0	266.0	42.9	18.7	-54.5	32.4



## Downhole Survey Summary Table

Hole Number: RHTR 2006-7

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
266.0	268.0	42.8	18.6	-54.4	35.6
268.0	270.0	42.7	18.5	-54.0	26.7
270.0	272.0	42.5	18.3	-54.0	36.0
272.0	274.0	42.4	18.2	-54.3	35.7
274.0	276.0	42.2	18.0	-54.0	36.0
276.0	278.0	42.1	17.9	-54.7	35.3
278.0	280.0	41.9	17.7	-53.0	39.9
280.0	281.5	41.8	17.6	-52.4	37.6

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-7

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	126.47	127.28	0.81		
CZ	128.50	128.78	0.28		
D2	130.01	132.50	2.49		
E1	171.12	172.68	1.56		
CZ	173.35	173.58	0.23		
E2	174.18	174.62	0.44		
E3	176.58	177.08	0.50		
F BONE	193.14	193.47	0.35		
F BONE	193.47	195.45	1.98		
CZ	198.00	198.75	0.75		
G	237.62	241.38	3.76		
I	241.97	242.80	0.83		
J	244.69	250.92	6.23		
K1	261.05	261.98	0.93		
K2	263.37	264.25	0.88		
K3	269.50	270.03	0.53		
K3 PARTING	270.03	270.47	0.44		
K3	270.47	270.95	0.48		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-7	0.00	1.00	OB	1.00		
RHTR2006-7	1.00	3.70	SST	2.70		
RHTR2006-7	3.70	4.60	CC	0.90		
RHTR2006-7	4.60	6.50	SST/SLT	1.90		
RHTR2006-7	6.50	7.80	CLY	1.30		
RHTR2006-7	7.80	22.30	SLT	14.50		
RHTR2006-7	22.30	30.30	SLT/CLY	8.00		
RHTR2006-7	30.30	43.50	SLT	13.20		
RHTR2006-7	43.05	46.10	FAULT	3.05		
RHTR2006-7	46.10	51.40	SST	5.30		
RHTR2006-7	51.40	59.60	SLT/CLY	8.20		
RHTR2006-7	59.60	65.00	SLT	5.40		
RHTR2006-7	65.00	69.45	SST	4.45		
RHTR2006-7	69.45	80.45	SLT/SST	11.00		
RHTR2006-7	80.45	85.00	SLT	4.55		
RHTR2006-7	85.00	85.30	CC	0.30		
RHTR2006-7	85.30	87.70	CLY	2.40		
RHTR2006-7	87.70	89.50	SLT	1.80		
RHTR2006-7	89.50	90.00	CC	0.50		
RHTR2006-7	90.00	126.47	CGLM	36.47		
RHTR2006-7	126.47	127.28	D1	0.81		
RHTR2006-7	127.28	128.50	SLT	1.22		
RHTR2006-7	128.50	128.78	CZ	0.28		
RHTR2006-7	128.78	130.01	SLT	1.23		
RHTR2006-7	130.01	132.50	D2	2.49		
RHTR2006-7	132.50	134.05	CC	1.55		
RHTR2006-7	134.05	140.75	CLY/SLT	6.70		
RHTR2006-7	140.75	142.85	SLT/SST	2.10		
RHTR2006-7	142.85	143.75	CLY	0.90		
RHTR2006-7	143.75	146.20	SLT	2.45		
RHTR2006-7	146.20	169.70	SST	23.50		
RHTR2006-7	169.70	171.12	SLT/CLY	1.42		
RHTR2006-7	171.12	172.68	E1	1.56		
RHTR2006-7	172.68	173.35	SLT	0.67		
RHTR2006-7	173.35	173.58	CZ	0.23		
RHTR2006-7	173.58	174.18	CLY	0.60		
RHTR2006-7	174.18	174.62	E2	0.44		
RHTR2006-7	174.62	176.58	SLT/CLY	1.96		
RHTR2006-7	176.58	177.08	E3	0.50		
RHTR2006-7	177.08	178.20	SLT/CLY	1.12		
RHTR2006-7	178.20	179.00	SST	0.80		
RHTR2006-7	179.00	182.00	SLT/CLY	3.00		
RHTR2006-7	182.00	193.12	SLT	11.12		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-7	193.12	193.47	F BONE	0.35		
RHTR2006-7	193.47	195.45	F	1.98		
RHTR2006-7	195.45	198.00	CLY	2.55		
RHTR2006-7	198.00	198.75	CZ	0.75		
RHTR2006-7	198.75	201.15	SLT	2.40		
RHTR2006-7	201.15	207.60	SLT/CLY	6.45		
RHTR2006-7	207.60	222.75	SLT	15.15		
RHTR2006-7	222.75	235.00	SLT/SST	12.25		
RHTR2006-7	235.00	237.62	CLY	2.62		
RHTR2006-7	237.62	241.38	G	3.76		
RHTR2006-7	241.38	241.97	CLY	0.59		
RHTR2006-7	241.97	242.80	I	0.83		
RHTR2006-7	242.80	244.69	CLY	1.89		
RHTR2006-7	244.69	250.92	J	6.23		
RHTR2006-7	250.92	253.00	CLY	2.08		
RHTR2006-7	253.00	256.40	SLT	3.40		
RHTR2006-7	256.40	261.50	SLT/SST	5.10		
RHTR2006-7	261.05	261.98	K1	0.93		
RHTR2006-7	261.98	263.37	CLY	1.39		
RHTR2006-7	263.37	264.25	K2	0.88		
RHTR2006-7	264.25	266.20	SLT	1.95		
RHTR2006-7	266.20	268.00	SST	1.80		
RHTR2006-7	268.00	269.50	SLT	1.50		
RHTR2006-7	269.50	270.03	K3	0.53		
RHTR2006-7	270.03	270.47	CLY	0.44		
RHTR2006-7	270.47	270.95	K3	0.48		
RHTR2006-7	270.95	273.30	CLY/SLT	2.35		
RHTR2006-7	273.30	278.20	SLT	4.90		

## Drill Hole Summary Sheet

**Hole Number:**                    **RHTR 2006-8**

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1833.11	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	237.09	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	6	<b>Date Drilling Complete</b>	14-Aug-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	8/19/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083220.91	630655.60	9345.85	12568.07

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9056, 9239, 9411

**Comments:**    Re-logged lower section Sept 5/06, 9056 deviation unserviceable

Drilling Contractor:                    GT  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-8

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	30.0	211.5	187.3	-57.7	36.4
30.0	32.0	212.9	188.7	-57.7	32.3
32.0	34.0	213.7	189.5	-57.7	37.7
34.0	36.0	214.5	190.3	-58.0	32.0
36.0	38.0	215.0	190.8	-57.2	32.8
38.0	40.0	215.5	191.3	-58.8	31.2
40.0	42.0	215.9	191.7	-58.5	33.5
42.0	44.0	216.5	192.3	-58.1	31.9
44.0	46.0	216.7	192.5	-58.8	31.2
46.0	48.0	217.1	192.9	-57.6	32.4
48.0	50.0	217.3	193.1	-58.4	31.6
50.0	52.0	217.6	193.4	-59.0	34.1
52.0	54.0	217.9	193.7	-59.0	33.5
54.0	56.0	218.0	193.8	-60.6	29.4
56.0	58.0	218.1	193.9	-61.6	28.4
58.0	60.0	218.2	194.0	-60.0	30.0
60.0	62.0	218.3	194.1	-59.5	30.5
62.0	64.0	218.5	194.3	-59.3	30.7
64.0	66.0	218.7	194.5	-59.7	30.3
66.0	68.0	218.9	194.7	-60.2	29.8
68.0	70.0	219.0	194.8	-60.1	29.9
70.0	72.0	219.2	195.0	-61.6	28.4
72.0	74.0	219.4	195.2	-60.3	29.7
74.0	76.0	219.5	195.3	-60.7	29.3
76.0	78.0	219.7	195.5	-61.1	28.9
78.0	80.0	219.8	195.6	-60.7	29.3
80.0	82.0	220.0	195.8	-62.5	27.5
82.0	84.0	220.1	195.9	-60.4	25.8
84.0	86.0	220.3	196.1	-60.1	29.9
86.0	88.0	220.3	196.1	-60.8	29.2
88.0	90.0	220.4	196.2	-58.9	31.1
90.0	92.0	220.5	196.3	-60.1	29.9
92.0	94.0	220.6	196.4	-60.2	29.8
94.0	96.0	220.7	196.5	-58.9	31.1
96.0	98.0	220.8	196.6	-59.9	30.1
98.0	100.0	220.8	196.6	-59.3	30.7
100.0	102.0	220.9	196.7	-58.4	31.6
102.0	104.0	221.0	196.8	-58.4	33.8
104.0	106.0	221.0	196.8	-57.8	32.2
106.0	108.0	221.1	196.9	-58.1	31.9
108.0	110.0	221.1	196.9	-58.1	30.5
110.0	112.0	221.2	197.0	-57.1	32.9

## Downhole Survey Summary Table

Hole Number: RHTR 2006-8

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
112.0	114.0	221.2	197.0	-57.9	32.1
114.0	116.0	221.3	197.1	-58.0	32.0
116.0	118.0	221.3	197.1	-57.9	32.1
118.0	120.0	221.4	197.2	-57.1	32.9
120.0	122.0	221.4	197.2	-57.1	32.9
122.0	124.0	221.5	197.3	-57.5	32.5
124.0	126.0	221.6	197.4	-57.6	32.4
126.0	128.0	221.6	197.4	-57.8	32.2
128.0	130.0	221.6	197.4	-55.6	34.4
130.0	132.0	221.7	197.5	-55.6	38.8
132.0	134.0	221.7	197.5	-54.8	35.2
134.0	136.0	221.7	197.5	-54.8	37.4
136.0	138.0	221.8	197.6	-54.5	35.5
138.0	140.0	221.8	197.6	-55.2	34.8
140.0	142.0	221.9	197.7	-53.2	36.8
142.0	144.0	221.9	197.7	-53.6	36.4
144.0	146.0	222.0	197.8	-53.2	36.8
146.0	148.0	222.0	197.8	-52.4	37.6
148.0	150.0	222.1	197.9	-53.1	36.9
150.0	152.0	222.2	198.0	-50.4	39.6
152.0	154.0	222.2	198.0	-48.7	41.3
154.0	156.0	222.3	198.1	-49.1	40.9
156.0	158.0	222.4	198.2	-49.1	39.7
158.0	160.0	222.4	198.2	-47.3	42.7
160.0	162.0	222.5	198.3	-46.5	43.5
162.0	164.0	222.6	198.4	-46.4	43.6
164.0	166.0	222.7	198.5	-45.2	44.8
166.0	168.0	222.7	198.5	-45.9	44.1
168.0	170.0	222.8	198.6	-45.3	44.7
170.0	172.0	222.8	198.6	-45.0	45.0
172.0	174.0	222.9	198.7	-47.8	42.2
174.0	176.0	222.9	198.7	-45.1	45.2
176.0	178.0	222.9	198.7	-46.4	43.6
178.0	180.0	223.0	198.8	-44.9	45.1
180.0	182.0	223.0	198.8	-44.7	45.3
182.0	184.0	223.0	198.8	-42.8	47.2
184.0	186.0	223.0	198.8	-43.5	46.5
186.0	188.0	223.0	198.8	-42.7	47.3
188.0	190.0	223.0	198.8	-42.2	47.8
190.0	192.0	223.0	198.8	-42.1	50.2
192.0	194.0	223.0	198.8	-42.1	47.9
194.0	196.0	223.0	198.8	-42.5	47.5

## Downhole Survey Summary Table

Hole Number: RHTR 2006-8

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
196.0	198.0	223.0	198.8	-40.7	49.3
198.0	200.0	223.0	198.8	-40.2	49.8
200.0	202.0	223.0	198.8	-38.3	51.7
202.0	204.0	223.1	198.9	-38.2	49.7
204.0	206.0	223.1	198.9	-36.6	53.4
206.0	208.0	223.1	198.9	-36.6	55.5
208.0	210.0	223.1	198.9	-36.9	53.1
210.0	212.0	223.2	199.0	-35.6	54.4
212.0	214.0	223.2	199.0	-34.8	55.2
214.0	216.0	223.2	199.0	-32.9	57.1
216.0	218.0	223.2	199.0	-35.0	55.0
218.0	220.0	223.3	199.1	-34.5	55.5
220.0	222.0	223.3	199.1	-34.2	54.3
222.0	224.0	223.3	199.1	-32.3	57.7
224.0	226.0	223.4	199.2	-32.2	55.7
226.0	228.0	223.4	199.2	-32.2	55.3
228.0	230.0	223.4	199.2	-32.0	58.0
230.0	232.0	223.5	199.3	-32.9	57.1
232.0	234.0	223.5	199.3	-32.6	57.4
234.0	236.0	223.6	199.4	-33.0	55.1
236.0	238.1	223.6	199.4	-33.7	56.3



## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR 2006-8

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	80.76	82.56	1.80		
CZ	84.28	84.73	0.45		
D2	86.33	88.52	2.19		
E1	130.85	132.04	1.19		
E2	133.00	133.64	0.64		
E3	135.32	135.78	0.46		
F BONE	154.87	155.31	0.44		
F	155.31	157.23	1.92		
CZ	162.02	162.31	0.29		
G	211.15	215.46	4.31		
I	216.06	217.28	1.22		
I	218.13	218.65	0.52		
I	219.71	220.86	1.15		
J	222.71	225.31	2.60		
CZ	226.42	226.86	0.44		
CZ	227.07	227.49	0.42		
K1	232.12	233.70	1.58		
K2	234.45	235.56	1.11		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-8	0	1.60	OB	1.60		
RHTR2006-8	1.6	16.65	SST	15.05		
RHTR2006-8	16.65	23.60	CLY/CC	6.95		
RHTR2006-8	23.6	71.70	CGLM	48.10		
RHTR2006-8	71.7	72.00	CZ	0.30		
RHTR2006-8	72	80.76	CGLM	8.76		
RHTR2006-8	80.76	82.56	D1	1.80		
RHTR2006-8	82.56	84.28	CLY/SLT	1.72		
RHTR2006-8	84.28	84.73	CZ	0.45		
RHTR2006-8	84.73	86.33	SLT	1.60		
RHTR2006-8	86.33	88.52	D2	2.19		
RHTR2006-8	88.52	107.80	CLY/SLT	19.28		
RHTR2006-8	107.8	109.20	SST	1.40		
RHTR2006-8	109.2	111.35	CLY/SLT	2.15		
RHTR2006-8	111.35	113.00	SST	1.65		
RHTR2006-8	113	116.20	SLT	3.20		
RHTR2006-8	116.2	127.00	SST	10.80		
RHTR2006-8	127	128.90	SLT	1.90		
RHTR2006-8	128.9	130.85	CLY	1.95		
RHTR2006-8	130.85	132.04	E1	1.19		
RHTR2006-8	132.04	133.00	CLY	0.96		
RHTR2006-8	133	133.64	E2	0.64		
RHTR2006-8	133.64	135.32	SLT/CLY	1.68		
RHTR2006-8	135.32	135.78	E3	0.46		
RHTR2006-8	135.78	137.95	SLT	2.17		
RHTR2006-8	137.95	141.60	CLY	3.65		
RHTR2006-8	141.6	144.00	SLT	2.40		
RHTR2006-8	144	145.70	CLY	1.70		
RHTR2006-8	145.7	149.75	SLT	4.05		
RHTR2006-8	149.75	154.87	CLY/SLT	5.12		
RHTR2006-8	154.87	155.31	F BONE	0.44		
RHTR2006-8	155.31	157.23	F	1.92		
RHTR2006-8	157.23	162.02	CLY/SLT	4.79		
RHTR2006-8	162.02	162.31	CZ	0.29		
RHTR2006-8	162.31	178.75	CLY/SLT	16.44		
RHTR2006-8	178.75	184.65	SLT	5.90		
RHTR2006-8	184.65	188.75	SST	4.10		
RHTR2006-8	188.75	192.65	SLT/CLY	3.90		
RHTR2006-8	192.65	194.10	SST	1.45		
RHTR2006-8	194.1	195.15	SLT/CLY	1.05		
RHTR2006-8	195.15	210.35	SST/SLT	15.20		
RHTR2006-8	210.35	211.15	CLY	0.80		
RHTR2006-8	211.15	215.46	G	4.31		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-8	215.46	216.06	CLY	0.60		
RHTR2006-8	216.06	217.28	I	1.22		
RHTR2006-8	217.28	218.13	CLY	0.85		
RHTR2006-8	218.13	218.65	I	0.52		
RHTR2006-8	218.65	219.71	CLY	1.06		
RHTR2006-8	219.71	220.86	I	1.15		
RHTR2006-8	220.86	222.71	CLY	1.85		
RHTR2006-8	222.71	225.31	J	2.60		
RHTR2006-8	225.31	226.42	CLY	1.11		
RHTR2006-8	226.42	226.86	CZ	0.44		
RHTR2006-8	226.86	227.07	CLY	0.21		
RHTR2006-8	227.07	227.49	CZ	0.42		
RHTR2006-8	227.49	230.50	CLY	3.01		
RHTR2006-8	230.5	232.12	SLT	1.62		
RHTR2006-8	232.12	233.70	K1	1.58		
RHTR2006-8	233.7	234.45	CLY	0.75		
RHTR2006-8	234.45	235.56	K2	1.11		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-9

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1924.58	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	312.15	<b>Hole Angle (°)</b>	80
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	24-Aug-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	8/24/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083020.98	630808.94	9226.41	12789.94

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		9056, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century Geophysical Corp.

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-9

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	16.0	40.5	16.3	-79.2	10.8
16.0	18.0	40.0	15.8	-78.8	11.2
18.0	20.0	39.8	15.6	-78.6	11.4
20.0	22.0	39.7	15.5	-79.3	10.7
22.0	24.0	39.5	15.3	-79.1	10.9
24.0	26.0	39.5	15.3	-78.6	11.4
26.0	28.0	39.4	15.2	-78.8	11.2
28.0	30.0	39.3	15.1	-78.4	11.6
30.0	32.0	39.2	15.0	-78.5	11.5
32.0	34.0	39.2	15.0	-78.3	11.7
34.0	36.0	39.1	14.9	-78.3	11.7
36.0	38.0	39.1	14.9	-78.2	11.8
38.0	40.0	39.1	14.9	-77.9	12.1
40.0	42.0	39.1	14.9	-77.7	12.3
42.0	44.0	39.0	14.8	-77.8	12.2
44.0	46.0	39.0	14.8	-77.3	12.7
46.0	48.0	38.9	14.7	-77.4	12.6
48.0	50.0	38.8	14.6	-76.6	13.4
50.0	52.0	38.9	14.7	-76.3	13.7
52.0	54.0	38.9	14.7	-77.0	13.0
54.0	56.0	38.9	14.7	-76.7	13.3
56.0	58.0	38.9	14.7	-76.8	13.2
58.0	60.0	38.8	14.6	-76.9	13.1
60.0	62.0	38.8	14.6	-76.7	13.3
62.0	64.0	38.7	14.5	-76.8	13.2
64.0	66.0	38.6	14.4	-76.5	13.5
66.0	68.0	38.6	14.4	-76.6	13.4
68.0	70.0	38.5	14.3	-76.5	13.5
70.0	72.0	38.4	14.2	-76.4	13.6
72.0	74.0	38.4	14.2	-77.1	12.9
74.0	76.0	38.4	14.2	-77.6	12.4
76.0	78.0	38.3	14.1	-77.9	12.1
78.0	80.0	38.3	14.1	-78.3	11.7
80.0	82.0	38.2	14.0	-79.4	10.6
82.0	84.0	38.1	13.9	-78.7	11.3
84.0	86.0	38.1	13.9	-79.2	10.8
86.0	88.0	38.0	13.8	-77.7	7.9
88.0	90.0	38.0	13.8	-77.9	12.1
90.0	92.0	37.9	13.7	-77.7	10.1
92.0	94.0	38.0	13.8	-77.7	12.7
94.0	96.0	37.9	13.7	-77.7	10.6
96.0	98.0	37.9	13.7	-77.7	15.1

## Downhole Survey Summary Table

Hole Number: RHTR 2006-9

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
98.0	100.0	37.9	13.7	-77.3	12.7
100.0	102.0	37.9	13.7	-78.2	11.8
102.0	104.0	37.9	13.7	-77.7	12.3
104.0	106.0	37.9	13.7	-76.8	13.2
106.0	108.0	38.0	13.8	-76.0	14.0
108.0	110.0	38.0	13.8	-77.6	12.4
110.0	112.0	38.0	13.8	-76.9	13.1
112.0	114.0	38.0	13.8	-76.5	13.5
114.0	116.0	38.1	13.9	-76.6	13.4
116.0	118.0	38.2	14.0	-76.8	13.2
118.0	120.0	38.2	14.0	-76.8	13.2
120.0	122.0	38.3	14.1	-76.7	13.3
122.0	124.0	38.4	14.2	-76.8	13.2
124.0	126.0	38.5	14.3	-77.1	12.9
126.0	128.0	38.6	14.4	-76.9	13.1
128.0	130.0	38.8	14.6	-76.5	13.5
130.0	132.0	38.9	14.7	-76.4	13.6
132.0	134.0	38.9	14.7	-76.0	14.0
134.0	136.0	39.0	14.8	-75.1	14.9
136.0	138.0	39.1	14.9	-75.8	14.2
138.0	140.0	39.2	15.0	-75.0	15.0
140.0	142.0	39.3	15.1	-75.4	14.6
142.0	144.0	39.3	15.1	-75.5	14.5
144.0	146.0	39.4	15.2	-75.7	14.3
146.0	148.0	39.5	15.3	-75.5	14.5
148.0	150.0	39.6	15.4	-75.9	14.1
150.0	152.0	39.7	15.5	-75.1	14.9
152.0	154.0	39.8	15.6	-75.7	14.3
154.0	156.0	39.8	15.6	-74.5	15.5
156.0	158.0	39.9	15.7	-76.0	14.0
158.0	160.0	40.0	15.8	-74.8	15.2
160.0	162.0	40.1	15.9	-75.0	15.0
162.0	164.0	40.1	15.9	-74.4	15.6
164.0	166.0	40.2	16.0	-73.9	16.1
166.0	168.0	40.3	16.1	-74.0	16.0
168.0	170.0	40.4	16.2	-73.5	16.5
170.0	172.0	40.5	16.3	-74.4	15.6
172.0	174.0	40.6	16.4	-73.6	16.4
174.0	176.0	40.7	16.5	-73.3	16.7
176.0	178.0	40.9	16.7	-73.9	16.1
178.0	180.0	41.0	16.8	-74.5	15.5
180.0	182.0	41.2	17.0	-73.2	16.8

## Downhole Survey Summary Table

Hole Number: RHTR 2006-9

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
182.0	184.0	41.3	17.1	-73.5	16.5
184.0	186.0	41.5	17.3	-73.5	16.5
186.0	188.0	41.5	17.3	-73.5	16.5
188.0	190.0	41.6	17.4	-72.5	17.5
190.0	192.0	41.8	17.6	-73.4	16.6
192.0	194.0	41.9	17.7	-73.2	16.8
194.0	196.0	42.0	17.8	-73.9	16.1
196.0	198.0	42.1	17.9	-72.7	17.3
198.0	200.0	42.2	18.0	-73.0	17.0
200.0	202.0	42.3	18.1	-74.2	15.8
202.0	204.0	42.4	18.2	-73.1	16.9
204.0	206.0	42.4	18.2	-73.4	16.6
206.0	208.0	42.5	18.3	-73.7	16.3
208.0	210.0	42.6	18.4	-73.7	16.3
210.0	212.0	42.7	18.5	-73.6	16.4
212.0	214.0	42.7	18.5	-73.8	16.2
214.0	216.0	42.8	18.6	-73.7	16.3
216.0	218.0	42.9	18.7	-73.9	16.1
218.0	220.0	42.9	18.7	-73.9	16.1
220.0	222.0	43.0	18.8	-73.3	16.7
222.0	224.0	43.1	18.9	-73.2	16.8
224.0	226.0	43.2	19.0	-72.8	17.2
226.0	228.0	43.3	19.1	-74.1	15.9
228.0	230.0	43.3	19.1	-74.5	15.5
230.0	232.0	43.4	19.2	-72.8	17.2
232.0	234.0	43.5	19.3	-72.5	17.5
234.0	236.0	43.5	19.3	-72.3	17.7
236.0	238.0	43.6	19.4	-71.8	18.2
238.0	240.0	43.7	19.5	-71.6	18.4
240.0	242.0	43.8	19.6	-71.0	19.0
242.0	244.0	43.8	19.6	-70.8	19.2
244.0	246.0	43.9	19.7	-70.7	19.3
246.0	248.0	43.9	19.7	-70.3	19.7
248.0	250.0	44.0	19.8	-70.1	19.9
250.0	252.0	44.0	19.8	-69.8	20.2
252.0	254.0	44.1	19.9	-69.3	20.7
254.0	256.0	44.1	19.9	-68.7	21.3
256.0	258.0	44.2	20.0	-68.1	21.9
258.0	260.0	44.2	20.0	-67.7	22.3
260.0	262.0	44.3	20.1	-66.7	23.3
262.0	264.0	44.4	20.2	-66.4	23.6
264.0	266.0	44.4	20.2	-65.3	24.7

## Downhole Survey Summary Table

Hole Number: RHTR 2006-9

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
266.0	268.0	44.5	20.3	-65.3	24.7
268.0	270.0	44.6	20.4	-65.3	24.7
270.0	272.0	44.6	20.4	-65.0	25.0
272.0	274.0	44.7	20.5	-62.7	27.3
274.0	276.0	44.8	20.6	-64.7	25.3
276.0	278.0	44.8	20.6	-64.1	25.9
278.0	280.0	44.9	20.7	-64.3	25.7
280.0	282.0	44.9	20.7	-63.9	26.1
282.0	284.0	45.0	20.8	-63.2	26.8
284.0	286.0	45.1	20.9	-64.4	25.6
286.0	288.0	45.1	20.9	-62.7	27.3
288.0	290.0	45.2	21.0	-61.8	28.2
290.0	292.0	45.3	21.1	-62.8	27.2
292.0	294.0	45.4	21.2	-62.2	27.8
294.0	296.0	45.4	21.2	-61.1	28.9
296.0	298.0	45.5	21.3	-60.7	29.3
298.0	300.0	45.6	21.4	-61.2	28.8
300.0	302.0	45.6	21.4	-60.1	29.9
302.0	304.0	45.7	21.5	-60.3	29.7
304.0	306.0	45.7	21.5	-59.8	30.2
306.0	308.0	45.7	21.5	-59.2	30.8
308.0	310.0	45.8	21.6	-58.6	31.4
310.0	312.1	45.8	21.6	-57.4	32.6



## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-9

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	12.83	13.13	0.30		
D1	49.45	50.66	1.21		
CZ	52.55	52.94	0.39		
D2A	56.74	57.62	0.88		
CZ	60.20	60.59	0.39		
CZ	61.72	62.01	0.29		
D2B	62.23	64.86	2.63		
D2C	72.60	78.13	5.53		
D2D	79.86	88.10	8.24		
D2E	95.02	96.28	1.26		
D2F	100.93	103.21	2.28		
CZ	107.99	108.42	0.43		
D2G	109.63	113.73	4.10		
CZ	116.44	116.99	0.55		
CZ	117.79	118.33	0.54		
CZ	120.00	120.32	0.32		
D2H	121.38	124.04	2.66		
CZ	125.09	128.16	3.07		
D2J	126.85	128.73	1.88		
D2J	129.26	130.42	1.16		
CZ	131.84	132.29	0.45		
E1	205.74	208.53	2.79		
E1 PARTING	208.53	208.81	0.28		
E1 FW CZ	208.81	209.75	0.94		
E2	210.67	211.93	1.26		
E3	214.27	214.84	0.57		
F	232.09	233.16	1.07		
F2	237.35	238.60	1.25		
CZ	244.25	244.75	0.50		
G	279.28	283.48	4.20		
CZ	284.19	284.53	0.34		
I	285.51	286.16	0.65		
J	288.87	297.67	8.80		
K1	308.79	309.78	0.99		
K2	311.14	312.00	0.86		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-9	0.00	12.83	SST/CGLM	12.83		
RHTR2006-9	12.83	13.13	CZ	0.30		
RHTR2006-9	13.13	49.45	CGLM	36.32		
RHTR2006-9	49.45	50.66	D1	1.21		
RHTR2006-9	50.66	52.55	SLT	1.89		
RHTR2006-9	52.55	52.94	CZ	0.39		
RHTR2006-9	52.94	56.74	CLY	3.80		
RHTR2006-9	56.74	57.62	D2a	0.88		
RHTR2006-9	57.62	60.20	CLY	2.58		
RHTR2006-9	60.20	60.59	CZ	0.39		
RHTR2006-9	60.59	61.72	CLY/SLT	1.13		
RHTR2006-9	61.72	62.01	CZ	0.29		
RHTR2006-9	62.01	62.23	CLY	0.22		
RHTR2006-9	62.23	64.86	D2b	2.63		
RHTR2006-9	64.86	72.60	SLT	7.74		
RHTR2006-9	72.60	78.13	D2c	5.53		
RHTR2006-9	78.13	79.86	SST	1.73		
RHTR2006-9	79.86	88.10	D2d	8.24		
RHTR2006-9	88.10	89.25	SST	1.15		
RHTR2006-9	89.25	95.02	SLT	5.77		
RHTR2006-9	95.02	96.28	D2e	1.26		
RHTR2006-9	96.28	99.90	SLT	3.62		
RHTR2006-9	99.90	100.93	SST	1.03		
RHTR2006-9	100.93	103.21	D2f	2.28		
RHTR2006-9	103.21	107.99	SST/SLT	4.78		
RHTR2006-9	107.99	108.42	CZ	0.43		
RHTR2006-9	108.42	109.63	SLT	1.21		
RHTR2006-9	109.63	113.73	D2g	4.10		
RHTR2006-9	113.73	116.44	CLY	2.71		
RHTR2006-9	116.44	116.99	CZ	0.55		
RHTR2006-9	116.99	117.79	CLY	0.80		
RHTR2006-9	117.79	118.33	CZ	0.54		
RHTR2006-9	118.33	120.00	CLY	1.67		
RHTR2006-9	120.00	120.32	CZ	0.32		
RHTR2006-9	120.32	121.38	CLY	1.06		
RHTR2006-9	121.38	124.04	D2h	2.66		
RHTR2006-9	124.04	125.09	SST	1.05		
RHTR2006-9	125.09	126.16	CZ	1.07		
RHTR2006-9	126.16	126.85	SST	0.69		
RHTR2006-9	126.85	128.73	D2i	1.88		
RHTR2006-9	128.73	129.26	SLT/CLY	0.53		
RHTR2006-9	129.26	130.42	D2j	1.16		
RHTR2006-9	130.42	131.84	SLT	1.42		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-9	131.84	132.29	CZ	0.45		
RHTR2006-9	132.29	138.75	CLY/SLT	6.46		
RHTR2006-9	138.75	140.70	SST	1.95		
RHTR2006-9	140.70	146.75	CLY/SLT	6.05		
RHTR2006-9	146.75	147.75	SST	1.00		
RHTR2006-9	147.75	155.55	CLY	7.80		
RHTR2006-9	155.55	160.15	SLT	4.60		
RHTR2006-9	160.15	162.50	CLY	2.35		
RHTR2006-9	162.50	165.20	SLT	2.70		
RHTR2006-9	165.20	165.90	CLY	0.70		
RHTR2006-9	165.90	167.50	SLT	1.60		
RHTR2006-9	167.50	169.85	SST	2.35		
RHTR2006-9	169.85	171.30	CLY	1.45		
RHTR2006-9	171.30	176.15	SLT	4.85		
RHTR2006-9	176.15	204.00	SST	27.85		
RHTR2006-9	204.00	205.74	CLY	1.74		
RHTR2006-9	205.74	208.53	E1	2.79		
RHTR2006-9	208.53	208.81	CLY	0.28		
RHTR2006-9	208.81	209.75	CZ	0.94		
RHTR2006-9	209.75	210.67	CLY	0.92		
RHTR2006-9	210.67	211.93	E2	1.26		
RHTR2006-9	211.93	214.27	SST/SLT	2.34		
RHTR2006-9	214.27	214.84	E3	0.57		
RHTR2006-9	214.84	216.25	SLT	1.41		
RHTR2006-9	216.25	216.90	SST	0.65		
RHTR2006-9	216.90	232.09	SLT/CLY	15.19		
RHTR2006-9	232.09	233.16	F	1.07		
RHTR2006-9	233.16	237.35	CLY	4.19		
RHTR2006-9	237.35	238.60	F2	1.25		
RHTR2006-9	238.60	244.25	SLT/CLY	5.65		
RHTR2006-9	244.25	244.75	CZ	0.50		
RHTR2006-9	244.75	259.30	CLY/SLT	14.55		
RHTR2006-9	259.30	268.80	SST	9.50		
RHTR2006-9	268.80	276.40	SLT/SST	7.60		
RHTR2006-9	276.40	278.10	SLT	1.70		
RHTR2006-9	278.10	279.28	CLY	1.18		
RHTR2006-9	279.28	283.48	G	4.20		
RHTR2006-9	283.48	284.19	CLY	0.71		
RHTR2006-9	284.19	284.53	CZ	0.34		
RHTR2006-9	284.53	285.51	CLY	0.98		
RHTR2006-9	285.51	286.16	I	0.65		
RHTR2006-9	286.16	288.87	CLY	2.71		
RHTR2006-9	288.87	297.67	J	8.80		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-9	297.67	303.35	CLY	5.68		
RHTR2006-9	303.35	308.79	SLT	5.44		
RHTR2006-9	308.79	309.78	K1	0.99		
RHTR2006-9	309.78	311.14	CLY	1.36		
RHTR2006-9	311.14	312.00	K2	0.86		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-10

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1926.29	<b>Collar Bearing (°)</b>	vertical
<b>Total Depth (m)</b>	258.12	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	1.00	<b>Date Drilling Complete</b>	26-Aug-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	8/27/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083002.31	630799.39	9205.47	12788.88

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9056, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-10

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	14.0	48.6	24.4	-88.1	1.9
14.0	16.0	58.0	33.8	-88.0	2.0
16.0	18.0	64.5	40.3	-88.1	1.9
18.0	20.0	70.2	46.0	-88.2	1.8
20.0	22.0	74.1	49.9	-87.8	2.2
22.0	24.0	76.6	52.4	-88.1	1.9
24.0	26.0	79.0	54.8	-87.4	2.6
26.0	28.0	81.1	56.9	-87.5	2.5
28.0	30.0	82.9	58.7	-87.4	2.6
30.0	32.0	84.1	59.9	-87.1	2.9
32.0	34.0	85.2	61.0	-86.5	3.5
34.0	36.0	86.2	62.0	-87.1	2.9
36.0	38.0	87.0	62.8	-87.5	2.5
38.0	40.0	87.7	63.5	-87.4	2.6
40.0	42.0	88.5	64.3	-87.4	2.6
42.0	44.0	89.1	64.9	-87.4	2.6
44.0	46.0	89.8	65.6	-86.6	3.4
46.0	48.0	90.5	66.3	-87.6	2.4
48.0	50.0	91.1	66.9	-87.5	2.5
50.0	52.0	91.8	67.6	-87.1	2.9
52.0	54.0	92.4	68.2	-86.7	3.3
54.0	56.0	92.9	68.7	-87.5	2.5
56.0	58.0	93.4	69.2	-86.9	3.1
58.0	60.0	93.6	69.4	-87.4	2.6
60.0	62.0	94.0	69.8	-86.8	3.2
62.0	64.0	94.1	69.9	-86.5	3.5
64.0	66.0	94.5	70.3	-87.0	3.0
66.0	68.0	94.7	70.5	-87.1	2.9
68.0	70.0	94.9	70.7	-86.5	3.5
70.0	72.0	95.0	70.8	-86.7	3.3
72.0	74.0	95.1	70.9	-87.2	2.8
74.0	76.0	95.2	71.0	-86.4	3.6
76.0	78.0	95.1	70.9	-86.3	3.7
78.0	80.0	95.4	71.2	-86.4	3.6
80.0	82.0	95.7	71.5	-87.5	2.5
82.0	84.0	96.0	71.8	-86.8	3.2
84.0	86.0	96.3	72.1	-86.8	3.2
86.0	88.0	96.5	72.3	-87.4	2.6
88.0	90.0	96.8	72.6	-87.5	2.5
90.0	92.0	97.1	72.9	-86.6	3.4
92.0	94.0	97.2	73.0	-86.7	3.3
94.0	96.0	97.3	73.1	-86.6	3.4

## Downhole Survey Summary Table

Hole Number: RHTR 2006-10

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
96.0	98.0	97.4	73.2	-86.9	3.1
98.0	100.0	97.4	73.2	-86.5	3.5
100.0	102.0	97.2	73.0	-86.4	3.6
102.0	104.0	97.0	72.8	-86.9	3.1
104.0	106.0	96.9	72.7	-86.3	3.7
106.0	108.0	96.7	72.5	-86.3	3.7
108.0	110.0	96.6	72.4	-87.0	3.0
110.0	112.0	96.6	72.4	-86.7	3.3
112.0	114.0	96.6	72.4	-87.1	2.9
114.0	116.0	96.7	72.5	-87.0	3.0
116.0	118.0	96.7	72.5	-86.9	3.1
118.0	120.0	96.7	72.5	-87.0	3.0
120.0	122.0	96.7	72.5	-86.6	3.4
122.0	124.0	96.6	72.4	-86.6	3.4
124.0	126.0	96.6	72.4	-86.1	3.9
126.0	128.0	96.8	72.6	-87.2	2.8
128.0	130.0	96.8	72.6	-86.2	3.8
130.0	132.0	96.8	72.6	-86.1	3.9
132.0	134.0	96.8	72.6	-86.4	3.6
134.0	136.0	96.7	72.5	-85.7	4.3
136.0	138.0	96.7	72.5	-86.0	4.0
138.0	140.0	96.6	72.4	-86.1	3.9
140.0	142.0	96.4	72.2	-85.8	4.2
142.0	144.0	96.3	72.1	-85.3	4.7
144.0	146.0	96.2	72.0	-85.7	4.3
146.0	148.0	96.1	71.9	-85.3	4.7
148.0	150.0	96.0	71.8	-85.4	4.6
150.0	152.0	95.9	71.7	-85.2	4.8
152.0	154.0	95.9	71.7	-85.2	4.8
154.0	156.0	95.9	71.7	-84.7	5.3
156.0	158.0	96.0	71.8	-85.1	4.9
158.0	160.0	96.1	71.9	-84.1	5.9
160.0	162.0	96.2	72.0	-84.9	5.1
162.0	164.0	96.5	72.3	-84.7	5.3
164.0	166.0	96.9	72.7	-84.6	5.4
166.0	168.0	97.2	73.0	-85.0	5.0
168.0	170.0	97.6	73.4	-85.0	5.0
170.0	172.0	98.0	73.8	-85.1	4.9
172.0	174.0	98.4	74.2	-85.2	4.8
174.0	176.0	98.7	74.5	-84.8	5.2
176.0	178.0	99.2	75.0	-84.9	5.1
178.0	180.0	99.8	75.6	-85.0	5.0

## Downhole Survey Summary Table

Hole Number: RHTR 2006-10

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
180.0	182.0	100.4	76.2	-85.0	5.0
182.0	184.0	100.9	76.7	-85.4	4.6
184.0	186.0	101.5	77.3	-84.9	5.1
186.0	188.0	102.1	77.9	-85.0	5.0
188.0	190.0	102.6	78.4	-84.7	5.3
190.0	192.0	103.3	79.1	-84.5	5.5
192.0	194.0	104.0	79.8	-84.8	5.2
194.0	196.0	104.7	80.5	-84.5	5.5
196.0	198.0	105.5	81.3	-84.2	5.8
198.0	200.0	106.3	82.1	-84.0	6.0
200.0	202.0	107.1	82.9	-83.7	6.3
202.0	204.0	108.0	83.8	-83.2	6.8
204.0	206.0	109.0	84.8	-82.8	7.2
206.0	208.0	110.0	85.8	-82.8	7.2
208.0	210.0	111.0	86.8	-82.2	7.8
210.0	212.0	112.1	87.9	-81.6	8.4
212.0	214.0	113.2	89.0	-81.7	8.3
214.0	216.0	114.3	90.1	-81.6	8.4
216.0	218.0	115.5	91.3	-81.4	8.6
218.0	220.0	116.6	92.4	-81.4	8.6
220.0	222.0	117.6	93.4	-81.3	8.7
222.0	224.0	118.8	94.6	-81.5	8.5
224.0	226.0	119.9	95.7	-80.9	9.1
226.0	228.0	121.0	96.8	-80.8	9.2
228.0	230.0	122.1	97.9	-80.7	9.3
230.0	232.0	123.2	99.0	-80.5	9.5
232.0	234.0	124.3	100.1	-80.0	10.0
234.0	236.0	125.4	101.2	-80.0	10.0
236.0	238.0	126.5	102.3	-79.7	10.3
238.0	240.0	127.6	103.4	-79.8	10.2
240.0	242.0	128.7	104.5	-79.6	10.4
242.0	244.0	129.8	105.6	-79.0	11.0
244.0	246.0	130.9	106.7	-79.1	10.9
246.0	248.0	131.0	106.8	-79.2	10.8
248.0	250.0	133.0	108.8	-78.5	11.5
250.0	252.0	134.1	109.9	-78.2	11.8
252.0	254.0	135.2	111.0	-78.2	11.8
254.0	256.0	136.3	112.1	-77.8	12.2
256.0	258.0	137.3	113.1	-77.5	12.5
258.0	295.0	137.3	113.1	-77.5	12.5



## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-10

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	54.22	54.86	0.64		
CZ	55.69	55.98	0.29		
D2	58.06	60.64	2.58		
E1	111.28	116.34	5.06		
E1 PARTING	116.34	116.72	0.38		
E1	116.72	118.31	1.59		
E2	120.97	122.88	1.91		
E3	126.80	127.86	1.06		
F BONE	167.14	167.87	0.73		
F BONE	167.87	172.44	4.57		
CZ	180.35	180.64	0.29		
G	235.26	243.13	7.87		
I	243.82	245.73	1.91		
J	252.22	274.00	21.78		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-10	0.00	2.00	OB	2.00		
RHTR2006-10	2.00	5.00	SST	3.00		
RHTR2006-10	5.00	5.75	SLT	0.75		
RHTR2006-10	5.75	6.05	CZ	0.30		
RHTR2006-10	6.05	54.22	CGLM	48.17		
RHTR2006-10	54.22	54.86	D1	0.64		
RHTR2006-10	54.86	55.69	SLT	0.83		
RHTR2006-10	55.69	55.98	CZ	0.29		
RHTR2006-10	55.98	58.06	SLT	2.08		
RHTR2006-10	58.06	60.64	D2	2.58		
RHTR2006-10	60.64	70.20	CLY	9.56		
RHTR2006-10	70.20	76.45	SLT	6.25		
RHTR2006-10	76.45	105.40	SST	28.95		
RHTR2006-10	105.40	108.45	SLT	3.05		
RHTR2006-10	108.45	111.28	CLY	2.83		
RHTR2006-10	111.28	116.34	E1	5.06		
RHTR2006-10	116.34	116.72	CLY	0.38		
RHTR2006-10	116.72	118.31	E1	1.59		
RHTR2006-10	118.31	120.97	SLT	2.66		
RHTR2006-10	120.97	122.88	E2	1.91		
RHTR2006-10	122.88	125.35	SLT	2.47		
RHTR2006-10	125.35	126.80	CLY	1.45		
RHTR2006-10	126.80	127.86	E3	1.06		
RHTR2006-10	127.86	137.15	SLT	9.29		
RHTR2006-10	137.15	145.25	SLT/CLY	8.10		
RHTR2006-10	145.25	148.70	SLT	3.45		
RHTR2006-10	148.70	150.15	SST	1.45		
RHTR2006-10	150.15	160.55	SLT	10.40		
RHTR2006-10	160.55	167.14	SLT/CLY	6.59		
RHTR2006-10	167.14	167.87	F BONE	0.73		
RHTR2006-10	167.87	172.44	F	4.57		
RHTR2006-10	172.44	180.35	SLT/CLY	7.91		
RHTR2006-10	180.35	180.64	CZ	0.29		
RHTR2006-10	180.64	196.55	CLY	15.91		
RHTR2006-10	196.55	210.40	SLT	13.85		
RHTR2006-10	210.40	229.70	SST/SLT	19.30		
RHTR2006-10	229.70	232.65	SLT	2.95		
RHTR2006-10	232.65	235.26	CLY	2.61		
RHTR2006-10	235.26	243.13	G	7.87		
RHTR2006-10	243.13	243.82	CLY	0.69		
RHTR2006-10	243.82	245.73	I	1.91		
RHTR2006-10	245.73	252.22	CLY	6.49		
RHTR2006-10	252.22	256.50	J	4.28		
RHTR2006-10	256.50	256.51	FAULT	0.01		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-10	256.51	274.00	J	17.49		

## Drill Hole Summary Sheet

**Hole Number:**                    **RHTR 2006-4**

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1832.90	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	174.88	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	7-Aug-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	8/29/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083222.90	630654.12	9347.06	12565.92

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>	<b>X</b>	9068, 9067

**Comments:**    Logged thru heavy rods Aug 28/06, open hole log Sept 5/06, 9056 dex

Drilling Contractor:                    GT  
 Geophysical Contractor:              Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-4

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	27.6	3.4	-60.0	30.0
8.0	10.0	27.6	3.4	-60.0	30.0
10.0	12.0	27.7	3.5	-61.2	28.8
12.0	14.0	27.8	3.6	-61.2	28.8
14.0	16.0	28.3	4.1	-61.7	28.3
16.0	18.0	28.3	4.1	-60.6	29.4
18.0	20.0	28.2	4.0	-61.3	31.9
20.0	22.0	28.3	4.1	-62.3	27.7
22.0	24.0	28.3	4.1	-61.6	28.4
24.0	26.0	28.3	4.1	-61.9	28.1
26.0	28.0	28.2	4.0	-63.0	27.0
28.0	30.0	28.2	4.0	-61.1	28.9
30.0	32.0	28.2	4.0	-61.4	28.6
32.0	34.0	28.2	4.0	-60.9	29.1
34.0	36.0	28.1	3.9	-59.7	30.3
36.0	38.0	28.0	3.8	-61.1	28.9
38.0	40.0	28.0	3.8	-61.6	30.9
40.0	42.0	27.9	3.7	-62.7	27.3
42.0	44.0	27.9	3.7	-63.8	26.2
44.0	46.0	27.8	3.6	-62.6	27.4
46.0	48.0	27.8	3.6	-61.8	28.2
48.0	50.0	27.8	3.6	-61.1	28.9
50.0	52.0	27.7	3.5	-59.3	30.7
52.0	54.0	27.7	3.5	-60.4	29.6
54.0	56.0	27.7	3.5	-60.7	29.3
56.0	58.0	27.7	3.5	-62.0	28.0
58.0	60.0	27.6	3.4	-61.0	29.0
60.0	62.0	27.5	3.3	-61.0	33.8
62.0	64.0	27.5	3.3	-62.4	27.6
64.0	66.0	27.4	3.2	-59.4	30.6
66.0	68.0	27.4	3.2	-59.8	30.2
68.0	70.0	27.3	3.1	-57.9	32.1
70.0	72.0	27.3	3.1	-56.8	33.2
72.0	74.0	27.3	3.1	-58.3	31.7
74.0	76.0	27.2	3.0	-60.3	29.7
76.0	78.0	27.2	3.0	-59.8	30.2
78.0	80.0	27.2	3.0	-60.9	29.1
80.0	82.0	27.1	2.9	-60.1	29.9
82.0	84.0	27.1	2.9	-59.3	30.7
84.0	86.0	27.1	2.9	-57.1	32.9
86.0	88.0	27.2	3.0	-57.1	35.2
88.0	90.0	27.2	3.0	-57.8	32.2

## Downhole Survey Summary Table

Hole Number: RHTR 2006-4

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
90.0	92.0	27.2	3.0	-57.3	32.7
92.0	94.0	27.2	3.0	-57.2	28.3
94.0	96.0	27.2	3.0	-57.2	27.4
96.0	98.0	27.2	3.0	-57.1	32.9
98.0	100.0	27.3	3.1	-59.6	30.4
100.0	102.0	27.3	3.1	-55.9	37.3
102.0	104.0	27.4	3.2	-55.9	34.1
104.0	106.0	27.4	3.2	-55.9	37.8
106.0	108.0	27.5	3.3	-56.5	33.5
108.0	110.0	27.6	3.4	-55.9	34.1
110.0	112.0	27.7	3.5	-55.5	34.5
112.0	114.0	27.9	3.7	-55.6	34.4
114.0	116.0	28.0	3.8	-54.6	35.4
116.0	118.0	28.1	3.9	-53.9	36.1
118.0	120.0	28.2	4.0	-53.0	37.0
120.0	122.0	28.4	4.2	-51.9	38.1
122.0	124.0	28.5	4.3	-53.1	36.9
124.0	126.0	28.6	4.4	-53.2	36.8
126.0	128.0	28.7	4.5	-53.0	39.3
128.0	130.0	28.9	4.7	-52.2	37.8
130.0	132.0	29.0	4.8	-51.2	38.8
132.0	134.0	29.1	4.9	-49.8	40.2
134.0	136.0	29.2	5.0	-50.7	39.3
136.0	138.0	29.3	5.1	-50.0	40.0
138.0	140.0	29.4	5.2	-50.7	39.3
140.0	142.0	29.5	5.3	-48.2	41.8
142.0	144.0	29.6	5.4	-48.4	41.6
144.0	146.0	29.7	5.5	-48.3	41.7
146.0	148.0	29.8	5.6	-48.6	41.4
148.0	150.0	29.9	5.7	-46.3	43.7
150.0	152.0	30.0	5.8	-48.6	41.4
152.0	154.0	30.1	5.9	-46.4	43.6
154.0	156.0	30.2	6.0	-45.5	44.5
156.0	158.0	30.2	6.0	-47.1	42.9
158.0	160.0	30.4	6.2	-47.1	42.9
160.0	162.0	30.5	6.3	-46.2	43.8
162.0	164.0	30.6	6.4	-47.0	43.0
164.0	166.0	30.7	6.5	-46.3	43.7
166.0	168.0	30.7	6.5	-46.7	43.3
168.0	170.0	30.9	6.7	-45.1	44.9
170.0	172.0	31.0	6.8	-44.5	45.5
172.0	174.0	31.1	6.9	-44.4	45.6

## Downhole Survey Summary Table

Hole Number: RHTR 2006-4

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
174.0	176.0	31.2	7.0	-44.0	46.0
176.0	177.9	31.3	7.1	-42.9	47.1

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-4

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	47.82	48.69	0.87		
D2	51.96	52.31	0.35		
E1	83.50	85.02	1.52		
E1 PARTING	85.02	85.35	0.33		
E1	85.35	85.66	0.31		
F BONE	99.32	99.62	0.30		
F BONE	99.62	101.46	1.84		
CZ	116.52	116.68	0.16		
G	139.02	142.30	3.28		
I	142.55	143.13	0.58		
J	149.02	154.78	5.76		
K1	165.69	166.65	0.96		
K2	168.07	168.94	0.87		





## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-11

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1995.10	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	333.13	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	6.00	<b>Date Drilling Complete</b>	31-Aug-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	9/2/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082738.64	631235.90	9144.05	13295.13

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9067, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-11

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	124.2	100.0	-88.6	1.4
10.0	12.0	121.6	97.4	-89.5	0.5
12.0	14.0	121.6	97.4	-88.0	2.0
14.0	16.0	119.3	95.1	-88.6	1.4
16.0	18.0	117.5	93.3	-89.0	1.0
18.0	20.0	117.2	93.0	-88.2	1.8
20.0	22.0	117.1	92.9	-88.4	1.6
22.0	24.0	116.5	92.3	-88.3	1.7
24.0	26.0	117.0	92.8	-87.8	2.2
26.0	28.0	116.5	92.3	-88.9	1.1
28.0	30.0	115.6	91.4	-88.5	1.5
30.0	32.0	116.0	91.8	-89.0	1.0
32.0	34.0	116.2	92.0	-87.8	2.2
34.0	36.0	115.9	91.7	-88.4	1.6
36.0	38.0	116.0	91.8	-87.1	2.9
38.0	40.0	116.7	92.5	-88.3	1.7
40.0	42.0	117.3	93.1	-88.8	1.2
42.0	44.0	118.1	93.9	-88.0	3.7
44.0	46.0	119.2	95.0	-87.3	2.7
46.0	48.0	120.1	95.9	-87.6	2.4
48.0	50.0	121.3	97.1	-88.3	1.7
50.0	52.0	122.1	97.9	-87.6	2.4
52.0	54.0	123.2	99.0	-87.2	2.8
54.0	56.0	124.1	99.9	-86.8	3.2
56.0	58.0	124.9	100.7	-87.6	2.4
58.0	60.0	125.7	101.5	-87.3	2.7
60.0	62.0	126.5	102.3	-87.4	2.6
62.0	64.0	127.4	103.2	-87.6	2.4
64.0	66.0	128.3	104.1	-87.0	3.0
66.0	68.0	129.2	105.0	-86.7	3.3
68.0	70.0	130.1	105.9	-87.1	2.9
70.0	72.0	130.9	106.7	-87.4	2.6
72.0	74.0	131.7	107.5	-86.4	3.6
74.0	76.0	132.6	108.4	-86.8	3.2
76.0	78.0	133.4	109.2	-87.2	2.8
78.0	80.0	134.2	110.0	-86.6	3.4
80.0	82.0	134.9	110.7	-86.1	3.9
82.0	84.0	135.6	111.4	-86.7	3.3
84.0	86.0	136.2	112.0	-86.0	4.0
86.0	88.0	136.8	112.6	-87.2	2.8
88.0	90.0	137.4	113.2	-86.3	3.7
90.0	92.0	138.0	113.8	-86.4	3.6

## Downhole Survey Summary Table

Hole Number: RHTR 2006-11

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
92.0	94.0	138.5	114.3	-86.2	3.8
94.0	96.0	139.1	114.9	-86.3	3.7
96.0	98.0	139.6	115.4	-86.4	3.6
98.0	100.0	140.2	116.0	-85.1	4.9
100.0	102.0	140.7	116.5	-86.3	3.7
102.0	104.0	141.2	117.0	-86.6	3.4
104.0	106.0	141.7	117.5	-86.6	3.4
106.0	108.0	142.2	118.0	-86.0	4.0
108.0	110.0	142.7	118.5	-86.1	3.9
110.0	112.0	143.1	118.9	-86.1	3.9
112.0	114.0	143.5	119.3	-87.0	3.0
114.0	116.0	144.0	119.8	-86.8	3.2
116.0	118.0	144.4	120.2	-86.3	3.7
118.0	120.0	144.8	120.6	-86.4	3.6
120.0	122.0	145.2	121.0	-85.9	4.1
122.0	124.0	145.6	121.4	-86.5	3.5
124.0	126.0	146.0	121.8	-86.4	3.6
126.0	128.0	146.4	122.2	-85.0	5.0
128.0	130.0	146.8	122.6	-86.0	4.0
130.0	132.0	147.2	123.0	-86.5	3.5
132.0	134.0	147.6	123.4	-85.3	4.7
134.0	136.0	148.0	123.8	-86.5	3.5
136.0	138.0	148.3	124.1	-86.1	3.9
138.0	140.0	148.7	124.5	-85.9	4.1
140.0	142.0	149.1	124.9	-85.9	4.1
142.0	144.0	149.5	125.3	-85.6	4.4
144.0	146.0	149.9	125.7	-86.0	4.0
146.0	148.0	150.4	126.2	-85.4	4.6
148.0	150.0	150.8	126.6	-86.4	3.6
150.0	152.0	151.2	127.0	-84.7	5.3
152.0	154.0	151.6	127.4	-85.5	4.5
154.0	156.0	152.0	127.8	-85.1	4.9
156.0	158.0	152.4	128.2	-86.0	4.0
158.0	160.0	152.9	128.7	-85.5	4.5
160.0	162.0	153.3	129.1	-85.3	4.7
162.0	164.0	153.9	129.7	-85.0	5.0
164.0	166.0	154.4	130.2	-84.7	5.3
166.0	168.0	154.9	130.7	-85.0	5.0
168.0	170.0	155.4	131.2	-85.0	5.0
170.0	172.0	155.9	131.7	-84.9	5.1
172.0	174.0	156.5	132.3	-85.5	4.5
174.0	176.0	157.0	132.8	-84.7	5.3

## Downhole Survey Summary Table

Hole Number: RHTR 2006-11

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
176.0	178.0	157.6	133.4	-83.9	6.1
178.0	180.0	158.2	134.0	-83.7	6.3
180.0	182.0	158.7	134.5	-84.6	5.4
182.0	184.0	159.2	135.0	-83.8	6.2
184.0	186.0	159.8	135.6	-84.0	6.0
186.0	188.0	160.3	136.1	-84.6	5.4
188.0	190.0	160.7	136.5	-84.5	5.5
190.0	192.0	161.1	136.9	-84.7	5.3
192.0	194.0	161.5	137.3	-84.1	5.9
194.0	196.0	161.9	137.7	-84.5	5.5
196.0	198.0	162.4	138.2	-85.2	4.8
198.0	200.0	162.8	138.6	-84.4	5.6
200.0	202.0	163.2	139.0	-84.8	5.2
202.0	204.0	163.6	139.4	-84.1	5.9
204.0	206.0	164.1	139.9	-84.3	5.7
206.0	208.0	164.5	140.3	-84.6	5.4
208.0	210.0	164.8	140.6	-84.3	5.7
210.0	212.0	165.2	141.0	-84.3	5.7
212.0	214.0	165.4	141.2	-84.4	5.6
214.0	216.0	165.7	141.5	-84.4	5.6
216.0	218.0	166.0	141.8	-84.6	5.4
218.0	220.0	166.2	142.0	-85.1	4.9
220.0	222.0	166.4	142.2	-84.6	5.4
222.0	224.0	166.6	142.4	-84.7	5.3
224.0	226.0	166.8	142.6	-85.1	4.9
226.0	228.0	166.9	142.7	-85.2	4.8
228.0	230.0	167.0	142.8	-85.7	4.3
230.0	232.0	167.0	142.8	-85.8	4.2
232.0	234.0	167.0	142.8	-85.9	4.1
234.0	236.0	167.0	142.8	-86.3	3.7
236.0	238.0	166.9	142.7	-86.0	4.0
238.0	240.0	166.9	142.7	-85.8	4.2
240.0	242.0	166.8	142.6	-86.4	3.6
242.0	244.0	166.7	142.5	-86.0	4.0
244.0	246.0	166.7	142.5	-86.2	3.8
246.0	248.0	166.6	142.4	-86.1	3.9
248.0	250.0	166.5	142.3	-86.6	3.4
250.0	252.0	166.5	142.3	-85.8	4.2
252.0	254.0	166.4	142.2	-86.4	3.6
254.0	256.0	166.3	142.1	-86.3	3.7
256.0	258.0	166.2	142.0	-86.7	3.3
258.0	260.0	166.1	141.9	-86.7	3.3

## Downhole Survey Summary Table

Hole Number: RHTR 2006-11

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
260.0	262.0	166.0	141.8	-86.5	3.5
262.0	264.0	165.8	141.6	-86.3	3.7
264.0	266.0	165.7	141.5	-86.5	3.5
266.0	268.0	165.6	141.4	-87.0	3.0
268.0	270.0	165.4	141.2	-86.5	3.5
270.0	272.0	165.3	141.1	-86.6	3.4
272.0	274.0	165.1	140.9	-87.0	3.0
274.0	276.0	164.9	140.7	-86.2	3.8
276.0	278.0	164.8	140.6	-86.2	3.8
278.0	280.0	164.6	140.4	-86.2	3.8
280.0	282.0	164.5	140.3	-86.5	3.5
282.0	284.0	164.3	140.1	-86.1	3.9
284.0	286.0	164.1	139.9	-85.6	4.4
286.0	288.0	163.9	139.7	-86.2	3.8
288.0	290.0	163.7	139.5	-85.4	4.6
290.0	292.0	163.5	139.3	-85.1	4.9
292.0	294.0	163.3	139.1	-84.3	5.7
294.0	296.0	163.0	138.8	-84.6	5.4
296.0	298.0	162.8	138.6	-84.8	5.2
298.0	300.0	162.6	138.4	-84.4	5.6
300.0	302.0	162.3	138.1	-84.2	5.8
302.0	304.0	162.1	137.9	-83.9	6.1
304.0	306.0	161.8	137.6	-84.0	6.0
306.0	308.0	161.6	137.4	-84.3	5.7
308.0	310.0	161.3	137.1	-84.1	5.9
310.0	312.0	161.1	136.9	-83.8	6.2
312.0	314.0	160.8	136.6	-84.2	5.8
314.0	316.0	160.6	136.4	-84.0	6.0
316.0	318.0	160.3	136.1	-83.9	6.1
318.0	320.0	160.1	135.9	-84.1	5.9
320.0	322.0	159.8	135.6	-83.5	6.5
322.0	324.0	159.6	135.4	-83.6	6.4
324.0	326.0	159.3	135.1	-83.3	6.7
326.0	328.0	159.1	134.9	-83.1	6.9
328.0	330.0	158.9	134.7	-82.6	7.4
330.0	332.0	158.7	134.5	-82.8	7.2
332.0	333.1	158.6	134.4	-83.4	6.6

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-11

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	82.86	85.45	2.59		
D2	89.97	96.58	6.61		
D3	99.87	103.00	3.13		
D3 FW CZ	103.00	103.66	0.66		
E1	175.55	177.26	1.71		
E1 FW CZ	177.26	178.63	1.37		
CZ	180.10	180.54	0.44		
E2	181.36	185.13	3.77		
CZ	187.22	187.84	0.62		
E3	190.62	191.04	0.42		
CZ	191.30	191.53	0.23		
CZ	219.47	219.72	0.25		
F	220.17	223.10	2.93		
F PARTING	223.10	223.35	0.25		
F	223.35	223.91	0.56		
CZ	227.22	227.55	0.33		
G	302.82	306.88	4.06		
I	307.91	308.80	0.89		
J	310.12	319.45	9.33		
	319.45	319.62	0.17		
JJ	319.62	325.53	5.91		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-11	0.00	1.00	OB	1.00		
RHTR2006-11	1.00	5.80	SLT/SST	4.80		
RHTR2006-11	5.80	11.15	CLY/CC	5.35		
RHTR2006-11	11.15	13.70	SLT	2.55		
RHTR2006-11	13.60	13.95	CC	0.35		
RHTR2006-11	13.95	55.00	CGLM	41.05		
RHTR2006-11	55.00	55.30	CZ	0.30		
RHTR2006-11	55.30	82.86	CGLM	27.56		
RHTR2006-11	82.86	85.45	D1	2.59		
RHTR2006-11	85.45	89.97	SLT	4.52		
RHTR2006-11	89.97	96.58	D2	6.61		
RHTR2006-11	96.58	96.59	FAULT	0.01		
RHTR2006-11	96.59	99.87	SLT	3.28		
RHTR2006-11	99.87	103.00	D2	3.13		
RHTR2006-11	103.00	103.66	D2 FW CZ	0.66		
RHTR2006-11	103.66	107.85	CLY	4.19		
RHTR2006-11	107.85	126.60	SST	18.75		
RHTR2006-11	126.60	129.00	SLT	2.40		
RHTR2006-11	129.00	146.40	SST	17.40		
RHTR2006-11	146.40	149.20	SLT	2.80		
RHTR2006-11	149.20	151.70	FAULT	2.50		
RHTR2006-11	151.70	156.40	SST	4.70		
RHTR2006-11	156.40	157.50	SLT	1.10		
RHTR2006-11	157.50	173.10	SST	15.60		
RHTR2006-11	173.10	175.55	SLT	2.45		
RHTR2006-11	175.55	177.26	E1	1.71		
RHTR2006-11	177.26	178.63	E1 FW CZ	1.37		
RHTR2006-11	178.63	180.10	CLY	1.47		
RHTR2006-11	180.10	180.54	E2	0.44		
RHTR2006-11	180.54	180.55	FAULT	0.01		
RHTR2006-11	180.55	181.36	CLY	0.81		
RHTR2006-11	181.36	185.13	E1	3.77		
RHTR2006-11	185.13	187.22	CLY	2.09		
RHTR2006-11	187.22	187.84	E2	0.62		
RHTR2006-11	187.84	190.62	SLT/SST	2.78		
RHTR2006-11	190.62	191.04	E3	0.42		
RHTR2006-11	191.04	191.30	CLY	0.26		
RHTR2006-11	191.30	191.53	CZ	0.23		
RHTR2006-11	191.53	193.60	CLY/SLT	2.07		
RHTR2006-11	193.60	198.60	SST/SLT	5.00		
RHTR2006-11	198.60	203.20	CLY	4.60		
RHTR2006-11	203.20	206.00	SLT	2.80		
RHTR2006-11	206.00	207.00	CLY	1.00		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-11	207.00	219.47	SLT	12.47		
RHTR2006-11	219.47	219.72	CZ	0.25		
RHTR2006-11	219.72	220.17	CLY	0.45		
RHTR2006-11	220.17	223.10	F	2.93		
RHTR2006-11	223.10	223.35	SLT	0.25		
RHTR2006-11	223.35	223.91	F	0.56		
RHTR2006-11	223.91	227.22	CLY/SLT	3.31		
RHTR2006-11	227.22	227.55	CZ	0.33		
RHTR2006-11	227.55	240.60	CLY/SLT	13.05		
RHTR2006-11	240.60	268.40	SLT/SST	27.80		
RHTR2006-11	268.40	274.70	SLT	6.30		
RHTR2006-11	274.70	276.90	CLY	2.20		
RHTR2006-11	276.90	277.60	SLT	0.70		
RHTR2006-11	277.60	291.20	SST	13.60		
RHTR2006-11	291.20	292.10	CLY	0.90		
RHTR2006-11	292.10	296.40	SST/SLT	4.30		
RHTR2006-11	296.40	302.82	CLY	6.42		
RHTR2006-11	302.82	306.88	G	4.06		
RHTR2006-11	306.88	307.91	CLY	1.03		
RHTR2006-11	307.91	308.80	I	0.89		
RHTR2006-11	308.80	310.12	CLY	1.32		
RHTR2006-11	310.12	319.45	J	9.33		
RHTR2006-11	319.45	319.62	SST	0.17		
RHTR2006-11	319.62	325.53	JJ	5.91		
RHTR2006-11	325.53	330.50	SLT/CLY	4.97		

## Drill Hole Summary Sheet

**Hole Number:**                    **RHTR 2006-13**

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1852.98	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	108.10	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	6.00	<b>Date Drilling Complete</b>	3-Sep-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	9/3/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
630554.40	6083084.99	9180.38	12531.54

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9067, 9068, 9411

**Comments:**    Partial deviation log, 9411 tool would not go down muddy hole, logged thru HQ rods

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:              Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-13

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	16.0	206.2	182.0	-58.5	31.5
16.0	18.0	205.7	181.5	-58.2	31.8
18.0	20.0	205.3	181.1	-60.0	30.0
20.0	22.0	205.0	180.8	-58.0	32.0
22.0	24.0	204.7	180.5	-58.0	34.5
24.0	26.0	204.6	180.4	-58.9	31.1
26.0	28.0	204.5	180.3	-59.4	30.6
28.0	30.0	204.4	180.2	-60.1	29.9
30.0	32.0	204.4	180.2	-58.3	31.7
32.0	34.0	204.3	180.1	-58.0	32.0
34.0	36.0	204.3	180.1	-59.0	32.3
36.0	38.0	204.2	180.0	-60.4	29.6
38.0	40.0	204.2	180.0	-59.6	30.4
40.0	42.0	204.2	180.0	-58.2	31.8
42.0	44.0	204.2	180.0	-60.0	30.0
44.0	46.0	204.2	180.0	-58.3	31.7
46.0	48.0	204.3	180.1	-59.5	30.5
48.0	50.0	204.3	180.1	-59.4	30.6
50.0	52.0	204.3	180.1	-57.5	32.5
52.0	54.0	204.3	180.1	-58.8	31.2
54.0	56.0	204.3	180.1	-58.8	31.2
56.0	58.0	204.3	180.1	-59.2	30.8
58.0	60.0	204.3	180.1	-58.4	31.6
60.0	62.0	204.3	180.1	-59.0	31.0
62.0	64.0	204.3	180.1	-58.5	31.5
64.0	66.0	204.3	180.1	-58.9	31.1
66.0	67.5	204.3	180.1	-58.9	31.1
67.5	108.1	204.3	180.1	-58.9	31.1

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-13

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	5.37	5.60	0.23		
F	19.08	22.24	3.16		
CZ	27.68	27.90	0.22		
CZ	31.66	31.97	0.31		
G	66.48	70.12	3.64		
J	73.03	78.28	5.25		
K1	90.15	91.22	1.07		
K2	92.75	93.84	1.09		
K3	98.50	98.86	0.36		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-13	0.00	4.55	SST/SLT	4.55		
RHTR2006-13	4.55	5.37	SLT	0.82		
RHTR2006-13	5.37	5.60	CZ	0.23		
RHTR2006-13	5.60	19.08	SLT	13.48		
RHTR2006-13	19.08	22.24	F	3.16		
RHTR2006-13	22.24	23.20	CLY	0.96		
RHTR2006-13	23.20	26.70	SLT	3.50		
RHTR2006-13	26.70	27.68	SST	0.98		
RHTR2006-13	27.68	27.90	CZ	0.22		
RHTR2006-13	27.90	31.66	SLT/CLY	3.76		
RHTR2006-13	31.66	31.97	CZ	0.31		
RHTR2006-13	31.97	37.90	SLT/CLY	5.93		
RHTR2006-13	37.90	56.00	SLT	18.10		
RHTR2006-13	56.00	64.00	SLT/SST	8.00		
RHTR2006-13	64.00	66.48	CLY	2.48		
RHTR2006-13	66.48	70.12	G	3.64		
RHTR2006-13	70.12	73.03	CLY	2.91		
RHTR2006-13	73.03	78.28	J	5.25		
RHTR2006-13	78.28	79.50	CLY	1.22		
RHTR2006-13	79.50	87.20	SLT	7.70		
RHTR2006-13	87.20	90.15	SLT/SST	2.95		
RHTR2006-13	90.15	91.22	K1	1.07		
RHTR2006-13	91.22	92.75	CLY	1.53		
RHTR2006-13	92.75	93.84	K2	1.09		
RHTR2006-13	93.84	98.50	SLT	4.66		
RHTR2006-13	98.50	98.86	K3	0.36		
RHTR2006-13	98.86	106.30	SST/SLT	7.44		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-12

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1984.35	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	294.50	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	5.00	<b>Date Drilling Complete</b>	3-Sep-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	9/3/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
631205.36	6082690.15	9087.29	13287.17

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9067, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-12

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	16.0	182.6	158.4	-89.2	0.8
16.0	18.0	180.1	159.0	-89.4	0.6
18.0	20.0	184.5	160.3	-89.1	0.9
20.0	22.0	184.7	160.5	-88.8	1.2
22.0	24.0	184.5	160.3	-89.4	0.6
24.0	26.0	185.8	161.6	-88.6	1.4
26.0	28.0	185.3	161.1	-89.0	1.0
28.0	30.0	185.3	161.1	-89.3	0.7
30.0	32.0	185.6	161.4	-89.2	0.8
32.0	34.0	185.9	161.7	-89.0	1.0
34.0	36.0	185.8	161.6	-88.7	1.3
36.0	38.0	185.6	161.4	-88.7	1.3
38.0	40.0	186.0	161.8	-89.3	0.7
40.0	42.0	186.1	161.9	-89.1	0.9
42.0	44.0	186.2	162.0	-89.0	1.0
44.0	46.0	186.2	162.0	-88.5	1.5
46.0	48.0	186.5	162.3	-88.4	1.6
48.0	50.0	187.0	162.8	-88.2	1.8
50.0	52.0	187.3	163.1	-88.6	1.4
52.0	54.0	187.6	163.4	-88.1	1.9
54.0	56.0	187.9	163.7	-87.6	2.4
56.0	58.0	187.9	163.7	-87.7	2.3
58.0	60.0	187.9	163.7	-87.9	2.1
60.0	62.0	188.1	163.9	-88.3	1.7
62.0	64.0	188.0	163.8	-88.0	2.0
64.0	66.0	188.2	164.0	-88.0	2.0
66.0	68.0	188.5	164.3	-88.1	1.9
68.0	70.0	189.0	164.8	-86.8	3.2
70.0	72.0	189.6	165.4	-88.1	1.9
72.0	74.0	190.0	165.8	-87.7	2.3
74.0	76.0	190.3	166.1	-88.0	2.0
76.0	78.0	190.7	166.5	-88.5	1.5
78.0	80.0	190.7	166.5	-88.2	1.8
80.0	82.0	190.7	166.5	-87.5	2.5
82.0	84.0	190.4	166.2	-88.1	1.9
84.0	86.0	190.2	166.0	-87.6	2.4
86.0	88.0	189.8	165.6	-86.5	3.5
88.0	90.0	189.5	165.3	-87.8	2.2
90.0	92.0	189.2	165.0	-87.4	2.6
92.0	94.0	188.8	164.6	-87.4	2.6
94.0	96.0	188.5	164.3	-87.2	2.8
96.0	98.0	188.2	164.0	-87.2	2.8

## Downhole Survey Summary Table

Hole Number: RHTR 2006-12

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
98.0	100.0	188.0	163.8	-86.9	3.1
100.0	102.0	187.6	163.4	-88.0	2.0
102.0	104.0	187.4	163.2	-86.5	3.5
104.0	106.0	187.6	163.4	-85.5	4.5
106.0	108.0	187.6	163.4	-86.4	3.6
108.0	110.0	187.6	163.4	-86.0	4.0
110.0	112.0	187.7	163.5	-86.7	3.3
112.0	114.0	187.9	163.7	-86.1	3.9
114.0	116.0	188.0	163.8	-85.3	4.7
116.0	118.0	188.3	164.1	-87.1	2.9
118.0	120.0	188.6	164.4	-85.9	4.1
120.0	122.0	188.9	164.7	-85.1	4.9
122.0	124.0	189.2	165.0	-86.0	4.0
124.0	126.0	189.5	165.3	-84.9	5.1
126.0	128.0	189.8	165.6	-84.7	5.3
128.0	130.0	190.1	165.9	-85.3	4.7
130.0	132.0	190.4	166.2	-85.6	4.4
132.0	134.0	190.8	166.6	-84.6	5.4
134.0	136.0	191.1	166.9	-84.8	5.2
136.0	138.0	191.5	167.3	-84.6	5.4
138.0	140.0	191.8	167.6	-84.5	5.5
140.0	142.0	192.2	168.0	-84.3	5.7
142.0	144.0	192.6	168.4	-84.6	5.4
144.0	146.0	192.9	168.7	-84.5	5.5
146.0	148.0	193.3	169.1	-84.4	5.6
148.0	150.0	193.7	169.5	-83.7	6.3
150.0	152.0	194.1	169.9	-83.7	6.3
152.0	154.0	194.5	170.3	-83.8	6.2
154.0	156.0	194.8	170.6	-83.4	6.6
156.0	158.0	195.2	171.0	-83.5	6.5
158.0	160.0	195.5	171.3	-83.5	6.5
160.0	162.0	195.9	171.7	-82.6	7.4
162.0	164.0	196.2	172.0	-82.7	7.3
164.0	166.0	196.6	172.4	-82.9	7.1
166.0	168.0	196.9	172.7	-82.3	7.7
168.0	170.0	197.2	173.0	-82.6	7.4
170.0	172.0	197.6	173.4	-82.0	8.0
172.0	174.0	197.9	173.7	-82.7	7.3
174.0	176.0	198.2	174.0	-82.1	7.9
176.0	178.0	198.4	174.2	-82.0	8.0
178.0	180.0	198.7	174.5	-81.9	8.1
180.0	182.0	198.9	174.7	-81.5	8.5



## Downhole Survey Summary Table

Hole Number: RHTR 2006-12

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
182.0	184.0	199.2	175.0	-81.8	8.2
184.0	186.0	199.4	175.2	-81.8	8.2
186.0	188.0	199.6	175.4	-81.4	8.6
188.0	190.0	199.8	175.6	-81.0	9.0
190.0	192.0	200.0	175.8	-81.2	8.8
192.0	194.0	200.2	176.0	-80.6	9.4
194.0	196.0	200.3	176.1	-81.0	9.0
196.0	198.0	200.4	176.2	-80.3	9.7
198.0	200.0	200.6	176.4	-79.8	10.2
200.0	202.0	200.7	176.5	-80.0	10.0
202.0	204.0	200.8	176.6	-80.4	9.6
204.0	206.0	200.9	176.7	-79.6	10.4
206.0	208.0	201.0	176.8	-79.2	10.8
208.0	210.0	201.1	176.9	-79.7	10.3
210.0	212.0	201.3	177.1	-79.4	10.6
212.0	214.0	201.4	177.2	-80.0	10.0
214.0	216.0	201.5	177.3	-79.6	10.4
216.0	218.0	201.7	177.5	-79.4	10.6
218.0	220.0	201.9	177.7	-79.6	10.4
220.0	222.0	202.0	177.8	-79.3	10.7
222.0	224.0	202.2	178.0	-79.6	10.4
224.0	226.0	202.3	178.1	-79.6	10.4
226.0	228.0	202.4	178.2	-78.8	11.2
228.0	230.0	202.5	178.3	-79.7	10.3
230.0	232.0	202.6	178.4	-79.3	10.7
232.0	234.0	202.7	178.5	-79.2	10.8
234.0	236.0	202.9	178.7	-79.0	11.0
236.0	238.0	203.0	178.8	-78.8	11.2
238.0	240.0	203.1	178.9	-78.0	12.0
240.0	242.0	203.2	179.0	-78.9	11.1
242.0	244.0	203.3	179.1	-77.9	12.1
244.0	246.0	203.4	179.2	-78.3	11.7
246.0	248.0	203.5	179.3	-77.9	12.1
248.0	250.0	203.6	179.4	-77.8	12.2
250.0	252.0	203.7	179.5	-77.7	12.3
252.0	254.0	203.8	179.6	-77.4	12.6
254.0	256.0	203.9	179.7	-77.6	12.4
256.0	258.0	203.9	179.7	-77.5	12.5
258.0	260.0	204.0	179.8	-77.1	12.9
260.0	262.0	204.1	179.9	-77.4	12.6
262.0	264.0	204.2	180.0	-77.4	12.6
264.0	266.0	204.2	180.0	-77.2	12.8

## Downhole Survey Summary Table

Hole Number: RHTR 2006-12

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
266.0	268.0	204.3	180.1	-77.6	12.4
268.0	270.0	204.3	180.1	-77.3	12.7
270.0	272.0	204.4	180.2	-77.8	12.2
272.0	274.0	204.4	180.2	-77.2	12.8
274.0	276.0	204.5	180.3	-77.7	12.3
276.0	278.0	204.5	180.3	-78.5	11.5
278.0	280.0	204.5	180.3	-79.2	10.8
280.0	282.0	204.5	180.3	-78.2	11.8
282.0	284.0	204.5	180.3	-78.5	11.5
284.0	286.0	204.5	180.3	-78.1	11.9
286.0	288.0	204.5	180.3	-79.2	10.8
288.0	290.0	204.5	180.3	-77.9	12.1
290.0	292.0	204.6	180.4	-78.0	12.0
292.0	294.0	204.5	180.3	-79.4	10.6
294.0	295.3	204.5	180.3	-79.1	10.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR 2006-12

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	60.42	62.13	1.71		
D2	64.75	68.90	4.15		
E1	120.98	123.05	2.07		
E1 FW CZ	123.05	123.38	0.33		
E2	124.29	124.94	0.65		
E3	126.70	127.16	0.46		
F BONE	146.81	147.10	0.29		
F	147.10	149.10	2.00		
F PARTING	149.10	149.34	0.24		
F	149.34	149.72	0.38		
CZ	156.25	156.91	0.66		
G	199.28	204.72	5.44		
I	205.24	206.70	1.46		
J	208.24	218.15	9.91		
G	256.45	267.31	10.86		
I	267.72	269.18	1.46		
J	271.12	278.98	7.86		
	278.98	279.37	0.39		
JJ	279.37	290.58	11.21		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-12	0	1	OB	1.00		
RHTR2006-12	1	8.00	SLT	7.00		
RHTR2006-12	8	10.00	SST	2.00		
RHTR2006-12	10	11.00	CLY/CC	1.00		
RHTR2006-12	11	60.42	CGLM	49.42		
RHTR2006-12	60.42	62.13	D1	1.71		
RHTR2006-12	62.13	64.75	SLT	2.62		
RHTR2006-12	64.75	68.90	D2	4.15		
RHTR2006-12	68.9	77.40	CLY	8.50		
RHTR2006-12	77.4	90.70	SLT	13.30		
RHTR2006-12	90.7	117.20	SST	26.50		
RHTR2006-12	117.2	120.98	SLT	3.78		
RHTR2006-12	120.98	123.05	E1	2.07		
RHTR2006-12	123.05	123.38	E1 FW CZ	0.33		
RHTR2006-12	123.38	124.29	SLT	0.91		
RHTR2006-12	124.29	124.94	E2	0.65		
RHTR2006-12	124.94	126.00	SLT	1.06		
RHTR2006-12	126	126.70	CLY	0.70		
RHTR2006-12	126.7	127.16	E3	0.46		
RHTR2006-12	127.16	128.30	SLT	1.14		
RHTR2006-12	128.3	129.90	SST	1.60		
RHTR2006-12	129.9	146.81	SLT	16.91		
RHTR2006-12	146.81	147.10	F BONE	0.29		
RHTR2006-12	147.1	149.10	F	2.00		
RHTR2006-12	149.1	149.34	SLT	0.24		
RHTR2006-12	149.34	149.72	F	0.38		
RHTR2006-12	149.72	151.30	CLY	1.58		
RHTR2006-12	151.3	153.70	SST	2.40		
RHTR2006-12	153.7	156.25	SLT	2.55		
RHTR2006-12	156.25	156.91	CZ	0.66		
RHTR2006-12	156.91	166.25	SLT	9.34		
RHTR2006-12	166.25	167.20	CLY	0.95		
RHTR2006-12	167.2	171.25	SST	4.05		
RHTR2006-12	171.25	173.00	SLT	1.75		
RHTR2006-12	173	176.40	SST	3.40		
RHTR2006-12	176.4	178.15	SLT	1.75		
RHTR2006-12	178.15	184.85	SST	6.70		
RHTR2006-12	184.85	199.00	SLT	14.15		
RHTR2006-12	199	199.28	CLY	0.28		
RHTR2006-12	199.28	204.72	G	5.44		
RHTR2006-12	204.72	205.24	CLY	0.52		
RHTR2006-12	205.24	206.70	I	1.46		
RHTR2006-12	206.7	208.24	CLY	1.54		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-12	208.24	212.70	J	4.46		
RHTR2006-12	212.7	212.71	FAULT	0.01		
RHTR2006-12	212.71	217.20	J	4.49		
RHTR2006-12	217.2	217.21	FAULT	0.01		
RHTR2006-12	217.21	218.15	J	0.94		
RHTR2006-12	218.15	221.75	SLT	3.60		
RHTR2006-12	221.75	224.30	SST	2.55		
RHTR2006-12	224.3	230.50	SLT	6.20		
RHTR2006-12	230.5	235.70	SST	5.20		
RHTR2006-12	235.7	237.00	CLY	1.30		
RHTR2006-12	237	242.40	SST	5.40		
RHTR2006-12	242.4	254.00	SST/SLT	11.60		
RHTR2006-12	254	256.45	SLT	2.45		
RHTR2006-12	256.45	267.31	G	10.86		
RHTR2006-12	267.31	267.72	CLY	0.41		
RHTR2006-12	267.72	269.18	I	1.46		
RHTR2006-12	269.18	271.12	CLY	1.94		
RHTR2006-12	271.12	278.98	J	7.86		
RHTR2006-12	278.98	279.39	CLY	0.41		
RHTR2006-12	279.39	290.58	JJ	11.19		
RHTR2006-12	290.58	294.70	CLY	4.12		
RHTR2006-12	294.70	296.80	SLT	2.10		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-14

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1863.99	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	58.51	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	6.00	<b>Date Drilling Complete</b>	4-Sep-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	9/5/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
630993.44	6082354.86	8694.59	13231.43

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9067, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-14

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	201.8	177.6	-57.7	32.3
8.0	10.0	201.5	177.3	-57.7	32.3
10.0	12.0	201.3	177.1	-57.3	32.7
12.0	14.0	201.2	177.0	-58.5	31.5
14.0	16.0	201.2	177.0	-57.2	32.8
16.0	18.0	201.3	177.1	-57.4	32.6
18.0	20.0	201.3	177.1	-57.3	32.7
20.0	22.0	201.2	177.0	-57.6	32.4
22.0	24.0	201.1	176.9	-58.2	31.8
24.0	26.0	201.0	176.8	-57.8	32.2
26.0	28.0	201.0	176.8	-58.4	31.6
28.0	30.0	201.1	176.9	-58.3	31.7
30.0	32.0	201.2	177.0	-58.3	31.7
32.0	34.0	201.3	177.1	-57.9	32.1
34.0	36.0	201.4	177.2	-57.9	32.1
36.0	38.0	201.6	177.4	-57.9	32.1
38.0	40.0	201.7	177.5	-57.2	32.8
40.0	42.0	202.0	177.8	-57.4	32.6
42.0	44.0	202.1	177.9	-57.7	32.3
44.0	46.0	202.3	178.1	-58.3	31.7
46.0	48.0	202.4	178.2	-57.7	32.3
48.0	50.0	202.5	178.3	-57.6	32.4
50.0	52.0	202.6	178.4	-57.7	32.3
52.0	54.0	202.7	178.5	-57.7	32.3
54.0	56.0	202.8	178.6	-57.1	32.9
56.0	58.5	203.0	178.8	-58.2	31.8
58.5	61.0	203.0	178.8	-58.2	31.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-14

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
BIRD	12.39	16.31	3.92		
GT1	19.02	23.26	4.24		
GT2	24.56	29.03	4.47		
GT3	30.22	30.80	0.58		
BIRD	42.07	46.00	3.93		
GT1	46.00	48.98	2.98		
GT2	50.52	53.43	2.91		
GT3	54.62	55.30	0.68		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-14	0.00	4.00	OB	4.00		
RHTR2006-14	4.00	11.50	CLY/SLT	7.50		
RHTR2006-14	11.50	12.39	SST	0.89		
RHTR2006-14	12.39	16.31	Bird	3.92		
RHTR2006-14	16.31	19.02	CLY	2.71		
RHTR2006-14	19.02	23.26	GT1	4.24		
RHTR2006-14	23.26	24.56	CLY	1.30		
RHTR2006-14	24.56	29.03	GT2	4.47		
RHTR2006-14	29.03	30.22	CLY	1.19		
RHTR2006-14	30.22	30.80	GT3	0.58		
RHTR2006-14	30.80	38.35	CLY	7.55		
RHTR2006-14	38.35	40.00	SLT	1.65		
RHTR2006-14	40.00	42.07	SST	2.07		
RHTR2006-14	42.07	46.00	Bird	3.93		
RHTR2006-14	46.00	48.98	GT1	2.98		
RHTR2006-14	48.98	50.52	CLY	1.54		
RHTR2006-14	50.52	53.43	GT2	2.91		
RHTR2006-14	53.43	54.62	CLY	1.19		
RHTR2006-14	54.62	55.30	GT3	0.68		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-15

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1867.10	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	115.98	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	9.00	<b>Date Drilling Complete</b>	4-Sep-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	9/5/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
630994.90	6082368.13	8707.29	13227.31

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9067, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-15

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	20.0	201.8	177.6	-88.8	1.2
20.0	22.0	198.9	174.7	-88.6	1.4
22.0	24.0	196.0	171.8	-88.9	1.1
24.0	26.0	194.0	169.8	-88.4	1.6
26.0	28.0	191.2	167.0	-88.0	2.0
28.0	30.0	188.7	164.5	-87.7	2.3
30.0	32.0	186.0	161.8	-88.0	2.0
32.0	34.0	182.9	158.7	-88.3	1.7
34.0	36.0	180.5	156.3	-88.6	1.4
36.0	38.0	178.8	154.6	-87.7	2.3
38.0	40.0	176.9	152.7	-87.5	2.5
40.0	42.0	175.3	151.1	-87.2	2.8
42.0	44.0	174.0	149.8	-87.4	2.6
44.0	46.0	172.9	148.7	-87.3	2.7
46.0	48.0	171.7	147.5	-86.3	3.7
48.0	50.0	171.0	146.8	-87.3	2.7
50.0	52.0	170.0	145.8	-87.0	3.0
52.0	54.0	169.2	145.0	-87.3	2.7
54.0	56.0	168.5	144.3	-87.1	2.9
56.0	58.0	167.7	143.5	-86.6	3.4
58.0	60.0	166.9	142.7	-87.4	2.6
60.0	62.0	166.2	142.0	-86.8	3.2
62.0	64.0	165.6	141.4	-86.6	3.4
64.0	66.0	164.8	140.6	-86.4	3.6
66.0	68.0	164.3	140.1	-86.2	3.8
68.0	70.0	163.9	139.7	-86.4	3.6
70.0	72.0	163.5	139.3	-86.7	3.3
72.0	74.0	163.2	139.0	-86.2	3.8
74.0	76.0	162.7	138.5	-86.5	3.5
76.0	78.0	162.5	138.3	-86.5	3.5
78.0	80.0	162.2	138.0	-86.5	3.5
80.0	82.0	161.9	137.7	-86.4	3.6
82.0	84.0	161.6	137.4	-86.1	3.9
84.0	86.0	161.4	137.2	-86.1	3.9
86.0	88.0	161.2	137.0	-86.1	3.9
88.0	90.0	160.9	136.7	-85.7	4.3
90.0	92.0	160.7	136.5	-85.5	4.5
92.0	94.0	160.5	136.3	-85.3	4.7
94.0	96.0	160.5	136.3	-85.4	4.6
96.0	98.0	160.4	136.2	-85.0	5.0
98.0	100.0	160.3	136.1	-85.2	4.8
100.0	102.0	160.3	136.1	-85.0	5.0

## Downhole Survey Summary Table

Hole Number: RHTR 2006-15

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
102.0	104.0	160.4	136.2	-84.7	5.3
104.0	106.0	160.5	136.3	-84.8	5.2
106.0	108.0	160.7	136.5	-85.0	5.0
108.0	110.0	161.0	136.8	-85.2	4.8
110.0	112.0	161.2	137.0	-85.1	4.9
112.0	114.0	161.3	137.1	-85.8	4.2
114.0	116.0	161.3	137.1	-85.6	4.4

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-15

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
BIRD	35.02	39.88	4.86		
CZ	40.72	41.03	0.31		
GT1	42.27	49.71	7.44		
GT2	51.22	54.98	3.76		
GT3	55.75	56.96	1.21		
CZ	57.49	57.72	0.23		
CZ	58.42	58.71	0.29		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-15	0.00	7.50	OB	7.50		
RHTR2006-15	7.50	33.00	CLY	25.50		
RHTR2006-15	33.00	35.02	SST	2.02		
RHTR2006-15	35.02	39.88	Bird	4.86		
RHTR2006-15	39.88	40.72	CLY	0.84		
RHTR2006-15	40.72	41.03	CZ	0.31		
RHTR2006-15	41.03	42.27	CLY	1.24		
RHTR2006-15	42.27	45.80	GT1	3.53		
RHTR2006-15	45.80	45.81	FAULT	0.01		
RHTR2006-15	45.81	49.71	GT1	3.90		
RHTR2006-15	49.71	51.22	CLY	1.51		
RHTR2006-15	51.22	54.98	GT2	3.76		
RHTR2006-15	54.98	55.75	CLY	0.77		
RHTR2006-15	55.75	56.96	GT3	1.21		
RHTR2006-15	56.96	57.49	SLT	0.53		
RHTR2006-15	57.49	57.72	CZ	0.23		
RHTR2006-15	57.72	58.42	SLT	0.70		
RHTR2006-15	58.42	58.71	CZ	0.29		
RHTR2006-15	58.71	60.40	SLT	1.69		
RHTR2006-15	60.40	64.15	CLY	3.75		
RHTR2006-15	64.15	66.00	SLT	1.85		
RHTR2006-15	66.00	75.55	SST/SLT	9.55		
RHTR2006-15	75.55	99.15	SST	23.60		
RHTR2006-15	99.15	102.50	SLT/SST	3.35		
RHTR2006-15	102.50	105.00	SST	2.50		
RHTR2006-15	105.00	107.00	SLT	2.00		
RHTR2006-15	107.00	108.30	SST	1.30		
RHTR2006-15	108.30	113.40	SLT	5.10		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-16

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1778.94	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	276.57	<b>Hole Angle (°)</b>	85
<b>Length of Casing (m)</b>	4.00	<b>Date Drilling Complete</b>	6-Sep-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	9-Sep-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
630344.78	6083356.07	9341.63	12229.17

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9067, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century Geophysics

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-16

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	45.2	21.0	-83.6	6.4
10.0	12.0	44.7	20.5	-84.4	5.6
12.0	14.0	44.4	20.2	-84.8	5.2
14.0	16.0	44.4	20.2	-84.5	5.5
16.0	18.0	44.5	20.3	-86.9	3.1
18.0	20.0	44.4	20.2	-85.1	4.9
20.0	22.0	44.6	20.4	-85.4	4.6
22.0	24.0	44.8	20.6	-84.6	5.4
24.0	26.0	45.0	20.8	-83.4	6.6
26.0	28.0	45.2	21.0	-84.3	5.7
28.0	30.0	45.5	21.3	-84.4	5.6
30.0	32.0	45.6	21.4	-85.0	5.0
32.0	34.0	45.8	21.6	-84.4	5.6
34.0	36.0	45.9	21.7	-84.5	5.5
36.0	38.0	46.0	21.8	-84.3	5.7
38.0	40.0	46.1	21.9	-84.2	5.8
40.0	42.0	46.2	22.0	-83.9	6.1
42.0	44.0	46.4	22.2	-84.1	5.9
44.0	46.0	46.5	22.3	-84.5	5.5
46.0	48.0	46.7	22.5	-84.2	5.8
48.0	50.0	46.8	22.6	-83.5	6.5
50.0	52.0	47.0	22.8	-84.1	5.9
52.0	54.0	47.2	23.0	-83.3	6.7
54.0	56.0	47.3	23.1	-83.4	6.6
56.0	58.0	47.5	23.3	-83.2	6.8
58.0	60.0	47.6	23.4	-83.7	6.3
60.0	62.0	47.8	23.6	-83.2	6.8
62.0	64.0	48.0	23.8	-82.8	7.2
64.0	66.0	48.2	24.0	-83.2	6.8
66.0	68.0	48.4	24.2	-83.1	6.9
68.0	70.0	48.6	24.4	-83.2	6.8
70.0	72.0	48.8	24.6	-83.1	6.9
72.0	74.0	49.1	24.9	-82.7	7.3
74.0	76.0	49.3	25.1	-82.3	7.7
76.0	78.0	49.6	25.4	-83.2	6.8
78.0	80.0	49.9	25.7	-82.5	7.5
80.0	82.0	50.2	26.0	-82.4	7.6
82.0	84.0	50.4	26.2	-83.5	6.5
84.0	86.0	50.7	26.5	-82.5	7.5
86.0	88.0	50.9	26.7	-83.1	6.9
88.0	90.0	51.1	26.9	-82.8	7.2
90.0	92.0	51.3	27.1	-82.3	7.7



## Downhole Survey Summary Table

Hole Number: RHTR 2006-16

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
92.0	94.0	51.5	27.3	-82.1	7.9
94.0	96.0	51.6	27.4	-82.0	8.0
96.0	98.0	51.8	27.6	-82.2	7.8
98.0	100.0	51.9	27.7	-81.9	8.1
100.0	102.0	52.0	27.8	-83.0	7.0
102.0	104.0	52.0	27.8	-81.7	8.3
104.0	106.0	52.1	27.9	-82.1	7.9
106.0	108.0	52.1	27.9	-82.4	7.6
108.0	110.0	52.1	27.9	-82.8	7.2
110.0	112.0	52.1	27.9	-82.4	7.6
112.0	114.0	52.1	27.9	-82.1	7.9
114.0	116.0	52.0	27.8	-81.7	8.3
116.0	118.0	52.0	27.8	-81.8	8.2
118.0	120.0	52.0	27.8	-82.7	7.3
120.0	122.0	52.0	27.8	-82.0	8.0
122.0	124.0	51.9	27.7	-83.0	7.0
124.0	126.0	51.9	27.7	-82.0	8.0
126.0	128.0	51.9	27.7	-82.1	7.9
128.0	130.0	51.9	27.7	-80.7	9.3
130.0	132.0	51.8	27.6	-80.9	9.1
132.0	134.0	51.8	27.6	-79.7	10.3
134.0	136.0	51.8	27.6	-80.7	9.3
136.0	138.0	51.7	27.5	-80.6	9.4
138.0	140.0	51.6	27.4	-80.6	9.4
140.0	142.0	51.6	27.4	-80.1	9.9
142.0	144.0	51.5	27.3	-79.9	10.1
144.0	146.0	51.4	27.2	-79.9	10.1
146.0	148.0	51.4	27.2	-79.8	10.2
148.0	150.0	51.3	27.1	-79.6	10.4
150.0	152.0	51.2	27.0	-79.1	10.9
152.0	154.0	51.1	26.9	-79.2	10.8
154.0	156.0	51.0	26.8	-79.2	10.8
156.0	158.0	50.8	26.6	-79.0	11.0
158.0	160.0	50.7	26.5	-79.2	10.8
160.0	162.0	50.6	26.4	-78.8	11.2
162.0	164.0	50.5	26.3	-78.8	11.2
164.0	166.0	50.4	26.2	-79.2	10.8
166.0	168.0	50.3	26.1	-78.9	11.1
168.0	170.0	50.2	26.0	-79.0	11.0
170.0	172.0	50.2	26.0	-78.6	11.4
172.0	174.0	50.1	25.9	-78.4	11.6
174.0	176.0	50.0	25.8	-78.5	11.5

## Downhole Survey Summary Table

Hole Number: RHTR 2006-16

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
176.0	178.0	49.9	25.7	-78.2	11.8
178.0	180.0	49.8	25.6	-77.8	12.2
180.0	182.0	49.7	25.5	-77.7	12.3
182.0	184.0	49.6	25.4	-77.3	12.7
184.0	186.0	49.5	25.3	-77.3	12.7
186.0	188.0	49.4	25.2	-76.3	13.7
188.0	190.0	49.3	25.1	-77.5	12.5
190.0	192.0	49.3	25.1	-75.5	14.5
192.0	194.0	49.2	25.0	-75.4	14.6
194.0	196.0	49.2	25.0	-75.3	14.7
196.0	198.0	49.1	24.9	-75.1	14.9
198.0	200.0	49.0	24.8	-75.0	15.0
200.0	202.0	49.0	24.8	-74.8	15.2
202.0	204.0	48.9	24.7	-74.4	15.6
204.0	206.0	48.9	24.7	-74.4	15.6
206.0	208.0	48.9	24.7	-74.2	15.8
208.0	210.0	48.9	24.7	-73.6	16.4
210.0	212.0	48.8	24.6	-73.3	16.7
212.0	214.0	48.8	24.6	-73.6	16.4
214.0	216.0	48.8	24.6	-72.9	17.1
216.0	218.0	48.8	24.6	-73.0	17.0
218.0	220.0	48.8	24.6	-72.8	17.2
220.0	222.0	48.8	24.6	-73.4	16.6
222.0	224.0	48.8	24.6	-72.5	17.5
224.0	226.0	48.8	24.6	-72.3	17.7
226.0	228.0	48.8	24.6	-72.4	17.6
228.0	230.0	48.9	24.7	-72.9	17.1
230.0	232.0	48.9	24.7	-71.4	18.6
232.0	234.0	48.9	24.7	-71.6	18.4
234.0	236.0	49.0	24.8	-71.1	18.9
236.0	238.0	49.0	24.8	-70.7	19.3
238.0	240.0	49.1	24.9	-70.5	19.5
240.0	242.0	49.1	24.9	-69.3	20.7
242.0	244.0	49.2	25.0	-69.4	20.6
244.0	246.0	49.3	25.1	-69.9	20.1
246.0	248.0	49.3	25.1	-69.1	20.9
248.0	250.0	49.4	25.2	-69.3	20.7
250.0	252.0	49.5	25.3	-68.7	21.3
252.0	254.0	49.5	25.3	-68.8	21.2
254.0	256.0	49.6	25.4	-69.0	21.0
256.0	258.0	49.7	25.5	-68.4	21.6
258.0	260.0	49.7	25.5	-68.6	21.4

## Downhole Survey Summary Table

Hole Number: RHTR 2006-16

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
260.0	262.0	49.8	25.6	-68.4	21.6
262.0	264.0	49.8	25.6	-67.7	22.3
264.0	266.0	49.9	25.7	-68.3	21.7
266.0	268.0	50.0	25.8	-68.4	21.6
268.0	270.0	50.0	25.8	-67.5	22.5
270.0	272.0	50.1	25.9	-67.6	22.4
272.0	274.0	50.2	26.0	-65.7	24.3
274.0	276.7	50.3	26.1	-68.1	21.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR 2006-16

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
Bird	35.02	39.88	4.86		
CZ	40.72	41.03	0.31		
GT1	42.27	45.80	3.53		
FAULT	45.80	45.81	0.01		
GT1	45.81	49.71	3.90		
GT2	51.22	54.98	3.76		
GT3	55.75	56.96	1.21		
CZ	57.49	57.72	0.23		
CZ	58.42	58.71	0.29		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-16	0.00	1.00	OB	1.00		
RHTR2006-16	1.00	3.96	CGLM	2.96		
RHTR2006-16	3.96	5.07	D1	1.11		
RHTR2006-16	5.07	5.97	SLT	0.90		
RHTR2006-16	5.97	6.33	CZ	0.36		
RHTR2006-16	6.33	8.57	SLT	2.24		
RHTR2006-16	8.57	23.57	D2	15.00		
RHTR2006-16	23.57	25.60	CC	2.03		
RHTR2006-16	25.60	33.39	SLT	7.79		
RHTR2006-16	33.39	33.59	CZ	0.20		
RHTR2006-16	33.59	41.40	SLT	7.81		
RHTR2006-16	41.40	46.00	SLT/CC	4.60		
RHTR2006-16	46.00	53.25	CLY	7.25		
RHTR2006-16	53.25	65.40	SLT	12.15		
RHTR2006-16	65.40	68.20	SST	2.80		
RHTR2006-16	68.20	70.00	SLT/SST	1.80		
RHTR2006-16	70.00	98.70	SST	28.70		
RHTR2006-16	98.70	104.30	SLT/SST	5.60		
RHTR2006-16	104.30	110.20	SLT	5.90		
RHTR2006-16	110.20	112.80	E1	2.60		
RHTR2006-16	112.80	113.19	SLT	0.39		
RHTR2006-16	113.19	115.40	E1	2.21		
RHTR2006-16	115.40	115.94	CLY	0.54		
RHTR2006-16	115.94	117.27	E1	1.33		
RHTR2006-16	117.27	120.80	SLT/CLY	3.53		
RHTR2006-16	120.80	122.91	E2	2.11		
RHTR2006-16	122.91	123.60	SLT	0.69		
RHTR2006-16	123.60	125.69	E2	2.09		
RHTR2006-16	125.69	127.80	SST	2.11		
RHTR2006-16	127.80	130.00	SLT	2.20		
RHTR2006-16	130.00	130.40	E3	0.40		
RHTR2006-16	130.40	131.08	SLT	0.68		
RHTR2006-16	131.08	131.47	CZ	0.39		
RHTR2006-16	131.47	134.00	SLT	2.53		
RHTR2006-16	134.00	154.35	SLT/SST	20.35		
RHTR2006-16	154.35	166.85	SLT	12.50		
RHTR2006-16	166.85	167.10	F BONE	0.25		
RHTR2006-16	167.10	169.33	F	2.23		
RHTR2006-16	169.33	170.30	SLT	0.97		
RHTR2006-16	170.30	171.00	CC	0.70		
RHTR2006-16	171.00	173.00	SLT	2.00		
RHTR2006-16	173.00	175.50	SST	2.50		
RHTR2006-16	175.50	179.60	SLT	4.10		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-16	179.60	180.03	CZ	0.43		
RHTR2006-16	180.03	182.90	SST	2.87		
RHTR2006-16	182.90	188.10	SLT	5.20		
RHTR2006-16	188.10	188.40	CC	0.30		
RHTR2006-16	188.40	190.30	SST	1.90		
RHTR2006-16	190.30	203.00	SLT/CLY	12.70		
RHTR2006-16	203.00	211.00	SLT	8.00		
RHTR2006-16	211.00	224.80	SLT/SST	13.80		
RHTR2006-16	224.80	228.80	SLT	4.00		
RHTR2006-16	228.80	230.08	CLY	1.28		
RHTR2006-16	230.08	234.75	G	4.67		
RHTR2006-16	234.75	235.40	CLY	0.65		
RHTR2006-16	235.40	236.88	I	1.48		
RHTR2006-16	236.88	240.85	CLY	3.97		
RHTR2006-16	240.85	245.10	J	4.25		
RHTR2006-16	245.10	249.10	SLT/CLY	4.00		
RHTR2006-16	249.10	260.96	SLT/SST	11.86		
RHTR2006-16	260.96	262.05	K1	1.09		
RHTR2006-16	262.05	262.93	CLY	0.88		
RHTR2006-16	262.93	264.00	K2	1.07		
RHTR2006-16	264.00	267.62	CLY/SLT	3.62		
RHTR2006-16	267.62	267.80	CZ	0.18		
RHTR2006-16	267.80	268.10	CLY	0.30		
RHTR2006-16	268.10	268.44	K3	0.34		
RHTR2006-16	268.44	269.00	CLY	0.56		
RHTR2006-16	269.00	274.00	SLT	5.00		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-17

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1904.32	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	75.10	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	3	<b>Date Drilling Complete</b>	5-Sep-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	9/8/2006
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
630726.64	6082901.13	9083.35	12764.03

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>		9067,9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: GT  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-17

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	8.0	213.6	189.4	-68.1	21.9
8.0	10.0	213.6	189.4	-68.1	21.9
10.0	12.0	214.1	189.9	-68.2	21.8
12.0	14.0	214.2	190.0	-67.6	22.4
14.0	16.0	214.5	190.3	-67.5	22.5
16.0	18.0	214.5	190.3	-67.2	22.8
18.0	20.0	214.7	190.5	-67.2	22.8
20.0	22.0	214.8	190.6	-65.1	24.9
22.0	24.0	214.8	190.6	-66.1	23.9
24.0	26.0	215.0	190.8	-65.6	24.4
26.0	28.0	215.1	190.9	-65.4	24.6
28.0	30.0	215.2	191.0	-65.4	24.6
30.0	32.0	215.3	191.1	-64.1	25.9
32.0	34.0	215.4	191.2	-62.6	27.4
34.0	36.0	215.4	191.2	-64.1	25.9
36.0	38.0	215.5	191.3	-64.2	25.8
38.0	40.0	215.5	191.3	-62.7	27.3
40.0	42.0	215.5	191.3	-62.4	27.6
42.0	44.0	215.6	191.4	-62.3	27.7
44.0	46.0	215.6	191.4	-61.7	28.3
46.0	48.0	215.6	191.4	-61.4	28.6
48.0	50.0	215.6	191.4	-61.6	28.4
50.0	52.0	215.6	191.4	-61.0	29.0
52.0	54.0	215.6	191.4	-61.3	28.7
54.0	56.0	215.7	191.5	-60.4	29.6
56.0	58.0	215.7	191.5	-59.3	30.7
58.0	60.0	215.7	191.5	-59.4	30.6
60.0	62.0	215.7	191.5	-58.9	31.1
62.0	64.0	215.7	191.5	-59.6	30.4
64.0	66.0	215.7	191.5	-59.4	30.6
66.0	68.0	215.8	191.6	-58.8	31.2
68.0	70.0	215.8	191.6	-58.7	31.3
70.0	72.0	215.8	191.6	-59.1	30.9
72.0	74.0	215.8	191.6	-59.0	26.5
74.0	75.4	215.8	191.6	-58.0	32.0



## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR 2006-17

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	23.09	26.73	3.64		
I	27.22	28.13	0.91		
J	30.55	37.38	6.83		
K1	48.65	49.86	1.21		
K2	50.87	51.98	1.11		
K3	56.90	57.38	0.48		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-17	0.00	2.00	OB	2.00		
RHTR2006-17	2.00	21.00	SLT	19.00		
RHTR2006-17	21.00	23.09	CLY	2.09		
RHTR2006-17	23.09	26.73	G	3.64		
RHTR2006-17	26.73	27.22	CLY	0.49		
RHTR2006-17	27.22	28.13	I	0.91		
RHTR2006-17	28.13	30.55	CLY	2.42		
RHTR2006-17	30.55	37.38	J	6.83		
RHTR2006-17	37.38	44.45	CLY	7.07		
RHTR2006-17	44.45	48.65	SLT	4.20		
RHTR2006-17	48.65	49.86	K1	1.21		
RHTR2006-17	49.86	50.87	CLY	1.01		
RHTR2006-17	50.87	51.98	K2	1.11		
RHTR2006-17	51.98	56.90	SLT/CLY	4.92		
RHTR2006-17	56.90	57.38	K3	0.48		
RHTR2006-17	57.38	58.25	CLY	0.87		
RHTR2006-17	58.25	59.40	SST	1.15		
RHTR2006-17	59.40	60.70	CLY	1.30		
RHTR2006-17	60.70	63.70	SST	3.00		
RHTR2006-17	63.70	72.00	SLT	8.30		

## Drill Hole Summary Sheet

**Hole Number:**                    **RHTR 2006-18**

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1697.89	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	216.97	<b>Hole Angle (°)</b>	85
<b>Length of Casing (m)</b>	1.00	<b>Date Drilling Complete</b>	26-Sep-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	28-Sep-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083563.99	630047.23	9409.20	11872.52

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>	9067, 9068, 9239, 9411

**Comments:**    9056 deviation unserviceable

Drilling Contractor:                    Carbon Mountain  
 Geophysical Contractor:                Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-18

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	218.3	194.1	-84.5	5.5
10.0	12.0	217.4	193.2	-84.1	5.9
12.0	14.0	216.4	192.2	-84.1	5.9
14.0	16.0	215.8	191.6	-84.7	5.3
16.0	18.0	215.4	191.2	-83.2	6.8
18.0	20.0	215.2	191.0	-83.4	6.6
20.0	22.0	215.1	190.9	-83.0	7.0
22.0	24.0	215.0	190.8	-83.0	7.0
24.0	26.0	214.7	190.5	-81.4	8.6
26.0	28.0	214.4	190.2	-82.6	7.4
28.0	30.0	213.9	189.7	-82.1	7.9
30.0	32.0	213.2	189.0	-82.3	7.7
32.0	34.0	212.7	188.5	-83.6	6.4
34.0	36.0	212.2	188.0	-83.1	6.9
36.0	38.0	211.8	187.6	-83.0	7.0
38.0	40.0	211.4	187.2	-83.2	6.8
40.0	42.0	211.1	186.9	-82.8	7.2
42.0	44.0	210.7	186.5	-83.1	6.9
44.0	46.0	210.3	186.1	-80.6	9.4
46.0	48.0	209.9	185.7	-82.2	7.8
48.0	50.0	209.5	185.3	-79.3	10.7
50.0	52.0	209.1	184.9	-80.7	9.3
52.0	54.0	208.8	184.6	-81.1	8.9
54.0	56.0	208.6	184.4	-81.2	8.8
56.0	58.0	208.4	184.2	-81.9	8.1
58.0	60.0	208.3	184.1	-81.2	8.8
60.0	62.0	208.1	183.9	-81.3	8.7
62.0	64.0	208.0	183.8	-81.0	9.0
64.0	66.0	207.8	183.6	-81.1	8.9
66.0	68.0	207.6	183.4	-80.8	9.2
68.0	70.0	207.3	183.1	-81.7	8.3
70.0	72.0	207.0	182.8	-82.1	7.9
72.0	74.0	206.8	182.6	-81.8	8.2
74.0	76.0	206.4	182.2	-81.3	8.7
76.0	78.0	206.1	181.9	-82.0	8.0
78.0	80.0	205.8	181.6	-82.2	7.8
80.0	82.0	205.4	181.2	-82.3	7.7
82.0	84.0	205.0	180.8	-81.5	8.5
84.0	86.0	204.6	180.4	-82.5	7.5
86.0	88.0	204.3	180.1	-84.0	6.0
88.0	90.0	204.0	179.8	-81.1	8.9
90.0	92.0	203.6	179.4	-81.5	8.5

## Downhole Survey Summary Table

Hole Number: RHTR 2006-18

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
92.0	94.0	203.3	179.1	-81.8	8.2
94.0	96.0	203.0	178.8	-78.8	11.2
96.0	98.0	202.8	178.6	-81.5	8.5
98.0	100.0	202.5	178.3	-80.7	9.3
100.0	102.0	202.3	178.1	-81.6	8.4
102.0	104.0	202.1	177.9	-81.7	8.3
104.0	106.0	202.0	177.8	-81.8	8.2
106.0	108.0	201.9	177.7	-79.7	10.3
108.0	110.0	201.8	177.6	-79.9	10.1
110.0	112.0	201.8	177.6	-81.2	8.8
112.0	114.0	201.7	177.5	-81.7	8.3
114.0	116.0	201.8	177.6	-80.9	9.1
116.0	118.0	201.8	177.6	-79.2	10.8
118.0	120.0	201.8	177.6	-78.6	11.4
120.0	122.0	201.9	177.7	-80.2	9.8
122.0	124.0	202.0	177.8	-78.4	11.6
124.0	126.0	202.1	177.9	-79.2	10.8
126.0	128.0	202.2	178.0	-79.3	10.7
128.0	130.0	202.3	178.1	-78.9	11.1
130.0	132.0	202.4	178.2	-79.1	10.9
132.0	134.0	202.5	178.3	-79.2	10.8
134.0	136.0	202.7	178.5	-78.5	11.5
136.0	138.0	202.8	178.6	-78.5	11.5
138.0	140.0	202.9	178.7	-78.0	12.0
140.0	142.0	203.1	178.9	-78.5	11.5
142.0	144.0	203.2	179.0	-77.6	12.4
144.0	146.0	203.3	179.1	-77.3	12.7
146.0	148.0	203.5	179.3	-77.1	12.9
148.0	150.0	203.7	179.5	-76.7	13.3
150.0	152.0	203.8	179.6	-77.2	12.8
152.0	154.0	203.9	179.7	-77.5	12.5
154.0	156.0	204.1	179.9	-76.9	13.1
156.0	158.0	204.2	180.0	-77.3	12.7
158.0	160.0	204.4	180.2	-77.0	13.0
160.0	162.0	204.5	180.3	-76.5	13.5
162.0	164.0	204.7	180.5	-75.5	14.5
164.0	166.0	204.8	180.6	-77.5	12.5
166.0	168.0	205.0	180.8	-74.9	15.1
168.0	170.0	205.1	180.9	-75.5	14.5
170.0	172.0	205.3	181.1	-74.9	15.1
172.0	174.0	205.4	181.2	-75.6	14.4
174.0	176.0	205.5	181.3	-76.9	13.1

## Downhole Survey Summary Table

Hole Number: RHTR 2006-18

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
176.0	178.0	205.6	181.4	-75.1	14.9
178.0	180.0	205.7	181.5	-73.9	16.1
180.0	182.0	205.9	181.7	-74.6	15.4
182.0	184.0	206.0	181.8	-74.2	15.8
184.0	186.0	206.1	181.9	-73.8	16.2
186.0	188.0	206.2	182.0	-76.4	13.6
188.0	190.0	206.3	182.1	-73.3	16.7
190.0	192.0	206.4	182.2	-75.1	14.9
192.0	194.0	206.5	182.3	-72.5	17.5
194.0	196.0	206.6	182.4	-73.1	16.9
196.0	198.0	206.7	182.5	-74.2	15.8
198.0	200.0	206.8	182.6	-72.2	17.8
200.0	202.0	206.9	182.7	-73.4	16.6
202.0	204.0	207.0	182.8	-72.8	17.2
204.0	206.0	207.0	182.8	-73.4	16.6
206.0	208.0	207.1	182.9	-73.2	16.8
208.0	210.0	207.1	182.9	-72.9	17.1
210.0	212.0	207.2	183.0	-72.5	17.5
212.0	214.0	207.2	183.0	-73.1	16.9
214.0	217.0	207.3	183.1	-73.2	16.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-18

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	3.27	4.84	1.57		
CZ	6.06	6.35	0.29		
CZ	7.85	8.25	0.40		
D2	10.75	11.86	1.11		
FAULT	11.86	11.87	0.01		
D2	16.40	17.00	0.60		
D2	17.16	21.31	4.15		
D3	28.67	29.67	1.00		
CZ	42.85	43.08	0.23		
E1	48.99	51.44	2.45		
E1 Parting	51.44	51.60	0.16		
E1	51.60	52.14	0.54		
E2	52.87	54.63	1.76		
E3	57.37	57.74	0.37		
E3	58.30	58.76	0.46		
F BONE	96.05	96.65	0.60		
F	96.65	99.93	3.28		
CZ	108.30	108.50	0.20		
CZ	166.95	167.35	0.40		
G	168.20	176.50	8.30		
Fault	176.50	176.60	0.10		
G	176.60	179.80	3.20		
J	183.24	188.90	5.66		
Fault	188.90	188.91	0.01		
J	188.91	192.00	3.09		
Fault	192.00	192.01	0.01		
J	192.01	197.99	5.98		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-18	0	0.60	OB	0.60		
RHTR2006-18	0.6	3.27	CGLM	2.67		
RHTR2006-18	3.27	4.84	D1	1.57		
RHTR2006-18	4.84	6.06	CLY/SLT	1.22		
RHTR2006-18	6.06	6.35	CZ	0.29		
RHTR2006-18	6.35	7.85	CLY	1.50		
RHTR2006-18	7.85	8.25	CZ	0.40		
RHTR2006-18	8.25	10.75	SLT	2.50		
RHTR2006-18	10.75	11.86	D2	1.11		
RHTR2006-18	11.86	12.00	Fault	0.14		
RHTR2006-18	12	16.40	SLT	4.40		
RHTR2006-18	16.4	17.00	D2	0.60		
RHTR2006-18	17	17.16	CLY	0.16		
RHTR2006-18	17.16	21.31	D2	4.15		
RHTR2006-18	21.31	28.67	CLY/CC	7.36		
RHTR2006-18	28.67	29.67	D3	1.00		
RHTR2006-18	29.67	31.00	CLY	1.33		
RHTR2006-18	31	32.60	SST	1.60		
RHTR2006-18	32.6	36.00	SLT	3.40		
RHTR2006-18	36	42.85	SST	6.85		
RHTR2006-18	42.85	43.08	CZ	0.23		
RHTR2006-18	43.08	44.20	SST	1.12		
RHTR2006-18	44.2	47.40	SLT	3.20		
RHTR2006-18	47.4	48.99	CLY	1.59		
RHTR2006-18	48.99	51.44	E1	2.45		
RHTR2006-18	51.44	51.60	CLY	0.16		
RHTR2006-18	51.6	52.14	E1	0.54		
RHTR2006-18	52.14	52.87	CLY	0.73		
RHTR2006-18	52.87	54.63	E2	1.76		
RHTR2006-18	54.63	57.37	SLT/CLY	2.74		
RHTR2006-18	57.37	57.74	E3	0.37		
RHTR2006-18	57.74	58.30	CLY	0.56		
RHTR2006-18	58.3	58.76	E3	0.46		
RHTR2006-18	58.76	61.20	SLT	2.44		
RHTR2006-18	61.2	62.30	CLY	1.10		
RHTR2006-18	62.3	65.40	SLT	3.10		
RHTR2006-18	65.4	67.40	CLY	2.00		
RHTR2006-18	67.4	69.00	SST	1.60		
RHTR2006-18	69	84.00	SLT	15.00		
RHTR2006-18	84	85.90	CLY	1.90		
RHTR2006-18	85.9	96.05	SLT	10.15		
RHTR2006-18	96.05	96.65	F BONE	0.60		
RHTR2006-18	96.65	99.93	F	3.28		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-18	99.93	102.80	SLT	2.87		
RHTR2006-18	102.80	103.50	CC	0.70		
RHTR2006-18	103.50	107.00	SLT	3.50		
RHTR2006-18	107.00	108.30	CLY	1.30		
RHTR2006-18	108.3	108.50	CZ	0.20		
RHTR2006-18	108.5	110.90	CLY/CC	2.40		
RHTR2006-18	110.9	119.00	SLT/CLY	8.10		
RHTR2006-18	119	151.40	SST	32.40		
RHTR2006-18	151.4	163.00	SLT	11.60		
RHTR2006-18	163	166.95	CLY	3.95		
RHTR2006-18	166.95	167.35	CZ	0.40		
RHTR2006-18	167.35	168.20	CLY	0.85		
RHTR2006-18	168.2	176.50	G	8.30		
RHTR2006-18	176.50	176.60	Fault	0.10		
RHTR2006-18	176.60	179.80	G	3.20		
RHTR2006-18	179.8	183.24	CLY	3.44		
RHTR2006-18	183.24	188.90	J	5.66		
RHTR2006-18	188.90	188.91	Fault	0.01		
RHTR2006-18	188.91	192.00	J	3.09		
RHTR2006-18	192.00	192.01	Fault	0.01		
RHTR2006-18	192.01	197.99	J	5.98		
RHTR2006-18	197.99	205.70	CLY	7.71		
RHTR2006-18	205.7	216.97	SLT/CLY	11.27		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-19

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1653.73	<b>Collar Bearing (°)</b>	90
<b>Total Depth (m)</b>	170.03	<b>Hole Angle (°)</b>	Vertical
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	9-Oct-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	30-Sep-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083659.75	629822.51	9404.36	11628.29

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9067, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-19

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	12.0	357.2	333.0	-88.9	1.1
12.0	14.0	353.0	328.8	-88.6	1.4
14.0	16.0	348.5	324.3	-88.8	1.2
16.0	18.0	344.3	320.1	-87.4	2.6
18.0	20.0	341.0	316.8	-88.1	1.9
20.0	22.0	339.0	314.8	-88.3	1.7
22.0	24.0	337.5	313.3	-88.3	1.7
24.0	26.0	336.3	312.1	-88.8	1.2
26.0	28.0	335.2	311.0	-89.2	0.8
28.0	30.0	333.6	309.4	-88.5	1.5
30.0	32.0	331.8	307.6	-88.6	1.4
32.0	34.0	329.7	305.5	-88.8	1.2
34.0	36.0	327.2	303.0	-88.9	1.1
36.0	38.0	324.2	300.0	-88.9	1.1
38.0	40.0	321.0	296.8	-88.3	1.7
40.0	42.0	317.7	293.5	-89.0	1.0
42.0	44.0	314.1	289.9	-88.2	1.8
44.0	46.0	310.3	286.1	-88.0	2.0
46.0	48.0	305.8	281.6	-87.7	2.3
48.0	50.0	300.8	276.6	-87.5	2.5
50.0	52.0	295.1	270.9	-86.6	3.4
52.0	54.0	289.5	265.3	-86.4	3.6
54.0	56.0	284.0	259.8	-86.9	3.1
56.0	58.0	278.2	254.0	-86.5	3.5
58.0	60.0	272.5	248.3	-86.0	4.0
60.0	62.0	267.1	242.9	-86.3	3.7
62.0	64.0	262.3	238.1	-84.8	5.2
64.0	66.0	258.0	233.8	-84.6	5.4
66.0	68.0	254.3	230.1	-83.9	6.1
68.0	70.0	251.2	227.0	-83.9	6.1
70.0	72.0	248.6	224.4	-83.7	6.3
72.0	74.0	246.3	222.1	-82.7	7.3
74.0	76.0	244.3	220.1	-82.8	7.2
76.0	78.0	242.6	218.4	-81.4	8.6
78.0	80.0	241.1	216.9	-81.4	8.6
80.0	82.0	239.8	215.6	-81.2	8.8
82.0	84.0	238.7	214.5	-81.3	8.7
84.0	86.0	237.7	213.5	-80.7	9.3
86.0	88.0	236.8	212.6	-80.3	9.7
88.0	90.0	236.1	211.9	-79.7	10.3
90.0	92.0	235.4	211.2	-79.9	10.1
92.0	94.0	234.8	210.6	-81.5	8.5

## Downhole Survey Summary Table

Hole Number: RHTR 2006-19

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
94.0	96.0	234.1	209.9	-79.4	10.6
96.0	98.0	233.4	209.2	-78.9	11.1
98.0	100.0	232.9	208.7	-79.2	10.8
100.0	101.0	232.5	208.3	-77.3	12.7
101.0	102.0	232.2	208.0	-78.1	11.9
102.0	103.0	231.9	207.7	-77.7	12.3
103.0	104.0	231.6	207.4	-78.9	11.1
104.0	105.0	231.3	207.1	-79.1	10.9
105.0	106.0	230.9	206.7	-77.5	12.5
106.0	107.0	230.6	206.4	-78.6	11.4
107.0	108.0	230.3	206.1	-77.3	12.7
108.0	109.0	230.1	205.9	-76.6	13.4
109.0	110.0	229.8	205.6	-77.3	12.7
110.0	112.0	229.2	205.0	-77.6	12.4
112.0	114.0	228.7	204.5	-77.1	12.9
114.0	116.0	228.3	204.1	-76.9	13.1
116.0	118.0	227.9	203.7	-77.2	12.8
118.0	120.0	227.5	203.3	-77.0	13.0
120.0	122.0	227.1	202.9	-75.7	14.3
122.0	124.0	226.8	202.6	-74.1	15.9
124.0	126.0	226.4	202.2	-76.1	13.9
126.0	128.0	226.1	201.9	-76.7	13.3
128.0	130.0	225.8	201.6	-76.6	13.4
130.0	132.0	225.5	201.3	-74.7	15.3
132.0	134.0	225.2	201.0	-74.3	15.7
134.0	136.0	224.9	200.7	-74.8	15.2
136.0	138.0	224.7	200.5	-74.2	15.8
138.0	140.0	224.4	200.2	-74.1	15.9
140.0	142.0	224.2	200.0	-74.2	15.8
142.0	144.0	224.0	199.8	-74.2	15.8
144.0	146.0	223.8	199.6	-74.4	15.6
146.0	148.0	223.7	199.5	-74.5	15.5
148.0	150.0	223.5	199.3	-73.4	16.6
150.0	152.0	223.3	199.1	-73.9	16.1
152.0	154.0	223.1	198.9	-73.1	16.9
154.0	156.0	223.0	198.8	-73.2	16.8
156.0	158.0	222.8	198.6	-73.3	16.7
158.0	160.0	222.6	198.4	-73.0	17.0
160.0	162.0	222.5	198.3	-71.1	18.9
162.0	164.0	222.4	198.2	-72.2	17.8
164.0	166.0	222.3	198.1	-72.3	17.7
166.0	168.0	222.1	197.9	-71.7	26.2

## Downhole Survey Summary Table

Hole Number: RHTR 2006-19

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
168.0	170.0	222.0	197.8	-71.1	18.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-19

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
E1	17.39	20.16	2.77		
E2	20.80	22.07	1.27		
E3	24.18	24.75	0.57		
FBONE	49.43	49.90	0.47		
F	49.90	52.23	2.33		
CZ	60.16	60.46	0.30		
G	102.57	106.70	4.13		
Parting	106.70	107.60	0.90		
FAULT	107.60	107.61	0.01		
Sheared Coal	107.61	111.11	3.50		
FAULT	111.11	111.12	0.01		
G	113.95	117.00	3.05		
I	117.84	118.14	0.30		
J1	120.87	122.13	1.26		
J2	122.13	130.14	8.01		
K1	146.34	148.13	1.79		
K2	149.80	151.73	1.93		
CZ	156.98	157.53	0.55		
K3	157.93	158.48	0.55		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-19	0.00	2.00	OB	2.00		
RHTR2006-19	2.00	14.35	SST	12.35		
RHTR2006-19	14.35	17.39	SLT	3.04		
RHTR2006-19	17.39	20.16	E1	2.77		
RHTR2006-19	20.16	20.80	SLT	0.64		
RHTR2006-19	20.80	22.07	E2	1.27		
RHTR2006-19	22.07	24.18	SLT	2.11		
RHTR2006-19	24.18	24.75	E3	0.57		
RHTR2006-19	24.75	42.00	SLT/SST	17.25		
RHTR2006-19	42.00	49.43	SLT	7.43		
RHTR2006-19	49.43	49.90	FBONE	0.47		
RHTR2006-19	49.90	52.23	F	2.33		
RHTR2006-19	52.23	52.75	CLY	0.52		
RHTR2006-19	52.75	58.80	SLT	6.05		
RHTR2006-19	58.80	60.16	CLY	1.36		
RHTR2006-19	60.16	60.46	CZ	0.30		
RHTR2006-19	60.46	62.75	CLY	2.29		
RHTR2006-19	62.75	65.00	SLT/SST	2.25		
RHTR2006-19	65.00	66.00	CLY	1.00		
RHTR2006-19	66.00	74.55	SLT	8.55		
RHTR2006-19	74.55	75.30	CLY	0.75		
RHTR2006-19	75.30	102.57	SLT	27.27		
RHTR2006-19	102.57	106.70	G	4.13		
RHTR2006-19	106.70	107.60	SLT	0.90		
RHTR2006-19	107.60	107.61	FAULT	0.01		
RHTR2006-19	107.61	111.11	Sheared Coal	3.50		
RHTR2006-19	111.11	111.12	FAULT	0.01		
RHTR2006-19	111.11	113.95	CLY	2.84		
RHTR2006-19	113.95	117.00	G	3.05		
RHTR2006-19	117.00	117.84	CLY	0.84		
RHTR2006-19	117.84	118.14	I	0.30		
RHTR2006-19	118.14	120.87	CLY	2.73		
RHTR2006-19	120.87	122.13	J1	1.26		
RHTR2006-19	122.13	130.14	J2	8.01		
RHTR2006-19	130.14	137.80	CLY	7.66		
RHTR2006-19	137.80	146.34	SST/SLT	8.54		
RHTR2006-19	146.34	148.13	K1	1.79		
RHTR2006-19	148.13	149.80	CLY	1.67		
RHTR2006-19	149.80	151.73	K2	1.93		
RHTR2006-19	151.73	156.98	SST/SLT	5.25		
RHTR2006-19	156.98	157.53	CZ	0.55		
RHTR2006-19	157.53	157.93	SLT	0.40		
RHTR2006-19	157.93	158.48	K3	0.55		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-19	158.48	159.00	CLY	0.52		
RHTR2006-19	159.00	165.00	SST/SLT	6.00		
RHTR2006-19	165.00	167.35	SLT	2.35		



## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-21

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1786.94	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	93.03	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	9.00	<b>Date Drilling Complete</b>	30-Sep-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	3-Oct-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082377.83	631532.82	8936.78	13713.92

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>			<b>X</b>	9068, 9239, 9055

**Comments:** Open hole logging blocked at 46.53

Drilling Contractor: GT  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-21

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	12.0	230.0	205.8	-68.4	21.6
12.0	14.0	229.3	205.1	-68.0	22.0
14.0	16.0	227.2	203.0	-68.0	22.0
16.0	18.0	226.4	202.2	-68.8	21.2
18.0	20.0	226.1	201.9	-69.1	20.9
20.0	22.0	225.6	201.4	-69.5	20.5
22.0	24.0	225.1	200.9	-69.6	20.4
24.0	26.0	224.9	200.7	-70.5	19.5
26.0	28.0	224.9	200.7	-70.7	19.3
28.0	30.0	225.1	200.9	-71.0	19.0
30.0	32.0	225.3	201.1	-71.1	18.9
32.0	34.0	225.7	201.5	-71.2	18.8
34.0	36.0	226.0	201.8	-69.6	20.4
36.0	38.0	226.4	202.2	-70.7	19.3
38.0	40.0	226.6	202.4	-70.6	19.4
40.0	42.0	226.7	202.5	-70.7	19.3
42.0	44.0	226.7	202.5	-70.0	20.0
44.0	46.0	226.8	202.6	-69.9	20.1
46.0	93.0	226.8	202.6	-69.9	20.1

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-21

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	7.19	7.88	0.69		
G	11.06	15.58	4.52		
I	16.06	16.88	0.82		
J	17.90	32.38	14.48		
FAULT	41.10	41.20	0.10		
JJ	43.15	54.84	11.69		
K1	65.10	66.45	1.35		
K2	68.38	69.48	1.10		
K3	74.67	75.30	0.63		
K3 Parting	75.30	75.82	0.52		
K3	75.82	76.29	0.47		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-21	0.00	2.00	OB	2.00		
RHTR2006-21	2.00	7.19	SST	5.19		
RHTR2006-21	7.19	7.88	CZ	0.69		
RHTR2006-21	7.88	9.40	SST	1.52		
RHTR2006-21	9.40	11.06	CLY	1.66		
RHTR2006-21	11.06	15.58	G	4.52		
RHTR2006-21	15.58	16.06	CLY	0.48		
RHTR2006-21	16.06	16.88	I	0.82		
RHTR2006-21	16.88	17.90	CLY	1.02		
RHTR2006-21	17.90	32.38	J	14.48		
RHTR2006-21	32.38	37.10	CLY	4.72		
RHTR2006-21	37.10	43.15	SLT	6.05		
RHTR2006-21	43.15	54.84	JJ	11.69		
RHTR2006-21	65.10	66.45	K1	1.35		
RHTR2006-21	68.38	69.48	K2	1.10		
RHTR2006-21	74.67	75.30	K3	0.63		
RHTR2006-21	75.30	75.82	K3 Parting	0.52		
RHTR2006-21	75.82	76.29	K3	0.47		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-20

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1786.37	<b>Collar Bearing (°)</b>	Vertical
<b>Total Depth (m)</b>	125.63	<b>Hole Angle (°)</b>	90
<b>Length of Casing (m)</b>	3.00	<b>Date Drilling Complete</b>	29-Sep-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	28-Sep-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082392.89	631548.70	8957.03	13722.23

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9068, 9067, 9239, 9411

**Comments:** 9056 deviation unserviceable

Drilling Contractor: GT  
Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-20

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	271.6	247.4	-87.6	2.4
10.0	12.0	274.4	250.2	-87.4	2.6
12.0	14.0	275.7	251.5	-87.6	2.4
14.0	16.0	276.7	252.5	-87.9	2.1
16.0	18.0	277.6	253.4	-88.0	2.0
18.0	20.0	278.8	254.6	-86.2	3.8
20.0	22.0	279.5	255.3	-87.1	2.9
22.0	24.0	280.0	255.8	-88.0	2.0
24.0	26.0	279.8	255.6	-87.8	2.2
26.0	28.0	279.5	255.3	-88.3	1.7
28.0	30.0	278.8	254.6	-88.0	2.0
30.0	32.0	277.9	253.7	-88.3	1.7
32.0	34.0	276.3	252.1	-87.5	2.5
34.0	36.0	273.8	249.6	-87.4	2.6
36.0	38.0	271.0	246.8	-86.7	3.3
38.0	40.0	268.0	243.8	-86.3	3.7
40.0	42.0	264.7	240.5	-86.1	3.9
42.0	44.0	261.1	236.9	-85.6	4.4
44.0	46.0	257.7	233.5	-85.0	5.0
46.0	48.0	254.2	230.0	-85.1	4.9
48.0	50.0	250.8	226.6	-84.8	5.2
50.0	52.0	247.6	223.4	-85.6	4.4
52.0	54.0	244.4	220.2	-84.0	6.0
54.0	56.0	241.5	217.3	-83.3	6.7
56.0	58.0	238.7	214.5	-83.5	6.5
58.0	60.0	236.0	211.8	-83.5	6.5
60.0	62.0	233.4	209.2	-83.5	6.5
62.0	64.0	230.9	206.7	-83.3	6.7
64.0	66.0	228.6	204.4	-82.3	7.7
66.0	68.0	226.4	202.2	-81.8	8.2
68.0	70.0	224.4	200.2	-81.4	8.6
70.0	72.0	222.6	198.4	-81.8	8.2
72.0	74.0	220.9	196.7	-80.6	9.4
74.0	76.0	219.4	195.2	-79.6	10.4
76.0	78.0	218.0	193.8	-81.5	8.5
78.0	80.0	216.7	192.5	-80.2	9.8
80.0	82.0	215.6	191.4	-79.4	10.6
82.0	84.0	214.6	190.4	-78.9	11.1
84.0	86.0	213.6	189.4	-77.4	12.6
86.0	88.0	212.7	188.5	-77.8	12.2
88.0	90.0	211.9	187.7	-77.3	12.7
90.0	92.0	211.2	187.0	-77.3	12.7

## Downhole Survey Summary Table

Hole Number: RHTR 2006-20

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
92.0	94.0	210.5	186.3	-75.8	14.2
94.0	96.0	209.9	185.7	-75.1	14.9
96.0	98.0	209.3	185.1	-74.8	15.2
98.0	100.0	208.8	184.6	-73.9	16.1
100.0	102.0	208.3	184.1	-72.7	17.3
102.0	104.0	207.9	183.7	-73.7	16.3
104.0	106.0	207.5	183.3	-72.5	17.5
106.0	108.0	207.1	182.9	-72.9	17.1
108.0	110.0	206.8	182.6	-71.7	18.3
110.0	112.0	206.5	182.3	-71.2	18.8
112.0	114.0	206.2	182.0	-70.8	19.2
114.0	116.0	205.9	181.7	-69.9	20.1
116.0	118.0	205.6	181.4	-69.1	20.9
118.0	125.6	205.6	181.4	-69.1	20.9

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-20

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ?	7.24	8.50	1.26		
Void	8.50	8.95	0.45		
CZ?	8.95	9.30	0.35		
Void	19.75	20.04	0.29		
CZ?	20.24	20.94	0.70		
G	34.41	38.50	4.09		
I	39.72	40.36	0.64		
J	41.14	49.30	8.16		
K1	62.03	63.20	1.17		
K2	64.30	65.65	1.35		
K3	72.60	73.03	0.43		
K3 Parting	73.03	73.42	0.39		
K3	73.42	73.87	0.45		
FAULT	75.50	76.88	1.38		
J	76.88	86.78	9.90		
K1	96.88	98.16	1.28		
K2	99.80	100.58	0.78		
CZ	105.93	106.27	0.34		
K3	113.47	113.92	0.45		
K3 Parting	113.92	114.34	0.42		
K3	114.34	114.90	0.56		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-20	0.00	4.00	OB	4.00		
RHTR2006-20	4.00	5.45	SLT	1.45		
RHTR2006-20	5.45	7.24	CLY	1.79		
RHTR2006-20	7.24	8.50	CZ?	1.26		
RHTR2006-20	8.50	8.95	Void	0.45		
RHTR2006-20	8.95	9.30	CZ?	0.35		
RHTR2006-20	9.30	19.75	SLT	10.45		
RHTR2006-20	19.75	20.24	Void	0.49		
RHTR2006-20	20.24	20.94	CZ?	0.70		
RHTR2006-20	20.94	34.41	SLT	13.47		
RHTR2006-20	34.41	38.50	G	4.09		
RHTR2006-20	38.50	39.72	CLY	1.22		
RHTR2006-20	39.72	40.36	I	0.64		
RHTR2006-20	40.36	41.14	CLY	0.78		
RHTR2006-20	41.14	49.30	J	8.16		
RHTR2006-20	49.30	54.20	CLY	4.90		
RHTR2006-20	54.20	62.03	SLT	7.83		
RHTR2006-20	62.03	63.20	K1	1.17		
RHTR2006-20	63.20	64.30	CLY	1.10		
RHTR2006-20	64.30	65.65	K2	1.35		
RHTR2006-20	65.65	71.20	SLT	5.55		
RHTR2006-20	71.20	72.60	CLY	1.40		
RHTR2006-20	72.60	73.03	K3	0.43		
RHTR2006-20	73.03	73.42	CLY	0.39		
RHTR2006-20	73.42	73.87	K3	0.45		
RHTR2006-20	73.87	75.50	SLT/CLY	1.63		
RHTR2006-20	75.50	76.88	FAULT	1.38		
RHTR2006-20	76.88	86.78	J	9.90		
RHTR2006-20	86.78	91.25	CLY	4.47		
RHTR2006-20	91.25	96.10	CLY/SLT	4.85		
RHTR2006-20	96.10	96.88	SST	0.78		
RHTR2006-20	96.88	98.16	K1	1.28		
RHTR2006-20	98.16	99.80	SLT/SST	1.64		
RHTR2006-20	99.80	100.58	K2	0.78		
RHTR2006-20	100.58	104.25	SLT	3.67		
RHTR2006-20	104.25	105.93	CLY/SLT	1.68		
RHTR2006-20	105.93	106.27	CZ	0.34		
RHTR2006-20	106.27	111.65	CLY	5.38		
RHTR2006-20	111.65	113.47	SLT	1.82		
RHTR2006-20	113.47	113.92	K3	0.45		
RHTR2006-20	113.92	114.34	SLT	0.42		
RHTR2006-20	114.34	114.90	K3	0.56		
RHTR2006-20	114.90	123.00	SLT	8.10		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-23

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1696.15	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	158.58	<b>Hole Angle (°)</b>	85
<b>Length of Casing (m)</b>	3.30	<b>Date Drilling Complete</b>	2-Oct-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	2-Oct-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083508.92	630015.83	9346.10	11866.47

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>		9067, 9239, 9411

**Comments:**

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-23

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	207.2	183.0	-84.7	5.3
10.0	12.0	206.1	181.9	-84.9	5.1
12.0	14.0	205.4	181.2	-84.2	5.8
14.0	16.0	204.7	180.5	-83.9	6.1
16.0	18.0	204.1	179.9	-83.5	6.5
18.0	20.0	203.5	179.3	-83.3	6.7
20.0	22.0	203.0	178.8	-84.2	5.8
22.0	24.0	202.5	178.3	-82.6	7.4
24.0	26.0	202.2	178.0	-81.5	8.5
26.0	28.0	201.9	177.7	-81.9	8.1
28.0	30.0	201.6	177.4	-81.8	8.2
30.0	32.0	201.4	177.2	-81.7	8.3
32.0	34.0	201.2	177.0	-81.3	8.7
34.0	36.0	201.1	176.9	-82.7	7.3
36.0	38.0	201.0	176.8	-80.2	9.8
38.0	40.0	200.8	176.6	-80.0	10.0
40.0	42.0	200.7	176.5	-79.9	10.1
42.0	44.0	200.6	176.4	-79.5	10.5
44.0	46.0	200.5	176.3	-79.7	10.3
46.0	48.0	200.5	176.3	-77.9	12.1
48.0	50.0	200.4	176.2	-78.4	11.6
50.0	52.0	200.3	176.1	-77.4	12.6
52.0	54.0	200.2	176.0	-77.0	13.0
54.0	56.0	200.1	175.9	-76.0	14.0
56.0	58.0	200.1	175.9	-75.5	14.5
58.0	60.0	200.0	175.8	-74.6	15.4
60.0	62.0	200.0	175.8	-73.9	16.1
62.0	64.0	199.9	175.7	-74.1	15.9
64.0	66.0	199.8	175.6	-74.0	16.0
66.0	68.0	199.8	175.6	-73.6	16.4
68.0	70.0	199.7	175.5	-73.1	16.9
70.0	72.0	199.6	175.4	-72.3	17.7
72.0	74.0	199.5	175.3	-72.2	17.8
74.0	76.0	199.4	175.2	-72.1	17.9
76.0	78.0	199.3	175.1	-71.9	18.1
78.0	80.0	199.3	175.1	-71.3	18.7
80.0	82.0	199.2	175.0	-71.4	18.6
82.0	84.0	199.1	174.9	-70.3	19.7
84.0	86.0	199.1	174.9	-70.1	19.9
86.0	88.0	199.0	174.8	-70.0	20.0
88.0	90.0	199.0	174.8	-70.6	19.4
90.0	92.0	198.9	174.7	-70.2	19.8

## Downhole Survey Summary Table

Hole Number: RHTR 2006-23

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
92.0	94.0	198.9	174.7	-70.6	19.4
94.0	96.0	198.9	174.7	-70.2	19.8
96.0	98.0	198.8	174.6	-69.8	20.2
98.0	100.0	198.8	174.6	-69.5	20.5
100.0	102.0	198.8	174.6	-70.1	19.9
102.0	104.0	198.7	174.5	-68.7	21.3
104.0	106.0	198.7	174.5	-68.5	21.5
106.0	108.0	198.7	174.5	-69.1	20.9
108.0	110.0	198.7	174.5	-67.4	22.6
110.0	112.0	198.7	174.5	-67.4	22.6
112.0	114.0	198.7	174.5	-67.3	22.7
114.0	116.0	198.7	174.5	-66.4	23.6
116.0	118.0	198.8	174.6	-66.6	23.4
118.0	120.0	198.8	174.6	-66.3	23.7
120.0	122.0	198.8	174.6	-65.3	24.7
122.0	124.0	198.8	174.6	-65.4	24.6
124.0	126.0	198.8	174.6	-65.3	24.7
126.0	128.0	198.9	174.7	-64.5	25.5
128.0	130.0	198.9	174.7	-64.5	25.5
130.0	132.0	198.9	174.7	-63.5	26.5
132.0	134.0	199.0	174.8	-62.5	27.5
134.0	136.0	199.0	174.8	-62.7	27.3
136.0	138.0	199.0	174.8	-63.0	27.0
138.0	140.0	199.0	174.8	-63.6	26.4
140.0	142.0	199.1	174.9	-63.7	26.3
142.0	144.0	199.1	174.9	-63.1	26.9
144.0	146.0	199.1	174.9	-63.2	26.8
146.0	148.0	199.2	175.0	-63.6	26.4
148.0	150.0	199.2	175.0	-62.5	27.5
150.0	152.0	199.2	175.0	-62.6	27.4
152.0	154.0	199.3	175.1	-62.7	27.3
154.0	156.0	199.3	175.1	-61.6	28.4
156.0	158.6	199.3	175.1	-62.2	27.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-23

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
F BONE	18.13	18.63	0.50		
F	18.63	21.27	2.64		
CZ	80.50	80.80	0.30		
G	81.15	86.48	5.33		
I	86.79	88.20	1.41		
CZ	90.80	91.20	0.40		
CZ	92.48	92.93	0.45		
I	95.02	97.37	2.35		
FAULT	97.37	97.38	0.01		
J	98.93	106.23	7.30		
K1	118.80	120.77	1.97		
K2	123.56	126.70	3.14		
K3	133.07	133.47	0.40		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-23	0.00	2.00	OB	2.00		
RHTR2006-23	2.00	3.60	SST	1.60		
RHTR2006-23	3.60	5.00	CC/CLY	1.40		
RHTR2006-23	5.00	18.13	SLT	13.13		
RHTR2006-23	18.13	18.63	F BONE	0.50		
RHTR2006-23	18.63	21.27	F	2.64		
RHTR2006-23	21.27	23.80	SST	2.53		
RHTR2006-23	23.80	27.00	SLT	3.20		
RHTR2006-23	27.00	29.60	CC/CLY	2.60		
RHTR2006-23	29.60	35.40	SLT/CLY	5.80		
RHTR2006-23	35.40	52.00	SST	16.60		
RHTR2006-23	52.00	56.60	SLT	4.60		
RHTR2006-23	56.60	62.00	SST	5.40		
RHTR2006-23	62.00	79.40	SLT	17.40		
RHTR2006-23	79.40	80.50	CLY	1.10		
RHTR2006-23	80.50	80.80	CZ	0.30		
RHTR2006-23	80.80	81.15	CLY	0.35		
RHTR2006-23	81.15	86.48	G	5.33		
RHTR2006-23	86.48	86.79	SLT	0.31		
RHTR2006-23	86.79	88.20	I	1.41		
RHTR2006-23	88.20	90.80	CLY	2.60		
RHTR2006-23	90.80	91.20	CZ	0.40		
RHTR2006-23	91.20	92.48	CLY	1.28		
RHTR2006-23	92.48	92.93	CZ	0.45		
RHTR2006-23	92.93	95.02	CLY	2.09		
RHTR2006-23	95.02	97.37	I	2.35		
RHTR2006-23	97.37	97.38	FAULT	0.01		
RHTR2006-23	97.38	98.93	CLY	1.55		
RHTR2006-23	98.93	106.23	J	7.30		
RHTR2006-23	106.23	110.00	CLY	3.77		
RHTR2006-23	110.00	111.15	SST	1.15		
RHTR2006-23	111.15	113.00	CLY	1.85		
RHTR2006-23	113.00	118.80	SLT	5.80		
RHTR2006-23	118.80	120.77	K1	1.97		
RHTR2006-23	120.77	123.56	CLY	2.79		
RHTR2006-23	123.56	126.70	K2	3.14		
RHTR2006-23	126.70	128.00	CLY/CC	1.30		
RHTR2006-23	128.00	130.80	SLT	2.80		
RHTR2006-23	130.80	133.07	CLY	2.27		
RHTR2006-23	133.07	133.47	K3	0.40		
RHTR2006-23	133.47	140.00	SLT/SST	6.53		
RHTR2006-23	140.00	158.80	SLT	18.80		





## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-22

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1785.65	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	73.53	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	9.10	<b>Date Drilling Complete</b>	1-Oct-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	3-Oct-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082406.72	631563.61	8975.76	13730.16

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		9067, 9239, 9411, 9055

**Comments:** 9411 deviation faulty

Drilling Contractor: GT  
Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-22

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	12.0	33.8	9.6	-58.3	31.7
12.0	14.0	34.3	10.1	-58.5	31.5
14.0	16.0	34.5	10.3	-58.0	32.0
16.0	18.0	35.2	11.0	-57.7	32.3
18.0	20.0	35.7	11.5	-58.4	31.6
20.0	22.0	36.0	11.8	-57.5	32.5
22.0	24.0	36.3	12.1	-59.0	31.0
24.0	26.0	36.3	12.1	-57.7	32.3
26.0	28.0	36.5	12.3	-57.7	32.3
28.0	30.0	36.7	12.5	-56.7	33.3
30.0	32.0	37.1	12.9	-58.2	31.8
32.0	34.0	37.1	12.9	-57.8	32.2
34.0	36.0	36.9	12.7	-57.4	32.6
36.0	38.0	36.9	12.7	-57.8	32.2
38.0	40.0	36.8	12.6	-57.9	32.1
40.0	42.0	36.8	12.6	-57.5	32.5
42.0	44.0	36.7	12.5	-57.7	32.3
44.0	46.0	36.7	12.5	-57.8	32.2
46.0	48.0	36.6	12.4	-57.6	32.4
48.0	50.0	36.5	12.3	-57.6	32.4
50.0	52.0	36.5	12.3	-57.7	32.3
52.0	54.0	36.6	12.4	-57.5	32.5
54.0	56.0	36.7	12.5	-58.2	31.8
56.0	58.0	36.5	12.3	-59.8	30.2
58.0	60.0	36.5	12.3	-58.4	31.6
60.0	62.0	36.5	12.3	-57.8	32.2
62.0	64.0	36.4	12.2	-57.7	32.3
64.0	66.0	36.4	12.2	-57.8	32.2
66.0	68.0	36.3	12.1	-58.1	31.9
68.0	70.0	36.3	12.1	-58.0	32.0
70.0	72.0	36.2	12.0	-57.8	32.2
72.0	73.5	36.1	11.9	-58.0	32.0

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR2006-22

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	11.90	12.20	0.30		
CZ	13.15	13.55	0.40		
Washout	14.63	15.84	1.21		
Washout	16.30	16.78	0.48		
Washout	19.44	19.77	0.33		
Washout	25.00	25.60	0.60		
J	38.73	47.20	8.47		
CZ	48.46	48.90	0.44		
K1	57.10	58.04	0.94		
K2	59.57	61.45	1.88		
CZ	67.20	67.54	0.34		
K3	67.84	68.10	0.26		
K3 Parting	68.10	68.36	0.26		
K3	68.36	68.67	0.31		
K3 Parting	68.67	69.35	0.68		
K3	69.35	69.73	0.38		



## Drill Hole Summary Sheet

**Hole Number:**                    **RHTR 2006-25**

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1865.31	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	144.31	<b>Hole Angle (°)</b>	80
<b>Length of Casing (m)</b>	6.00	<b>Date Drilling Complete</b>	15-Oct-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	17-Oct-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6082500.43	631397.88	8993.24	13540.57

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		9239, 9055, 9411

**Comments:**

Drilling Contractor:                    GT  
 Geophysical Contractor:              Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-25

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	16.0	219.1	194.9	-73.0	17.0
16.0	18.0	221.1	196.9	-72.8	17.2
18.0	20.0	222.2	198.0	-73.0	17.0
20.0	22.0	223.0	198.8	-72.9	17.1
22.0	24.0	223.6	199.4	-72.6	17.4
24.0	26.0	223.9	199.7	-73.0	17.0
26.0	28.0	224.1	199.9	-72.8	17.2
28.0	30.0	224.2	200.0	-72.9	17.1
30.0	32.0	224.2	200.0	-73.1	16.9
32.0	34.0	224.1	199.9	-73.0	17.0
34.0	36.0	224.1	199.9	-72.8	17.2
36.0	38.0	223.9	199.7	-72.0	18.0
38.0	40.0	223.9	199.7	-71.5	18.5
40.0	42.0	223.8	199.6	-71.5	18.5
42.0	44.0	223.7	199.5	-71.3	18.7
44.0	46.0	223.6	199.4	-71.2	18.8
46.0	48.0	223.4	199.2	-70.9	19.1
48.0	50.0	223.3	199.1	-70.8	19.2
50.0	52.0	223.1	198.9	-71.1	18.9
52.0	54.0	222.8	198.6	-69.4	20.6
54.0	56.0	222.6	198.4	-69.0	21.0
56.0	58.0	222.4	198.2	-68.9	21.1
58.0	60.0	222.2	198.0	-68.8	21.2
60.0	62.0	221.7	197.5	-68.8	21.2
62.0	64.0	221.4	197.2	-68.3	21.7
64.0	66.0	221.1	196.9	-68.7	21.3
66.0	68.0	220.9	196.7	-68.6	21.4
68.0	70.0	220.6	196.4	-68.8	21.2
70.0	72.0	220.5	196.3	-68.3	21.7
72.0	74.0	220.3	196.1	-67.3	22.7
74.0	76.0	220.0	195.8	-68.1	21.9
76.0	78.0	219.8	195.6	-67.7	22.3
78.0	80.0	219.6	195.4	-67.5	22.5
80.0	82.0	219.3	195.1	-67.2	22.8
82.0	84.0	219.2	195.0	-66.2	23.8
84.0	86.0	219.1	194.9	-67.0	23.0
86.0	88.0	218.9	194.7	-67.2	22.8
88.0	90.0	218.8	194.6	-67.3	22.7
90.0	92.0	218.6	194.4	-65.7	24.3
92.0	94.0	218.5	194.3	-63.4	26.6
94.0	96.0	218.4	194.2	-64.0	26.0
96.0	98.0	218.1	193.9	-64.2	25.8

## Downhole Survey Summary Table

Hole Number: RHTR 2006-25

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
98.0	100.0	217.9	193.7	-64.0	26.0
100.0	102.0	217.7	193.5	-64.6	25.4
102.0	104.0	217.6	193.4	-65.3	24.7
104.0	106.0	217.4	193.2	-65.3	24.7
106.0	108.0	217.3	193.1	-65.2	24.8
108.0	110.0	217.3	193.1	-64.5	25.5
110.0	112.0	217.3	193.1	-64.5	25.5
112.0	114.0	217.3	193.1	-64.5	25.5
114.0	116.0	217.4	193.2	-64.0	26.0
116.0	118.0	217.4	193.2	-64.0	26.0
118.0	120.0	217.5	193.3	-63.1	26.9
120.0	122.0	217.5	193.3	-62.2	27.8
122.0	124.0	217.4	193.2	-60.9	29.1
124.0	126.0	217.5	193.3	-60.1	29.9
126.0	128.0	217.6	193.4	-59.4	30.6
128.0	130.0	217.6	193.4	-58.2	31.8
130.0	132.0	217.6	193.4	-57.1	32.9
132.0	134.0	217.7	193.5	-57.5	32.5
134.0	136.0	217.7	193.5	-57.5	29.6
136.0	138.0	217.7	193.5	-57.6	32.4
138.0	140.0	217.7	193.5	-55.9	34.1
140.0	142.0	217.6	193.4	-56.0	34.0
142.0	144.6	217.7	193.5	-56.2	33.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-25

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
F BONE	11.10	11.56	0.46		
F	11.56	14.08	2.52		
F Parting	14.08	14.59	0.51		
F	14.59	15.43	0.84		
CZ	23.52	23.93	0.41		
CZ	30.22	30.38	0.16		
CZ	35.25	36.26	1.01		
CZ	36.72	36.93	0.21		
G	96.02	101.58	5.56		
CZ	102.55	103.72	1.17		
I	103.72	105.05	1.33		
J	107.92	112.30	4.38		
FAULT	112.30	112.31	0.01		
J	112.31	120.53	8.22		
CZ	133.31	133.56	0.25		
K1	137.14	138.04	0.90		
K2	139.50	140.60	1.10		



## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-25	0.00	1.50	OB	1.50		
RHTR2006-25	1.50	11.10	SLT	9.60		
RHTR2006-25	11.10	11.56	F BONE	0.46		
RHTR2006-25	11.56	14.08	F	2.52		
RHTR2006-25	14.08	14.59	CLY	0.51		
RHTR2006-25	14.59	15.43	F	0.84		
RHTR2006-25	15.43	18.70	CLY/SLT	3.27		
RHTR2006-25	18.00	23.52	SLT/SST	5.52		
RHTR2006-25	23.52	23.93	CZ	0.41		
RHTR2006-25	23.93	25.00	SLT	1.07		
RHTR2006-25	25.00	26.60	CLY	1.60		
RHTR2006-25	26.60	30.22	SLT	3.62		
RHTR2006-25	30.22	30.38	CZ	0.16		
RHTR2006-25	30.38	34.20	SST	3.82		
RHTR2006-25	34.20	35.25	CLY	1.05		
RHTR2006-25	35.25	36.26	CZ	1.01		
RHTR2006-25	36.26	36.72	CLY	0.46		
RHTR2006-25	36.72	36.93	CZ	0.21		
RHTR2006-25	36.93	43.60	CLY	6.67		
RHTR2006-25	43.60	45.25	SST	1.65		
RHTR2006-25	45.25	55.00	CLY/SLT	9.75		
RHTR2006-25	55.00	86.50	SST/SLT	31.50		
RHTR2006-25	86.50	95.50	SLT	9.00		
RHTR2006-25	95.50	96.02	CLY	0.52		
RHTR2006-25	96.02	101.58	G	5.56		
RHTR2006-25	101.58	102.55	CLY	0.97		
RHTR2006-25	102.55	103.72	CZ	1.17		
RHTR2006-25	103.72	105.05	I	1.33		
RHTR2006-25	105.05	107.92	CLY	2.87		
RHTR2006-25	107.92	112.30	J	4.38		
RHTR2006-25	112.30	112.31	FAULT	0.01		
RHTR2006-25	112.31	120.53	J	8.22		
RHTR2006-25	120.53	124.35	CLY	3.82		
RHTR2006-25	124.35	127.00	SLT/CLY	2.65		
RHTR2006-25	127.00	133.31	SLT/SST	6.31		
RHTR2006-25	133.31	133.56	CZ	0.25		
RHTR2006-25	133.56	134.40	SLT	0.84		
RHTR2006-25	134.40	135.20	CLY	0.80		
RHTR2006-25	135.20	137.14	SLT	1.94		
RHTR2006-25	137.14	138.04	K1	0.90		
RHTR2006-25	138.04	139.50	CLY	1.46		
RHTR2006-25	139.50	140.60	K2	1.10		
RHTR2006-25	140.60	141.60	SLT	1.00		


## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-24

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1744.57	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	91.54	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	10.50	<b>Date Drilling Complete</b>	10-Oct-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	17-Oct-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083505.58	630811.70	9669.50	12593.67

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>				9239, 9055

**Comments:**

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-24

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	14.0	36.2	12.0	-59.8	30.2
14.0	16.0	36.1	11.9	-59.1	30.9
16.0	18.0	36.8	12.6	-59.1	30.9
18.0	20.0	37.1	12.9	-58.9	31.1
20.0	22.0	37.2	13.0	-58.4	31.6
22.0	24.0	37.3	13.1	-57.5	32.5
24.0	26.0	37.5	13.3	-56.9	33.1
26.0	28.0	37.6	13.4	-56.4	33.6
28.0	30.0	37.8	13.6	-56.3	33.7
30.0	32.0	37.9	13.7	-55.3	34.7
32.0	34.0	38.0	13.8	-55.0	35.0
34.0	36.0	38.2	14.0	-54.4	35.6
36.0	38.0	38.4	14.2	-53.6	36.4
38.0	40.0	38.5	14.3	-52.8	37.2
40.0	42.0	38.7	14.5	-52.1	37.9
42.0	44.0	38.8	14.6	-51.3	38.7
44.0	46.0	38.7	14.5	-50.8	39.2
46.0	48.0	38.8	14.6	-49.8	40.2
48.0	50.0	39.0	14.8	-49.8	40.2
50.0	52.0	39.0	14.8	-48.7	41.3
52.0	54.0	39.1	14.9	-49.9	40.1
54.0	56.0	39.3	15.1	-50.0	40.0
56.0	58.0	39.4	15.2	-49.1	40.9
58.0	60.0	39.5	15.3	-49.4	40.6
60.0	62.0	39.6	15.4	-48.0	39.9
62.0	64.0	39.7	15.5	-47.5	42.5
64.0	66.0	39.8	15.6	-48.0	42.0
66.0	68.0	39.9	15.7	-48.5	41.5
68.0	70.0	40.0	15.8	-48.3	41.7
70.0	72.0	40.2	16.0	-49.1	40.9
72.0	74.0	40.3	16.1	-48.7	41.3
74.0	76.0	40.3	16.1	-48.4	41.6
76.0	78.0	40.4	16.2	-48.9	41.1
78.0	80.0	40.6	16.4	-48.8	41.2
80.0	82.0	40.7	16.5	-48.8	41.2
82.0	84.0	40.7	16.5	-48.7	41.3
84.0	86.0	40.8	16.6	-48.8	41.2
86.0	88.0	40.8	16.6	-48.8	41.2
88.0	90.0	40.9	16.7	-47.4	42.6
90.0	91.7	40.9	16.7	-49.5	40.5

## Downhole Survey Summary Table

Hole Number: RHTR 2006-24

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
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## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
Data checked by: Melanie Mackay, G.I.T.  
Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-24

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
Bird	52.32	54.25	1.93		
GT1	55.10	57.18	2.08		
GT2	58.16	59.48	1.32		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-24	0.00	10.00	OB	10.00		
RHTR2006-24	10.00	23.30	SLT	13.30		
RHTR2006-24	23.30	23.70	CLY	0.40		
RHTR2006-24	23.70	27.00	SLT	3.30		
RHTR2006-24	27.00	27.60	CLY	0.60		
RHTR2006-24	27.60	41.35	SLT/CLY	13.75		
RHTR2006-24	41.35	44.00	CLY	2.65		
RHTR2006-24	44.00	51.50	SLT/CLY	7.50		
RHTR2006-24	51.50	52.32	SST	0.82		
RHTR2006-24	52.32	54.25	Bird	1.93		
RHTR2006-24	54.25	55.10	CLY	0.85		
RHTR2006-24	55.10	57.18	GT1	2.08		
RHTR2006-24	57.18	58.16	SLT	0.98		
RHTR2006-24	58.16	59.48	GT2	1.32		
RHTR2006-24	59.48	60.20	CLY	0.72		
RHTR2006-24	60.20	61.25	CC	1.05		
RHTR2006-24	61.25	64.50	CLY	3.25		
RHTR2006-24	64.50	73.70	SST	9.20		
RHTR2006-24	73.70	74.20	CC	0.50		
RHTR2006-24	74.20	89.00	SST	14.80		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-27

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1408.46	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	55.18	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	12.00	<b>Date Drilling Complete</b>	22-Oct-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	23-Oct-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6084422.98	628991.81	9759.69	10557.63

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>				9239, 9055

**Comments:**

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E



## Downhole Survey Summary Table

Hole Number: RHTR 2006-27

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	18.0	29.4	5.2	-49.3	40.7
18.0	20.0	29.1	4.9	-48.7	41.3
20.0	22.0	28.8	4.6	-49.2	40.8
22.0	24.0	28.7	4.5	-47.7	42.3
24.0	26.0	28.5	4.3	-47.5	44.9
26.0	28.0	28.6	4.4	-47.5	41.3
28.0	30.0	28.7	4.5	-47.5	42.5
30.0	32.0	29.2	5.0	-47.4	42.6
32.0	34.0	29.7	5.5	-47.3	42.7
34.0	36.0	30.0	5.8	-46.7	43.3
36.0	38.0	30.1	5.9	-47.0	43.0
38.0	40.0	30.2	6.0	-45.7	44.3
40.0	42.0	30.3	6.1	-46.1	43.9
42.0	44.0	30.5	6.3	-44.6	45.4
44.0	46.0	30.6	6.4	-43.0	47.0
46.0	48.0	30.5	6.3	-42.7	47.3
48.0	50.0	30.6	6.4	-43.3	46.7
50.0	52.0	30.7	6.5	-42.3	47.7
52.0	54.0	30.8	6.6	-43.2	46.8
54.0	55.2	30.8	6.6	-41.2	48.8

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-27

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
G	13.71	14.08	0.37		
CZ	14.48	14.71	0.23		
I	15.02	15.62	0.60		
J	16.31	21.15	4.84		
CZ	34.83	35.24	0.41		
K1	36.95	37.98	1.03		
K2	38.19	39.26	1.07		
K3	44.58	44.88	0.30		
K3 Parting	44.88	45.21	0.33		
K3	45.21	45.93	0.72		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-27	0	10.00	OB	10.00		
RHTR2006-27	10	13.71	SLT	3.71		
RHTR2006-27	13.71	14.08	G	0.37		
RHTR2006-27	14.08	14.48	SLT	0.40		
RHTR2006-27	14.48	14.71	CZ	0.23		
RHTR2006-27	14.71	15.02	CLY	0.31		
RHTR2006-27	15.02	15.62	I	0.60		
RHTR2006-27	15.62	16.31	CLY	0.69		
RHTR2006-27	16.31	21.15	J	4.84		
RHTR2006-27	21.15	23.30	CLY	2.15		
RHTR2006-27	23.3	29.50	SLT/CC	6.20		
RHTR2006-27	29.5	31.40	SLT	1.90		
RHTR2006-27	31.4	33.85	CLY	2.45		
RHTR2006-27	33.85	34.83	SLT/SST	0.98		
RHTR2006-27	34.83	35.24	CZ	0.41		
RHTR2006-27	35.24	36.15	SLT/SST	0.91		
RHTR2006-27	36.15	36.95	CLY	0.80		
RHTR2006-27	36.95	37.98	K1	1.03		
RHTR2006-27	37.98	38.19	CLY	0.21		
RHTR2006-27	38.19	39.26	K2	1.07		
RHTR2006-27	39.26	44.58	CLY	5.32		
RHTR2006-27	44.58	44.88	K3	0.30		
RHTR2006-27	44.88	45.21	CLY	0.33		
RHTR2006-27	45.21	45.93	K3	0.72		
RHTR2006-27	45.93	46.90	SLT	0.97		
RHTR2006-27	46.9	47.70	CLY	0.80		
RHTR2006-27	47.7	52.55	SLT	4.85		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-26

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1410.28	<b>Collar Bearing (°)</b>	215
<b>Total Depth (m)</b>	90.86	<b>Hole Angle (°)</b>	60
<b>Length of Casing (m)</b>	6.00	<b>Date Drilling Complete</b>	20-Oct-06
<b>Hole Diameter (cm)</b>	15.24 (6")	<b>Date Geophys. Logged</b>	20-Oct-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6084378.80	628948.67	9701.7	10536.41

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
						X	

**Comments:** collapsed just below casing

Drilling Contractor: Carbon Mountain  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E

## Downhole Survey Summary Table

Hole Number: RHTR 2006-26

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	90.9	215.0	190.8	-60.0	30.0

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.

Data checked by: Melanie Mackay, G.I.T.

Hole Number: RHTR2006-26

Confirmed by: Ron McIntyre, P.Geo.

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
CZ	44.13	44.42	0.29		
G	44.99	49.42	4.43		
J	51.40	56.93	5.53		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-26	0.00	12.00	OB	12.00		
RHTR2006-26	44.13	44.42	CZ	0.29		
RHTR2006-26	44.99	49.42	G	4.43		
RHTR2006-26	51.40	56.93	J	5.53		

## Drill Hole Summary Sheet

**Hole Number:** RHTR 2006-28

<b>Hole Type</b>	Rotary	<b>Survey Instrument / Accuracy</b>	Base Stn, cm-acc.
<b>Collar Elevation (m)</b>	1625.67	<b>Collar Bearing (°)</b>	35
<b>Total Depth (m)</b>	146.00	<b>Hole Angle (°)</b>	70
<b>Length of Casing (m)</b>	6.00	<b>Date Drilling Complete</b>	31-Oct-06
<b>Hole Diameter (cm)</b>	11.43 (4.5")	<b>Date Geophys. Logged</b>	2-Nov-06
<b>Core size</b>	N/A	<b>Date Core Logged</b>	N/A
<b>NAD 83 UTM Coordinates</b>		<b>Mine Grid Coordinates*</b>	
<b>Northing (m)</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Easting (m)</b>
6083856.15	629770.87	9562.29	11500.64

### Geophysical Data

Gamma - Density	Gamma - Neutron	Exp. Gamma - Density	Deviation	Dipmeter	Dipmeter Deviation	Other	Logging Tools ID
		<b>X</b>	<b>X</b>				9055

**Comments:** Hole drilled to 146m, blocked at 19m.

Drilling Contractor: GT  
 Geophysical Contractor: Century

\*Note: Mine Grid Point of Origin at UTM Zone 10 (NAD 83) 608079.06 N, with Rotation of 24.22° East.  
 637701.86 E



## Downhole Survey Summary Table

Hole Number: RHTR 2006-28

FROM (m)	TO (m)	UTM AZIMUTH (°)	MG AZIMUTH (°)	DIP (°)	SLANT ANGLE (°)
0.0	10.0	17.9	2.0	-65.8	24.2
10.0	12.0	19.9	2.0	-63.2	26.8
12.0	14.0	22.0	2.0	-63.2	26.8
14.0	16.0	23.3	0.9	-62.9	27.1
16.0	18.0	24.7	0.5	-63.5	26.5
18.0	146.0	25.0	0.8	-63.8	26.2

## Seam Interval Summary Table

Picked by: Ron McIntyre, P.Geo.  
 Data checked by: Melanie Mackay, G.I.T.  
 Confirmed by: Ron McIntyre, P.Geo.

Hole Number: RHTR2006-28

Seam ID	From (m)	To (m)	Interval Thickness (m)	BCN (°)	True Thickness (m)
D1	1.50	2.40	0.90		
CZ	13.70	14.60	0.90		
D2	16.15	22.25	6.10		
D2	25.90	27.40	1.50		
E1	47.20	48.80	1.60		
E2	53.00	54.90	1.90		
F1	74.70	75.60	0.90		
F2	84.10	85.00	0.90		
G	123.40	131.10	7.70		
J	134.10	137.20	3.10		

## Lithology Summary Sheet

Date: December 2006

HOLE-ID	FROM	TO	LITHOLOGY	INTERVAL	Interception Angle	True Width
RHTR2006-28	0.00	1.50	OB	1.50		
RHTR2006-28	1.50	2.60	D1	1.10		
RHTR2006-28	2.60	4.40	SLT	1.80		
RHTR2006-28	4.40	5.10	CGLM	0.70		
RHTR2006-28	5.10	6.10	CLY	1.00		
RHTR2006-28	6.10	14.00	CGLM	7.90		
RHTR2006-28	14.00	14.90	CZ	0.90		
RHTR2006-28	14.90	16.15	CLY	1.25		
RHTR2006-28	16.15	22.25	D2	6.10		
RHTR2006-28	25.90	27.40	D2	1.50		
RHTR2006-28	47.20	48.80	E1	1.60		
RHTR2006-28	53.00	54.90	E2	1.90		
RHTR2006-28	74.70	75.60	F1	0.90		
RHTR2006-28	84.10	85.00	F2	0.90		
RHTR2006-28	123.40	131.10	G	7.70		
RHTR2006-28	134.10	137.20	J	3.10		

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-1  
 Northing: 6083354.525 ~15m S of QBR-7591  
 Easting: 630556.872  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: F  
 Logged by: RFM

Run #	Driller's Coring Info				Interval Corrected to Log		Corrected Length (m)	Lost (m)	BCN	Sample #	Core Quality	Lithology	Description	Measured Length (m)	Seam
	from	to	Recovered ft/m	%	from	to									
													Cased to 4.1 m.		
													Core point at ( 87') 26.52m below ground level.		
1	87ft / 26.52m	91ft / 27.74m	1.17 / 1.22	96	26.79	28.01	1.22	0.05					Entire run		
"					26.79	26.84		0.05					Rock loss		
					26.84	27.17	0.33				MB	<b>CARBONACEOUS CLAYSTONE</b>	Gradational, increasing to HCC with depth.		
"					27.17	27.27	0.10			0000 26	MB	<b>CARBONACEOUS CLAYSTONE</b>	Gradational, increasing to HCC with depth. 10cm Hanging Wall sample.	0.43	
"					27.27	27.41	0.14		62°	0000 27	SO	<b>COAL, DULL</b>	Top contact intact. Sample F1	0.14	F
"					27.41	27.59	0.18			0000 27	IN	<b>COAL, DULL</b>	Sample F1	0.18	F
"					27.59	27.85	0.26			0000 27	SO	<b>COAL, DULL</b>	Sample F1	0.26	F
"					27.85	28.01	0.16			0000 27	IN	<b>COAL, DULL</b>	Sample F1	0.16	F
2	91ft / 27.74m	96ft / 29.26m	0.99 / 1.52	65	28.01	29.53	1.52	0.50					Entire run		
"					28.01	28.16	0.15			0000 28	MB	<b>COAL, DULL</b>	Sheared, Sample F2	0.15	F
"					28.16	28.91	0.75			0000 28	SB	<b>COAL, DULL</b>	Somewhat sheared, a few boney bands to 1cm near top, Sample F2	0.75	F
"					28.91	29.00	0.09			0000 28	MB	<b>COAL, DULL</b>	Somewhat sheared, Sample F2	0.09	F
					29.00	29.50		0.50		0000 28		<b>COAL LOSS</b>			

3	96ft / 29.26m	101 ft / 30.79m	1.40 / 1.53	92	29.50	30.90	1.53												Entire run. No actual core loss.		
"					29.50	29.65	0.15		0000 28	HB									COAL, DULL Rubbly, rounded, Sample F2	0.15	F
"					29.65	29.75	0.10		0000 29	HB									HIGHLY CARBONACEOUS CLAYSTONE Sheared contact zone, 10cm footwall sample	0.10	
"					29.75	29.91	0.16			SO									CARBONACEOUS CLAYSTONE BL, somewhat sheared	0.16	
"					29.91	30.04	0.13			IN									CARBONACEOUS CLAYSTONE BL, somewhat sheared	0.13	
"					30.04	30.17	0.13			SO									CARBONACEOUS CLAYSTONE BL	0.13	
"					30.17	30.29	0.12			IN									CLAYSTONE DG, massive	0.12	
"					30.29	30.64	0.35			IN									MEDIUM SILTSTONE MG, massive, oxidation on fractures	0.35	
"					30.64	30.90	0.26		56°	SO									FINE SANDSTONE MG, silty, laminated	0.26	
4	101 ft / 30.79m	106 ft / 32.31m	1.56	103	30.90	32.46	1.56	gain 0.04											Entire run		
"					30.90	31.97	1.07		58°	SO									COARSE SILTSTONE Laminated sandy siltstone	1.07	
"					31.97	32.46	0.49			SO									MEDIUM SILTSTONE DB, massive	0.49	
5	106 ft / 32.31m	111 ft / 33.83m	1.64	108	32.46	34.10	1.64	gain 0.12											Entire run		
"					32.46	32.79	0.33		58°	IN									MEDIUM SILTSTONE DB, bedded, a few thin carbonaceous laminae, lower surfaces oxidized, sheared parallel to bedding.	0.33	
"					32.79	32.90	0.11			MB									FINE SILTSTONE MG, clayey, somewhat sheared	0.11	
"					32.90	33.52	0.62		57°	SO									FINE SILTSTONE MG, regularly bedded	0.62	
"					33.52	34.10	0.58			SO									FINE SILTSTONE MG, massive	0.58	
																			End of Hole		

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-2

Page: 1 of 2

Northing: 6083353.868

Hole Orientation: Vertical

Easting: 630553.432

Seam: F

UTM System: NAD 83

Logged by: RFM

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Lithology	Description	Measured Length (m)	Seam
	Recovered		from	to											
	ft/m	%													
1	94ft / 28.65m	97 ft / 29.56m	0.99	110	28.65	29.64	0.99	gain 0.08							
"					28.65	29.28	0.63			IN		FINE SILTSTONE	DB, bioturbated, no reliable bedding		0.63
"					29.28	29.64	0.36			IN		CLAYSTONE	DB, bioturbated		0.36
2	97 ft / 29.56m	102 ft / 31.09m	1.32	87	29.64	31.16	1.52	0.20							
"					29.64	30.57	0.93			IN		CLAYSTONE	DB, vaguely bedded		1.03
"					30.57	30.67	0.1		0000 30	IN		CLAYSTONE	DB, vaguely bedded, 10cm hanging wall sample		
"					30.67	30.96	0.29		0000 31	VB		HIGHLY CARBONACEOUS CLAYSTONE	Very sheared, polished flakes, includes ~25% broken CC, Sample F1		0.29
"					30.96	31.12		0.16	0000 31			ROCK LOSS			
"					31.12	31.16		0.04	0000 31			COAL LOSS			
3	102 ft / 31.09m	107 ft / 32.61m	1.4	92	31.16	32.68	1.52	0.12							
"					31.16	32.40	1.24		0000 32	SB		COAL, DULL	Soft, core surface partly washed out, Sample F2		1.24
"					32.40	32.56	0.16		0000 33	VB		COAL, DULL	Sheared, Sample F3. Note: coal seam is making water.		0.16
"					32.56	32.56		0.12				COAL LOSS	Coal loss regained in next run		

4	107 ft / 32.61m	111.5 ft / 33.99m	1.52	110	32.56	33.99	1.52	gain 0.14							Entire run		
"					32.56	33.19	0.63		0000 33	CR					<b>COAL</b> Very finely crushed, dull? Sample F3	0.63	F
"					33.19	33.34	0.15		0000 33	VB					<b>COAL</b> Very sheared, polished, Sample F3	0.15	F
"					33.34	33.44	0.1	55°	0000 34	SB					<b>CLAYSTONE</b> DB, massive, occasional carbonaceous partings, upper contact SB, 10cm footwall sample	0.36	
"					33.44	33.70	0.26			SB					<b>CLAYSTONE</b> DB, massive, occasional carbonaceous partings		
"					33.70	34.08	0.38			SB					<b>FINE SILTSTONE</b> DG, massive, coarsens with depth, oxidized on fractures	0.38	
5	111.5 ft / 33.99m	116.5 ft / 35.51m	1.55	102	34.08	35.63	1.55	gain 0.03							Entire run		
"					34.08	34.81	0.73	50°		SO					<b>FINE SANDSTONE</b> MG, many silty laminae	0.73	
"					34.81	35.33	0.52			SO					<b>COARSE SILTSTONE</b> MG, oxidation on fractures common	0.52	
"					35.33	35.63	0.30			IN					<b>MEDIUM SILTSTONE</b> MG, fairly massive	0.30	
6	116.5 ft / 35.51m	121.5 ft / 37.03m	1.41	93	35.63	37.15	1.52	0.11							Entire run		
"					35.63	35.90	0.27			SO					<b>MEDIUM SILTSTONE</b> As above	0.27	
"					35.90	36.62	0.72			SO					<b>MEDIUM SILTSTONE</b> MG, bedded	0.72	
"					36.62	37.04	0.42			IN					<b>MEDIUM SILTSTONE</b> MG, massive, includes 5cm broken zone 0.20m above bottom	0.42	
"					37.04	37.15		0.11							<b>ROCK LOSS</b>		
															End of Hole		

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-3  
 Northing: 6083508.863  
 Easting: 630286.131  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: E  
 Logged by: RFM

Run #	Driller's Coring Info				Interval		Corrected Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Measured Length (m)	Seam
	Recovered		from	to										
	ft/m	%												
												Cased to 6 m.		
												Core point at 142 ft/ 43.28m below ground level.		
					42.42	42.57		0.15				Coal loss		E1
1	142 ft / 43.28m	145 ft / 44.20m	0.89	98	42.57	43.48	0.91	0.02						
"					42.57	42.57	0			0000 35	SB	FSST, OB, massive, probably slough; 10cm hanging wall sample	0.18	
					42.57	42.77		0.2				Coal loss		E1
"					42.77	42.83	0.06			0000 36	VB	Cd, somewhat sheared, visible marcasite, Sample E1	0.06	E1
"					42.83	43.48	0.65			0000 36	IN	Cd, trace marcasite, slightly sheared, Sample E1	0.65	E1
2	145 ft / 44.20m	150 ft / 45.72m	1.48		43.48	45.00	1.52	0.04				Entire run		
"					43.48	43.69	0.21			0000 37	VB	Cd, sheared, includes boney bands to 2cm, Sample E2	0.21	E1
"					43.69	44.19	0.50			0000 38	IN	Cd, slightly sheared, Sample E3	0.50	E1
"					44.19	44.29	0.10			0000 38	SB	Coal, very sheared, polished flakes, Sample E3	0.10	E1
"					44.29	44.38	0.09			0000 39	SB	HCC, sheared, polished flakes, Sample E4	0.09	E1
"					44.38	44.45	0.07			0000 39	SO	CC, black, massive, hard, sample E4	0.07	E1
"					44.45	44.55	0.10			0000 39	IN	Bn, Sample E4	0.10	E1
"					44.55	44.96	0.41			0000 40	IN	Cd, slightly sheared, a few thin boney bands <1cm, Sample E5	0.41	E1



3	150 ft / 45.72m	155 ft / 47.24m	1.42		44.96	46.48	1.52	0.10					Entire run	
"					44.96	45.11	0.15			0000 40	VB		Cd, sheared as above. Sample E5	0.15 E1
"					45.11	45.21	0.1	59°		0000 41	SO		CC, black, upper contact intact; 10cm footwall sample E1 seam	0.1
"					45.21	45.25	0.04			0000 42	SO		CC, black	0.04
"					45.25	45.69	0.44			0000 42	SO		CLY, DB, massive, E1-E2 parting	0.44
"					45.69	45.75	0.06			0000 42	SB		CC, black, somewhat sheared	0.06
"					45.75	45.85	0.1			0000 43	SB		CC, black, somewhat sheared, 10cm hanging wall sample, E2 seam	0.1
"					45.85	46.11	0.26			0000 44	SO		Cdb, Sample E6	0.26 E2
"					46.11	46.38	0.27			0000 44	IN		Cd, Sample E6	0.27 E2
4	155 ft / 47.24m	160 ft / 48.77m	1.49		46.38	47.90	1.52	0.03					Entire run	
"					46.38	46.56	0.18			0000 45	MB		Cd, includes boney coal band ~2cm, sample E7	0.18 E2
"					46.56	46.72	0.16			0000 45	VB		Cd, sheared and polished, maybe some CC Sample E7	0.16 E2
"					46.72	46.96	0.24			0000 46	IN		Cd, Sample E8	0.24 E2
"					46.96	47.18	0.22	53°		0000 47	IN		ST, some BN, heavy and hard, contacts intact, Sample E9	0.22 E2
"					47.18	47.36	0.18			0000 48	SO		Cd with fusain lenses to 5mm, Sample E10	0.18 E2
"					47.36	47.39	0.03			0000 48	VB		Coal/CC, very sheared contact zone, Sample E10	0.03 E2
"					47.39	47.49	0.1			0000 49	SO		CLY, DB, massive with occasional carbonaceous partings, 10cm footwall sample E2 seam	0.1
"					47.49	47.87	0.38				SO		CLY, DB, massive with occasional carbonaceous partings	0.38
5	160 ft / 48.77m	165 ft / 50.29m	1.50		47.87	49.39	1.52	0.02					Entire run	
"					47.87	48.07	0.20				MB		CC, DG, somewhat sheared	0.20
"					48.07	48.27	0.20				SB		CSLT, MG, carbonaceous partings common	0.20

"					48.27	48.36	0.09				SO	CLY, DG, massive	0.09	
"					48.36	48.49	0.13		55°		SO	MSLT, MG, gradational	0.13	
"					48.49	48.67	0.18				SO	CSLT, MG, bioturbated, gradational	0.18	
"					48.67	49.27	0.60				SO	FSST, MG, laminated	0.60	
"					49.27	49.37	0.10				IN	MSLT, MG, bioturbated	0.10	

6	165 ft / 50.29m	170 ft / 51.82m	1.52		49.37	50.89	1.52						Entire run	
"					49.37	49.78	0.41				SO		CLY, DB, silty, vaguely banded	0.41
"					49.78	50.40	0.62				IN		CLY, DB, massive with occasional carbonaceous partings	0.62
"					50.40	50.61	0.21			0000 50	IN		Cd, top 4cm BN, E3 seam, Sample E11	0.21 E3
"					50.61	50.89	0.28			0000 50	VB		HCC, polished flakes, Sample E11	0.28 E3
7	170 ft / 51.82m	175 ft / 53.34m	1.52		50.89	52.41	1.52						Entire run	
"					50.89	50.91	0.02			0000 50	MB		CC, as above, Sample E11	0.02 E3
"					50.91	51.01	0.1				SO		CLY, DB, has carbonaceous partings	0.1
"					51.01	51.18	0.17				SO	59°	FSLT, DB, gradational, fines upward	0.17
"					51.18	52.41	1.23				SO		FSST, MG, with silty laminae, white calcite to 2mm plating fractures	1.23
													End of Hole	

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-4  
 Northing: 6083512.672  
 Easting: 630286.08  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: E  
 Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	from	to	Recovered		from	to									
			ft/m	%											
												Cased to			
												m.			
												Core point at ( 120') 36.57m below ground level.			
1	120ft / 36.57m	125ft / 38.10m		1.7	35.51	37.21	1.52	Gain 0.18				Entire run			
"					35.51	36.21	0.69			SO		LG – a few calcareous stringers	0.69	FSLT	
"					36.21	36.76	0.56			IN		MG	0.56	CLY	
"					36.76	37.21	0.45			SB		Trace coaly bands, marcasite on slip faces	0.45	CLY	
2	125ft / 38.10 m	130ft / 39.62m		1.54	37.21	38.77	1.52	Gain 0.02				Entire run			
"					37.21	38.19	0.98			SO		LG	0.98	CLY	
"					38.19	38.61	0.42			SB		MG – some orange stain, plant leaf fossils at bottom	0.42	CLY	
"					38.61	38.67	0.06			000051	VB	Sheared, black – HW sample	0.06	CC	
					38.67	38.69	0.02			"	SB	Sheared, coaly – HW sample cont.	0.02	HCC	
					38.69	38.77	0.08			000052	SO	Coal sample 1	0.08	Cd	E1
3.0	130ft / 39.62m	135 ft / 41.15m		1.60	38.77	40.37	1.52	Gain 0.08				Entire run			
"					38.77	39.71	0.94			"	SO	Traces of marcasite – coal sample 1 cont.	0.94	Cd	E1
"					39.71	39.99	0.28			000053	SB	Sheared, fine flakes, very slight brown streak – E coal sample 2	0.28	Cd	E1
"					39.99	40.37	0.38			000054	SO	Coal sample 3	0.38	Cd	E1
4	135 ft / 41.15m	140 ft / 42.67m		1.43	40.37	41.80	1.52	0.09				Entire run			

"					40.37	40.45	0.08			000054	HB	Coal sample 3 cont.	0.08	Cd	E1
"					40.45	40.80	0.15		60°	000055	SO	E1 Parting sample 1	0.15	CC	E1
					40.60	41.28	0.68			000056	SO	A few bright bands – coal sample 4	0.68	Cd	E1
					41.28	41.37	0.09			000057	IN	Sheared – FW sample	0.09	HCC	
					41.37	41.57	0.20			000058	SO	To CLY – a few coaly stringers up to 5mm – E1/E2 interseam sample	0.20	CC	
					41.57	41.80	0.23			000058	SO	Interseam - E1/E2 interseam sample cont.	0.23	CLY	
5	140 ft / 42.67m	145 ft / 44.19m	1.49		41.80	43.29	1.52	0.03				Entire run			
"					41.80	42.21	0.41		57°		SO	Interseam – intact HW contact w/ E2 – E1/E2 interseam sample cont.	0.51	CLY	
"					42.21	42.31	0.10			000059	SO	E2 HW sample	0.10	CLY	
"					42.31	42.52	0.21			000060	SB	boney, mixed with Cd layers – coal sample 5	0.21	Bn	E2
"					42.52	43.22	0.70			000061	SO	Coal sample 6	0.70	Cd	E2
"					43.22	43.29	0.07			000062	SO	Boney w/ a few bright bands – coal sample 7	0.07	Bn	E2
6	145 ft / 44.19m	150 ft / 45.72m	1.56		43.29	44.85	1.52	Gain 0.04				Entire run			
"					43.29	43.37	0.08			000062	IN	Boney w/ a few bright bands – coal sample 7	0.08	Bn	E2
"					43.37	43.75	0.38			000063	IN	Hard – coal sample 8	0.38	Cd	E2
"					43.75	43.85	0.10			000064	SO	E2 FW sample	0.1	FSLT	
"					43.85	44.44	0.59		56°		SO	Coarsening downwards to CSLT, mottled appearance with dark CLY stringers	0.59	FSLT	
"					44.44	44.85	0.41				SO	A few bright white calcareous stringers	0.41	CSLT	
7	150 ft / 45.72m	155 ft / 47.24m	1.44		44.85	46.50	1.52	0.08							
					44.85	45.23	0.25				SO	With white calcareous stringers	0.25	CSLT	
					45.23	45.83	0.60		48°		SO	Fining downwards to CLY	0.6	CSLT	
					45.83	46.09	0.26				SO	With a few Cd stringers up to 1cm	0.26	CLY	
					46.09	46.50	0.41		40°		IN	E3 seam – intact contact with HW	0.33	Cd	E3
												- End of Hole -			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-5

Northing: 6083516

Hole Orientation: Vertical

Easting: 630237.45

Seam: D

UTM System: NAD 83

Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	Recovered		from	to	from	to									
	ft/m	%													
												Cased to			
												Core point at ( 140.5') 42.82m below ground level.			
1	140.5ft / 42.82m	142ft / 43.28m	0.44	42.62	43.30	0.46	0.02					Entire run			
"				42.62	42.88	0.26		45°		IN		Dg, hard	0.26	FSLT	
"				42.88	42.90	0.02				SO		Pebbly zone in FSLT, particles up to 3mm	0.02	CGL	
"				42.90	43.06	0.16				SO		Dg, hard	0.16	FSLT	
2	142ft / 43.28 m	147ft / 44.80m	1.55	43.06	43.61	1.52	Gain .03					Entire run			
"				43.06	43.30	1.24									
"				43.30	43.40	0.10			000065	IN		Fining downwards to CLY at HW contact – 10 cm HW sample	1.34	FSLT	
"				43.40	43.61	0.21			000066	SB		Some marcasite on slip faces, slight shear at HW contact (broken) – CZ coal sample 1	0.21	Cd	CZ
3	147ft / 44.80m	152 ft / 46.33m	1.57	43.61	46.18	1.52	Gain 0.05					Entire run			
"				43.61	43.90	0.29			"	VB		Lower contact sheared – CZ coal sample 1 cont.	0.29	Cd	CZ
"				43.90	45.00	0.10			000067	IN		DG to CLY, a few 1-3mm coaly stringers – 10 cm FW sample	0.1	FSLT	
"				45.00	46.18	1.18				IN		DG to CLY, a few 1-3mm coaly stringers	1.18	FSLT	

4	152 ft / 46.33m	157 ft / 47.85m	1.59	46.18	47.77	1.52	Gain .07					Entire run			
"				46.18	47.77	1.59				SO		To very FSLT, no visible bedding, a few white calcareous stringers up to 2mm, fine marcasite on some fracture/shear surfaces	1.59	CLY	
5	157 ft / 47.85m	162 ft / 49.38m	1.54	47.77	49.31	1.52	Gain .02					Entire run			
"				47.77	48.39	0.62		57°		IN		As above CLY	0.62	CLY	
				48.39	48.49	0.10			000068	IN		D2 HW sample	0.10	CLY	
"				48.49	48.90	0.41			000069	SO		D2 seam, slightly sheared HW contact – D2 Coal sample 1	0.41	Cd	D2
"				48.90	48.98	0.08			000070	SO		DG – D2 parting sample	0.08	CLY	D2
"				48.98	49.31	0.33			000071	SO		D2 coal sample 2	0.33	Cd	D2
6	162 ft / 49.38m	167 ft / 50.90m	1.35	49.31	50.66	1.52	0.17					Entire run			
"				49.31	50.55	1.24			000071	IN		A few bright hard bands, a few dull soft bands – D2 coal sample 2 cont.	1.24	Cd	D2
"				50.55	50.66	0.11			000072	HB		DG slightly sheared – D2 parting 2 sample	0.11	CLY	D2
7	167 ft / 50.90m	172 ft / 52.42m	1.33	50.66	51.99	1.52	0.19					Entire run			
				50.66	51.38	0.72			000072	SB		DG, contact with lower seam intact - Parting 2 sample cont.	0.72	CLY	D2
				51.38	51.99	0.61		26°	000073	IN		A few bright bands – D2 coal sample 3	0.61	Cd	D2
8	172 ft / 52.42m	177 ft / 53.95m	1.60	51.99	53.59	1.52	Gain .08					Entire run			
"				51.99	53.59	1.60			000074	SB		A few more broken sections, slightly sheared in a few places – D2 coal sample 4	1.60	Cd	D2

9	177 ft/ 53.95m	182 ft/ 55.47m	1.50	53.59	54.89	1.52	0.02				Entire run			
"				53.59	53.69	0.10			000074	HB	D2 coal sample 4 cont.	0.10	CLd	D2
"				53.69	53.85	0.16			000075	HB	Sheared black, shiny flakes, brown streak, HCC1 sample	0.16	HCC	
"				53.85	53.95	0.10			000076	SO	LG parting 3 sample	0.10	CLY	
"				53.95	54.79	0.84			000077	HB	Sheared black, shiny flakes, brown streak, HCC2 sample	0.84	HCC	
				54.79	54.89	0.10			000078	SO	DG - D2 FW sample	0.10	CLY	
"				54.89	55.09	0.20				SO	DG	0.20	CLY	
10	182 ft/ 55.47m	187 ft/ 56.99m	1.50	55.09	56.43	1.52	0.02							
"				55.09	55.77	0.68		52°		SO	MG, slightly banded, a few white calcareous stringers	0.68	CLY	
"				55.77	56.03	0.26				HB	Black with brown streak, a few coaly bands	0.26	CC	
"				56.03	56.28	0.25				SO	MG	0.25	CLY	
"				56.28	56.43	0.15				HB	With a few <2mm coaly bands	0.15	CC	
"				56.43	56.59	0.16				SO	MG	0.16	CLY	
11	187 ft/ 56.99m	192 ft/ 58.52m	1.45	56.59	58.04	1.52	0.07							
				56.59	57.66	1.07				SO	LG, coarsening downwards to FSLT	1.07	CLY	
				57.66	57.72	0.06				IN	DG a couple of coaly bands up to 5mm	0.06	CC	
				57.72	58.04	0.32				SO	MG, coarsening downwards to FSLT	0.32	CLY	
											- End of Hole -			



**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-6

Page: 1 of 3

Northing: 6083515.97

Hole Orientation: Vertical

Easting: 630249.22

Seam: D

UTM System: NAD 83

Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	Recovered		from	to	from	to									
	ft/m	%													
												Cased to 1.8 m.			
												Core point at ( 100') 30.5m below ground level.			
1	100ft / 30.48m	101ft / 30.78m	0.46	30.51	31.27	0.44	Gain.02					Entire run			
"				30.51	30.71	0.20				IN		Orange stained, top piece ground	0.20	CGL	
"				30.71	30.79	0.08				HB		With some HCC to Cd content	0.08	CLY	
"				30.79	30.97	0.18				SO		MG massive, a few calcareous stringers	0.18	CLY	
2	101ft / 30.78m	106ft / 32.31m	1.28	30.97	32.25	1.52	0.24					Entire run			
"				30.97	31.27	0.30				IN		DG to MG massive, becoming darker at base (HW)	0.30	CLY	
"				31.27	31.37	0.10			000079	IN		DG to MG massive, becoming darker at base (HW) – D1 HW sample	0.10	CLY	
"				31.37	31.70	0.33			000080	HB		Sheared flakes, last 5 cm boney – D1 coal sample 1	0.33	Cd	D1
"				31.70	32.05	0.35		45°	000081	SO		DG fine 1-3mm DG/LG bands – D1 parting sample	0.35	CLY	
"				32.05	32.25	0.20		45°	000082	IN		Intact top(HW) contact – D1 coal sample 2	0.20	Cd	D1
3	106ft / 32.31m	111 ft / 33.83m	1.57	32.25	33.82	1.52	Gain 0.05					Entire run			
"				32.25	33.10	0.85			000082	HB		Trace marcasite on shear faces, top.33m less broken, lower .4m some sheared flakes, boneyat FW contact – D1 coal sample 2 cont.	0.85	Cd	D1
"				33.10	33.20	0.10			000083	IN		DG a few of coaly bands up to 3mm – D1 10cm FW sample	0.10	CLY	
"				33.20	33.82	0.62				IN		DG a few of coaly bands up to 3mm	0.72	CLY	

4	111 ft / 33.83m	116 ft / 35.36m	1.57	33.82	35.59	1.52	Gain .05				Entire run			
"				33.82	34.22	0.40		45°		SB	DG, massive, a few coaly stringers along bedding	0.40	CLY	
"				34.22	34.42	0.20		0.20			Rock loss			
"				34.42	34.68	0.26				HB	Sheared coaly zone	0.26	HCC	
"				34.68	34.97	0.29				IN	DG, massive	0.29	CLY	
"				34.97	35.32	0.35				IN	MG hard	0.35	FSLT	
"				35.32	35.59	0.27				SB	With a 10-15cm pebbly zone – very hard, pebbles up to 3mm	0.27	MSLT	
5	116 ft / 35.36m	121 ft / 36.88m	1.44	35.59	37.11	1.52	0.08				Entire run			
"				35.59	36.75	1.16				IN	Hard, fining downwards to CLY, DG at lower contact	1.16	FSLT	
"				36.75	36.83	0.08	0.08				Rock loss			
"				36.83	37.11	0.28				MB	Trace marcasite, blocky - coaly zone sampled in hole BSTR 2006-5	0.28	Cd	CZ
6	121 ft / 36.88m	126ft / 38.40m	1.51	37.11	38.58	1.52	0.01				Entire run			
"				37.11	37.49	0.38				SB	Trace marcasite, coaly zone sampled in hole BSTR 2006-5	0.38	Cd	CZ
"				37.49	37.64	0.15		55°		HB	Sheared, contact intact at FW	0.15	HCC	
"				37.64	38.58	0.94		55°		IN	Coarsening downwards to FSLT, hard, MG, a few 1-2mm Cd stringers near upper contact, some fine LG/DG bedding layers visible	0.94	CLY	
7	126ft / 38.40m	131 ft / 39.93m	1.54	38.58	40.10	1.52	Gain .02				Entire run			
"				38.58	39.00	0.42				SO	Hard, MG, mottled appearance to fine LG/DG bands	0.42	FSLT	
"				39.00	40.10	1.10				IN	Fining downwards to softer CLY, DG, massive	1.10	FSLT	
8	131 ft / 39.93m	136 ft / 41.45m	1.57	40.10	41.66	1.52	Gain .05				Entire run			
"				40.10	41.16	1.06				IN	DG, massive	1.06	CLY	
"				41.16	41.26	0.10			000084	IN	DG, massive – D2 HW sample	0.10	CLY	
"				41.26	41.66	0.40		55°	000085	IN	HW contact intact – D2 coal sample 1	0.40	Cd	D2

9	136 ft/ 41.45m	141 ft/ 42.97	1.35	41.66	43.01	1.52	0.17			Entire run			
"				41.66	41.79	0.13		000085	IN	D2 coal sample 1 cont.	0.13	Cd	D2
"				41.79	42.02	0.23		000086	HB	To CC – parting, sheared - D2 parting 1 sample	0.23	HCC	D2
"				42.02	43.01	0.99		000087	IN	D2 coal sample 2	0.99	Cd	D2
10	141 ft/ 42.97	146 ft / 44.5m	1.40	43.01	44.53	1.52	0.12			Entire run			
"				43.01	44.41	1.40		000088	SB	Some soft layers, slightly sheared, in between harder layers – D2 coal sample 3	1.40	Cd	D2
"				44.41	44.53	0.12	0.12			Coal loss			
11	146 ft / 44.5m	151 ft/ 46.02m	1.47	44.53	46.05	1.52	0.05			Entire run			
"				44.53	44.58	0.05	0.05			Coal loss			
"				44.58	45.06	0.48		000089	HB	Sheared flakes – D2 coal sample 4	0.48	Cd	D2
"				45.06	45.26	0.20		000090	HB	Sheared with piece of CLY parting from? - D2 parting 2 sample	0.20	HCC	
"				45.26	45.56	0.30		000091	IN	Parting DG, a few coaly stringers – D2 parting 3 sample	0.30	CC	
"				45.56	45.74	0.18		000092	SB	To Bn heavier – D2 coal sample 5	0.18	Cd	D2
"				45.74	45.84	0.10		000093	IN	D2 FW sample	0.10	CLY	
"				45.84	46.05	0.21			IN	LG massive, soft, broken at FW contact, abundant stick/branch fossils in top 30cm – D2 FW sample	0.21	CLY	
12	151 ft/ 46.02m	156 ft/ 47.55m	1.54	46.05	47.59	1.52	Gain .02			Entire run			
"				46.05	47.07	1.02	60°		SO	LG massive, coarsening downwards to FSLT	1.02	CLY	
"				47.07	47.21	0.14	50°		HB	Sheared zone	0.14	HCC	
"				47.21	47.59	0.38			IN	MG to FSLT, plant fossils at top	0.38	CLY	
13	156 ft/ 47.55m	161 ft/ 49.07	1.60	47.59	49.02	1.52	Gain .08			Entire run			
"				47.59	48.29	0.70	45°		IN	Fining downwards to CLY, wavy LG/DG bedding	0.70	FSLT	
"				48.29	49.19	0.90			SB	DG with a few Cd stringers up to 1 cm with trace marcasite, abundant leaf fossils	0.90	CLY	
										- End of Hole -			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-7  
 Northing: 6083714.15  
 Easting: 629826.48  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: D  
 Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	from	to	Recovered f/m	%	from	to									
												Cased to 1 m.			
												Core point at ( 71') 21.64m below ground level.			
1	71 ft/ 21.64m	76 ft/ 23.16m	1.46		21.76	23.22	1.52	0.06				Entire run			
"					21.76	22.05	0.29				HB	Some good, some boney pieces mixed with small CLY parting (CZ)	0.29	Cd	CZ
"					22.05	23.22	1.17				SO	To CLY, DG, massive, hard, a few Cd bands up to 3mm at top	1.17	FSLT	
2	76 ft/ 23.16m	81 ft/ 24.69m	1.64		23.22	24.74	1.52	Gain .12				Entire run			
"					23.22	23.90	0.68				SO	To CLY, DG, massive, hard, a few Cd bands up to 3mm at top	0.68	FSLT	
"					23.90	24.00	0.10			000094	SO	D2 HW sample	0.10	FSLT	
"					24.00	24.40	0.40			000095	HB	D2 coal sample 1	0.40	Cd	D2
"					24.40	24.49	0.09			000096	SB	D2 parting 1 sample	0.09	CLY	
"					24.49	24.74	0.25			000097	MB	D2 coal sample 2	0.37	Cd	D2
3	81 ft/ 24.69m	86 ft/ 26.21m	1.54		24.74	26.28	1.52	Gain .02				Entire run			
"					24.74	25.84	1.10			000097	SB	Coal is somewhat ground basically intact - D2 coal sample 2 cont. - possible loss of .17m CLY parting	1.10	Cd	D2
"					25.84	26.28	0.44			000098	SB	As above - D2 coal sample 3 - this section of Cd was split into 2 samples for size	0.44	Cd	D2

4	86 ft / 26.21m	91 ft / 27.74m	1.49	26.28	27.77	1.52	0.03			Entire run			
"				26.28	26.58	0.30		000098	MB	Continuation of coal sample 3	0.30	Cd	D2
"				26.58	26.64	0.06		000099	HB	Hard black parting with slightly brown streak, heavy – D2 parting 2 sample	0.06	CC	D2
"				26.64	27.77	1.13		000100	SB	Harder section, a bit heavier (Bn?) - D2 coal sample 4	1.13	Cd	D2
5	91 ft / 27.74m	96 ft / 29.26m	1.38	27.77	29.15	1.52	0.14			Entire run			
"				27.77	28.42	0.65		000100	HB	Good coal, becoming more broken – coal sample 4 cont.	0.65	Cd	D2
"				28.42	28.82	0.40		000101	CR	To HCC sheared – sheared sample	0.40	Cd	D2
"				28.82	29.15	0.33		000102	HB	To HCC dirty with a few pieces of CLY partings up to 3 cm – coal sample 5	0.33	Cd	D2
6	96 ft / 29.26m	101 ft / 30.78m	1.65	29.15	30.80	1.52	Gain.13			Entire run			
"				29.15	29.66	0.51		000102	HB	To HCC as above – coal sample 5 cont.	0.51	Cd	D2
"				29.66	29.76	0.10		000103	SO	10cm FW sample	0.10	CLY	
"				29.76	30.80	1.04			SO	DG coarsening downwards to FSLT, LG massive, plant fossils at FW contact	1.04	CLY	
7	101 ft / 30.78m	106 ft / 32.31m	1.50	30.80	32.30	1.52	0.02			Entire run			
"				30.80	31.29	0.49			SO	Fining downwards to CLY, LG/DG bedding	0.49	FSLT	
"				31.29	32.30	1.01	35°		SO	DG with several Cd and HCC stringers up to 1 cm	1.01	CLY	
8	106 ft / 32.31m	109 ft / 33.22m	0.91	32.30	33.33	1.52	0.00			Entire run			
"				32.30	33.21	0.91	40°		SO	DG with a few coaly stringers/lenses up to 1cm	0.91	CLY	
										- End of Hole -			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Page: 1 of 3

Hole: BSTR-2006-8  
 Northing: 6083722.02  
 Easting: 629837.01  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: D  
 Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Mess. length(m)	Lith Code	Seam	
	from	to	Recovered		from	to										
			ft/m	%												
												<b>Cased to 1 m.</b>				
												<b>Core point at ( 73.5') 22.40m below ground level.</b>				
1	73.5 ft / 22.40m	76 ft / 23.16m		0.79	22.07	22.86	0.78	Gain .03				Entire run				
"					22.07	22.86	0.79			000104	SB	Trace marcasite and blue shiny "peacock" surfaces – one small piece of CGL HW at top of tube (not sampled) D1 coal sample 1	0.79	Cd	D1	
2	76 ft / 23.16m	81 ft / 24.69m		1.55	22.86	24.44	1.52	Gain .03				Entire run				
"					22.86	23.26	0.40			000104	HB	As above, some sheared – D1 coal sample cont.	0.40	Cd	D1	
"					23.26	23.67	0.41			000105	MB	Mixed with approx. 50% 1-3cm CLY and HCC partings – D1 coal sample 2	0.40	Cd	D1	
"					23.67	23.77	0.10			000106	SB	Mixed with Cd, Bn, CC and HCC sections – 10cm D1 FW sample	0.10	CLY		
"					23.77	24.03	0.26				SB	Mixed with Cd, Bn, CC and HCC sections	0.26	CLY		
"					24.03	24.44	0.41		30°		SO	Hard, massive, little detail, slight grit	0.40	CLY		
3	81 ft / 24.69m	86 ft / 26.21m		1.42	24.44	25.9	1.52	0.10				Entire run				
"					24.44	25.21	0.77		30°		IN	As above, trace bedding	0.76	CLY		
"					25.21	25.29	0.08		30°		SB	LG with chert pebbles up to 5mm	0.07	CGL		
"					25.29	25.40	0.11				SO	With mixed pebbles	0.10	CLY		
"					25.40	25.90	0.50		30°		IN	Orange stained, chert pebbles up to 5mm	0.49	CGL		

4	86 ft / 26.21m	91 ft / 27.74m	1.59	25.90	27.52	1.52	Gain .07			Entire run				
"				25.90	26.42	0.52			SB	VB at top with a couple of small CGL pieces	0.51	CLY		
"				26.42	26.51	0.09		25°	SO	LG uneven contacts	0.08	CSST		
"				26.51	27.52	1.01		24°	SO	LG massive, faint bedding	1.00	CLY		
5	91 ft / 27.74m	96 ft / 29.26m	1.52	27.52	29.11	1.52	0.00			Entire run				
"				27.52	27.63	0.11		25-30°	SO	LG, massive	0.10	CLY		
"				27.63	27.73	0.10			SO	Pebbly, uneven contacts	0.09	CLY		
"				27.73	27.89	0.16			SO	To CGL with pebbles up to 5mm	0.15	CSST		
"				27.89	28.36	0.47			SO	Black to white pebbles up to 7mm	0.46	CGL		
"				28.36	28.52	0.16			SB	DG	0.15	CLY		
"				28.52	28.98	0.46			SO	Black to white pebbles up to 7mm and a few white calcareous stringers up to 6mm	0.45	CGL		
"				28.98	29.11	0.13			SO	DG hard	0.12	CLY		
6	96 ft / 29.26m	101 ft / 30.78m	1.47	29.11	30.59	1.52	0.05			Entire run				
"				29.11	30.59	1.48		27°	SO	DG hard, some whitish/grey material on fracture surfaces	1.47	CLY		
7	101 ft / 30.78m	106 ft / 32.31m	1.64	30.59	32.29	1.52	Gain .12			Entire run				
"				30.59	30.90	0.31			IN	DG, hard, massive	0.30	CLY		
"				30.90	31.23	0.33		25°	MB	Good, lightweight, blocky, contacts intact – CZ	0.31	Cd	CZ	
"				31.23	32.29	1.06			SO	Very slight grit, DG, hard, massive, trace mottled bedding, a few fine coaly stringers near upper contact with CZ	1.03	CLY		
8	106 ft / 32.31m	111 ft / 33.83m	1.48	32.29	33.80	1.52	0.04			Entire run				
"				32.29	33.25	0.96			SO	As above	0.96	CLY		
"				33.25	33.35	0.10			000107	SO	As above – 10cm D2 HW sample	0.10	CLY	
"				33.35	33.80	0.45			000108	SB	Good, hard, blocky – D2 coal sample 1	0.45	Cd	D2

9	111 ft / 33.83m	116 ft / 35.36m	1.47	33.80	35.32	1.52	0.05			Entire run			
"				33.80	33.85	0.05	0.05			Rock loss			
"				33.85	33.92	0.07		000109	IN	D2 parting 1 sample	0.07	CLY	
"				33.92	34.95	1.03		000110	MB	Good, blocky, lower 0.32m SO – D2 coal sample 2	1.03	Cd	D2
"				34.95	35.05	0.10		-	CR	Sheared – coal sample 2 cont.	0.10	Cd	D2
"				35.05	35.32	0.27		-	MB	Blocky, some harder, some softer bands – coal sample 2 cont.	0.27	Cd	D2
10	116 ft / 35.36m	121 ft / 36.88m	1.55	35.32	36.87	1.52	0.03			Entire run			
"				35.32	36.24	0.92		000111	MB	Hard, blocky – D2 coal sample 3	0.92	Cd	D2
"				36.24	36.75	0.51		000112	CR	To HCC sheared – D2 coal sample 4	0.51	Cd	D2
"				36.75	36.87	0.12		000113	IN	To CLY, hard parting piece mixed with sheared Cd to HCC flakes and chunks – D2 coal sample 5	0.12	CC	
11	121 ft / 36.88m	126 ft / 38.40	1.61	36.87	38.48	1.52	Gain .09			Entire run			
"				36.87	37.22	0.35		000113	HB	Mixed with solid CLY parting pieces up to 10cm – D2 coal sample 5 cont.	0.35	Cd	
"				37.22	37.32	0.10		000114	SO	D2 FW sample	0.10	CLY	
"				37.32	38.48	1.16	20°		SO	To FSLT LG, massive, hard, - FW contact intact, plant fossils near FW contact, coarsening downwards	1.16	CLY	
12	126 ft / 38.40	131 ft / 39.93	1.32	38.48	39.80	1.52	0.20			Entire run			
"				38.48	38.98	0.50			IN	LG fining downwards to DG CLY	0.50	FSLT	
"				38.98	39.23	0.25			SB	With a few small 1-4 mm Cd bands/stringers	0.25	CLY	
"				39.23	39.40	0.17			HB	Slight shear in places	0.17	CC	
"				39.40	39.80	0.40	27°		IN	With a couple of 1-2mm coaly stringers	0.40	CLY	
										- End of Hole -			



**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-9  
 Northing: 6083657.48  
 Easting: 629840.88  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: E  
 Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam	
	from	to	Recovered		from	to										
			ft/m	%												
												Cased to 1 m.				
												Core point at ( 95' ) 28.95m below ground level.				
1	95 ft / 28.95m	97 ft / 29.56m	0.43		28.97	29.40	0.60	0.17				Entire run – no coal seen in cuttings prior to coring – must be very close to E1 HW				
"					28.97	29.40	0.43			000115	MB	Blocky, good – E1 coal sample 1	0.43	Cd	E1	
2	97 ft / 29.56m	102 ft / 31.09m	1.42		29.40	30.82	1.52	0.10				Entire run				
"					29.40	30.00	0.60			000115	IN	blocky, good – E1 coal sample 1 cont.	0.60	Cd	E1	
"					30.00	30.30	0.30			000116	HB	Mixed with sheared Cd – E coal sample 2	0.30	Bn	E1	
"					30.30	30.82	0.52			000117	IN	Blocky – E coal sample 3	0.52	Cd	E1	
3	102 ft / 31.09m	107 ft / 32.61m	1.55		30.82	32.37	1.52	Gain .03				Entire run				
"					30.82	31.32	0.50			000118	HB	Mixed with CLY partings up to 2cm and slightly sheared Cd – E1 coal sample 4	0.50	Bn	E1	
"					31.32	31.76	0.44			000119	IN	To CLY, DG parting (some Bn at top and bottom) – E parting 1 sample	0.44	CC		
"					31.76	31.96	0.20			000120	HB	To HCC sheared in places – E coal sample 5	0.20	Bn	E2	
"					31.96	32.37	0.41			000121	IN	Mixed with some Bn layers – E coal sample 6	0.41	Cd	E2	

4	107 ft / 32.61m	112 ft / 34.14m	1.63	32.37	34.00	1.52	Gain .11			Entire run			
"				32.37	32.95	0.58		000121	HB	Mixed with a few Bn and sheared layers – E coal sample 6 coal cont.	0.58	Cd	E2
"				32.95	33.05	0.10		000122	SO	10cm E FW sample	0.10	FSLT	
"				33.05	34.00	0.95	40°		SO	LG massive, uneven bedding	0.95	FSLT	
5	112 ft / 34.14m	117 ft / 35.66m	1.50	34.00	35.50	1.52	0.02			Entire run			
"				34.00	34.26	0.26			SO	Fining downwards to DG CLY, massive, hard	0.26	FSLT	
"				34.26	34.37	0.11			IN	DG with 1-3mm calcareous stringers	0.11	CC	
"				34.37	35.50	1.13	38°		SO	Massive, LG, hard, CLY at top, coarsening downwards, good bedding visible LG/DG	1.13	FSLT	
6	117 ft / 35.66m	122 ft / 37.18m	1.53	35.50	37.03	1.52	Gain .01			Entire run			
"				35.50	35.88	0.38			SO	LG, fining downwards to DG CLY at E3 HW contact	0.38	FSLT	
"				35.88	36.57	0.69		000123	HB	Mixed with sheared Cd and HCC. Approx. 0.17m of blocky Cd in centre of seam – E3 sample	0.69	Bn	E3
"				36.57	37.03	0.46			SO	DG, coarsening downwards to FSLT LG	0.46	CLY	
										- End of Hole -			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-10  
 Northing: 6083654.13  
 Easting: 629842.61  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: E  
 Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	Recovered		from	to	ft/m	%									
	from	to													
												Cased to 3 m.			
												Core point at ( 78.5') 23.93m below ground level.			
1	78.5 ft/ 23.93m	81 ft/ 24.69m	0.74		24.02	24.76	0.76	0.02				Entire run			
"					24.02	24.76	0.74		50°		SO	LG massive, frags of fossil/coal laminae + 2mm coaly bed	0.74	CLY	
2	81 ft/ 24.69m	86 ft / 26.21m	1.58		24.76	26.34	1.52	Gain .06				Entire run			
"					24.76	26.34	1.58		52°		SO	LG to MG massive, well bedded, alternating LG/MG layers with abundant coaly laminae on fractures	1.58	CLY	
3	86 ft / 26.21m	91 ft/ 27.74m	1.46		26.34	27.80	1.52	0.06				Entire run			
"					26.34	27.35	1.01				SO	MG, darkening to DG at HW contact with E1 seam	1.01	CLY	
"					27.35	27.45	0.10			000124	SO	10cm E1 HW sample	0.10	CLY	
"					27.45	27.80	0.35			000125	SB	To Bn at HW contact – E1 coal sample 1	0.35	Cd	E1
4	91 ft/ 27.74m	96 ft / 29.26m	1.56		27.80	29.18		Gain .04				Entire run			
"					27.80	28.99	1.19			000125	SB	Some hard, brighter layers, mostly soft, dull – coal sample 1 cont.	1.19	Cd	E1
"					28.99	29.14	0.15			000126	HB	To HCC, mixed section with hard Bn and sheared – coal sample 2	0.29	Bn	E1
"					29.14	29.18	0.04			000127	SB	Harder, blocky, some bright bands – coal sample 3	0.08	Cd	E1

5	96 ft / 29.26m	101 ft / 30.78m	1.49		29.18	30.70	1.52	0.03				Entire run			
"					29.18	29.68	0.50			000127	MB	Blocky with some bright bands – coal sample 3 cont.	0.50	Cd	E1
"					29.68	29.84	0.16			000128	SB	Parting, DG with coaly stringers – E1/E2 parting sample	0.16	CLY	E1
"					29.84	30.22	0.38			000129	SB	To Cd – harder coal (E2 seam) – E coal sample 4	0.38	Bn	E1
"					30.22	30.42	0.20			000130	HB	Sheared zone – HCC sample	0.20	HCC	E1
"					30.42	30.70	0.28			000131	IN	DG with abundant 1-2mm coaly stringers – parting 2 sample	0.25	CLY	
6	101 ft / 30.78m	106 ft / 32.31m	1.53		30.70	32.24	1.52	Gain .01				Entire run			
"					30.70	30.93	0.23			000131	IN	DG as above – Parting 2 sample cont.	0.20	CLY	
"					30.93	31.49	0.56			000132	IN	To Bn, hard with a few sheared layers near top of section, some bright, blocky – coal sample 5	0.58	Cd	E2
"					31.49	31.72	0.23			000133	HB	With a few Cd layers mixed in – coal sample 6	0.23	Bn	E2
"					31.72	32.14	0.42			000134	CR	To HCC, sheared to FW contact – coal sample 7	0.42	Cd	E2
"					32.14	32.24	0.10			000135	IN	DG with tiny Cd stringers and laminae – 10 cm E FW sample	0.10	CLY	
7	106 ft / 32.31m	111 ft / 33.83m	1.55		32.24	33.79	1.52	Gain .03				Entire run			
"					32.24	33.14	0.90				SO	DG, coarsening downwards to FSLT, LG, mottled, uneven bedding, then fining downwards	0.90	CLY	
"					33.14	33.79	0.65				IN	MG with a few calcareous stringers up to 3mm, CC on fracture surfaces	0.65	CLY	
8	111 ft / 33.83m	116 ft / 35.36m	1.59		33.79	35.38	1.52	Gain .07				Entire run			
"					33.79	34.33	0.54				SO	LG/MG uneven layers, with a few 1-2mm calcareous stringers	0.54	CLY	
"					34.33	35.03	0.70		40°		SO	LG well bedded	0.70	CLY	
"					35.03	35.38	0.35		40°		IN	DG with abundant coaly stringers and laminae	0.35	CLY	
												- End of Hole -			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-11  
 Northing: 6083618.12  
 Easting: 629866.11  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: F  
 Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	from	to	Recovered		from	to									
			ft/m	%											
												Cased to 5.5 m.			
												Core point at ( 89.5') 27.28m below ground level.			
1	89.5 ft / 27.28m	91 ft / 27.74m	0.47		27.57	28.03	0.46	Gain .01				Entire run			
"					27.57	27.64	0.07		40°		SO	LG/MG fine bedding, cross bedded with lower unit	0.07	FSLT	
"					27.64	28.03	0.39		55°		SO	To CSLT, LG/MG fine bedding, a few coaly stringers along bedding up to 2mm, fining downwards	0.39	MSLT	
2	91 ft / 27.74m	96 ft / 29.26m	1.54		28.03	29.57	1.52	Gain .02				Entire run			
"					28.03	29.57	1.54		60°		SO	MG to DG massive, bedding not as obvious, a few coaly laminae, fining downwards	1.54	CLY	
3	96 ft / 29.26m	101 ft / 30.78m	1.51		29.57	31.06	1.52	0.01				Entire run			
"					29.57	29.90	0.33				SO	DG with abundant coaly laminae	0.33	CLY	
"					29.90	30.05	0.15				SB	Some bright and hard with visible plant and mixed CLY lenses, trace marcasite	0.15	Cd	
"					30.05	31.06	1.01				SO	DG with a few Cd to Cb stringers up to 1 cm	1.01	CLY	
4	101 ft / 30.78m	106 ft / 32.31m	1.56		31.06	32.62	1.52	Gain .04				Entire run			
"					31.06	32.62	1.56		60°		SO	DG with some lighter bedding and few coaly laminae, hard	1.56	CLY	

5	106 ft / 32.31m	111 ft / 33.83m	1.46	32.62	34.08	1.52	0.06				Entire run			
"				32.62	34.08	1.46	50°		SO	Well bedded with alternating LG/DG layers usually 0.5-2cm thick, few coaly laminae	1.46	CLY		
6	111 ft / 33.83m	116 ft / 35.36m	1.53	34.08	35.61	1.52	Gain .01				Entire run			
"				34.08	35.61	1.53			SO	As above	1.53	CLY		
7	116 ft / 35.36m	121 ft / 36.88m	1.54	35.61	37.15	1.52	Gain .02				Entire run			
"				35.61	37.15	1.54			SO	DG a few more coaly laminae and harder, a few leaf fossils	1.54	CLY		
8	121 ft / 36.88m	126 ft / 38.40m	1.55	37.15	38.70	1.52	Gain .03				Entire run			
"				37.15	38.70	1.55	40°		SO	LG/MG alternating layers, massive, hard, a few Cd stringers up to 1cm and fossil leaves	1.55	CLY		
9	126 ft / 38.40m	131 ft / 39.93m	1.51	38.70	40.21	1.52	0.01				Entire run			
"				38.70	39.20	0.50			SO	As above	0.50	CLY		
"				39.20	39.30	0.10		000136	SO	10cm F HW sample	0.10	CLY		
"				39.30	39.64	0.34		000137	SB	To HCC sheared – F coal sample 1	0.34	Cd	F	
"				39.64	39.85	0.21		000138	IN	To CC hard – F coal sample 2	0.21	Bn	F	
"				39.85	40.21	0.36		000139	MB	Blocky, some bright bands – F coal sample 3	0.36	Cd	F	

10	131 ft / 39.93m	136 ft / 41.45m	1.48	40.21	41.69	1.52	0.04			Entire run			
"				40.21	41.69	1.48		000139	LN	Some bright bands, some soft, but mostly blocky and good quality – coal sample 3 cont.	1.48	Cd	F
11	136 ft / 41.45m	141 ft / 42.97m	1.42	41.69	43.11	1.52	0.10			Entire run			
"				41.69	42.04	0.35		000140	SB	blocky, some bright bands – F coal sample 4	0.35	Cd	F
"				42.04	43.04	1.00		000141	SB	To HCC sheared flakes – F coal sample 5	1.00	Cd	F
"				43.04	43.11	0.07		000142	SB	FW (?) DG abundant coaly laminae/stringers – 7cm F FW sample	0.07	CLY	
12	141 ft / 42.97m	146 ft / 44.50m	1.52	43.11	44.63	1.52	0.00			Entire run			
"				43.11	43.38	0.27		000142	SB	DG abundant coaly laminae – F FW sample cont.	0.27	CLY	
"				43.38	43.61	0.23			HB	Slightly sheared	0.23	CC	
"				43.61	44.63	1.02	50°		SO	LG/MG bedding, CLY at top, coarsening downwards	1.02	FSLT	
13	146 ft / 44.50m	149 ft / 45.41m	0.90	44.63	45.53	1.52	0.01			Entire run			
"				44.63	45.53	0.90	50°		SO	Well laminated LG/MG alternating	0.90	FSLT	
										- End of Hole -			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-12

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Northing: 6083615.684

Hole Orientation: Vertical

Easting: 629864.434

Seam: F

UTM System: NAD 83

Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	from	to	Recovered ft/m	%	from	to									
												Cased to 5 m.			
												Core point at ( 117') 35.66m below ground level.			
1	117 ft / 35.66m	121 ft / 36.88m	1.18		35.77	36.95	1.22	0.04				Entire run			
"					35.77	36.15	0.38			000143	HB	Boney section with some Cd to Cb bands – F-bone sample	0.38	Bn	F
"					36.15	36.95	0.80			000144	SB	Blocky, some bright bands – F coal sample 1	0.80	Cd	F
2	121 ft / 36.88m	126 ft / 38.40m	1.48		36.95	38.43	1.52	0.04				Entire run			
"					36.95	38.43	1.48			000145	SB	With bright sections, blocky, good – F coal sample 2	1.48	Cd	F
3	126 ft / 38.40m	131 ft / 39.93m	1.45		38.43	39.88	1.52	0.07				Entire run			
"					38.43	38.49	0.06			000145	HB	Blocky, as above – F coal sample 2 cont.	0.06	Cd	F
"					38.49	38.79	0.30			000146	CR	Sheared, slight brown streak, flakes – F coal sample 3	0.30	HCC	F
"					38.79	38.96	0.17			"	HB	Hard, dull, heavier – F coal sample 3 cont.	0.17	Bn	F
"					38.96	39.38	0.42			"	CR	With some Bn and Cd mixed – F coal sample 3 cont.	0.42	HCC	F
"					39.38	39.48	0.10			000147	SB	DG with abundant coaly stringers and laminae – 10cm F FW sample	0.10	CLY	
"					39.48	39.88	0.40				SB	DG with abundant coaly stringers and laminae	0.40	CLY	
4	131 ft / 39.93m	136 ft / 41.45m	1.55		39.88	41.43	1.52	Gain .03				Entire run			
"					39.88	41.43	1.55		50°		SO	Alternating LG/DG layers, some very wavy bedding to mottled appearance	1.55	FSLT	
5	136 ft / 41.45m	141 ft / 42.97m	1.56		41.43	42.99	1.52	Gain .04				Entire run			
"					41.43	42.99	1.56		50°		SO	To MSLT LG/DG finely bedded, massive	1.56	FSLT	
												- End of Hole -			



**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-13  
 Northing: 6083580.47  
 Easting: 630229.6  
 UTM System: NAD 83

Page: 1 of 2

Hole Orientation: Vertical  
 Seam: F  
 Logged by: DT

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam	
	Recovered		from	to	ft/m	%										
	from	to														
												Cased to 3 m.				
												Core point at ( 98.5') 30.02m below ground level.				
1	98.5 ft / 30.02m	102 ft / 31.09m		1.15	30.10	31.25	1.06	Gain .09				Entire run				
"					30.10	31.25	1.15		58°		SB	DG, soft, some orange staining, faint bedding	1.15	CLY		
2	102 ft / 31.09m	107 ft / 32.61m		1.45	31.25	32.77	1.52	0.07				Entire run				
"					31.25	31.38	0.13				HB	DG, soft	0.13	CLY		
"					31.38	31.48	0.10			000148	HB	DG, soft, 10cm F HW sample	0.10	CLY		
"					31.48	31.86	0.38			000149	HB	To HCC sheared – F coal sample 1	0.38	Cd	F	
"					31.86	31.93	0.07	0.07				Coal loss				F
"					31.93	32.03	0.10			-	IN	F coal sample 1 cont.	0.10	Bn	F	
"					32.03	32.77	0.74			000150	IN	Hard, blocky – F coal sample 2	0.74	Cd	F	
3	107 ft / 32.61m	112 ft / 34.14m		1.38	32.77	34.29	1.52	0.14				Entire run				
"					32.77	32.91	0.14	0.14				Coal loss				F
"					32.91	34.29	1.38			000151	HB	Some blocky, some very wet, soft, slight shear in places – F coal sample 3	1.38	Cd	F	

4	112 ft / 34.14m	117 ft / 35.66m	1.45		34.29	35.74	1.52	0.07				Entire run			
"					34.29	34.59	0.30			000151	HB	Blocky – F coal sample 3 cont.	0.30	Cd	F
"					34.59	35.09	0.50			000152	HB	To HCC sheared with some Bn bands and trace marcasite – F coal sample 4	0.50	Cd	F
"					35.09	35.19	0.10			000153	IN	DG with a few coaly stringers near FW contact, coarsening down to CSLT LG – 10cm F FW sample	0.10	CLY	
"					35.19	35.74	0.55		56°		IN	DG with a few coaly stringers near FW contact, coarsening down to CSLT LG	0.55	CLY	
5	117 ft / 35.66m	122 ft / 37.18m	1.36		35.74	37.26	1.52	0.16				Entire run			
"					35.74	35.98	0.24		54°		SO	To CSLT LG	0.24	FSST	
"					35.98	36.58	0.60				MB	LG very soft, some HB sections	0.60	CLY	
"					36.58	37.10	0.52				HB	LG, soft and broken, some mud – loss area	0.52	CLY	
"					37.10	37.26	0.16	0.16				Rock loss			
6	122 ft / 37.18m	127 ft / 38.71m	1.58		37.26	38.84	1.52	Gain .06				Entire run			
"					37.26	37.35	0.09				HB	As above	0.09	CLY	
"					37.35	38.84	1.49		53°		SO	LG/MG banding, massive, hard	1.49	FSLT	
												- End of Hole -			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-14  
 Northing: 6083412.99  
 Easting: 630523.35  
 UTM System: NAD 83

Page: 1 of 3

Hole Orientation: Vertical  
 Seam: G/J 9 inch core  
 Logged by: DT Sept. 25/06

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	Recovered		from	to											
	from	to													
												<b>Cased to 2 m.</b>			
												<b>Core point at ( 167') 50.90m below ground level.</b>			
1	167 ft / 50.90m	171 ft / 52.12m	1.06		51.18	52.24	1.22	0.16				Entire run			
"					51.18	51.55	0.37				IN	DG with abundant coaly laminae and stringers up to 2mm	0.37	CLY	
"					51.55	51.65	0.10			000154	IN	DG with abundant coaly laminae and stringers up to 2mm (10cm G HW sample)	0.10	CLY	
"					51.65	52.24	0.59		60°	000155	HB	Intact contact, slightly sheared in places, a few bright bands, some possible HCC mixed – G coal sample 1	0.59	Cd	G
2	171 ft / 52.12m	176 ft / 53.64m	1.36		52.24	53.60	1.52	0.16				Entire run			
"					52.24	52.74	0.50		60°	000156	IN	Good, hard, blocky, with abundant bright bands, G coal sample 2	0.50	Cdab	G
"					52.74	53.14	0.40			000157	IN	As above – G coal sample 3	0.40	Cdab	G
"					53.14	53.60	0.46			000158	IN	As above – G coal sample 4	0.46	Cdab	G
3	176 ft / 53.64m	181 ft / 55.17m	1.67		53.60	55.27	1.52	Gain +0.15				Entire run			
"					53.60	54.10	0.50			000159	IN	As above – G coal sample 5	0.50	Cd	G
"					54.10	54.67	0.57			000160	IN	Some slightly sheared and bright bands – G coal sample 6	0.57	Cd	G
"					54.67	55.27	0.60			000161	IN	Harder, some Bn bands – G coal sample 7	0.60	Cd	G

4	181 ft / 55.17m	187 ft / 56.99m	1.79	55.27	57.06	1.83	0.04				Entire run			
"				55.27	55.83	0.56		000162	SB		Some bright bands, good, blocky – G coal sample 8	0.56	Cd	G
"				55.83	56.39	0.56		000163	IN		As above – G coal sample 9	0.56	Cd	G
"				56.39	56.97	0.58		000164	IN		As above – G coal sample 10	0.58	Cd	G
"				56.97	57.06	0.09		000165	SB		DG to black CC, some Bn – G parting sample 1	0.09	CLY	
5	187 ft / 56.99m	192 ft / 58.52m	0.32	57.06	58.58	1.52	1.20				Entire run			
"				57.06	57.18	0.12		000165	SB		DG, G parting sample 1 cont.	0.12	CLY	
"				57.18	57.38	0.20		000166	CR		To Cd, sheared, polished flakes – loss area – G coal sample 11	0.20	HCC	!
"				57.38	58.58	1.20	1.20				Coal loss			
6	192 ft / 58.52m	197 ft / 60.04m	0.10	58.58	59.26	1.52	1.42				Entire run			
"				58.58	59.16	0.58	0.58				Coal loss			
"				59.16	59.26	0.10		000167	SB		Mixed with coaly stringers – G FW sample	0.10	CLY	
7	197 ft / 60.04m	202 ft / 61.57m	2.36	59.26	61.62	1.52	Gain +0.84				Entire run			
"				59.26	59.69	0.43		000167	CR		Ground from previous 2 runs, mixed with small pieces of sheared HCC - G FW sample cont.	0.43	CLY	
"				59.69	61.62	1.93			IN		Massive, hard, DG with abundant coaly laminae and Cd stringers up to 1.2 cm	1.93	CLY	
8	202 ft / 61.57m	208 ft / 63.40m	1.76	61.62	63.38	1.83	0.07				Entire run			
"				61.62	63.38	1.76	60°		SO		Massive, hard Dg to MG, some alternating bands	1.76	CLY	

9	208 ft / 63.40m	213 ft / 64.92m	1.47	63.38	64.85	1.52	0.05				Entire run			
"				63.38	64.85	1.47				IN	MG massive, some darker bands, some broken and ground, a few coaly laminae and thin (1mm) white, calcareous stringers	1.47	CLY	
10	213 ft / 64.92m	223 ft / 67.97m	2.54	64.85	67.91	3.04	0.50				Entire run			
"				64.85	65.55	0.70	60°			SO	DG with abundant coaly stringers near HW contact, contact intact	0.70	CLY	
"				65.55	65.65	0.10		000168		SO	DG with abundant coaly stringers near HW contact, contact intact – J HW sample (10cm)	0.10	CLY	
"				65.65	66.42	0.77		000169		IN	Good, hard, blocky coal – J coal sample 1	0.77	Cd	J
"				66.42	67.19	0.77		000170		IN	Good, hard, blocky coal – J coal sample 2	0.77	Cd	J
"				67.19	67.41	0.22		000171		CR	Sheared zone, ground coal – loss area – J coal sample 3	0.22	Cd	J
"				67.41	67.91	0.50	0.50				Coal loss			
11	223 ft / 67.97m	233 ft / 71.01m	0.00	67.91	70.95	3.04	3.04				Entire run lost			
"				67.91	70.95	3.04	3.04				Coal loss	3.04?		J
12	233 ft / 71.01m	238 ft / 72.54m	1.45	70.95	72.40	1.52	0.07				Entire run			
"				70.95	71.69	0.74		000172		HB	Good, blocky, some ground particles from last run – J coal sample 4	0.74	Cd	J
"				71.69	72.11	0.42	60°	000173		SB	DG with abundant coaly laminae, contact intact – J parting sample 1	0.42	CLY	J
"				72.11	72.40	0.29		000174		HB	Broken and crushed core, mixed with HCC and CC particles – J coal sample 5	0.29	Cd	J
13	238 ft / 72.54m	239.5 ft / 73.00m	0.45	72.40	72.85	0.45	0.00							
"				72.40	72.85	0.45				SB	To CC, abundant coaly laminae	0.45	CLY	
											- End of Hole – hole stopped @ 239.5 ft/ 73.00m due to excessive J seam loss			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-15  
 Northing: 6083385.74  
 Easting: 630083.18  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: G/J 6 inch core  
 Logged by: DT Sept. 29/06

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Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam	
	from	to	Recovered		from	to										
			ft/m	%												
												Cased to 4 m.				
												Core point at ( 77.5') 23.6m below ground level.				
1	77.5 ft / 23.6m	80 ft / 24.38m	0.00		21.99	22.69	0.70	0.70				Entire run lost				
"					21.99	22.48	0.49	0.49				Rock loss	0.49			
"					22.48	22.69	0.21	0.21				Coal loss	0.21		G	
2	80 ft / 24.38m	85 ft / 25.91m	1.14		22.69	24.21	1.52	0.38				Entire run				
"					22.69	23.07	0.38	0.38				Coal loss				G
"					23.07	23.84	0.77			000175	CR	+ Bn (at top) sheared flakes and boney chunks – G HW sample	0.77	HCC		G
"					23.84	24.21	0.37			000176	SB	Good, hard, blocky, some slight shear – G coal sample 1	0.37	Cd		G
3	85 ft / 25.91m	90 ft / 27.43m	0.93		24.21	25.73	1.52	0.59				Entire run				
"					24.21	24.80	0.59	0.59				Coal loss				
"					24.80	25.73	0.93			000176	HB	Some slight shear – G coal sample 1 cont.	0.93	Cd		G
4	90 ft / 27.43m	95 ft / 28.95m	0.65		25.73	27.25	1.52	0.87				Entire run				
"					25.73	26.60	0.87	0.87				Coal loss				G
"					26.60	26.70	0.10			000177	HB	DG with abundant coaly laminae, hard, no coal in section – 10cm G FW sample	0.10	CLY		
"					26.70	27.25	0.55				HB	DG with abundant coaly laminae, hard, no coal in section	0.55	CLY		

5	95 ft / 28.95m	100 ft / 30.45m	1.25	27.25	28.77	1.52	0.27				Entire run			
"				27.25	27.30	0.05			HB		To CC, DG to black	0.05	CLY	
"				27.30	27.57	0.27	0.27				Coal loss			
"				27.57	27.87	0.30			CR		To Bn sheared flakes with Bn chunks	0.30	HCC	
"				27.87	28.77	0.90			SB		MG, soft, with abundant coaly stringers and laminae	0.90	CLY	
6	100 ft / 30.45m	105 ft / 32.00m	0.75	28.77	30.29	1.52	0.77				Entire run			
"				28.77	29.42	0.65			IN		DG with abundant coaly laminae and stringers	0.65	CLY	
"				29.42	29.52	0.10		000178	CR		To Bn, HCC sample	0.10	HCC	
"				29.52	30.29	0.77	0.77				Rock and coal loss			
7	105 ft / 32.00m	110 ft / 33.53m	1.16	30.29	31.81	1.52	0.36				Entire run			
"				30.29	31.45	1.16		000178	CR		To Bn - Bn chunks mixed with sheared HCC - HCC sample cont.	1.16	HCC	J
"				31.45	31.81	0.36	0.36				Coal loss			J
8	110 ft / 33.53m	115 ft / 35.05m	0.00	31.81	33.33	1.52	1.52				Entire run lost			
"				31.81	33.33	1.52	1.52				Coal loss	1.52		J
9	115 ft / 35.05m	120 ft / 36.57m	1.39	33.33	34.85	1.52	0.13				Entire run			
"				33.33	34.72	1.39		000179	CR		With Bn chunks, some blocks of good coal, some powdered - J coal sample 1	1.39	Cd	J
"				34.72	34.85	0.13	0.13				Coal loss			J
10	120 ft / 36.57m	125 ft / 38.10m	0.00	34.85	36.37	1.52	1.52				Entire run lost			
"				34.85	36.37	1.52	1.52				Coal loss	1.52		J

11	125 ft / 38.10m	130 ft / 39.62m	0.59	36.37	37.89	1.52	0.93			Entire run			
"				36.37	36.96	0.59		000180	PW	Sheared, with a few Bn fragments – J coal sample 2	0.59	Cd	J
"				36.96	37.89	0.93	0.93			Coal loss			J
12	130 ft / 39.62m	140 ft / 42.67m	1.61	37.89	40.93	3.04	1.43			Entire run			
"				37.89	39.32	1.43	1.43			Coal loss			J
"				39.32	40.02	0.70		000181	PW	With a few Bn particles – J coal sample 3	0.70	Cd	J
"				40.02	40.93	0.91		000182	CR	Becoming harder, more blocky – J coal sample 4	0.91	Cd	J
13	140 ft / 42.67m	145 ft / 44.19m	1.11	40.93	42.45	1.52	0.41			Entire run			
"				40.93	42.04	1.11		000183	CR	Some good blocky pieces mixed with sheared powdered flakes – J coal sample 5	1.11	Cd	J
"				42.04	42.45	0.41	0.41			Coal loss			J
14	145 ft / 44.19m	150 ft / 45.72m	1.54	42.45	43.99	1.52	Gain +0.02			Entire run			
"				42.45	42.86	0.41		000184	CR	To HB – blocky coal – J coal sample 6	0.41	Cd	J
"				42.86	42.96	0.10		000185	SO	DG sharp contact with J seam, abundant coaly laminae top 1m, coarsening downwards to FSLT – 10 cm J FW sample	0.10	CLY	
"				42.96	43.99	1.03	45°		SO	DG sharp contact with J seam, abundant coaly laminae top 1m, coarsening downwards to FSLT	1.03	CLY	
15	150 ft / 45.72m	155 ft / 47.24m	1.40	43.99	45.39	1.52	0.12			Entire run			
"				43.99	45.39	1.40	60°		SO	DG/MG alternating bands, well bedded, abundant leafy plant fossils/ coaly laminae	1.40	CLY	
										- End of Hole -			



**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-16  
 Northing: 6083396.36  
 Easting: 630078.93  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: G/J 6 inch core  
 Logged by: DT Oct 1/06

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	from	to	ft/m	%	from	to									
												Cased to 3 m.			
												Core point at ( 105') 32m below ground level.			
1	105 ft / 32.00m	111 ft / 33.83m	1.40		31.75	33.98	1.83	0.43				Entire run			
"					31.75	32.58	0.83					Coal loss			
"					32.58	32.88	0.30			000186	CR	To Cd sheared, G HW sample	0.30	HCC	G
"					32.88	33.73	0.85			000187	CR	Small blocky chunks of good coal mixed with sheared – G coal sample 1	0.85	Cdab	G
"					33.73	33.98	0.25			000188	IN	To Cd, solid, blocky chunks, harder – G coal sample 2	0.25	Bn	G
2	111 ft / 33.83m	116 ft / 35.36m	1.30		33.98	35.50	1.52	0.22				Entire run			
"					33.98	34.35	0.37			000188	IN	As above – G coal sample 2 cont.	0.37	Bn	G
"					34.35	34.57	0.22	0.22				Coal loss			G
"					34.57	34.91	0.34			000189	CR	Mixed with Bn and CC – G HCC sample (FW?)	0.34	HCC	
"					34.91	35.50	0.59		40°		SO	DG, hard, some coaly stringers and laminae	0.59	CLY	
3	116 ft / 35.36m	121 ft / 36.88m	1.55		35.50	37.05	1.52	Gain +.03				Entire run			
"					35.50	37.05	1.55		40°		SO	MG with coaly laminae and plant fossils	1.55	CLY	
4	121 ft / 36.88m	127 ft / 38.71m	1.35		37.05	40.36	1.83	0.48				Entire run			
"					37.05	37.23	0.18				SO	DG with coaly laminae/fossils	0.18	CLY	
"					37.23	37.33	0.10			000190	SO	DG with coaly laminae/fossils – 10cm J HW sample	0.10	CLY	
"					37.33	38.40	1.07			000191	CR	A few Bn pieces at top – J coal sample 1	1.07	Cd	J
"					38.40	38.88	0.48	0.48				Coal loss			J

5	127 ft / 38.71m	133.5 ft / 40.69m	0.50	40.36	41.50	1.98	1.48			Entire run			
"				38.88	40.36	1.48	1.48			Coal loss			J
"				40.36	40.86	0.50		000192	HB	To CR, some sheared, some blocky and bright – J coal sample 2	0.50	Cd	J
6	133.5 ft / 40.69m	141 ft / 42.97m	1.65	41.50	43.15	2.29	0.64			Entire run			
"				40.86	41.50	0.64	0.64			Coal loss			J
"				41.50	42.45	0.95		000192	CR	Some good blocky pieces mixed with sheared and CR – J coal sample 2 cont.	0.95	Cdab	J
"				42.45	43.15	0.70		000193	SB	Undisturbed coal, well layered, very fragile – J coal sample 3	0.70	Cdab	J
7	141 ft / 42.97m	146 ft / 44.50m	1.64	43.15	44.67	1.52	Gain +0.12			Entire run			
"				43.15	43.57	0.42		000193	HB	Slightly sheared – mostly large blocks up to 10cm, J coal sample 3 cont.	0.54	Cdab	J
"				43.57	43.67	0.10		000194	SO	DG abundant coaly laminae – 10cm J FW sample	0.10	CLY	
"				43.67	44.19	0.52			SO	DG abundant coaly laminae	0.52	CLY	
"				44.19	44.29	0.10			CR	Sheared flakes, some mixed Cd	0.10	HCC	
"				44.29	44.67	0.38	60°		SO	LG a few coaly laminae, coarsening downwards	0.38	FSLT	
8	146 ft / 44.50m	151 ft / 46.02m	1.49	44.67	46.16	1.52	0.03			Entire run			
"				44.67	45.99	1.32	60°		SO	To CSLT, a few coaly laminae parallel to bedding, trace white calcareous stringers (1-2mm)	1.32	MSLT	
"				45.99	46.16	0.17			HB	To CC slightly sheared flakes and chunks	0.17	HCC	
9	151 ft / 46.02m	156 ft / 47.55m	1.34	46.16	47.68	1.52	0.18			Entire run			
"				46.16	46.33	0.17			HB	To CC	0.17	HCC	
"				46.33	46.93	0.60			SO	To CLY, DG to black, abundant coaly laminae	0.60	CC	
"				46.93	47.03	0.10		000195	SO	To CLY, DG to black, abundant coaly laminae – 10cm J2 HW sample	0.10	CC	
"				47.03	47.50	0.47		000196	CR	To HCC, sheared flakes, black streak – J2 coal sample 1	0.47	Cd	J2
"				47.50	47.68	0.18	0.18			Coal loss			J2

10	156 ft / 47.55m	163 ft / 49.68m	1.62	47.68	49.81	2.13	0.51			Entire run			
"				47.68	48.49	0.81		000197	CR	Some hard, blocky with bright bands, some sheared – J2 Coal sample 2	0.81	Cd	J2
"				48.49	49.30	0.81		000198	CR	As above – J2 coal sample 3	0.81	Cd	J2
"				49.30	49.81	0.51	0.51			Coal loss			J2
11	163 ft / 49.68m	168 ft / 51.20m	0.67	49.81	51.33	1.52	0.85			Entire run			
"				49.81	50.48	0.67		000198	CR	To HB, some solid chunks, mostly sheared Cd – J2 coal sample 3 cont.	0.67	Cd	J2
"				50.48	51.33	0.85	0.85			Coal loss			J2
12	168 ft / 51.20m	174 ft / 53.03m	0.00	51.33	53.16	1.83	1.83			Entire run lost			
"				51.33	53.16	1.83	1.83			Coal loss	1.83		J2
13	174 ft / 53.03m	179 ft / 54.56m	1.59	53.16	54.68	1.52	Gain 0.07			Entire run			
"				53.16	53.48	0.32		000198	CR	Sheared, J2 coal sample 3 cont.	0.39	Cd	J2
"				53.48	53.58	0.10		000199	SO	DG, coarsening downwards to LG FSLT, mostly Bn at contact – J2 FW sample	0.10	CLY	
"				53.58	54.68	1.10			40°	DG, coarsening downwards to LG FSLT, mostly Bn at contact	1.10	CLY	
14	179 ft / 54.56m	184 ft / 56.08m	1.42			1.52	0.10			Entire run			
"				54.68	56.10	1.42			60°	MG/LG alternating bands with a few coaly laminae and stringers up to 2mm	1.42	FSLT	
										- End of Hole -			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-17  
 Northing: 6083416.37  
 Easting: 630551.27  
 UTM System: NAD 83

Page: 1 of 3

Hole Orientation: Vertical  
 Seam: G/J 6 inch core  
 Logged by: DT Oct 3/06

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	Recovered		from	to	ft/m	%									
	from	to													
												Cased to 5 m.			
												Core point at ( 81') 24.69m below ground level.			
1	81 ft / 24.69m	86 ft / 26.21m		0.71	24.45	25.97	1.52	0.81				Entire run			
"					24.45	25.26	0.81	0.81				Coal loss			G
"					25.26	25.50	0.24		000200	CR		+ Cd sheared flakes, 2 small pieces of CLY HW – G coal sample 1 (0.24m)	0.24	HCC	G
"					25.50	25.97	0.47		000201	CR		Good blocky coal, but crushed – G coal sample 2	0.47	Cd	G
2	86 ft / 26.21m	91 ft / 27.74m		1.10	25.97	27.49	1.52	0.42				Entire run			
"					25.97	26.39	0.42	0.42				Coal loss			G
"					26.39	26.74	0.35		000201	CR		Some good larger blocks, a few Bn pieces – G coal sample 2 cont.	0.35	Cd	G
"					26.74	27.49	0.75		000202	HB		Good, blocky, a few bright bands – G coal sample 3	0.75	Cd	G
3	91 ft / 27.74m	98 ft / 29.87m		1.47	27.49	29.87	2.13	0.66				Entire run			
"					27.49	28.15	0.66	0.66				Coal loss			G
"					28.15	28.73	0.58		000202	CR		As above – G coal sample 3 cont.	0.58	Cd	G
"					28.73	29.72	0.99		000203	CR		To HCC, with a few pieces of CLY parting	0.74	CC	
"					29.72	29.87	0.15		000203	CR		To HCC, mixed zone with good coal	0.15	Cd	

4	98 ft / 29.87m	103.5 ft / 31.55m	1.66	29.87	31.53	1.68	0.02			Entire run			
"				29.87	31.53	1.66		50-60°	IN	Interseam, DG with a few 5-10mm coaly stringers, some at 50° to core normal	1.66	CLY	
5	103.5 ft / 31.55m	108.5 ft / 33.07m	0.90	31.53	33.28	1.52	0.85			Entire run			
"				31.53	31.76	0.23	0.23			Rock Loss		CLY	
"				31.76	31.86	0.10		000204	HB	With some HCC flakes – J HW sample	0.10	CLY	
"				31.86	32.11	0.25		000205	CR	Some bright bands and blocks – J coal sample 1	0.25	Cdab	J
"				32.11	32.56	0.45		000205	CR	Boney chunks with HCC flakes – J coal sample 1 cont.	0.45	Bn	J
"				32.56	33.18	0.62	0.62			Coal loss			
"				33.18	33.28	0.10		000205	CR	Crushed coal – J coal sample 1 cont.	0.10	Cd	J
6	108.5 ft / 33.07m	115.5 ft / 35.20m	1.68	33.28	35.41	2.13	0.45			Entire run			
"				33.28	33.73	0.45	0.45			Coal loss			J
"				33.73	35.41	1.68		000206	CR	To HB, some bright bands, a few Bn pieces, some sheared Cd – J coal sample 2	1.68	Cd	J
7	115.5 ft / 35.20m	122.5 ft / 37.34m	1.70	35.41	37.54	2.13	0.43			Entire run			
"				35.41	35.84	0.43	0.43			Coal loss			J
"				35.84	37.54	1.70		000207	HB	Mostly good coal, a few boney, harder pieces – J coal sample 3	1.70	Cd	J
8	122.5 ft / 37.34m	128.5 ft / 39.16m	1.26	37.54	39.37	1.83	0.57			Entire run			
"				37.54	38.11	0.57	0.57			Coal loss			J
"				38.11	39.37	1.26		000208	HB	Good blocky chunks – J coal sample 4	1.26	Cd	J

9	128.5 ft / 39.16m	134.5 ft / 40.99m	1.69	39.37	41.06	1.83	0.14				Entire run			
"				39.37	41.06	1.69			000209	HB	As above -- J coal sample 5	1.69	Cd	J
10	134.5 ft / 40.99m	139.5 ft / 42.52m	1.69	41.06	42.75	1.52	Gain +0.17				Entire run			
"				41.06	41.40	0.34			000209	HB	as above -- J coal sample 5 cont.	0.34	Cd	J
"				41.40	41.50	0.10			000210	IN	To CC, black streak, heavy, hard -- J FW sample	0.10	Bn	J
"				41.50	42.75	1.25				SO	DG, abundant coaly laminae and a few small stringers, coarsening downwards to FSLT	1.25	CLY	
11	139.5 ft / 42.52m	144.5 ft / 44.04m	1.57	42.75	44.32	1.52	Gain +0.05				Entire run			
"				42.75	44.32	1.57		50-60°		SO	To CLY, alternating LG/MG beds, a few coaly stringers up to 1cm and abundant coaly plant fossil laminae	1.57	FSLT	
											End of Hole			

**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-18  
 Northing: 6083966.070  
 Easting: 629755.525  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: G/J 9 inch core  
 Logged by: DT Oct 25-31/06

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	Recovered		from	to	from	to									
	from	to													
												Cased to 4 m.			
												Core point at 27.5 m below ground level.			
1	27.5	30.5	1.87		26.84	29.88	3.04	1.17				Entire run			
"					26.84	27.22	0.38	0.38				Coal and rock loss			G
"					27.22	27.32	0.10			000211	HB	HW broken pieces of SST to FSLT, ground – G HW sample	0.10	FSLT	
"					27.32	28.11	0.79	0.79				Coal loss			G
"					28.11	28.61	0.50			000212	CR	To HCC sheared flakes – G coal sample 1	0.50	Cd	G
"					28.61	29.31	0.70			000213	IN/SB	Good, blocky coal – G coal sample 2	0.70	Cd	G
"					29.31	29.88	0.57			000214	SB	As above, one 0.01m CLY parting @ 0.50m from top of this 0.57m section – G coal sample 3	0.57	Cd	G
2	30.5	33.5	1.97		29.88	32.92	3.04	1.07				Entire run			
												Entire section is broken and mixed, difficult to see detail due to heavy snowfall, measurements are very approximate			
"					29.88	30.80	0.92	0.92				Coal loss			
"					30.80	30.90	0.10			000215	HB	Most pieces are CLY – G parting 1 sample	0.10	CLY	
"					30.90	31.05	0.15	0.15				Coal loss			
"					31.05	31.35	0.30			000216	HB	To Cd sheared, broken, mixed – G coal sample 4	0.30	HCC	J
"					31.35	31.75	0.40			000217	SB	Parting – G parting 2 sample	0.40	CLY	
"					31.75	32.25	0.50			000218	SB	Mostly good coal – G coal sample 5 (actually J seam)	0.50	Cd	J
"					32.25	32.92	0.67			000219	MB	Mixed with HCC and some Cd pieces – G coal sample 6 (actually J seam)	0.67	Bn	J

3	33.5	36.5	2.92	32.92	35.96	3.04	0.12				Entire run			
											Core was intact before hammering tube to get it out			
"				32.92	33.04	0.12	0.12				Coal loss			
"				33.04	33.77	0.73		000220	HB		Mostly good coal - slight shear - J coal sample 1	0.73	Cd	J
"				33.77	34.50	0.73		000221	HB		As above - J coal sample 2	0.73	Cd	J
"				34.50	35.23	0.73		000222	HB		As above - J coal sample 3	0.73	Cd	J
"				35.23	35.96	0.73		000223	HB		As above - J coal sample 4	0.73	Cd	J
4	36.5	39.5	2.87	35.96	39.00	3.04	0.17				Entire run			
"				35.96	36.13	0.17	0.17				Coal loss			
"				36.13	36.85	0.72		000224	SB		mostly good coal - less shear, more blocky - J coal sample 5	0.72	Cd	J
"				36.85	37.57	0.72		000225	SB		as above - J coal sample 6	0.72	Cd	J
"				37.57	38.29	0.72		000226	SB		as above - J coal sample 7	0.72	Cd	J
"				38.29	39.00	0.71		000227	SB		as above - J coal sample 8	0.71	Cd	J
5	39.5	42.5	2.94	39.00	42.04	3.04	0.10				Entire run			
"				39.00	39.10	0.10	0.10				Coal loss			
"				39.10	39.69	0.59		000228	SO		Core frozen in tube over weekend, good coal - J coal sample 9	0.59	Cd	J
"				39.69	40.28	0.59		000229	SO		as above - J coal sample 10	0.59	Cd	J
"				40.28	40.87	0.59		000230	SO		as above - J coal sample 11	0.59	Cd	J
"				40.87	41.46	0.59		000231	SO		as above - J coal sample 12	0.59	Cd	J
"				41.46	42.04	0.58		000232	SO		as above - J coal sample 13	0.58	Cd	J
6	42.5	45.5	2.80	42.04	45.08	3.04	0.24				Entire run			
"				42.04	42.28	0.24	0.24				Coal loss			
"				42.28	42.68	0.40		000233	SO		as above - J coal sample 14	0.40	Cd	J
"				42.68	42.78	0.10	60°	000234	SO		FW of J seam, DG, intact contact @ 60° - J FW sample	0.10	CLY	
"				42.78	45.08	2.30	55°		SO		Well laminated LG/DG alternating bands	2.30	CLY	
											End of Hole 45.5m			



**Peace River Coal Inc.  
Bulk Sample Core Description**

Hole: BSTR-2006-19  
 Northing: 6083962.924  
 Easting: 629757.059  
 UTM System: NAD 83

Hole Orientation: Vertical  
 Seam: G/J 6 inch core  
 Logged by: DT Nov 1-3/06

Run #	Driller's Coring Info				Interval Corrected to Log		Length (m)	Lost (m)	BCN	Sample #	Core Quality	Description	Meas. length(m)	Lith Code	Seam
	from	to	ft/m	%	from	to									
												Cased to 4.5 m.			
												Core point at 25.3 m below ground level.			
1	25.3	26.3	0.87		25.04	25.91	1.00	0.13				Entire run			
"					25.04	25.91	0.87		45-60°		SO	Wavy bedding, some @ 45° some @ 60°, abundant coaly laminae/plant fossils	0.87	CLY	
2	26.3	27.8	1.69		25.91	27.60	1.52	Gain + 0.17				Entire run			
"					25.91	27.60	1.69		60°		SO	As above, LG/MG layers	1.69	CLY	
3	27.8	29.3	0.96		27.60	29.12	1.52	0.56				Entire run			
"					27.60	27.85	0.25				SO	As above, LG/MG layers	0.25	CLY	
"					27.85	27.95	0.10			000235	SO	as above, LG/MG layers – G HW sample	0.10	CLY	
"					27.95	28.46	0.51			000236	CR	G coal sample 1	0.51	Cd	G
"					28.46	28.56	0.10			000236	HB	Parting – broken pieces mixed with Cd – G coal sample 1 cont.	0.10	CLY	
"					28.56	28.59	0.03	0.03				Rock loss			
"					28.59	29.12	0.53	0.53				Coal loss			G
4	29.3	30.8	0.00		29.12	30.46	1.52	1.52				Entire run lost			
"					29.12	30.46	1.34	1.34				Coal loss			G
5	30.8	31.8	1.10		30.46	31.56	1.00	Gain + 0.10				Entire run			
"					30.46	31.50	1.04			000237	HB/CR	Good blocky coal – G coal sample 2	1.04	Cd	G
"					31.50	31.56	0.06			000238	SB	Parting – G parting sample (actually FW sample)	0.06	CLY	

6	31.8	32.8	1.25	31.56	32.81	1.00	Gain + 0.25			Entire run			
"				31.56	31.60	0.04		000238	SO	Parting – G parting sample cont.	0.04	CLY	
"				31.60	32.81	1.21			SO	Interseam – abundant coaly laminae and 2cm Cd stringer at bottom of run	1.21	CLY	
7	32.8	34.3	1.51	32.81	34.32	1.52	0.01						
"				32.81	33.19	0.38			SO	DG	0.38	CLY	
"				33.19	33.29	0.10		000239	SO	J HW sample	0.10	CLY	
"				33.29	34.15	0.86		000240	HB	J coal sample 1	0.86	Cd	J
"				34.15	34.32	0.17		000241	HB	Hard. some HCC – J coal sample 2	0.17	Bn	J
8	34.3	35.8	1.41	34.32	36.00	1.52	0.11						
"				34.32	34.59	0.27	0.27			Coal loss			J
"				34.59	34.69	0.10		000241	HB	J coal sample 2 cont.	0.10	Bn	J
"				34.69	36.00	1.31		000242	HB	A few bright bands - J coal sample 3	1.31	Cd	J
9	35.8	37.3	1.24	36.00	37.52	1.52	0.28						
"				36.00	36.28	0.28	0.28			Coal loss			J
"				36.28	37.52	1.24		000243	CR	Some Bn pieces, some highly sheared flakes – J coal sample 4	1.24	Cd	J
10	37.3	38.6	1.33	37.52	38.85	1.30	Gain + 0.03						
"				37.52	38.75	1.23		000244	HB	Mostly good, blocky coal – J coal sample 5	1.23	Cd	J
"				38.75	38.85	0.10		000244	HB	Harder, heavy, dull – J coal sample 5 cont.	0.10	Bn	J
11	38.6	40.1	1.46	38.85	40.44	1.52	0.06						
"				38.85	38.98	0.13	0.13			Coal loss			J
"				38.98	39.16	0.18		000245	HB	As above – J coal sample 6	0.18	Bn	J
"				39.16	40.44	1.28		000245	CR	Some slight shear, some Bn pieces – J coal sample 6 cont.	1.28	Cd	J

12	40.1	41.6	1.49	40.44	41.96	1.52	0.03											
"				40.44	40.47	0.03	0.03					Coal loss						J
"				40.47	41.96	1.49		000246	HB			mostly good, blocky coal, some bright bands/pieces – J coal sample 7	1.49	Cd				J
13	41.6	43.1	1.20	41.96	43.48	1.52	0.32											
"				41.96	42.28	0.32	0.32					Coal loss						J
"				42.28	43.48	1.20		000247	HB			as above – J coal sample 8	1.20	Cd				J
14	43.1	44.4	1.02	43.48	44.78	1.30	0.28											
"				43.48	43.76	0.28	0.28					Coal loss						J
"				43.76	44.78	1.02		000248	CR/HB			As above - J coal sample 9	1.02	Cd				J
15	44.4	45.9	1.57	44.78	46.35	1.52	Gain + 0.05											
"				44.78	45.05	0.27		000249	HB			With some Cd pieces mixed in – J coal sample 10	0.27	Bn				J
"				45.05	45.15	0.10		000250	SO			DG – abundant coaly laminae near upper contact – 0.01 Cd stringer 0.30m down from FW contact – J FW sample	0.10	CLY				
"				45.15	46.35	1.20			SO			As above	1.20	CLY				
16	45.9	47.5	1.70	46.35	48.05	1.60	Gain + 0.10											
"				46.35	46.88	0.53			SO			DG, a few plant fossils/coaly laminae	0.53	CLY				
"				46.88	47.01	0.13			HB			Coaly zone	0.13	Cd				
"				47.01	48.05	1.04			SO			DG – hard	1.04	CLY				
												End of Hole 47.5m						

Peace River Coal Inc.

DRILL CORE LOG

Hole No: DDHTR-2006-1

Area: Roman Mountain

Logged By: RFM

Page 1 of 34

Date Begun: Aug 16, 2006

Collar Bearing: 215

Date Logged: Nov 11- 2006

Date Finished: Aug 28, 2006

Collar Elev. (m): 1832.874

Northing: 6083222.309

Hole Size: HQ

Hole Angle: 80

Easting: 630656.39

Total Depth (m): 270.24

Projection: NAD 83 Zone 10

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)		Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
		0.00	2.00	2.00	2.00											Overburden
		2.00	4.57	2.57	2.57											Cased to 7.0m
1	15' / 4.57m	4.57														Top of Box #1
		4.57	4.70	0.13	0.13											Rock loss.
"		4.70	5.18	0.48			LG				0	IN		CSST		Well sorted, salt and pepper - black and white chert grains, hammer markings on top
"	17' / 5.18m	5.18														
"		5.18	5.74	0.56			LG				0	SO		CSST		As above.
"		5.74	6.61	0.87			LG				0	IN		CSST		Slightly coarser than above, occasional sections granule CGL. Frequent rusty Fe coated fracture surfaces.
		6.61	6.70	0.09	0.09											Rock loss.
"	22' / 6.71m	6.70														
"		6.70	7.47	0.77			LG				0	SO		CSST		As above, no rusty fractures, top 0.08m SB.
"		7.47	7.92	0.45			LG				0	IN		CSST		As above, some coarser sections.
"		7.92	8.07	0.15			LG				0	SB		CGL		Gradational zone, granule CGL.
		8.07	8.22	0.15	0.15											Rock loss.
2	27' / 8.23m	8.22														Top of Box #2
"		8.22	8.71	0.49			LG				0	IN		CGL		Fine chert pebble, black and white clasts. Lower contact intact.
"		8.71	9.28	0.57			LG			72	0	IN		CSST		Well sorted, black and white chert grains, coarsens with depth.
"		9.28	9.60	0.32			LG				0	IN		CGL		Fine chert pebble, black and white clasts. Rusty fracture near center.
		9.60	9.74	0.14	0.14											Rock loss.
"	32' / 9.75m	9.74														
"		9.74	11.18	1.44			LG				0	IN		CGL		Fine pebble to granule, somewhat porous, little matrix.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions	
		From (m)	To (m)														
2	37' / 11.28m	11.18															
"		11.18	12.68	1.50			LG				0	IN		CGL			As above.
3	42' / 12.80m	12.68															Top of Box #3
"		12.68	12.76	0.08	0.08												Rock loss.
"		12.76	14.20	1.44			LG				0	IN		CGL			As above.
"	47' / 14.33m	14.20															
"		14.20	15.22	1.02			LG				0	IN		CGL			Similar to above, coarser, harder, better cemented.
"		15.22	15.30	0.08			MG				0	SB		CSST			Hard, somewhat ground.
"		15.30	15.51	0.21	0.21												Rock loss.
"		15.51	15.72	0.21			LG				0	IN		CGL			Chert pebbles to 3cm, hard ,well cemented
"	52' / 15.85m	15.72															
"		15.72	16.01	0.29			LG				0	SO		CGL			As above.
"		16.01	16.58	0.57			LG	SSH			0	IN		CGL			Similar to above , frequent fractures with oxidized coatings.
"		16.58	17.21	0.63			LG				0	SO		CGL			Chert pebbles to 3cm, hard ,well cemented
4	57' / 17.37m	17.21															Top of Box #4
"		17.21	18.19	0.98			LG				0	SO		CGL			As above.
"		18.19	18.51	0.32			LG				0	IN		CSST			Coarse, heterogeneous, some CGL sections.
"		18.51	18.72	0.21			MG			64	0	SO		FSST			Uniform, upper contact is intact carbonaceous parting.
"	62' / 18.9m	18.72															
"		18.72	19.10	0.38			MG				0	SO		FSST			As above.
"		19.10	19.55	0.45			MG			70	0	IN		MSST			Coarser gradation of above, lower contact is intact carbonaceous parting.
"		19.55	19.98	0.43			LG				0	SO		CGL			Chert pebbles to 3cm, hard ,well cemented
"		19.98	20.08	0.10	0.10												Rock loss.
"		20.08	20.23	0.15			LG				0	SB		FSST			Somewhat oxidized.
"	67' / 20.42m	20.23															
"		20.23	20.56	0.33			LG	SSH			0	IN		FSST			Somewhat oxidized, noticeably porous

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample		Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type		Seam	Additional Descriptions
		From (m)	To (m)			Number	Color						Structure	Rock Type		
"		20.56	20.71	0.15	0.15											Rock loss.
"		20.71	20.86	0.15			LG	SSH		0	VB		FSST			As above, broken carbonaceous partings.
4		20.86	21.18	0.32			LG	SSH		0	IN		FSST			As above, porous, occasional small chaert pebbles.
"		21.18	21.47	0.29			LG			0	IN		CGL			Gradational zone, sandy, poorly sorted CGL
"		21.47	21.73	0.26			LG			0	SO		CGL			Well sorted chert granule CGL
5	72' / 21.95m	21.73														Top of Box #5
"		21.73	22.35	0.62			LG			0	IN		CGL			As above, bottom 0.1m SB.
"		22.35	23.24	0.89			LG			0	SO		CGL			As above.
"	77' / 23.47m	23.24														
"		23.24	24.74	1.50			LG			0	SO		CGL			As above, some intervals grade to CSST.
"	82' / 24.99m	24.74														
"		24.74	24.88	0.14	0.14											Rock loss.
"		24.88	25.26	0.38			LG			0	SO		CGL			Well sorted chert granule CGL
"		25.26	25.53	0.27			LG			0	IN		CGL			As above.
"		25.53	26.26	0.73			LG			0	SO		CGL			As above, a few pebbles in lower 0.25m.
6	87' / 26.52m	26.26														Top of Box #6
"		26.26	26.39	0.13	0.13											Rock loss.
"		26.39	27.78	1.39			LG			0	IN		CGL			Uniform chert granule/fine pebble CGL, occasional oxidized fracture surfaces throughout.
"	92' / 28.04m	27.78														
"		27.78	28.57	0.79			LG			0	IN		CGL			As above
"		28.57	29.18	0.61			LG			0	IN		CGL			Fine granule GGL, some CSST, lower surface ground.
"		29.18	29.30	0.12	0.12											Rock loss.
"	97' / 29.56m	29.30														
"		29.30	30.80	1.50			LG			0	SO		CGL			Heterogeneous, varies from CSST to medium pebble CGL.
7	102' / 31.09m	30.80														Top of Box #7
"		30.80	30.99	0.19			LG			0	SO		CGL			As above.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		30.99	32.16	1.17			LG				0	IN		CGL		Chert pebble CGL, clasts to 0.03m, somewhat porous, little matrix, occasional oxidized fracture surfaces.
"		32.16	32.25	0.09			LG				0	VB		CGL		As above.
"		32.25	32.30	0.05	0.05											Rock loss.
"	107' / 32.61m	32.30														
"		32.30	33.10	0.80			LG				0	SO		CGL		Hard, mainly fine granules, some CSST and occasional pebbles, upper surface ground.
"		33.10	33.24	0.14			LG				0	IN		FSST		Fine, uniform.
"		33.24	33.49	0.25			LG				0	IN		CGL		Heterogeneous, CSST to fine pebble CGL.
"		33.49	33.82	0.33			LG				0	SO		CGL		As above, hard.
"	112' / 34.14m	33.82														
"		33.82	34.35	0.53			LG				0	SO		CGL		As above.
"		34.35	34.96	0.61			LG				0	IN		CGL		Occasional pebbles to 0.05m supported in med to fine sandy matrix.
"		34.96	35.27	0.31			LG				0	IN		CGL		Uniform chert fine pebble CGL, somewhat porous, little matrix.
8		35.27														Top of Box #8
"		35.27	35.34	0.07			LG				0	VB		CGL		As above, bottom surface ground
"	117' / 35.66m	35.34														
"		35.34	35.58	0.24			LG				0	SO		CGL		As above.
"		35.58	37.03	1.45			LG		XB		0	SO		MSST		Fairly massive, a few scattered pebbles, vague bedding and cross-bedding.
"	122' / 37.19m	37.03														
"		37.03	38.52	1.49			LG		SSD		0	IN		FSST		Frequent black bedding laminae, often carbonaceous, orientation unreliable.
"	127' / 38.71m	38.52														
"		38.52	39.45	0.93			LG		WB		0	IN		FSST		As above, traces of white, non-calcareous mineral on fracture surfaces, some oxidation in lower 0.20m
9		39.45														Top of Box #9
"		39.45	39.99	0.54			LG				0	IN		FSST		Massive, slight brecciation, oxidation on incipient fractures.
"	132' / 40.23m	39.99														
"		39.99	41.40	1.41			LG				0	IN		FSST		As above.
"		41.40	41.52	0.12			LG				0	SB		FSST		As above.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample		Bedding Sedimentary Structure	BCN (°)	HCl	Core Quality	Grain Size	Coal Type		Seam	Additional Descriptions	
		From (m)	To (m)			Number	Color						Rock Type				
"	137' / 41.76m	41.52															
"		41.52	42.43	0.91			LG			0	SO		FSST				As above, a few irregular carbonaceous laminations.
"		42.43	42.63	0.20			MG			0	MB		FSST				Sandy zone with frequent carbonaceous partings, bedding more regular.
"		42.63	43.08	0.45			LG		50	0	SO		FSST				Mostly massive, a few regular bedding laminae in upper 0.07m.
10	142' / 43.28m	43.08															Top of Box #10
"		43.08	44.60	1.52			LG			0	SO		FSST				Massive, occasional oxidized fractures visible throughout.
"	147' / 44.81m	44.60															
"		44.60	46.12	1.52			LG			0	SO		FSST				As above.
"	152' / 46.33m	46.12															
"		46.12	46.40	0.28			LG			0	SO		FSST				As above.
"		46.40	47.00	0.60			LG			0	IN		CGL				Mixed layers of fine pebble CGL and FSST, frequent rusty fractures throughout. Lower 0.05m quartz flooded.
"		47.00	47.37	0.37			LG			0	SO		FSST				Massive, hard, a few incipient fractures.
"		47.37	47.64	0.27			LG			0	SO		CGL				Sandy, heterogeneous.
11	157' / 47.9m	47.64															Top of Box #11
"		47.64	47.81	0.17			LG			0	IN		CGL				As above.
"		47.81	48.63	0.82			LG			0	SO		FSST				Massive, hard, a few thin, wavy carbonaceous laminae.
"		48.63	48.70	0.07			MB			0	PW		CLAY				Fine, massive, uniform. Fault ?
"		48.70	49.14	0.44			LG			0	IN		FSST				Massive, hard, top half very fine grained.
"		49.14	50.68	1.54	1.54												Rock loss, one run missing. Note: No 162' block present.
"	167' / 50.9m	50.68															
"		50.68	50.90	0.22			LG			0	SO		FSST				As above, a few chert granules.
"		50.90	51.41	0.51			LG			0	SO		CGL				Chert pebbles to 0.05m, top half sandy, matrix supported, grades downward to well sorted, clast supported.
"		51.41	52.20	0.79			LG			0	IN		MSST				Fairly massive, a few oxidized fractures.
"	172' / 52.43m	52.20															
"		52.20	52.91	0.71			LG			0	IN		MSST				As above, some FSST, lower 0.10m gradational contact zone.
"		52.91	53.72	0.81			LG			0	SO		CGL				Chert pebbles to 0.05m, well sorted, clast supported.



Box No.	Driller's Marker (f/m)	Unit		Length (m)	Lost (m)	Sample			Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type		Seam	Additional Descriptions
		From (m)	To (m)			Number	Color	Structure						Rock Type	Seam		
12	177 / 53.95m	53.72															Top of Box #12
"		53.72	54.58	0.86			LG			0	IN			CGL			Chert pebbles to 0.06m, well sorted, clast supported, frequent rusty fractures, lower 0.16m.
"		54.58	55.24	0.66			LG			0	SO			CGL			As above, no fractures.
"	182' / 55.47m	55.24															
"		55.24	56.33	1.09			LG			0	SO			CGL			As above.
"		56.33	56.76	0.43			LG			0	IN			CGL			As above.
"	187' / 57.00m	56.76															
"		56.76	58.27	1.51			LG			0	SO			CGL			As above.
13	192' / 58.52m	58.27															Top of Box #13
"		58.27	58.70	0.43			LG			0	SO			CGL			As above.
"		58.70	59.16	0.46			LG		47	0	SO			MSST			A few scattered pebbles, slightly brecciated, contacts intact.
"		59.16	59.79	0.63			LG			0	SO			CGL			Fine pebble-granule CGL, little sandy matrix.
"	197' / 60.05m	59.79															
"		59.79	59.89	0.10	0.10												Rock loss.
"		59.89	60.38	0.49			LG			0	SO			MSST			A few scattered pebbles, slightly brecciated and oxidized.
"		60.38	61.31	0.93			LG			0	SO			CGL			Chert pebbles to 0.05m, well sorted, clast supported.
"	202' / 61.57m	61.31															
"		61.31	62.82	1.51			LG			0	SO			CGL			As above.
14	207' / 63.09m	62.82															Top of Box #14
"		62.82	63.01	0.19			LG			0	SO			CGL			As above.
"		63.01	64.32	1.31			LG			0	SO			CGL/SST			Interbedded CGL as above with MSST and FSST, quite heterogeneous, hard.
"	212' / 64.62m	64.32															
"		64.32	65.59	1.27			LG			0	SO			CGL/SST			As above.
"		65.59	65.83	0.24			LG			0	SO			MSST/CGL			As above, mainly MSST.
"	217' / 66.14m	65.83															
"		65.83	66.79	0.96			LG			0	SO			MSST/CGL			As above, core ground on lower surface.
"		66.79	66.84	0.05	0.05												Rock loss.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
		66.84	67.35	0.51			LG				0	SO		MSST/CGL		As above.
15	222' / 67.66m	67.35														Top of Box #15
"		67.35	67.91	0.56			LG				0	SO		MSST/CGL		As above.
		67.91	68.11	0.20			LG				0	SO		CGL		Granule CGL, very uniform and well-sorted, hard, slightly porous, core ground on bottom surface.
		68.11	68.87	0.76			LG				0	SO		MSST/CGL		As above.
"	227' / 69.19m	68.87														
"		68.87	70.39	1.52			LG				0	SO		CGL		As above.
"	232' / 70.71m	70.39														
"		70.39	71.37	0.98			LG				0	SO		CGL		As above.
"		71.37	71.83	0.46			LG				0	SO		CSST		Finer gradation of unit above, slightly brecciated.
"		71.83	71.91	0.08			LG				0	SB		CSST		As above, oxidized fractures common.
16	237' / 72.23m	71.91														Top of Box #16
"		71.91	72.27	0.36			LG				0	SO		FSST		Massive, somewhat brecciated as above.
"		72.27	72.73	0.46			LG				0	SB		FSST		Massive, somewhat brecciated, oxidized fractures common, a few scattered pebbles.
"		72.73	72.86	0.13	0.13											Rock loss.
"		72.86	73.43	0.57			LG			23	0	SO		FSST		Massive, hard, vaguely bedded.
"	242' / 73.76m	73.43														
"		73.43	74.04	0.61			LG				0	SO		FSST		As above.
"		74.04	74.38	0.34			LG				0	SO		CGL		Poorly sorted pebble CGL to 0.07m with granule and sand matrix.
"		74.38	74.85	0.47			LG				0	SO		MSST		Massive, a few granules, coarsening upward.
"		74.85	74.92	0.07			LG				0	SO		FSST		Massive, hard.
"	247' / 75.28m	74.92														
"		74.92	75.49	0.57			LG				0	SO		FSST		As above.
"		75.49	75.77	0.28			LG				0	SO		MSST		Massive, hard.
"		75.77	76.44	0.67			LG				0	SO		CGL		Pebble CGL with granule matrix, lower half slightly porous.
17	252' / 76.81m	76.44														Top of Box #17

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		76.44	77.45	1.01			LG				0	SO		CGL		As above.
"		77.45	77.96	0.51			LG				0	SO		FSST		Some pebbly sections
"	257' / 78.33m	77.96														
"		77.96	78.31	0.35			LG				0	SO		FSST		As above.
"		78.31	79.48	1.17			LG				0	SO		MSST		Massive, hard, occasional granules and fine pebbles.
"	262' / 79.86m	79.48														
"		79.48	81.00	1.52			LG				0	SO		MSST		As above.
18	267' / 81.38m	81.00														Top of Box #18
"		81.00	81.56	0.56			LG				0	SO		MSST		As above.
"		81.56	82.29	0.73			LG				0	SO		CGL		Massive, uniform granule GCL.
"		82.29	82.52	0.23			LG				0	IN		CGL		As above.
"	272' / 82.91m	82.52														
"		82.52	83.99	1.47			LG				0	SO		CGL		As above.
"		83.99	84.05	0.06			LG				0	SO		FSST		Massive, hard, somewhat brecciated.
"	277' / 84.43m	84.05														
"		84.05	85.21	1.16			LG			27	0	SO		FSST		Approx 25% is bands of fine granules.
"		85.21	85.56	0.35			LG				0	SO		CGL		Massive, uniform granule GCL.
19	282' / 85.95m	85.56														Top of Box #19
"		85.56	87.08	1.52			LG				0	SO		CGL		As above. A few fine pebble sections.
"	287' / 87.48m	87.08														
"		87.08	88.59	1.51			LG				0	SO		CGL		As above. Frequent pebble intervals.
"	292' / 89.00m	88.59														
"		88.59	90.11	1.52			LG				0	SO		CGL		As above. Mainly fine granule GCL.
20	297' / 90.52m	90.11														Top of Box #20
"		90.11	91.62	1.51			LG				0	SO		CGL		As above, variable fine pebble to CSST.
"	302' / 92.05m	91.62														

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		91.62	92.33	0.71			LG				0	SO		CGL		As above.
"		92.33	93.14	0.81			MG				0	SO		CSST		Hard, massive, some MSST.
"	307' / 93.57m	93.14														
"		93.14	93.34	0.20			MG				0	SO		CSST		As above.
"		93.34	93.98	0.64			MG									Massive, uniform granule GCL.
"		93.98	94.00	0.02		000281	BL				0	SO		HCC		With ~40% coal laminae. 0.11m hanging wall sample.
"		94.00	94.03	0.03		"	MG				0	SO		FSST		With some coaly laminae. Bottom half pebbly. 0.11m hanging wall sample.
"		94.03	94.09	0.06		"	MG				0	SO		CGL		Granule CGL and FSST with frequent coaly laminae. 0.11m hanging wall sample.
"		94.09	94.11	0.02		000282	BL				0	SO		Cdab	D1	Top, D1 seam. Contact intact.
"		94.11	94.23	0.12		"	BL				0	SO		Cdab	D1	Peacock stained, marcasite common of fracture surfaces, lensoid marcasite pods common in top half.
"		94.23	94.30	0.07		"	BL				0	SO		Cdb	D1	Bottom 0.02m intact.
"		94.30	94.45	0.15		"	BL				0	SO		Cd	D1	Hard with some peacock stain.
"		94.45	94.55	0.10		"	BL	SSH			0	SB		Cdb	D1	Some polished surfaces.
21	312' / 95.10m	94.55														Top of Box #21
"		94.55	94.60	0.05	0.05	"									D1	Coal loss.
"		94.60	94.63	0.03		"	BL	SSH			0	VB		Cdb	D1	As above.
"		94.63	94.66	0.03		000283	DG	SSH			0	SO		MSST	D1	Carbonaceous matrix.
"		94.66	94.77	0.11		"	BL	SSH			0	IN		Cd	D1	Light, crumbly, some polished surfaces, a few fusain lenses.
"		94.77	94.84	0.07		"	BL	MSH			0	SB		Cd	D1	As above, frequent polished surfaces. Bottom 0.02m intact.
"		94.84	94.92	0.08		"	BL	MSH			0	SO		Cd	D1	As above.
"		94.92	94.96	0.04		"	BL	HSB			0	SO		HCC	D1	Many polished flakes.
"		94.96	95.00	0.04		"	BL	HSB			0	VB		HCC	D1	As above. Bottom of D1 seam, contact broken.
"		95.00	95.10	0.10		000284	DG				0	SB		CLY		A few carbonaceous partings throughout, 0.10m footwall sample.
"		95.10	95.38	0.28		"	DG				0	IN		CLY		As above, massive. Lower 0.10m increasingly silty.
"		95.38	95.79	0.41		"	MG		SSD		0	SO		CSLT		Variable, med-coarse, wavy bedding laminae in lower half.
"		95.79	96.03	0.24		"	DG				0	IN		CLY		Massive.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"	317 / 96.62m	96.03														
"		96.03	96.22	0.19	0.19											Rock loss.
"		96.22	96.67	0.45			DG				0	IN		CLY		As above.
"		96.67	96.72	0.05			DG				0	SB		CC		Frequent coaly laminae.
"		96.72	96.85	0.13			BL				0	IN		Cd	CZ	Hard.
"		96.85	96.91	0.06	0.06										CZ	Coal loss.
"		96.91	97.01	0.10			BL				0	IN		Cd	CZ	Hard. Top 0.02m SB.
"		97.01	97.07	0.06		097	BL			10	0	SO		Cd	CZ	As above, some peacock stain. Lower contact intact.
"		97.07	97.34	0.27			MG		SSD		0	SO		MSLT		Variable unit.
"		97.34	97.75	0.41			DG				0	SO		CLY		Massive, occasional white calcite fracture coatings.
"	322 / 98.15m	97.75														
"		97.75	97.93	0.18			DG				0	SO		CLY		As above.
"		97.93	98.12	0.19			DG		SSD		0	SO		FSLT		Clayey.
"		98.12	99.27	1.15			DG				0	SO		CLY		Massive, occasional white calcite fracture coatings.
22	327 / 99.67m	99.27														Top of Box #22
"		99.27	99.31	0.04			DG				0	SO		CLY		As above. Bottom surface ground.
"		99.31	99.41	0.10		000285	DG				0	SO		CLY		As above, 0.10m hanging wall sample.
"		99.41	99.48	0.07		"	BL				0	IN		Cd	D2	Upper contact broken. Peacock stained.
"		99.48	99.70	0.22		"	BL				0	SO		Cd	D2	As above.
"		99.70	99.71	0.01		000287	BL				0	SB		HCC	D2	Hard, polished surfaces, some staining.
"		99.71	99.80	0.09		"	BL				0	SO		CC	D2	Massive, hard.
"		99.80	100.01	0.21		000288	BL				0	SO		Cd	D2	Occasional clayey laminae.
"		100.01	100.17	0.16		"	BL				0	SO		Cdb	D2	
"		100.17	100.24	0.07		"	BL				0	SO		Cdab	D2	Occasional clayey fracture coatings.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		100.24	100.29	0.05		"	BL				0	SO		Cdb	D2	
"		100.29	100.40	0.11		"	BL				0	SO		Cd	D2	Peacock stained.
"		100.40	100.51	0.11		"	BL			0.04	0	IN		Cd	D2	As above.
"		100.51	100.65	0.14		"	BL			0.10	0	SO		Cd	D2	As above.
"		100.65	100.79	0.14		"	BL			0.04	0	SB		Cd	D2	Occasional fusain lenses, bottom of peacock stain zone.
"	332' / 101.19m	100.79								0.07						
"		100.79	100.82	0.03		000289	BL			0.22	0	SB		Cd	D2	Many polished surfaces.
"		100.82	100.96	0.14		"	BL			0.01	0	SO		Cd	D2	As above, traces of marcasite.
"		100.96	101.03	0.07		"	BL			0.09	0	SO		Cd	D2	Occasional clayey laminae.
"		101.03	101.13	0.10		"	BL			0.21	0	SO		Cd	D2	High-ash zone with HCC partings to 5mm.
"		101.13	101.20	0.07		"	BL			0.16	0	SO		Cd	D2	Clean, low-ash.
"		101.20	101.22	0.02		"	BL			0.07	0	SO		Bn	D2	Hard.
"		101.22	101.28	0.06		"	BL			0.05	0	SO		Cd	D2	Clean, low-ash.
"		101.28	101.29	0.01		"	BL			0.11	0	SO		St	D2	
"		101.29	101.42	0.13		000290	BL			0.11	0	SO		Cdab	D2	Clarain.
"		101.42	101.54	0.12		"	BL			0.14	0	SO		Cd	D2	
"		101.54	101.65	0.11		"	BL			0.14	0	SO		Cd	D2	
"		101.65	101.73	0.08		"	BL			1.56	0	SO		Cdb	D2	
"		101.73	101.79	0.06		"	BL				0	SO		Cd	D2	
"		101.79	101.84	0.05		"	BL				0	SO		Cdab	D2	
"		101.84	101.97	0.13		"	BL				0	SO		Cdb	D2	
"		101.97	102.19	0.22		"	BL				0	IN		Cd	D2	
"		102.19	102.23	0.04		"	BL				0	IN		Cd	D2	Many polished surfaces, occasional clayey laminae.
"		102.23	102.30	0.07		"	BL				0	VB		Cd	D2	As above.
"	337' / 102.72m	102.30														
"		102.30	102.59	0.29	0.29										D2	Coal loss.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		102.59	102.70	0.11		000291	BL				0	VB		St	D2	Polished flakes, lack streak.
"		102.70	102.82	0.12		"	BL				0	SB		HCC	D2	All polished flakes.
"		102.82	102.85	0.03		"	BL				0	SO		HCC	D2	
"		102.85	102.88	0.03		"	BL				0	VB		HCC	D2	
"		102.88	102.92	0.04		"	BL				0	SO		Cdab	D2	
"		102.92	102.95	0.03		"	BL				0	VB		Cdab	D2	
"		102.95	102.98	0.03		"	DG				0	IN		CC	D2	
"		102.98	103.04	0.06		"	BL				0	VB		Cd	D2	
"		103.04	103.24	0.20	0.20											Rock loss.
"		103.24	103.27	0.03		000292	BL				0	SB		HCC		Foot wall sample.
"		103.27	103.34	0.07		"	BL				0	SO		CC		Foot wall sample.
"		103.34	103.41	0.07			BL				0	SB		HCC		All polished flakes.
"		103.41	103.46	0.05			DG				0	IN		CC		
"		103.46	103.51	0.05	0.05											Rock loss.
"		103.51	103.59	0.08			DG				0	SO		CC		Massive, top surface ground.
"		103.59	103.67	0.08			BL				0	VB		HCC		Many coaly laminae.
"		103.67	103.80	0.13			DG				0	SO		CLY		Massive.
23	342' / 104.24m	103.80														Top of Box #23
"		103.80	104.37	0.57			DG				0	SO		CLY		Massive, starting to decrepitate; grades to FSLT over lower 8cm. Bottom surface ground.
"		104.37	104.60	0.23	0.23											Rock loss.
"		104.60	104.71	0.11			MG				0	SB		FSLT		Massive.
"		104.71	105.42	0.71			MG				0	IN		FSLT		Massive, a few white calcite fracture coatings throughout.
"		105.42	105.55	0.13			MG				0	SB		FSLT		As above.
"	347' / 105.77m	105.55														
"		105.55	105.98	0.43			MG				0	SO		FSLT		As above.
"		105.98	106.70	0.72			DG				0	SO		CLY		Massive, beginning to decrepitate, some silty sections.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		106.70	107.07	0.37			MG				0	SO		FSLT		Massive, a few white calcite fracture coatings throughout.
"	352' / 107.29m	107.07														
"		107.07	107.36	0.29			MG				0	SO		FSLT		As above.
"		107.36	107.66	0.30			DG			24	0	SO		CLY		Laminated, some FSLT.
"		107.66	108.60	0.94			MG		XB		0	SO		FSST		Silty, often laminated, occasional white calcite fracture coatings.
24	357' / 108.81m	108.60														Top of Box #24
"		108.60	108.70	0.10			MG				0	SO		FSST		As above. Does not match core immediately below.
"		108.70	108.75	0.05	0.05											Rock loss.
"		108.75	109.11	0.36			MG			36	0	SO		MSLT		Regularly bedded.
"		109.11	109.98	0.87			DG				0	SO		FSLT		Occasional carbonaceous laminae, darkens with depth.
"		109.98	110.12	0.14			DG				0	SO		CLY		Silty; transitional unit
"	362' / 110.33m	110.12														
"		110.12	110.24	0.12			DG				0	SO		CLY		As above.
"		110.24	110.47	0.23			MG				0	SO		FSLT		Massive.
"		110.47	111.64	1.17			DG				0	IN		CLY		Mainly massive, occasional carbonaceous partings, includes occasional silty zones.
"	367' / 111.86m	111.64														
"		111.64	111.86	0.22			DG				0	SB		CLY		As above.
"		111.86	111.93	0.07	0.07											Rock loss.
"		111.93	112.62	0.69			MG			38	0	SO		FSLT		Top .08m regularly bedded, some white calcite on fracture surfaces.
"		112.62	113.16	0.54			DG				0	IN		CLY		Mainly massive.
25	372' / 113.38m	113.16														Top of Box #25
"		113.16	114.14	0.98			DG				0	IN		CLY		Mainly massive, medium-brown concretionary zones common, some carbonaceous partings. Deccipitating 113.64-113.82m
"		114.14	114.66	0.52			MG			38	0	IN		FSLT		Coarser gradation of unit above, some concretionary zones visible.
"	377' / 114.91m	114.66														
"		114.66	115.08	0.42			DG				0	IN		CLY		Massive, deccipitated.
"		115.08	115.74	0.66			MG			36	0	SO		MSLT		Massive, grades from FSLT to MSLT with depth. White calcite on fracture surfaces common.



Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		115.74	116.23	0.49			MG				0	SO		FSST		Fine to very fine grained, massive.
"	382' / 116.43m	116.23														
"		116.23	116.30	0.07			MG				0	SO		CSLT		As above, fining.
"		116.30	116.59	0.29			MG				0	SB		FSLT		Gradational zone.
"		116.59	117.12	0.53			DG				0	IN		CLY		Massive, often decrepitated, brown concretionary zones.
"		117.12	117.35	0.23			DG				0	IN		HCC		Heterogeneous, with silty zones, CC and coaly bands to 1cm.
"		117.35	117.57	0.22			DG				0	SB		CLY		Some carbonaceous partings.
		117.57	117.74	0.17			DG				2	SO		CLY		As above, becoming silty.
26	387' / 117.96m	117.74														Top of Box #26
"		117.74	118.37	0.63			MG			48	2	IN		FSLT		Thinly laminated top half, concretions in bottom half.
"		118.37	118.71	0.34			MG				2	SO		FSLT		Massive.
"		118.71	119.06	0.35			MG			36	2	SO		MSLT		Vaguely bedded.
"		119.06	119.16	0.10	0.10											Rock loss.
"		119.16	119.26	0.10			MG				2	SO		MSLT		As above.
"	392' / 119.48m	119.26														
"		119.26	120.18	0.92			MG				2	SO		MSLT		Massive
"		120.18	120.47	0.29			DG				2	IN		CLY		Becomes silty with depth.
"		120.47	120.69	0.22			MG				2	SO		FSLT		Gradational.
"	397' / 121.01m	120.69														
"		120.69	120.78	0.09			MG				2	SO		FSLT		As above.
"		120.78	121.86	1.08			MG		XB		3	SO		FSST		Lower half finer, lower contact gradational.
"		121.86	121.96	0.10			DG				1	SB		FSLT		Clayey.
"		121.96	122.12	0.16			MG				2	SO		CSLT		Vaguely bedded.
27	402' / 122.53m	122.12														Top of Box #27
"		122.12	122.23	0.11			MG				2	SO		CSLT		As above.
"		122.23	122.49	0.26			MG				3	SO		MSLT		Bedded.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		122.49	122.73	0.24			MG				2	SO		FSLT		Vaguely bedded.
"		122.73	122.84	0.11			DG				1	SO		CLY		Massive.
"		122.84	123.53	0.69			MG				2	IN		FSLT		Vaguely bedded.
"	407' / 124.05m	123.53														
"		123.53	123.79	0.26			MG				1	IN		FSLT		As above. Lower surface ground.
"		123.79	123.94	0.15	0.15											Rock loss.
"		123.94	124.37	0.43			MG				2	SO		MSLT		Vaguely bedded.
"		124.37	124.62	0.25			MG			40	2	SO		CSLT		Well bedded, coarsens downward.
"		124.62	125.14	0.52			MG-LG		SSD		3	SO		FSST		Gradational, top half with many silty bands.
"	412' / 125.58m	125.14														
"		125.14	126.47	1.33			LG		XB		3	SO		FSST		Light grey with thin, dark laminae on bedding and X-bedding surfaces, occasional white calcite on fracture surfaces.
"		126.47	126.66	0.19			LG				3	IN		FSST		As above.
28	417' / 127.10m	126.66														Top of Box #28
"		126.66	126.92	0.26			LG				3	SO		FSST		As above.
"		126.92	128.18	1.26			MG				2	SO		FSST		Siltier than above, black laminae common.
"	422' / v128.63m	128.18														
"		128.18	129.34	1.16			MG				2	SO		FSST		As above.
"		129.34	129.70	0.36			LG				2	SO		FSST		Massive to vaguely bedded.
"	427' / 130.15m	129.70														
"		129.70	130.62	0.92			LG				2	SO		FSST		As above.
"		130.62	131.22	0.60			LG				3	SO		FSST		As above.
29	432' / 131.67m	131.22														Top of Box #29
"		131.22	132.35	1.13			LG				2	SO		FSST		As above.
"		132.35	132.74	0.39			LG				2	IN		FSST		As above.
"	437' / 133.19m	132.74														
"		132.74	133.49	0.75			LG				2	MB		FSST		As above, somewhat brecciated, a few carbonaceous partings, white calcite common on fracture surfaces.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		133.49	133.59	0.10	0.10											Rock loss.
"		133.59	134.27	0.68			LG				2	SO		FSST		Frequent thin, dark bedding laminae.
"	442' / 134.72m	134.27														
"		134.27	135.79	1.52			LG				3	SO		FSST		As above.
30	447' / 136.24m	135.79														Top of Box #30
"		135.79	136.36	0.57			LG				3	SO		FSST		As above, bottom 0.12m silty.
"		136.36	137.22	0.86			MG			35	2	SO		FSLT		Bedded, some coarser bands
"		137.22	137.38	0.16	0.16											Rock loss.
"		137.38	137.47	0.09			DG				1	SB		FSLT		Clayey, massive, upper surface ground.
"	452' / 137.77m	137.47														
"		137.47	138.15	0.68			DG		SSD		1	SO		FSLT		Fining with depth.
"		138.15	138.57	0.42			DG				0	IN		CLY		Darkens, becomes more massive with depth.
"		138.57	138.74	0.17			BL				0	IN		CC		Massive with frequent coaly partings to 1mm.
"		138.74	138.78	0.04		000293	BL				0	IN		CC		As above. Hanging wall sample E1.
"		138.78	138.84	0.06		"	BL				0	VB		HCC		Entirely polished flakes. Hanging wall sample E1.
"		138.84	138.90	0.06	0.06	"										Rock loss.
"		138.90	138.95	0.05		000294	BL				0	SB		Cd	E1	Contact broken.
"		138.95	139.03	0.08		"	BL				0	SO		Cdb	E1	
"	457' / 139.29m	139.03														
"		139.03	139.05	0.02		"	BL				0	SB		Cd	E1	
"		139.05	139.39	0.34	0.34										E1	Coal loss.
"		139.39	139.45	0.06		000295	BL				0	SO		Cdb	E1	Top surface ground.
"		139.45	139.54	0.09		"	BL				0	IN		Cdab	E1	
"		139.54	139.59	0.05		"	BL				0	SO		Cdab	E1	
"		139.59	139.70	0.11		"	BL				0	SO		Cdb	E1	Traces of calcite on cleat surfaces.
"		139.70	139.79	0.09		"	BL				0	SO		Cd	E1	

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCl	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		139.79	139.84	0.05		"	BL				0	SO		Cdab	E1	
"		139.84	139.96	0.12		"	BL				0	SO		Cd	E1	
"		139.96	140.08	0.12		"	BL				0	SO		Cdb	E1	
"		140.08	140.09	0.01		"	BL				0	SO		Bn	E1	
"		140.09	140.20	0.11		"	BL				0	SO		Cbb	E1	Occasional clayey laminae.
"		140.20	140.25	0.05		000296	BL				0	VB		HCC	E1	Upper parting, entirely polished flakes.
"		140.25	140.32	0.07		"	BL				0	SO		CC	E1	Upper parting, includes some HCC.
"		140.32	140.36	0.04		"	BL				0	SO		ST	E1	Upper parting.
"		140.36	140.46	0.10		000297	BL				0	IN		Cdab	E1	Clarain
"		140.46	140.54	0.08		"	BL				0	IN		Cd	E1	
31	462' / 140.82m	140.54														Top of Box #31
"		140.54	140.61	0.07		"	BL				0	SO		Cdab	E1	
"		140.61	140.66	0.05		"	BL				0	SB		Cdab	E1	
"		140.66	140.71	0.05		"	BL				0	SO		Cdb	E1	
"		140.71	140.73	0.02		000298	BL				0	SO		ST	E1	Lower parting.
"		140.73	140.78	0.05		"	BL				0	SO		CC	E1	Lower parting.
"		140.78	140.82	0.04		"	BL				0	SO		ST	E1	Lower parting.
"		140.82	140.86	0.04		"	BL				0	MB		ST	E1	Lower parting.
"		140.86	140.99	0.13	0.13	"										Rock loss.
"		140.99	141.03	0.04	0.04	000299										Coal loss.
"		141.03	141.06	0.03		"	BL				0	VB		Cdab	E1	
"		141.06	141.18	0.12		"	BL				0	SO		Cdb	E1	
"		141.18	141.27	0.09		"	BL				0	VB		Bn	E1	
"		141.27	141.34	0.07		"	BL				0	SO		Bn	E1	
"		141.34	141.42	0.08		"	BL				0	SO		Cd	E1	
"		141.42	141.43	0.01		000300	BL				0	IN		HCC		Footwall sample E1.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		141.43	141.44	0.01		"	BL				0	PW		CC		Footwall sample E1.
"		141.44	141.52	0.08		"	BL				0	SO		CC		Footwall sample E1.
"		141.52	142.10	0.58			BL				0	IN		CLY		Massive.
"	467' / 142.34m	142.10														
"		142.10	142.20	0.10		000301	BL				0	SO		CLY		As above, soft. Hanging wall sample E2.
"		142.20	142.33	0.13		000302	BL				0	SO		Cdab	E2	Hard.
"		142.33	142.42	0.09		"	BL				0	SO		Cd	E2	Hard.
"		142.42	142.44	0.02		"	BL				0	SB		Bn	E2	Hard, some rubble.
"		142.44	142.58	0.14	0.14	"										Coal loss.
"		142.58	142.69	0.11		"	BL				0	SO		Cd	E2	Hard.
"		142.69	142.73	0.04		"	BL				0	IN		Cdab	E2	Hard.
"		142.73	142.98	0.25		"	BL				0	IN		Cdb	E2	Hard. Bottom Contact intact.
"		142.98	143.08	0.10		000303	DG				0	SO		CLY.		Massive, soft. Footwall sample E2.
"		143.08	143.11	0.03			BL				0	SO		CLY.		As above.
"		143.11	143.23	0.12			MG			34	0	SO		CSLT		Laminated on bedding, transitional zone.
"		143.23	143.64	0.41			LG				0	SO		FSST		Frequent thin, dark bedding laminae.
"	472' / 143.87m	143.64														
"		143.64	143.73	0.09			LG				0	SO		FSST		As above.
"		143.73	143.96	0.23			MG		SSD		0	SO		CSLT		Contains sandy sections.
"		143.96	144.37	0.41			MG		TL	32	0	SO		FSLT		Lower 10cm clayey.
"		144.37	144.77	0.40			DG				0	IN		CLY		Massive.
"		144.77	144.97	0.20			BL				0	IN		CC		Massive, increasing carbon content with depth.
"		144.97	145.03	0.06			BL				0	IN		Cdb	E3	Upper contact intact.
"		145.03	145.11	0.08			BL				0	MB		Cdb	E3	
32		145.11														Top of Box #32
"		145.11	145.52	0.41	0.41											Coal loss.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		145.52	145.65	0.13			BL				0	VB		CC	E3	Rubby and ground, includes HCC and some coal pieces.
"		145.65	145.75	0.10			DG				1	SO		CLY		Some carbonaceous laminae in top 2cm.
"		145.75	145.80	0.05			MG				1	SO		FSLT		Gradational contact zone.
"		145.80	146.65	0.85			LG			28	2	SO		FSST		Silty bedding laminae common.
"	482' / 146.91	146.65														
"		146.65	147.47	0.82			LG				3	SO		FSST		As above, less silty. White calcite veinlet 5mm at 146.75m
"		147.47	147.69	0.22			DG				1	IN		FSLT		Lower half clayey.
"		147.69	148.12	0.43			LG				3	SO		FSST		Same as FSST above.
"	487' / 148.44m	148.12														
"		148.12	148.40	0.28			LG				3	SO		FSST		As above.
"		148.40	148.55	0.15			MG				2	SO		FSLT		Bioturbated.
"		148.55	148.64	0.09			MG				2	MB		FSLT		As above, brecciated with fine calcite veinlets throughout.
"		148.64	148.77	0.13			LG				2	IN		FSST		Carbonaceous parting on lower surface.
"		148.77	148.93	0.16			LG				2	MB		FSST		As above, frequent carbonaceous coatings.
"		148.93	149.40	0.47			LG				3	SO		FSST		Fairly massive, calcite fracture coatings common. Lower 0.07m brecciated zone with calcite fillings, frx 60-70° <small>to core normal</small>
"		149.40	149.72	0.32			MG				2	SO		MSLT		Contorted.
33	492' / 149.96m	149.72														Top of Box #33
"		149.72	150.05	0.33			MG				2	SO		MSLT		As above.
"		150.05	150.31	0.26			DG				1	IN		CLY		Massive.
"		150.31	151.03	0.72			DG		WB	40	2	IN		FSLT		Bedded, some concretionary zones.
"		151.03	151.13	0.10	0.10											Rock loss.
"		151.13	151.21	0.08			DG				2	IN		FSLT		As above, top surface ground.
"	497' / 151.49m	151.21														
"		151.21	152.83	1.62			DG				2	SO		FSLT		As above, bedding vague, a few CSLT sections.
"	502' / 153.01m	152.83														
"		152.83	152.88	0.05	0.05											Rock loss.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		152.88	153.15	0.27			DG				2	IN		FSLT		As above, massive, clayey. Top of section ground.
"		153.15	154.33	1.18			DG				2	IN		FSLT		Massive to bioturbated, extensive concretionary section 153.5-153.8m.
34		154.33														Top of Box #34
"		154.33	154.44	0.11			DG				2	IN		FSLT		As above.
"	507' / 154.33m	154.44														
"		154.44	154.52	0.08			DG				2	IN		FSLT		As above.
"		154.52	155.22	0.70			DG				1	SO		CLY		Massive, silty, non-concretionary.
"		155.22	155.93	0.71			DG				2	SO		FSLT		Clayey, dark, concretionary. Occasional coaly bands to 5mm.
"	512' / 156.06m	155.93														
"		155.93	157.11	1.18			DG				2	SO		FSLT		As above, somewhat brecciated with white calcite veinlets.
"		157.11	157.53	0.42			DG				2	SO		FSLT		As above, massive.
"	517' / 157.56m	157.53														
"		157.53	158.25	0.72			DG				2	SO		FSLT		As above, bioturbated.
"		158.25	158.77	0.52			DG			38	2	SO		FSLT		As above, bedded.
35		158.77														Top of Box #35
"		158.77	159.01	0.24			DG				2	SB		FSLT		As above.
"	522' / 159.11	159.01														
"		159.01	159.77	0.76			DG			47	2	SO		FSLT		As above, bedded.
"		159.77	160.37	0.60			DG				2	SO		FSLT		As above, massive.
"	527' / 160.63m	160.37														
"		160.37	160.80	0.43			MG				1	SO		MSLT		Massive, brownish, top surface ground.
"		160.80	161.09	0.29			DG				2	SO		FSLT		Somewhat clayey, some surfaces ground.
"		161.09	161.98	0.89			DG				2	SO		FSLT		Massive.
"	532' / 162.15m	161.98														
"		161.98	163.18	1.20			DG				2	SO		FSLT		Massive, often bioturbated.
36		163.18														Top of Box #35

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		163.18	163.50	0.32			DG				2	SO		FSLT		As above, bedded.
"	537' / 163.68m	163.50														
"		163.50	164.10	0.60			DG				2	SO		FSLT		As above, bedded, somewhat clayey. Some brecciated sections to 0.15m long.
"		164.10	165.05	0.95			MG			32	2	SO		FSLT		Bedded.
"	542' / 165.20m	165.05														
"		165.05	165.37	0.32			MG			32	2	IN		FSLT		As above.
"		165.37	166.14	0.77			DG				2	SO		FSLT		Massive, often bioturbated.
"		166.14	166.39	0.25			DG				2	SO		FSLT		As above, bedded.
"		166.39	166.53	0.14			DG				1	SO		CLY		Silty, bioturbated.
"	547' / 166.73m	166.53														
"		166.53	166.85	0.32			DG				1	SO		CLY		As above, massive.
"		166.85	167.48	0.63			DG				2	SO		FSLT		Massive, often bioturbated.
37		167.48														Top of Box #37
"		167.48	168.08	0.60			DG				2	SO		FSLT		As above, massive. Lower surface ground.
"	552' / 168.25m	168.08														
"		168.08	168.30	0.22			DG				1	SO		CLY		Massive. Both ends ground.
"		168.30	169.55	1.25			DG				2	SO		FSLT		Massive, generally bioturbated, concretionary.
"	557' / 169.77m	169.55														
"		169.55	170.11	0.56			DG			30	1	SO		FSLT		As above, vaguely bedded. Lower surface carbonaceous parting.
"		170.11	170.18	0.07		000304										As above, 0.10m hanging wall sample.
"		170.18	170.21	0.03		"	BL				0	VB		CC		Rounded pieces, 0.10m hanging wall sample.
"		170.21	170.36	0.15	0.15											Rock loss.
"		170.36	170.53	0.17		000305	BL				0	IN		St		F bone, may be HCC, lower 0.03m broken.
"		170.53	170.58	0.05		"	BL			30	0	SO		St		F bone
"		170.58	170.67	0.09		"	BL				0	SB		Bn		F bone
"		170.67	170.71	0.04		000306	BL				0	SO		Cd	F	



Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCl	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		170.71	170.89	0.18		"	BL				0	IN		Cdab	F	Clarain
"		170.89	170.97	0.08		"	BL				0	SB		Cdb	F	
"		170.97	171.05	0.08		"	BL				0	MB		Cd	F	
"		171.05	171.13	0.08		"	BL				0	MB		Cdb	F	
"	562' / 171.30m	171.13				"										
"		171.13	171.27	0.14	0.14	"									F	Coal loss.
"		171.27	171.37	0.10		"	BL				0	SO		Cdb	F	Top surface ground.
"		171.37	171.57	0.20		"	BL				0	MB		Cdb	F	
"		171.57	171.75	0.18		000307	BL				0	SO		Cd	F	A few bright bands.
"		171.75	171.92	0.17		"	BL				0	SO		Cd	F	
"		171.92	172.05	0.13		"	BL				0	SO		Cd	F	A few bright bands.
"		172.05	172.16	0.11		"	BL				0	SO		Cd	F	
38		172.16														Top of Box #38
"		172.16	172.22	0.06		"	BL				0	SO		Cd	F	A few bright bands.
"		172.22	172.38	0.16		"	BL				0	IN		Cd	F	A few bright bands.
"		172.38	172.50	0.12		"	BL				0	SO		Cd	F	
"		172.50	172.62	0.12		"	BL				0	SO		Cdb	F	
"		172.62	172.65	0.03		"	BL				0	MB		Cdb	F	
"	567' / 172.82m	172.65				"									F	
"		172.65	172.74	0.09		"	BL				0	SO		Cd	F	Surfaces ground.
"		172.74	173.27	0.53	0.53	"									F	Coal loss.
"		173.27	173.39	0.12		000308	BL				0	IN		Cd	F	Some polished surfaces.
"		173.39	173.45	0.06		"	BL				0	SB		Cd	F	Some polished surfaces.
"		173.45	173.57	0.12		000309	BL	HSH			0	IN		HCC	F	Parting.
"		173.57	173.60	0.03		"	BL				0	SO		Bn	F	Parting.
"		173.60	173.72	0.12		000310	BL				0	IN		Cd	F	

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		173.72	173.76	0.04		"	BL				0	VB		Cd	F	
"		173.76	174.30	0.54	0.54										F	Coal loss.
"	572' / 174.35m	174.30														
"		174.30	174.40	0.10		000311	BL				0	IN		CC		Frequent carbonaceous partings, 0.10m footwall sample.
"		174.40	174.47	0.07			BL				0	IN		CC		As above.
"		174.47	174.75	0.28			DG				0	SO		CLY		Massive, occasional carbonaceous partings.
"		174.75	174.85	0.10			MG				0	SO		FSLT		Gradational contact zone.
"		174.85	175.30	0.45			LG		XB		1	SO		FSST		Silty laminae common in top 10cm.
"		175.30	175.50	0.20			MG				1	SO		CSLT		Variable unit.
"		175.50	175.64	0.14			MG				1	SB		CSLT		As above.
"	577' / 175.87m	175.64														
"		175.64	175.78	0.14	0.14											Rock loss.
"		175.78	176.05	0.27			MG				1	IN		FSST		Very fine grained, with silty laminae throughout.
"		176.05	176.37	0.32			MG				1	SO		FSST		As above.
"		176.37	177.16	0.79			MG				0	SO		FSLT		Massive.
"	582' / 177.39m	177.16														
"		177.16	177.63	0.47			MG				0	SO		FSLT		As above.
39		177.63														Top of Box #39
"		177.63	178.66	1.03			MG			45	1	SO		FSLT		As above, vaguely bedded. Lower 0.06m intact.
"	587' / 178.92m	178.66														
"		178.66	180.17	1.51			MG				1	SO		FSLT		As above.
"	592' / 180.44m	180.17														
"		180.17	181.51	1.34			MG			66	1	IN		FSLT		As above, bedded.
"		181.51	181.69	0.18			MG				1	SB		FSLT		As above.
"	597' / 181.97m	181.69														
"		181.69	181.94	0.25			MG				1	IN		FSLT		As above.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample		Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)			Number	Color									
40		181.94														Top of Box #40
"		181.94	182.48	0.54			MG				1	IN		FSLT		As above, clayey, lower half darker.
"		182.48	182.55	0.07			MG				1	CR		FSLT		Rock and clay, possible fault.
"		182.55	182.65	0.10			DG				0	MB		CLY		Soft, decrepitating, some polished surfaces.
"		182.65	182.84	0.19			DG				0	IN		CLY		As above.
"		182.84	183.02	0.18			DG				0	IN		CC		Frequent carbonaceous partings.
"		183.02	183.16	0.14			BL				0	VB		Cd	CZ	
"		183.16	183.31	0.15	0.15										CZ	Coal loss.
"	602' / 183.49m	183.31														
"		183.31	183.38	0.07			BL				0	SO		HCC	CZ	Frequent coaly laminae.
"		183.38	184.06	0.68			DG				0	IN		CLY		Silty, massive.
"		184.06	184.18	0.12			MG				0	SO		FSLT		Concretions.
"		184.18	184.51	0.33			MG				1	SO		CSLT		Thinly laminated.
"		184.51	184.66	0.15			MG			55	1	SO		FSLT		Bedded.
"		184.66	185.25	0.59			MG				2	SB		FSLT		As above.
"		185.25	185.40	0.15			MG				0	CR		FSLT		Fault zone, clayey.
"		185.40	186.25	0.85	0.85											Rock loss
"	612' / 186.54m	186.25														
"		186.25	186.50	0.25			DG				0	IN		CLY		Silty, massive, finely brecciated with white calcite veinlets, occasional carbonaceous partings
"		186.50	186.95	0.45			MG			47	1	IN		CSLT		Thinly laminated.
"		186.95	187.11	0.16			MG				1	MB		CSLT		As above.
41		187.11														Top of Box #41
"		187.11	187.42	0.31			DG				0	MB		CLY		Silty, massive.
"		187.42	187.48	0.06			DG				0	CR		CLY		Fault zone?
"		187.48	187.65	0.17	0.17											Rock loss.
"		187.65	187.77	0.12			DG				0	MB		CLY		As above.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"	617 / 188.06m	187.77														
"		187.77	187.82	0.05			DG				0	MB		CLY		As above.
"		187.82	187.85	0.03			BL				0	CR		CC		Mud, coaly fragments
"		187.85	187.90	0.05	0.05											Rock loss
"		187.90	187.95	0.05			DG				0	MB		HCC	CZ	Increasingly carbonaceous.
"		187.95	188.09	0.14			BL				0	IN		Cdab	CZ	
"		188.09	188.34	0.25	0.25										CZ	Coal loss.
"		188.34	188.36	0.02			BL				0	IN		HCC	CZ	
"		188.36	188.39	0.03			BL				0	MB		HCC	CZ	Polished surfaces.
"		188.39	188.46	0.07			DG				0	MB		CC		Frequent carbonaceous partings.
"		188.46	188.81	0.35			DG				0	IN		CLY		Massive, some carbonaceous partings.
"		188.81	188.93	0.12			DG				0	SB		CLY		As above.
"		188.93	189.04	0.11			DG				0	VB		CLY		As above.
"		189.04	189.24	0.20	0.20											Rock loss.
"		189.24	189.48	0.24			DG				0	MB		CLY		As above.
"		189.48	189.56	0.08			DG				0	VB		CLY		As above.
"		189.56	189.84	0.28			BL				0	IN		CLY		Somewhat carbonaceous, soft, coaly laminae common.
"		189.84	190.39	0.55			DG				0	IN		CLY		Massive, some carbonaceous partings.
"		190.39	190.81	0.42			DG				0	IN		CLY		Silty, lighter color than above.
"	627 / 191.11m	190.81														
"		190.81	191.98	1.17			MG				1	SO		FSLT		Massive, concretionary.
42		191.98														Top of Box #42
"		191.98	192.30	0.32			MG				1	SO		FSLT		As above.
"	632' / 192.63m	192.30														
"		192.30	192.99	0.69			MG			42	2	SO		MSLT		Bedded, many CSLT sections.
"		192.99	193.31	0.32			MG				1	SO		FSLT		Massive.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		193.31	193.89	0.58			MG				1	IN		MSLT		Bedded.
"	637' / 194.16m	193.89														
"		193.89	195.43	1.54			MG			43	0	SO		FSLT		Banded.
"	642' / 195.68m	195.43														
"		195.43	196.38	0.95			DG				0	SO		CLY		Massive, silty, some banding in center.
43		196.38														Top of Box #43
"		196.38	196.99	0.61			DG				0	IN		CLY		As above. Massive.
"	647' / 197.21m	196.99														
"		196.99	197.88	0.89			DG				0	MB		CLY		As above.
"		197.88	198.53	0.65			DG				0	IN		CLY		Harder than above.
"	652' / 198.73m	198.53														
"		198.53	198.72	0.19			DG				0	SO		CLY		As above.
"		198.72	200.00	1.28			DG				0	SO		FSLT		Clayey, vaguely banded.
"	657' /v 200.25m	200.00														
"		200.00	200.34	0.34			DG				0	SO		FSLT		As above.
"		200.34	200.77	0.43			DG				0	MB		CLY		Decrepitating, frequent carbonaceous partings.
"		200.77	200.99	0.22	0.22											Rock loss.
44		200.99														Top of Box #44
"		200.99	201.34	0.35			DG				0	SB		CLY		As above.
"		201.34	201.57	0.23			DG				0	IN		CLY		As above.
"	662' / 201.78m	201.57														
"		201.57	201.81	0.24			DG				0	IN		CLY		As above.
"		201.81	203.09	1.28			DG				0	SO		FSLT		Massive, hard, often concretionary.
"	667' / 203.30m	203.09														
"		203.09	203.97	0.88			DG				0	SO		FSLT		As above.
"		203.97	204.61	0.64			MG				0	SO		FSLT		Vaguely banded.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"	672' / 204.83m	204.61														
"		204.61	205.43	0.82			MG				0	IN		FSLT		As above.
45		205.43														Top of Box #45
"		205.43	206.04	0.61			MG				0	IN		FSLT		As above.
"		206.04	206.14	0.10	0.10											Rock loss.
"	677' / 206.35m	206.14														
"		206.14	206.53	0.39			MG				0	SO		FSLT		As above.
"		206.53	206.66	0.13			MG				0	IN		FSLT		As above, grinding on both ends.
"		206.66	206.72	0.06	0.06											Rock loss.
"		206.72	207.14	0.42			MG				0	SO		FSLT		As above.
"		207.14	207.66	0.52			MG				0	SO		FSLT		Bedded.
"	682' / 207.87m	207.66														
"		207.66	209.18	1.52			MG			51	0	SO		FSLT		As above.
"	687' / 209.40	209.18														
"		209.18	209.42	0.24			MG				0	SO		FSLT		As above.
"		209.42	209.95	0.53			MG				0	SB		FSLT		As above, grinding visible in several places.
"		209.95	210.58	0.63	0.63											Rock loss.
46		210.58														Top of Box #46
"		210.58	210.70	0.12			MG				0	SO		FSLT		As above.
"	692' / 210.92m	210.70														
"		210.70	211.20	0.50			MG				0	SB		FSLT		As above, grinding visible in several places.
"		211.20	211.65	0.45	0.45											Rock loss.
"		211.65	211.70	0.05			MG				0	SO		FSLT		As above.
"		211.70	212.27	0.57			DG				0	SO		FSLT		Clayey, vaguely banded, sometimes concretionary.
"	697' / 212.44m	212.27														
"		212.27	213.18	0.91			DG				0	SO		FSLT		As above.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		213.18	213.25	0.07			DG				0	SB		FSLT		As above.
"		213.25	213.74	0.49			DG				0	IN		FSLT		As above.
"	702' / 213.96m	213.74														
"		213.74	213.96	0.22			DG				0	IN		FSLT		As above.
"		213.96	215.26	1.30			MG			44	0	SO		FSLT		Bedded, sometimes concretionary.
47	707' / 215.49m	215.26														Top of Box #47
"		215.26	216.78	1.52			MG			54	0	SO		FSLT		As above.
"	712' / 217.02m	216.78														
"		216.78	218.30	1.52			MG				0	SO		FSLT		As above.
"	717' / 218.54m	218.30														
"		218.30	218.36	0.06	0.06											Rock loss.
"		218.36	219.79	1.43			MG		SSD		0	SO		FSLT		As above. 1cm dolomite vein 15° CN at 219.55m
48		219.79														Top of Box #48
"		219.79	219.82	0.03			MG				0	SO		FSLT		As above.
"	722' / 220.07m	219.82														
"		219.82	220.20	0.38			MG			55	0	IN		FSLT		As above, lower 0.05m broken.
"		220.20	220.33	0.13	0.13											Rock loss.
"		220.33	220.49	0.16			MG				0	SO		CSST		Bedded with dark laminae throughout.
"		220.49	220.99	0.50			MG				0	SO		FSLT		Vaguely banded, some fine brecciation with white carbonate fracture fillings.
"		220.99	221.34	0.35			DG				0	SO		FSLT		Massive, fairly hard.
"	727' / 221.60m	221.34														
"		221.34	222.86	1.52			DG				0	SO		FSLT		As above.
"	732' / 223.11m	222.86														
"		222.86	223.05	0.19			DG				0	SO		FSLT		As above.
"		223.05	223.15	0.10			DG				0	MB		FSLT		As above.
"		223.15	223.46	0.31			DG				0	SO		FSLT		As above, some concretions.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		223.46	224.37	0.91			DG				0	IN		FSLT		Similar to above, some MSLT sections.
49	737' / 224.63m	224.37														Top of Box #49
"		224.37	225.87	1.50			DG				0	SO		FSLT		Occasional CSLT laminae throughout.
"	742' / 226.16m	225.87														
"		225.87	227.37	1.50			DG			62	0	SO		FSLT		As above.
"	747' / 227.69m	227.37														
"		227.37	227.45	0.08	0.08											Rock loss.
"		227.45	228.19	0.74			DG				0	SO		FSLT		As above.
"		228.19	228.89	0.70			DG				0	SO		FSLT		As above.
50	752' / 229.21m	228.89														Top of Box #50
"		228.89	228.95	0.06			DG				0	SO		FSLT		As above.
"		228.89	229.51	0.62			MG				0	SO		MSLT		Variable grain size throughout, some CSLT sections.
"		229.51	230.41	0.90			DG				0	SO		FSLT		Massive, occasionally concretionary
"		230.41	231.57	1.16			DG				0	SO		CLY		Massive, occasionally concretionary
"		231.57	231.81	0.24			DG				0	SO		FSLT		Massive, occasionally CSLT alminae.
"	762' / 232.26m	231.81														
"		231.81	233.30	1.49			DG				0	SO		FSLT		Massive, uniform throughout.
51	767' / 233.78m	233.30														Top of Box #51
"		233.30	234.79	1.49			DG				0	SO		FSLT		As above, a few concretions.
"	772' / 235.31m	234.79														
"		234.79	234.90	0.11			DG				0	SO		FSLT		As above.
"		234.90	235.18	0.28			MG			56	0	SO		CSLT		Laminated.
"		235.18	235.31	0.13			DG				0	SO		CLY		Massive.
"		235.31	235.64	0.33			DG				0	SB		FSLT		Massive.
"		235.64	236.23	0.59			DG				0	IN		FSLT		Massive, occasionally concretionary
"	777' / 236.83m	236.23														



Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		236.23	236.69	0.46			DG				0	SO		FSLT		As above.
"		236.69	237.77	1.08			DG				0	SO		CLY		Massive silty in sections, lower 0.2m darker, more carbonaceous.
52	782' / 238.35m	237.77														Top of Box #52
"		237.77	238.01	0.24			DG				0	SO		CLY		As above.
"		238.01	238.66	0.65			MG		SSD	44	0	SO		MSLT		Bedded, a few CSTL sections.
"		238.66	239.03	0.37			MG				0	SO		CSLT		Bedded, some MSLT sections.
"		239.03	239.30	0.27			MG				0	SO		MSLT		Vaguely bedded.
"	787' / 239.88m	239.30														
"		239.30	239.50	0.20			DG				0	SO		MSLT		As above.
"		239.50	239.85	0.35			DG		SSD		0	SO		FSLT		Gradational contact zone.
"		239.85	240.20	0.35			DG				0	SO		CLY		Massive, darkens with depth, lower surface ground.
"		240.20	240.37	0.17			BL				0	IN		CC		Carbonaceous laminae throughout.
"		240.37	240.40	0.03			BL				0	SB		CC		Piece of rubble
"		240.40	240.65	0.25	0.25											Rock loss.
"	792' / 241.40m	240.65														
"		240.65	240.75	0.10		000312	BL				0	VB		HCC		Rubble, some stoney and boney mixed in. Hanging wall sample.
"		240.75	242.25	1.50	1.50											Coal loss.
"		242.25	242.34	0.09		000313	BL				0	VB		Cd	G	Rubble.
"	797' / 242.93m	242.34														
"		242.34	242.61	0.27		"	BL				0	VB		Cd	G	Rubble.
"		242.61	243.86	1.25	1.25										G	Coal loss.
"	802' / 244.45m	243.86														
"		243.86	243.94	0.08		000314	BL				0	SO		Cdb	G	
"		243.94	244.14	0.20		"	BL				0	SO		Cdb	G	Hard.
"		244.14	244.30	0.16		"	BL				0	MB		Cd	G	Ground pieces.
"		244.30	244.45	0.15	0.15	"									G	Coal loss.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCl	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		244.45	244.73	0.28		000315	BL	SSH			0	IN		Cd	G	Polished surfaces common.
"		244.73	244.94	0.21		000316	BL				0	SO		Cd	G	
"		244.94	245.01	0.07		"	BL				0	SO		Cd	G	
"		245.01	245.23	0.22		"	BL				0	IN		Cdb	G	
53		245.23														Top of Box #53
"		245.23	245.32	0.09		"	BL				0	SB		Cd	G	
"		245.32	245.37	0.05	0.05	"									G	Coal loss.
"	807' / 245.97m	245.37														
"		245.37	245.60	0.23		000317	BL				0	VB		Cd	G	Rubble, a few bone pieces.
"		245.60	246.63	1.03	1.03										G	Coal loss.
"		246.63	246.71	0.08		000318	BL				0	IN		Cdab	G	
"		246.71	246.84	0.13		"	BL				0	SO		Cdb	G	
"		246.84	246.89	0.05		"	BL				0	MB		Cd	G	Includes some Bn. Ground surfaces.
"	812' / 247.49m	246.89														
"		246.89	247.39	0.50	0.50										G	Coal loss.
"		247.39	247.42	0.03		000319	BL				0	IN		CC		0.10m footwall sample.
"		247.42	247.49	0.07		"	DG				0	SO		CLY		As below, 0.10m footwall sample.
"		247.49	248.24	0.75			DG			44	0	SO		CLY		Massive, some silty sections, bedding plane fractures.
"	817' / 249.02m	248.24														
"		248.24	248.42	0.18			DG				0	SO		CLY		Massive, some silty sections.
"		248.42	248.44	0.02			BL				0	VB		Cd	I	Rubble, coal and HCC.
"		248.44	249.28	0.84											I	Coal loss.
"		249.28	249.49	0.21			BL				0	SO		CC		Coaly bands common.
"		249.49	249.91	0.42			DG				0	IN		CLY		Somewhat carbonaceous, some silty bands.
"		249.91	249.99	0.08			BL				0	SO		CC		Coaly bands common.
"	822' / 250.55m	249.99														

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		249.99	250.10	0.11			DG				0	SB		CLY		Some coaly bands.
"		250.10	250.53	0.43	0.43											Rock loss.
"		250.53	250.61	0.08			MG				0	SB		CLY		Massive, silty.
"		250.61	250.88	0.27			MG				0	IN		FSLT		Transitional zone.
"		250.88	251.91	1.03			MG			34	0	SO		MSLT		Vaguely laminated, some CSLT.
"	827' / 252.07m	251.91														
"		251.91	252.06	0.15			MG				0	SO		MSLT		As above.
54		252.06														Top of Box #54
"		252.06	252.81	0.75			MG				0	SO		MSLT		As above.
"		252.81	253.13	0.32			MG				0	IN		MSLT		As above.
"		253.13	253.50	0.37			MG				0	SO		MSLT		As above.
"	832' / 253.60m	253.50														
"		253.50	254.32	0.82			MG			36	0	SO		MSLT		As above, more prominent laminations.
"		254.32	254.41	0.09			MG				0	SO		FSLT		Transitional zone.
"		254.41	254.68	0.27			DG				0	SO		CLY		Some laminations.
"		254.68	254.79	0.11			BL				0	SB		CLY		Increasing carbon content.
"		254.79	254.89	0.10		000320	BL				0	SB		CLY		As above, 0.10m hanging wall sample.
"	837' / 255.12m	254.89														
"		254.89	256.09	1.20	1.20										J	Coal loss.
"		256.09	256.41	0.32		000321	BL				0	VB		Cdb		Coal rubble.
"	842' / 256.64m	256.41														
"		256.41	256.47	0.06		"	BL				0	SO		Cd	J	With fusain lenses.
"		256.47	256.69	0.22		"	BL				0	VB		Cd	J	Coal rubble, a few boney pieces.
"		256.69	257.79	1.10	1.10										J	Coal loss.
"		257.79	257.94	0.15		000322	BL				0	SO		Cdab	J	
"	847' / 258.17m	257.94														

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		257.94	258.14	0.20		"	BL				0	VB		Cdb	J	Coal rubble.
"		258.14	258.44	0.30	0.30										J	Coal loss.
"		258.44	258.67	0.23		000323	BL				0	SO		Bn	J	
"		258.67	258.73	0.06		000324	BL				0	SB		Cdb	J	Ground core present..
"		258.73	258.78	0.05	0.05	"									J	Coal loss.
55		258.78														Top of Box #55
"		258.78	258.90	0.12		"	BL				0	SO		Cd	J	Hard, high-ash, may be some Bn present.
"		258.90	259.12	0.22		"	BL				0	VB		Cd	J	Angular, not ground.
"		259.12	259.31	0.19		"	BL				0	SB		Cdb	J	Some Cdb pieces, angular, not ground.
"		259.31	259.37	0.06		"	BL				0	SO		Cdb	J	
"	852' / 259.69m	259.37														
"		259.37	260.34	0.97	0.97											Coal loss.
"		260.34	260.48	0.14		000325	BL				0	VB		Cd	J	Coal rubble.
"		260.48	260.62	0.14		000326	BL				0	IN		Cd	J	
"		260.62	260.79	0.17		"	BL				0	SO		Cd	J	
"		260.79	260.98	0.19		"	BL		SSH		0	SB		Cd	J	
"	857' / 261.22m	260.98									0					
"		260.98	261.11	0.13		000327	BL				0	VB		Cd	J	Coal rubble.
"		261.11	261.41	0.30	0.30										J	Coal loss.
"		261.41	261.54	0.13		000328	BL				0	SO		Cd	J	
"		261.54	261.55	0.01		"	BL				0	SO		Bn	J	
"		261.55	261.63	0.08		"	BL				0	IN		Cd	J	
"		261.63	261.73	0.10		"	BL				0	MB		Cd	J	
"		261.73	261.86	0.13		"	BL				0	SO		Cd	J	
"		261.86	261.94	0.08		"	BL				0	VB		Cd	J	Some ground core.
"		261.94	262.26	0.32	0.32										J	Coal loss.

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)	HCI	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)													
"		262.26	262.37	0.11		000329	BL				0	SB		Cdb	J	
"		262.37	262.50	0.13		"	BL				0	SO		Cd	J	
"	862' / 262.74m	262.50														
"		262.50	262.56	0.06		"	BL				0	MB		Cd	J	Ground core.
"		262.56	263.41	0.85	0.85										J	Coal loss.
"		263.41	263.73	0.32		000330	BL				0	SO		Cd	J	A few bright bands.
"		263.73	264.01	0.28		"	BL		SSH			IN		Cd	J	
"	867' / 264.26m	264.01														
"		264.01	264.35	0.34		000331	BL				0	VB		Cdb	J	Coal rubble, a few Bn pieces.
"		264.35	265.55	1.20	1.20										J	Coal loss.
"	872' / 265.79m	265.55														
"		265.55	265.65	0.10		000332	BL				0	VB		Cd	J	Coal rubble.
"		265.65	266.61	0.96	0.96										J	Coal loss.
"		266.61	266.71	0.10		000333	BL				0	SO		CLY		Somewhat carbonaceous, 0.10m footwall sample.
"		266.71	266.85	0.14			BL				0	SO		CLY		As above.
"		266.85	267.26	0.41			DG				0	SO		CLY		Massive.
"		267.26	267.31	0.05			MG				0	SO		FSLT		Some laminations visible.
56		267.31														Top of Box #56
"		267.31	267.72	0.41			MG				0	SO		MSLT		Some CSLT present, folded bedding.
"		267.72	267.80	0.08			DG				0	SO		CLY		Massive.
"		267.80	268.34	0.54			MG			27	0	SO		MSLT		Many black laminae.
"		268.34	268.41	0.07			DG				0	IN		CLY		Massive.
"		268.41	269.19	0.78			MG			27	0	SO		MSLT		As above.
"		269.19	269.27	0.08			DG				0	SO		CLY		Massive.
"		269.27	269.47	0.20			MG			27	0	SO		MSLT		As above.
"		269.47	269.76	0.29			DG				0	IN		CLY		Massive.
"		269.76	270.24	0.48			MG			27	0	SO		MSLT		As above.
"	887' / 270.36m															End of Hole

Peace River Coal Inc.

DRILL CORE LOG

Hole No. DDHTR2006-2

Area: Roman

Logged By: DT

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Date Begun: Sept 2006

Collar Bearing: 035

Date Logged: Nov. 9-14/06

Date Finished: Oct 2006

Collar Elev. (m): 2018.811

Northing: 6082830.847

Hole Size: HQ

Hole Angle: 60°

Easting: 631314.295

Total Depth (m): 121.00 m

Projection: NAD 83 Zone 10

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)		HCl	Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)							Roof	Floor						
1	8ft/2.44m																Top of box 1
		2.44	2.63	0.19			LG					0	IN		CGL		Well sorted chert pebbles avg 5mm grain size - matrix supported
		2.63	2.84	0.21			LG					0	IN		CGL		As above - smaller grain size
		2.84	7.01	4.17			LG					0	IN		CGL		Mixed pebble sizes up to 3cm diam - matrix supported
2	23ft/7.01m																top of box 2
		7.01	7.79	0.78			LG					0	IN		CGL		Mixed pebble sizes up to 3cm diam - matrix supported
		7.79	7.88	0.09			LG					0	SO		CSST		Transition zone- a few pebbles up to 2 cm in SST matrix
		7.88	8.44	0.56			LG			34		0	SO		CSST		Fining downwards, faint bedding visible
		8.44	9.14	0.70			LG		TL/XB	25		0	SB		FSST		Broken at top of interval, possible loss area (only 0.4m measured core to marker) thin laminations, most @ 25°, some wavy and cross beds
	30 ft/9.14m																
		9.14	10.49	1.35			LG		TL/XB			0	SB		FSST		As above (1.13m measured)
		10.49	10.59	0.10			MB					0	SO		CGL		Ground core - brown mud stained - rounded top
	34.74ft/10.59m																
		10.59	10.79	0.20			LG					0	HB		FSST		Broken pieces, roughly 2-3 cm cubes
		10.79	11.15	0.36			LG		TL	30		0	IN		FSST		Thin laminations
		11.15	11.41	0.26			Pink					0	IN		FSLT		Hard, pinkish stain
		11.41	11.56	0.15			LB		TL	30		0	SO		FSST		Thin laminations
3	37.92ft/11.56m																Top of box 3

		11.56	11.76	0.20			LB		TL	30		0	IN		FSST		As above
	38.58ft/11.76m																
		11.76	12.35	0.59			LB			30		0	IN		FSST		As above – faint bedding – occasional pebbly bands
		12.35	12.41	0.06			LG					0	SB		CGL		Pebbles up to 1cm, fining downwards – slightly ground at bottom of section – loss?
		12.41	12.87	0.46	0.46										CGL		Rock loss
		12.87	13.07	0.20			LG					0	SB		CGL		Pebbles up to 1cm, fining downwards – slightly ground at top of section – loss?
		13.07	13.41	0.34			LB			20		0	IN		FSST		Sharp contact with upper CGL unit (0.34m measured)
	44ft/13.41m																
		13.41	13.83	0.42			LG			10		0	SO		FSST		Faint bedding
		13.83	13.98	0.15			MB					1	CR		CLY		Ground muddy particles
		13.98	14.93	0.95	0.95												Rock loss
	49ft/14.93m																
		14.93	16.46	1.53			LG					0	IN		CGL		Pebbles up to 1 cm
	54ft/16.46m																
		16.46	16.76	0.30			LG					0	IN		CGL		Pebbles up to 4 cm, clast supported
		16.76	17.37	0.61			LG					0	IN		CGL		Well sorted, pebbles avg 4-5mm, clast supported
4	57ft/17.37m																top of box 4
		17.37	19.51	2.14			LG					0	IN		CGL		As above, occasional pebbles up to 5 cm
	64ft/19.51m																
		19.51	20.33	0.82			LG					0	IN		CGL		As above
		20.33	20.42	0.09			LG					0	SB		CGL		Softer, crumbly section
		20.42	21.94	1.52			LG					0	IN		CGL		Mixed pebble sizes 1-10mm, clast supported

5	72ft/21.94m															top of box 5
		21.94	22.55	0.61						0	IN		CGL			As above – larger chert pebbles are rounded and vary in colour – white, grey, greenish, black
	74ft/22.55m															
		22.55	25.60	3.05						0	IN		CGL			As above – very porous
	84ft/25.60m															
		25.60	26.21	0.61						0	IN		CGL			As above – 10cm slightly broken and orange stained section at 25.80m
6	86ft/26.21m															top of box 6
		26.21	28.65	2.44						0	IN		CGL			Mixed pebble sizes 1-10mm, clast supported, occasional pebbles up to 5 cm
	94ft/28.65m															
		28.65	30.78	2.13						0	IN		CGL			As above
7	101ft/30.78m															top of box 7
		30.78	31.70	0.92						0	IN		CGL			As above
	104ft/31.70m															
		31.70	33.00	1.30						0	IN		CGL			As above
		33.00	33.44	0.44						0	SO		CGL			As above – orange stained
		33.44	33.53	0.09						0	SO		CGL			Large pebbles 1-4cm, matrix supported, slight orange stain
	110ft/33.53m															
		33.53	33.59	0.06						0	SO		CGL			AS ABOVE
		33.59	34.07	0.48						0	IN		CGL			MIXED PEBBLE SIZES UP TO 3CM DIAM. - matrix supported
		34.07	34.17	0.10		000251				0	SO		CGL			AS ABOVE - HW to D1 seam - HW sample



		34.17	34.23	0.06		000252	BL			25		0	IN		Cd	D1	SOFT, CRUMBLY
		34.23	34.65	0.42		000252	BL					0	SB		Cd	D1	Occasional 1-3mm bright bands
		34.65	34.75	0.10		000252	BL					0	SB		Cdb	D1	Abundant bright bands
	114ft/34.75m																
		34.75	34.77	0.02		000252	BL	SH				0	CR		Cd	D1	Sheared flakes
		34.77	34.87	0.10		000253	DB					0	HB		CLY		Broken core with abundant black mud in box – FW of D1 seam sample
		34.87	35.05	0.18			MG					0	IN		CLY		Dull, fairly soft
	8	115ft/35.05m															Top of box 8
		35.05	35.90	0.85			DG					0	IN		CLY		Bedding not visible
		35.90	36.00	0.10			MG			20		0	SO		CLY		A few coaly laminae and 1-2mm stringers
		36.00	36.03	0.03			BL					0	SO		HCC	CZ	Slight brown streak, mostly coal
		36.03	36.40	0.37			BL					0	SB		Cd	CZ	Hard, blocky, very few bright bands
		36.40	36.50	0.10			DG					0	IN		CLY		Abundant coaly laminae
		36.50	36.88	0.38			MG	TL/WB				0	IN		CLY		Thin LG wavy laminations
	121ft/36.88m																
		36.88	36.95	0.07			LG					0	PW		CLY		Dried mud powder
		36.95	37.86	0.91			MG					0	IN		CLY		Soft, muddy CLY, no visible bedding
		37.86	37.96	0.10		000254	MG					0	IN		CLY		As above, HW to D2
		37.96	37.99	0.03		000255	BL			0		0	IN		Cd	D2	Peacock stain, intact HW contact
		37.99	38.07	0.08		000255	BL					0	IN		Cd	D2	Peacock stain
		38.07	38.12	0.05		000255	BL					0	SB		Cd	D2	Peacock stain – ground ends
		38.12	38.18	0.06		000256	DG					0	SB		CC	D2	To CLY, parting, ground pieces and powder in box
		38.18	38.30	0.12	0.12											D2	Rock and coal loss?
		38.30	38.40	0.10		000257	BL					0	IN		Cd	D2	Occasional 1-3mm bright bands, trace peacock stain
		38.40	38.58	0.18		000257	BL					0	SO		Cd	D2	Trace marcasite on fracture surfaces
		38.58	38.73	0.15		000257	BL					0	SO		Cd	D2	Occasional 1-3mm bright bands, trace peacock stain
		38.73	38.76	0.03		000257	BL					0	SO		Cd	D2	Dull, hard
		38.76	38.84	0.08		000257	BL					0	SO		Cd	D2	Occasional 1-3mm bright bands
		38.84	38.91	0.07		000258	BL					0	SO		Cdab	D2	~50% bright coal

		38.91	39.04	0.13		000258	BL					0	SO		Cdab	D2	As above, peacock stain on fractures
		39.04	39.19	0.15		000258	BL					0	SO		Cdab	D2	As above, 5mm discontinuous CLY lens, harder
		39.19	39.32	0.13		000258	BL					0	SO		Cdb	D2	~30% bright, trace peacock stain, crumbly
9	129ft/39.32m																Top of box 9
		39.32	39.42	0.10		000259	BL					0	IN		Cd	D2	Occasional 1-3mm bright bands – trace marcasite and peacock stain
		39.42	39.50	0.08		000259	BL					0	IN		Cdb	D2	20-30% bright, trace peacock stain
		39.50	39.56	0.06		000259	BL					0	IN		Cdb	D2	Peacock stain
		39.56	39.62	0.06		000259	BL					0	IN		Cd	D2	Dull, hard
		39.62	39.76	0.14		000259	BL					0	IN		Cdab	D2	50-60% bright, peacock stain
		39.76	39.96	0.20		000259	BL					0	IN		Cd	D2	Hard
		39.96	40.08	0.12		000259	BL					0	IN		Cdb	D2	Peacock stain - abundant bright bands
		40.08	40.22	0.14		000260	BL	MSH				0	IN		Cd	D2	To HCC, sheared flakes, soft
		40.22	40.25	0.03		000260	DG					0	SO		CLY	D2	Parting
		40.25	40.57	0.32		000260	BL	MSH				0	IN		Cd	D2	Polished flakes
		40.57	40.60	0.03		000260	DG					0	SO		CLY	D2	To CC, parting
		40.60	40.68	0.08		000260	BL					0	SB		Cd	D2	Harder
		40.68	40.70	0.02		000260	BL	MSH				0	IN		HCC	D2	Polished flakes
		40.70	40.80	0.10		000261	DG		FS			0	IN		CLY		D2 – FW sample – coaly laminae and plant fossils
		40.80	41.50	0.70			DG		FS			0	MB		CLY		Soft, abundant coaly lamina and leafy plant fossils – some ground pieces
		41.50	41.77	0.27			DG					0	IN		CLY		Harder, fewer coaly laminae, coarsening downwards
		41.77	43.89	2.12			LG					0	IN		FSLT		Soft, with a few orange stained fracture surfaces/calcite stringers – somewhat broken at 43.30-43.47m
10	144ft/43.89m																Top of box 10
		43.89	43.96	0.07			LG					0	IN		FSLT		As above
		43.96	44.39	0.43			MG					0	SB		CLY		Uniform texture
		44.39	45.08	0.69			LG	TL	20		1	IN		FSST			LG/DG 1-3mm laminations – faint cross and wavy beds
		45.08	45.61	0.53			LG	TL			2	IN		FSST			As above, fining downwards, more reaction to acid
		45.61	46.56	0.95			MG	TL	30		3	SB		MSLT			A few calcite stringers, hard, white matrix is reactive to acid
		46.56	46.94	0.38			MB	MFR			3	SB		FSLT			Some ground pieces and dried brown mud in box, soft, crumbly
	154ft/46.94m																

		46.94	47.05	0.11			MG	MFR				3	IN		FSLT	Fractures filled with calcite, carbonate matrix
		47.05	47.94	0.89			MG		20			3	IN		CLY	Uniform texture – calcareous matrix
		47.94	48.46	0.52			MG					3	IN		FSLT	To CLY, reddish stain on fracture surfaces – fining downwards
11	159ft/48.46m															Top of box 11
		48.46	48.77	0.31			MG		20			3	IN		FSLT	As above
		48.77	49.55	0.78			MG					3	SB		CLY	Occasional calcite stringers, some reddish stain on fractures
		49.55	49.98	0.43			MG					3	IN		CLY	Calcite stringers up to 1cm, uniform calcareous matrix, faint bedding
	164ft/49.98m															
		49.98	50.45	0.47			MG		30			3	IN		CLY	Few calcite stringers, clear bedding
		50.45	50.70	0.25			OB	MFR				3	SB		CLY	Brown stained fracture zone with calcite flooding
		50.70	51.42	0.72			LB					3	SB		FSLT	Brown stained, a few calcite stringers and few fractures, coarsening to FSLT from CLY
		51.42	51.51	0.09			LG		30			3	SO		FSLT	Few calcite stringers, clear bedding
	169ft/51.51m															
		51.51	52.00	0.49			MG	WB				3	IN		FSLT	Mixed bands of LG MSLT, few cross beds
		52.00	52.18	0.18			LG	SSD				3	IN		MSLT	Slump structures in MG FSLT
		52.18	52.88	0.70			MG					3	IN		FSLT	fining downwards to CLY at lower contact with SST, faint bedding visible
		52.88	53.03	0.15			LB		25			3	IN		MSST	Sharp contact @ 25°, brown stain, white calcareous matrix, fine black particles (possibly mica?)
12	174ft/53.03m															Top of box 12
		53.03	53.72	0.69			LB					2	SB		MSST	Soft, crumbly, a few calcite stringers
		53.72	54.56	0.84			LB		20			2	IN		MSST	Very porous, hard
	179ft/54.56m															
		54.56	56.08	1.52			LB					1	IN		MSST	As above, slightly broken @ 55.13 - 55.33m
	184ft/56.08m															

		56.08	57.60	1.52				LG		13		1	IN		MSST	Some wavy beds, trace calcite stringers, discontinuous 3-5mm coaly lenses @ 57.17 – 57.25m
13	189ft/57.60m															Top of box 13
		57.60	57.92	0.32				LG				2	IN		MSST	Pebbly zone with a few 1-3mm discontinuous coaly lenses/stringers
		57.92	58.83	0.91				LG	WB			1	IN		FSST	Finely bedded with some wavy and cross beds, lower 10cm is slightly broken and soft
		58.83	58.93	0.10				LB		15		3	SO		MSST	Coarser, brownish, calcareous matrix
		58.93	59.13	0.20				LG	WB			1	IN		FSST	Finely bedded, some wavy
	194ft/59.13m															
		59.13	60.65	1.52				LG		15		2	IN		MSST	Occasional cross and wavy beds, trace coaly lenses, large(5-8mm) bladed calcite crystals in 5mm cavity @ 60.52m
	199ft/60.65m															
		60.65	61.43	0.78				LG		28		1	IN		MSST	Alternating lighter and darker laminations/beds, coarsening downwards
		61.43	62.18	0.75				LG				1	IN		CSST	Fining downwards, faint bedding visible
14	204ft/62.18m															Top of box 14
		62.18	63.70	1.52				LG				1	IN		MSST	Faint cross bedding @ 63.07m, broken/crumbled section @ 63.35 – 63.43m, coarsening downwards
	209ft/63.70m															
		63.70	64.52	0.82				LG		21		0	IN		CSST	Variable grain size, very slight/occasional fizz
		64.52	65.14	0.62				LG				0	IN		CGL	Mixed particle sizes, 1mm-20mm, greenish, brown, black, white, grey
		65.14	65.22	0.08				LG		34		0	SO		MSST	Sharp contact with CGL
	214ft/65.22m															
		65.22	66.75	1.53				LG				0	IN		CSST	No visible bedding, variable grain size, generally coarsening downwards, a few small coaly lenses and calcite filled fractures @ 65.41-65.77m
15	219ft/66.75m															Top of box 15
		66.75	68.27	1.52				LG				0	IN		CSST	As above, occasional pebbles up to 1 cm

	224ft/68.27m																			
		68.27	68.40	0.13						0	SO		CSST							Uniform texture, sharp lower contact
		68.40	68.85	0.45				27		0	IN		MSST							Uniform texture, uneven lower contact
		68.85	69.15	0.30						0	IN		CSST							Occasional 1-3mm coaly lenses
		69.15	69.80	0.65				36		0	IN		MSST							Trace coaly lenses and wavy/cross beds
	229ft/69.80m																			
		69.80	70.60	0.80						0	IN		MSST							As above, slightly broken with calcite stringers @ 70.21-70.31m
		70.60	71.32	0.72					FS	22	0	IN		CLY						Broken upper contact, soft, occasional 1-3mm coaly stringers and plant fossils
16	234ft/71.32m																			Top of box 16
		71.32	71.42	0.10		000262					0	SB		CLY						Broken, disorganized pieces – E1 HW sample
		71.42	71.66	0.24		000263					0	HB		Cd	E1					Broken HW contact, somewhat ground pieces
		71.66	71.83	0.17		000264					0	IN		Cdab	E1					Blocky, hard, ~50% bright
		71.83	71.94	0.11		000264					0	IN		Cdab	E1					As above
		71.94	72.00	0.06		000264					0	IN		Cd	E1					Few bright bands
		72.00	72.10	0.10		000264					0	IN		Cdab	E1					Blocky, hard, ~50% bright
		72.10	72.28	0.18		000264					0	IN		Cd	E1					Blocky, hard, few bright bands
		72.28	72.44	0.16		000265					0	IN		Cd	E1					Polished surfaces and flakes, some possible HCC
		72.44	72.54	0.10		000266					0	IN		CC	E1					Parting – abundant coaly stringers
		72.54	72.58	0.04		000266					0	IN		Cd	E1					Polished surfaces
		72.58	72.60	0.02		000266					0	IN		Bn	E1					Dull, hard, heavier
		72.60	72.84	0.24		000267					0	IN		Cd	E1					A few bright bands
	239ft/72.84m																			
		72.84	72.92	0.08		000267					0	IN		Cd	E1					A few bright bands
		72.92	72.96	0.04		000268					0	IN		CC	E1					Abundant coaly laminae/stringers
		72.96	73.14	0.18		000268					0	IN		CC	E1					A few coaly laminae
		73.14	73.17	0.03		000268					0	IN		HCC	E1					To Bn – increasing coal content, transition zone
		73.17	73.18	0.01		000269					0	IN		Cd	E1					Sheared, polished surfaces

		73.18	73.29	0.11		000269	BL				0	IN		Cdab	E1	~50% bright coal
		73.29	73.37	0.08		000270	BL				0	IN		HCC		transition zone- abundant coaly laminae/stringers - E1 FW sample
		73.37	73.39	0.02		000270	DG				0	IN		CLY		A few coaly laminae – E1 FW sample cont.
		73.39	74.11	0.72			DG				0	IN		CLY		As above – a few coaly laminae
		74.11	74.23	0.12			DG	SSH			0	SB		CC		Abundant coaly stringers, some sheared flakes
		74.23	74.37	0.14	0.14											Empty section in box – coal loss?
	244ft/74.37m															
		74.37	74.42	0.05			BL				0	SB		Cdb		Abundant bright bands
		74.42	74.52	0.10			BL				0	IN		CC		A few coaly laminae
		74.52	74.80	0.28			DG				0	SB		CLY		Soft crumbly sections
		74.80	75.12	0.32			MG		35		0	IN		CLY		Harder, some visible bedding, a few coaly laminae
		75.12	75.52	0.40			MG				0	SB		CLY		Slightly broken pieces, softer, few coaly laminae
		75.52	75.62	0.10		000271	BL				0	SB		HCC		Slight shear, polished surfaces – E2 HW sample
		75.62	75.67	0.05		000272	BL				0	SO		Bn	E2	Hard, slight shear
		75.67	75.74	0.07		000272	BL				0	IN		Bn	E2	30-40% bright bands mixed with Bn
		75.74	75.78	0.04		000272	BL				0	IN		St	E2	With a few bright laminae
		75.78	75.84	0.06		000272	BL				0	IN		Cd	E2	With Bn bands
		75.84	75.86	0.02		000272	BL				0	IN		St	E2	Few coaly laminae
		75.86	75.90	0.04		000272	BL				0	IN		Cdab	E2	~60% bright
17	249ft/75.90m															Top of box 17
		75.90	76.00	0.10		000273	LG	SSD			1	SO		MSLT		Some wavy bedding/slump features, hard – E2 FW sample
		76.00	77.10	1.10			LG	SSD			1	IN		MSLT		Deformed bedding, fining downwards to CLY, trace coaly laminae and calcite stringers
		77.10	77.26	0.16			MG				0	SB		CLY		Becoming darker grey, broken, slightly ground pieces last 7cm
		77.26	77.42	0.16	0.16											Empty section in box – rock loss?
	254ft/77.42m															
		77.42	77.50	0.08			DG				0	SB		CLY		To CC – soft, broken pieces
		77.50	77.69	0.19			BL				0	MB		HCC		Polished surfaces with abundant coaly laminae
		77.69	77.84	0.15			DG				0	SB		CC		Black on fresh surface, abundant coaly laminae
		77.84	78.27	0.43			DG	FS			0	SB		CLY		Soft, broken pieces with abundant coaly plant fossils

		78.27	78.39	0.12			BL				0	SB		Cd	E3	Mostly good blocky coal with a few boney and bright bands
		78.39	78.40	0.01			BL				0	SO		CC	E3	Parting
		78.40	78.44	0.04			BL	MSH			0	HB		HCC	E3	To Cd – sheared flakes
		78.44	78.45	0.01			BL				0	SO		Cd	E3	a few bright laminae
		78.45	78.50	0.05			DG				0	SB		CC	E3	Parting
		78.50	78.54	0.04			BL				0	SB		HCC	E3	With bright laminae
		78.54	78.58	0.04			DG		FS		0	IN		CLY	E3	A few plant fossils and bright coaly laminae
		78.58	78.61	0.03			BL				0	SB		HCC	E3	CLY and bright coal laminae mixed
		78.61	78.65	0.04			BL				0	SO		Cd	E3	Uniform texture
		78.65	78.68	0.03			BL	MSH			0	HB		Cd	E3	Polished flakes
		78.68	78.71	0.03			BL	MSH			0	IN		HCC	E3	Soft, friable, polished flakes
		78.71	78.78	0.07			DG				0	IN		CLY		Abundant coaly laminae
		78.78	78.94	0.16			MG		WB		2	IN		FSLT		Harder, wavy bedding
	259ft/78.94m															
		78.94	79.15	0.21			MG	SFR	WB		2	IN		MSLT		A few fractures filled with calcite, calcite stringers up to 3mm, some orange – brown stain
		79.15	79.90	0.75			MG		SSD		3	IN		FSST		Some orange stain, mixed and deformed SST and darker SLT layers
		79.90	80.25	0.35			DG			0-5	1	IN		FSLT		Fining downwards, faint bedding visible
		80.25	80.46	0.21			MG		WB		3	IN		FSST		Sharp upper contact, coarsening downwards
18	264ft/80.46m															Top of box 18
		80.46	81.22	0.76			LB		SSD		3	IN		FSST		Brown stained light grey SST, soft, slightly broken @ 80.82-80.94m and crumbled in lower 2cm
		81.22	81.55	0.33			MG				0	SB		CLY		ground and crushed particles amongst 3-5cm broken pieces, soft
		81.55	81.99	0.44			MG	SFR			3	SB		CLY		Abundant calcite stringers and calcite-filled fractures in broken core
	269ft/81.99m															
		81.99	82.18	0.19			MG				2	IN		CLY		Harder, a few calcite-filled fractures
		82.18	83.51	1.33			DG				2	IN		CLY		A few softer, broken sections with coaly laminae and polished fracture surfaces, indistinct bedding, trace plant fossils
	274ft/83.51m															
		83.51	84.73	1.22			MG		SSD		3	IN		FSLT		CLY coarsening down to FSLT with lighter grey bands with more distinct wavy and deformed bedding

19	278ft/84.73m															Top of box 19
		84.73	85.50	0.77		MG		22		3	IN		FSLT			As above, fining down to CLY, bedding more regular
		85.50	85.85	0.35		DG		SSD		3	IN		CLY			Mottled texture, harder, some slump features, trace coaly laminae
	281.7ft/85.85m															
		85.85	86.56	0.71		DG		SSD		3	IN		CLY			As above
	284ft/86.56m															
		86.56	87.37	0.81		DG		SSD		3	IN		CLY			As above, coarsening downwards to slight grit
		87.37	87.78	0.41		MG		29		3	IN		FSLT			Alternating lighter and darker laminations/beds, a few coaly laminae/fossils, some wavy/cross beds, trace calcite stringers with orange-stained halo
	288ft/87.78m															
		87.78	89.30	1.52		MG				3	IN		FSLT			As above
20	293ft/89.30m															Top of box 20
		89.30	89.61	0.31		MG				3	IN		FSLT			As above
	294ft/89.61															
		89.61	90.83	1.22		MG				3	IN		FSLT			As above – fining downwards
	298ft/90.83m															
		90.83	92.35	1.52		DG		FS	22	3	IN		CLY			Gradational contacts, a few coaly laminae and stringers, plant fossils
	303ft/92.35m															
		92.35	92.96	0.61		DG		FS		3	IN		CLY			As above – slight grit
		92.96	93.87	0.91		DG		20		3	IN		CLY			As above – trace calcite stringers, a few lighter grey laminae of FSLT



21	308ft/93.87m																	Top of box 21
		93.87	94.48	0.61		DG		FS		2	IN		CLY					Decreasing reaction to acid, mottled texture with abundant coaly laminae/plant fossils
		94.48	94.61	0.13		BL				0	MB		CC					Broken pieces of black CC with abundant coaly laminae and polished fracture surfaces
		94.61	94.66	0.05		BL				0	IN		Bn					With mixed bright bands
		94.66	94.76	0.10		BL				0	SB		HCC					Breaks easily into polished flakes
		94.76	95.14	0.38		BL		FS		0	IN		CC					Abundant coaly laminae/stringers and occasional plant fossils on broken surfaces
		95.14	95.22	0.08	000274	BL		FS		0	IN		CC					As above – F HW sample
		95.22	95.24	0.02	000274	BL				0	SB		Bn					Mixed coal with CC – F HW sample cont.
		95.24	95.40	0.16	000275	BL				0	IN		Cd	F				Occasional 1-3mm bright bands
	313ft/95.40m																	
		95.40	95.45	0.05	000275	BL				0	IN		Cd	F				As above
		95.45	95.59	0.14	000275	BL				0	IN		Cdb	F				Abundant bright bands
		95.59	95.70	0.11	000275	BL				0	IN		Cd	F				Slight shear, some polished surfaces
	314ft/95.70m																	
		95.70	96.15	0.45	000276	BL				0	IN		Cd	F				Few bright bands, good blocky coal
		96.15	96.32	0.17	000276	BL				0	SB		Cd	F				More friable, polished fracture surfaces
		96.32	96.52	0.20	000276	BL				0	IN		Cd	F				Few bright bands, good blocky coal
		96.52	96.69	0.17	000277	BL				0	IN		Cd	F				Less sheen, few bright bands, polished fracture surfaces
		96.69	96.82	0.13	000278	BL				0	SB		Cd	F				Very friable, easily breaks into polished flakes
		96.82	96.92	0.10	000278	BL				0	IN		Cd	F				Good, blocky coal
	318ft/96.92m																	Note: core box is falling apart – some possible contamination of samples from adjacent rows.
		96.92	97.02	0.10	000278	BL				0	SB		Cd	F				Good, blocky coal – trace clay on fractures
		97.02	97.22	0.20	000279	BL	MSH			0	HB		Cd	F				Sheared, polished flakes, some clayey flakes
		97.22	97.32	0.10	000280	DG				1	SO		CLY					Banded with lighter grey FSLT – F FW sample
		97.32	97.60	0.28		MG		FS	30	1	IN		FSLT					LG/MG banded with a few deformed beds
		97.60	97.83	0.23		DG		FS		0	IN		CLY					Abundant coaly plant fossils on fractures
		97.83	98.03	0.20		DG				0	IN		FSLT					A few coaly plant fossils

		98.03	98.45	0.42			DG		FS			0	IN		CLY		Abundant coaly plant fossils on fractures
22	323ft/98.45m																Top of box 22
		98.45	98.75	0.30			DG		FS			0	IN		CLY		As above
	324ft/98.75m																
		98.75	99.60	0.85			DG		FS			0	IN		CLY		Increasing coaly laminae -- abundant dried mud in box, core is broken into smaller pieces but is still intact
		99.60	99.63	0.03			BL					0	SB		HCC	CZ	Slightly sheared, polished surfaces
		99.63	99.82	0.19			BL					0	IN		Cd	CZ	Hard, blocky, very few bright bands
		99.82	99.85	0.03			BL					0	SB		CC	CZ	Polished fracture surfaces and coaly laminae
		99.85	99.97	0.12	0.12												Rock loss?
	328ft/99.97m																
		99.97	100.02	0.05			BL					0	IN		CC	CZ	As above
		100.02	100.38	0.36			MG					0	IN		FSLT		gradational contacts, trace coaly laminae and stringers, plant fossils
		100.38	101.50	1.12			DG		SSD			0	IN		CLY		Abundant coaly plant fossils on fractures -- bedding is wavy and deformed
	333ft/101.50m																
		101.50	101.80	0.30			DG			20		0	IN		CLY		As above -- some consistent bedding visible
	334ft/101.80m																
		101.80	102.58	0.78			DG					0	IN		CLY		As above -- less consistent bedding, bottom piece of core has rounded/ground end
		102.58	103.02	0.44			DG					0	IN		CLY		Darker, softer, a few more coaly laminae/stringers - top piece has rounded end
23	338ft/103.02m																Top of box 23
		103.02	103.09	0.07			DG					0	IN		CLY		As above
		103.09	103.56	0.47			DG					0	IN		CLY		Harder, lighter grey, few coaly laminae/fossils
		103.56	103.70	0.14			BL					0	MB		CC		Ground pieces with abundant coaly stringers
		103.70	103.95	0.25			DG					0	IN		CLY		Very dark, hard with deformed bedding and abundant coaly stringers up to 3mm

		103.95	104.54	0.59		DG				0	IN		CLY	More uniform texture, fewer coaly plant fossil laminae
	343ft/104.54m													
		104.54	104.85	0.31		DG				0	IN		CLY	As above – becoming darker grey, more abundant coaly laminae last 6cm
	344ft/104.85m													
		104.85	105.45	0.60		DG				0	IN		CLY	As above – fewer coaly laminae downwards
		105.45	105.52	0.07		DG				0	SB		CLY	As above – larger ground pieces, polished surfaces
		105.52	105.78	0.26		DG		19		0	IN		CLY	As above – trace coaly laminae – visible bedding
		105.78	105.83	0.05		BL		19		0	CR		HCC	Sheared flakes, sharp contacts – coaly
		105.83	106.07	0.24		DG				0	IN		CLY	Uniform texture
	348ft/106.07m													
		106.07	106.40	0.33		DG				0	SB		CLY	A few coaly laminae/plant fossils, coarsening downwards
		106.40	106.83	0.43		MG	SSD			0	IN		FSLT	Slump structures in mixed sediments, including coaly laminae
		106.83	107.59	0.76		MG				1	IN		MSLT	More massive, uniform section with trace calcite stringers and faint deformed bedding
24	353ft/107.59m													Top of box 24
		107.59	108.20	0.61		MG				2	IN		MSLT	As above
	355ft/108.20m													
		108.20	109.11	0.91		MG		22		2	IN		MSLT	Some consistent bedding, some wavy, a few CLY beds up to 5cm
	358ft/109.11m													
		109.11	110.64	1.53		MG		15		2	IN		FSLT	As above
	363ft/110.64m													
		110.64	111.25	0.61		MG				2	IN		FSLT	As above

	365ft/111.25m																					
		111.25	112.16	0.91							2	IN	FSLT	As above – no consistent bedding, trace coaly laminae/plant fossils								
25	368ft/112.20m													Top of box 25								
		112.16	113.68	1.52							2	IN	FSLT	As above, some CLY layers and some slightly broken sections								
	373ft/113.68m																					
		113.68	114.60	0.92					18		2	IN	FSLT	Some consistent bedding, more reaction to acid in lighter, coarser layers, less in clayey material								
	376ft/114.60m																					
		114.60	115.21	0.61							2	IN	FSLT	As above								
	378ft/115.21m																					
		115.21	116.73	1.52							3	IN	FSLT	As above, some slightly broken sections, calcite in fractures @ 115.35-115.48m								
26	383ft/116.73m																					
		116.73	117.90	1.17							2	IN	FSLT	Coarsening downwards, becoming mixed with thin FSST layers								
	386.83ft/117.90m																					
		117.90	118.26	0.36					17		2	IN	FSLT	As above								
	388ft/118.26m																					
		118.26	118.34	0.08							2	IN	FSLT	As above								
		118.34	118.73	0.39							2	IN	FSST	Transition zone – approximately 50% SST layers and SLT layers								
		118.73	119.78	1.05							2	IN	MSST	A few darker bands at top of section, coarsening downwards, bedding becoming faint								

	393ft/119.78m																
		119.78	121.00	1.22			LG					1	SO		MSST		Inconsistent light and darker bands, faint cross bedding
																	End of hole - 397ft / 121.00m

Hole No: \_\_\_\_\_

Box No.	Driller's Marker (ft/m)	Unit		Length (m)	Lost (m)	Sample Number	Color	Structure	Bedding Sedimentary Structure	BCN (°)		Core Quality	Grain Size	Coal Type Rock Type	Seam	Additional Descriptions
		From (m)	To (m)							Roof	Floor					

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	Conglomerate with 2-3cm chert pebbles		0.00	3.00	> 3m	CONGLOMERATE: 2-3cm chert pebbles.	3.00	300/54N
0.50								
1.00								
1.50								
2.00								
2.50								
3.00								
3.00		D1	3.00	3.07	0.07	CARBONACEOUS CLAYSTONE: top of D1 Seam transition zone, muddy, dark brown.	0.07	
3.50			3.07	3.63	0.56	COAL: dull.	0.56	
			3.63	3.72	0.09	COAL: dull.	0.09	
			3.72	3.79	0.07	COAL: dull, broken (bottom of D1).	0.07	
			3.79	3.96	0.17	CLAYSTONE: light brown.	0.17	290/50N
4.00			3.96	4.02	0.06	CARBONACEOUS CLAYSTONE: coaly-looking, black.	0.06	
			4.02	4.09	0.07	CLAYSTONE: light brown.	0.07	
			4.09	4.26	0.17	FINE-GRAINED SILTSTONE: orange-brown, orange stained.	0.17	
4.50			4.26	4.88	0.62	CLAYSTONE.	0.62	
5.00			4.88	5.05	0.17	CARBONACEOUS CLAYSTONE: black, soft broken, slightly coaly.	0.17	
		C2	5.05	5.28	0.23	COAL: dull, coaly zone, very dull, soft & broken.	0.23	316/52N
5.50			5.28	8.58	3.30	CLAYSTONE: medium grey with some orange staining, becoming more broken toward bottom footwall.	3.30	
6.00								
6.50								
7.00								
7.50								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.50			8.58	8.68	0.10	HIGHLY CARBONACEOUS CLAYSTONE: dull coal mixed with claystone. Top of D2.	0.10	307/57N
9.00			8.68	9.48	0.80	COAL: dull, very little bright coal.	0.80	
9.50		D2	9.48	9.51	0.03	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.03	
10.50			9.51	11.76	2.25	COAL: dull.	2.25	
11.00		D2	11.76	11.83	0.07	HIGHLY CARBONACEOUS CLAYSTONE: black, harder, slightly brown streak.	0.07	
11.50			11.83	11.89	0.06	CLAYSTONE: grey, orange stained, parting.	0.06	
12.00			11.89	11.98	0.09	HIGHLY CARBONACEOUS CLAYSTONE: almost coal but slight brown streak & harder, bottom of D2.	0.09	
12.00			11.98	12.07	0.09	CARBONACEOUS CLAYSTONE: dark grey to black, some coaly bands.	0.09	
12.50			12.07	13.07	>1m	CLAYSTONE: light grey.	1.00	300/50N
13.00			13.07	13.07		End of Trench at 13.07m.		



**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	[Blue dotted pattern]		0.00	1.00	>1m	MEDIUM-GRAINED SILTSTONE.	1.00	288/56N
1.00								
1.50	[Black solid]	E1	1.00	1.97	0.97	COAL: dull, crushed, soft, oxidized. Top of E1 seam.	0.97	
2.00			1.97	2.06	0.09	CARBONACEOUS CLAYSTONE: orange stained, hard, oxidized parting.	0.09	
2.50	[Black solid]	E1	2.06	2.50	0.44	COAL: dull with few bright bands.	0.44	
2.50			2.50	2.63	0.13	CLAYSTONE: orange stained, hard, oxidized parting.	0.13	
3.00	[Black solid]	E1	2.63	3.05	0.42	COAL: dull, bottom of E1 seam.	0.42	
3.50			3.05	3.56	0.51	CLAYSTONE: medium grey. E1-E2 interseam.	0.51	
4.00	[Black solid]	E2	3.56	3.89	0.33	COAL: dull, top of E2 seam.	0.33	
4.00			3.89	4.00	0.11	COAL: boney, hard, dark grey.	0.11	
4.00			4.00	4.26	0.26	COAL: dull with a few bright bands, bottom of E2 seam.	0.26	
4.50	[Yellow horizontal lines]		4.26	5.52	1.26	CLAYSTONE: light grey.	1.26	
5.50			5.52	5.81	0.29	CLAYSTONE: dark grey.	0.29	304/60N
6.00	[Black solid]	E3	5.81	5.93	0.12	COAL: dull, very soft, top of E3 seam.	0.12	
6.00			5.93	5.94	0.01	CLAYSTONE: parting.	0.01	
6.00			5.94	6.04	0.10	COAL: dull, very soft.	0.10	
6.00			6.04	6.24	0.20	HIGHLY CARBONACEOUS CLAYSTONE: sheared, bottom of E3 seam.	0.20	
6.50	[Blue dotted pattern]		6.24	6.34	0.10	CLAYSTONE: dark grey.	0.10	
7.00			6.34	7.34	>1m	FINE-GRAINED SILTSTONE: light grey.	1.00	
7.34			7.34	7.34		End of Trench at 7.34m.		

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	2.00	>2.00	CLAYSTONE: hanging wall.	2.00	330/ 74N
0.50								
1.00								
1.50								
2.00								
2.00		F	2.00	2.19	0.19	COAL: dull, top of F seam.	0.19	
2.19			2.19	2.29	0.10	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.10	
2.29			2.29	2.38	0.09	CLAYSTONE: light grey.	0.09	
2.50								
3.00								
3.50								
4.00								
4.50								
5.00								
5.00		F	4.96	5.08	0.12	CLAYSTONE: very sheared.	0.12	
5.08								
5.08		F	5.08	5.52	0.44	COAL: dull, bottom of F seam.	0.44	
5.50								
6.00								
6.50								
7.00								
7.50								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
8.00									
8.50									
9.00									
9.50									
10.00									
10.50				5.52	14.62	9.10	COARSE-GRAINED SANDSTONE: oxidized, orange stained.	9.10	
11.00									
11.50									
12.00									
12.50									
13.00									
13.50									
14.00									
14.50									
14.62			14.62	14.69	0.07	HIGHLY CARBONACEOUS CLAYSTONE: coaly zone.	0.07		
15.00			14.69	15.69	1.00	COARSE-GRAINED SANDSTONE: fining downward.	1.00		
15.50			15.69	15.69		End of Trench at 15.69m.			

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	1.00	CLAYSTONE: sharp contact.	1.00	308/ 60N
1.00								
1.50								
2.00		G	1.00	2.84	1.84	COAL: dull.	1.84	
2.50								
3.00			2.84	3.14	0.30	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.30	
3.50								
4.00			3.14	4.40	1.26	CLAYSTONE.	1.26	
4.50								
4.50		I	4.40	4.78	0.38	COAL: dull.	0.38	
5.00			4.78	5.05	0.27	CLAYSTONE.	0.27	
5.05			5.05	5.09	0.04	COAL: dull.	0.04	
5.50								
5.50			5.09	6.02	0.93	CLAYSTONE.	0.93	
6.00								
6.50								
7.00			6.02	7.96	1.94	SILTSTONE: massive, orange stained.	1.94	284/ 52N
7.50								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			7.96	12.38	4.42	COAL: dull. No visible partings, slightly sheared at footwall.	4.42	
8.50								
9.00			7.96	12.38	4.42	COAL: dull. No visible partings, slightly sheared at footwall.	4.42	
9.50								
10.00			7.96	12.38	4.42	COAL: dull. No visible partings, slightly sheared at footwall.	4.42	
10.50								
11.00			7.96	12.38	4.42	COAL: dull. No visible partings, slightly sheared at footwall.	4.42	
11.50								
12.00			7.96	12.38	4.42	COAL: dull. No visible partings, slightly sheared at footwall.	4.42	
12.50								
12.50			12.38	13.38	>1.00	CLAYSTONE: dark grey.	1.00	318/ 58N
13.00								
13.38			13.38	13.38		End of Trench at 13.38m.		

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	3.00	>3.00	CONGLOMERATE.	3.00	310/ 60N
3.00			3.00	3.08	0.08	CLAYSTONE: transition muddy zone.	0.08	
3.08			3.08	3.28	0.20	COAL: dull.	0.20	
3.28		D1	3.28	3.36	0.08	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.08	
3.36			3.36	3.67	0.31	COAL: dull.	0.31	
3.67			3.67	4.13	0.46	CLAYSTONE.	0.46	
4.13			4.13	4.29	0.16	HIGHLY CARBONACEOUS CLAYSTONE: coaly zone.	0.16	
4.29		C2	4.29	4.41	0.12	COAL: dull - close to coal.	0.12	
4.41			4.41	4.65	0.24	HIGHLY CARBONACEOUS CLAYSTONE: coaly zone.	0.24	
4.65			4.65	7.83	3.18	CLAYSTONE: fairly massive, orange stained and broken last 15cm to D2 contact.	3.18	310/ 60N
7.83			7.83	8.13	0.30	COAL: dull. Top D2 seam.	0.30	
8.13			8.13	8.13	0.00			

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00								
			8.13	8.21	0.08	CLAYSTONE: parting in D2.	0.08	
8.50								
9.00								
9.50		D2	8.21	10.64	2.43	COAL: dull.	2.43	
10.00								
10.50								
11.00			10.64	10.82	0.18	COAL: boney.	0.18	
			10.82	11.12	0.30	COAL: dull, bottom, D2 seam.	0.30	
11.50								
			11.12	11.74	0.62	HIGHLY CARBONACEOUS CLAYSTONE: very broken, slightly sheared.	0.62	299 /53N
12.00								
12.50								
13.00			11.74	13.74	>2.00	CLAYSTONE: footwall, light grey, slightly broken.	2.00	
13.50								
			13.74	13.74		End of Trench at 13.74m.		

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	1.00	SILTSTONE: hanging wall, light grey, massive, broken at lower contact.	1.00	316/ 66N
1.00								
1.50		E1	1.00	3.61	2.61	COAL: dull, top, E1 seam.	2.61	
2.00								
2.50								
3.00								
3.50								
3.61			3.61	3.71	0.10	COAL: boney.	0.10	
3.71			3.71	3.85	0.14	COAL: dull, bottom, E1 seam.	0.14	
3.85			3.85	4.05	0.20	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.20	
4.05		E2	4.05	4.32	0.27	COAL: dull.	0.27	
4.32			4.32	4.81	0.49	CLAYSTONE: light grey, highly broken.	0.49	
4.81								
5.10								
5.10			5.10	5.47	0.37	CLAYSTONE: moderately broken.	0.37	
5.47		E3	5.47	5.59	0.12	COAL: dull.	0.12	
5.59			5.59	5.77	0.18	CARBONACEOUS CLAYSTONE: to footwall.	0.18	
5.77			5.77	6.77	>1.00	SILTSTONE: massive siltstone.	1.00	300/ 60N
6.77								
End of Trench at 6.77m.								



**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	[Yellow patterned lithology]		0.00	2.00	>2.00	CLAYSTONE: massive, sharp contact, bedding only estimated.	2.00	300/ 50N
2.00			2.00	2.10	0.10	COAL: dull, top, F seam.	0.10	
2.10			2.10	2.23	0.13	CLAYSTONE: parting.	0.13	
2.23	[Black lithology]		2.23	4.99	2.76	COAL: dull.	2.76	
4.99			4.99	5.00	0.01	CLAYSTONE: parting.	0.01	
5.00			5.00	5.13	0.13	COAL: dull, bottom, F seam.	0.13	
5.13	[Yellow patterned lithology]		5.13	7.13	>2.00	CLAYSTONE: broken, bedding measurement not possible.	2.00	
7.13			7.13	7.13		End of Trench at 7.13m.		

**Roman Mountain - Trenching**

Coordinates are for the bottom of J seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50								
1.00								
1.41		J	0.00	1.41	1.41	COAL: dull. G-seam and upper section of J-seam not exposed (under the road).	1.41	
1.50								
1.71			1.41	1.71	0.30	CLAYSTONE: discontinuous oval shaped lens (parting).	0.30	
2.00								
2.50		J	1.71	3.42	1.71	COAL: dull, bottom, J seam.	1.71	
3.00								
3.50								
4.00			3.42	4.61	1.19	CLAYSTONE: dark grey, broken, slightly sheared.	1.19	312/ 64N
4.50								
5.00								
5.50								
6.00								
6.50								
7.00								
7.50								
8.00			4.61	10.61	>6.00	SILTSTONE: orange stained, massive.	6.00	



Northing UTM: 6082874.15  
 Easting UTM: 630718.077  
 Elevation (m): 1894.972  
 Section: L 12800  
 Azimuth UTM: 215°  
 Syncline limb: Southwest

Starting depth (m): 0.00  
 Ending depth (m): 10.61  
 Logged by: DT, MW  
 Trenching complete: 30-Jul-06  
 Remarks:

**R2006-2J**

**Roman Mountain - Trenching**

Coordinates are for the bottom of J seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
0.00									
8.50									
9.00									
9.50									
10.00									
10.50									
				10.61	10.61		End of Trench at 10.61m.		

**Roman Mountain - Trenching**

Coordinates are for the top of D1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50								
1.00								
1.50			0.00	3.00	>3.00	CONGLOMERATE.	3.00	308/60N
2.00								
2.50								
3.00			3.00	3.10	0.10	CLAYSTONE: transition zone, muddy.	0.10	
3.50		D1	3.10	3.66	0.56	COAL: dull, top, D1 seam.	0.56	
4.00			3.66	3.74	0.08	SANDSTONE: parting, rusty orange with black highly carbonaceous matrix.	0.08	
4.50		D1	3.74	4.16	0.42	COAL: dull. Very soft, possibly some highly carbonaceous claystone.	0.42	
5.00			4.16	5.24	1.08	CLAYSTONE: dark grey, massive.	1.08	
5.50			5.24	5.76	0.52	CLAYSTONE: light grey, slightly sheared.	0.52	
6.00		D2	5.76	6.03	0.27	COAL: dull, top, D2 seam.	0.27	
6.50			6.03	6.13	0.10	CLAYSTONE: parting, orange stained.	0.10	
7.00		D2	6.13	6.69	0.56	COAL: dull.	0.56	
7.50			6.69	6.72	0.03	CARBONACEOUS CLAYSTONE: parting.	0.03	
8.00		D2	6.72	6.92	0.20	COAL: dull.	0.20	
8.50			6.92	7.00	0.08	HIGHLY CARBONACEOUS CLAYSTONE: very dark, almost coal, slight brown streak.	0.08	
9.00		D2	7.00	7.92	0.92	COAL: dull with some bright bands.	0.92	
9.50			7.92	7.99	0.07	COAL: boney.	0.07	

**Roman Mountain - Trenching**

Coordinates are for the top of D1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00			7.99	8.23	0.24	CARBONACEOUS CLAYSTONE: sheared black footwall zone.	0.24	
			8.23	8.30	0.07	COAL: dull.	0.07	
8.50			8.30	8.60	0.30	CLAYSTONE: dark grey.	0.30	
			8.60	9.02	0.42	CLAYSTONE: light grey, orange stained.	0.42	
9.00			9.02	9.10	0.08	COAL: dull.	0.08	
			9.10	9.14	0.04	HIGHLY CARBONACEOUS CLAYSTONE: very black, sheared.	0.04	
9.50								
10.00			9.14	11.14	>2.00	CLAYSTONE: highly broken, impossible to get dip.	2.00	320/?
10.50								
11.00								
			11.14	11.14		End of Trench 11.14m.		

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: light grey.	1.00	318/62N
1.00								
1.50		E1	1.00	2.29	1.29	COAL: dull, top, E1 seam.	1.29	
2.00								
2.29			2.29	2.41	0.12	CLAYSTONE: dark grey, parting.	0.12	
2.41			2.41	2.48	0.07	COAL: boney coal.	0.07	
2.48		E1	2.48	2.83	0.35	COAL: dull.	0.35	
2.83			2.83	2.92	0.09	COAL: boney coal.	0.09	
2.92			2.92	3.12	0.20	COAL: dull, bottom, E1 seam.	0.20	
3.12			3.12	3.65	0.53	CARBONACEOUS CLAYSTONE: grades to claystone; E1-E2 interseam.	0.53	
3.65		E2	3.65	3.84	0.19	COAL: dull, top, E2 seam.	0.19	
3.84			3.84	4.00	0.16	HIGHLY CARBONACEOUS CLAYSTONE: black, slightly sheared.	0.16	
4.00		E2	4.00	4.26	0.26	COAL: dull.	0.26	
4.26			4.26	4.34	0.08	CLAYSTONE: dark grey.	0.08	
4.34		E2	4.34	4.63	0.29	COAL: dull, bottom, E2 seam.	0.29	
4.63			4.63	6.63	2.00	CLAYSTONE: light grey, massive.	2.00	
6.63		E3	6.63	6.84	0.21	COAL: dull.	0.21	
6.84			6.84	7.28	0.44	CLAYSTONE: dark grey, slightly sheared.	0.44	314/60N
7.28			7.28	8.28	>1.00	FINE-GRAINED SILTSTONE: fine to medium grained, massive, brown stained.	1.00	
8.28								



Northing UTM: 6082756.739  
 Easting UTM: 630974.686  
 Elevation (m): 1984.267  
 Section: L 13000  
 Azimuth UTM: 215°  
 Syncline limb: Southwest

Starting depth (m): 0.00  
 Ending depth (m): 8.28  
 Logged by: DT, MW  
 Trenching complete: 30-Jul-06  
 Remarks:

**R2006-3E**

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
			8.28	8.28		End of Trench at 8.28m.		

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	2.00	>2.00	CLAYSTONE: brown stained, no dip possible.	2.00	312/?
2.00				2.00	3.70	1.70	COAL: dull, sharp upper and lower contacts.	1.70
3.70				3.70	5.38	1.68	CLAYSTONE: light grey, possibly fine-grained siltstone.	1.68
5.38			5.38	5.94	0.56	CLAYSTONE: dark grey, slightly sheared, orange stained.	0.56	
5.94			5.94	7.94	>2.00	SILTSTONE: massive.	2.00	
7.94			7.94					

End of Trench 7.94m.



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	[Yellow patterned lithology]		0.00	2.00	>2.00	CLAYSTONE: medium grey, some concretions up to 4cm diameter.	2.00	308/54N
2.00		G	2.00	2.28	0.28	COAL: dull, top, G seam.	0.28	
2.28			2.28	2.38	0.10	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.10	
2.38	[Black lithology]	G	2.38	5.04	2.66	COAL: dull.	2.66	
5.04			5.04	5.17	0.13	HIGHLY CARBONACEOUS CLAYSTONE: bottom, G seam.	0.13	
5.17			5.17	5.42	0.25	CLAYSTONE: light grey, footwall of G seam.	0.25	
5.42	[Black lithology]	I	5.42	6.27	0.85	COAL: dull coal to highly carbonaceous claystone, mostly highly carbonaceous claystone with some coal bands.	0.85	
6.27			6.27	7.41	1.14	CLAYSTONE: light grey, some orange stained.	1.14	293/54N
7.41								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.50		J	7.41	9.63	2.22	COAL: dull, top, J seam.	2.22	
9.63			9.63	9.75	0.12	CLAYSTONE: parting, some highly carbonaceous claystone.	0.12	
9.75		J	9.75	11.07	1.32	COAL: dull.	1.32	
11.07			11.07	11.11	0.04	CLAYSTONE: parting.	0.04	
11.11		J	11.11	11.85	0.74	COAL: dull.	0.74	
11.85			11.85	12.01	0.16	HIGHLY CARBONACEOUS CLAYSTONE: parting, discontinuous lens.	0.16	
12.01		J	12.01	12.28	0.27	COAL: dull.	0.27	
12.28			12.28	12.30	0.02	HIGHLY CARBONACEOUS CLAYSTONE.	0.02	
12.30		J	12.30	12.79	0.49	COAL: dull, bottom, J seam.	0.49	
12.79			12.79	14.79	>2.00	CLAYSTONE: dark grey.	2.00	314/50N
14.79			14.79			End of Trench at 14.79m.		

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	2.00	>2.00	CONGLOMERATE.	2.00	300/ 50N
2.00			2.00	2.10	0.10	CLAYSTONE: transition, muddy zone.	0.10	
2.50		D1	2.10	2.92	0.82	COAL: dull.	0.82	
3.00			2.92	3.48	0.56	CLAYSTONE: broken, dark grey.	0.56	
3.50			3.48	4.30	0.82	CLAYSTONE: massive, light grey.	0.82	
4.50			4.30	5.78	1.48	CLAYSTONE: broken, some orange stained.	1.48	308/ 58N
6.00		D2	5.78	5.99	0.21	COAL: dull, top, D2 seam.	0.21	
6.50			5.99	6.09	0.10	CLAYSTONE: parting.	0.10	
7.00		D2	6.09	7.76	1.67	COAL: dull.	1.67	
7.50			7.76	7.92	0.16	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.16	
8.00		D2	7.92	7.99	0.07	COAL: dull.	0.07	

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00			7.99	8.04	0.05	CLAYSTONE: parting.	0.05	
		D2	8.04	8.14	0.10	COAL: dull, bottom, D2 seam.	0.10	
8.50			8.14	8.87	0.73	CLAYSTONE: dark grey, broken.	0.73	
9.00			8.87	9.87	>1.00	FINE-GRAINED SILTSTONE: light grey.	1.00	310/ 50N
9.50			9.87	9.87		End of Trench at 9.87m.		


**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	1.00	CLAYSTONE: light grey.	1.00	308/ 62N
1.00			1.00	1.07	0.07	CARBONACEOUS CLAYSTONE: slightly sheared.	0.07	
1.50		E1	1.07	2.10	1.03	COAL: dull. Top, E1 seam.	1.03	
2.00			2.10	2.33	0.23	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.23	
2.50		E1	2.33	2.84	0.51	COAL: dull.	0.51	
3.00			2.84	2.93	0.09	CLAYSTONE: orange stained parting.	0.09	
3.50		E1	2.93	3.37	0.44	COAL: dull.	0.44	
			3.37	3.39	0.02	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.02	
		E1	3.39	3.52	0.13	COAL: dull. Bottom, E1 seam.	0.13	
			3.52	3.92	0.40	CLAYSTONE: dark grey.	0.40	
4.00			3.92	4.20	0.28	CLAYSTONE: light grey, orange stained.	0.28	
4.50		E2	4.20	4.41	0.21	COAL: dull. Top, E2 seam.	0.21	
			4.41	4.51	0.10	CLAYSTONE: parting.	0.10	
		E2	4.51	4.70	0.19	COAL: dull.	0.19	
			4.70	4.86	0.16	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.16	
5.00		E2	4.86	5.21	0.35	COAL: dull. Bottom, E2 seam.	0.35	
5.50			5.21	6.75	1.54	CLAYSTONE: orange stained parting.	1.54	
6.00			6.75	7.12	0.37	CARBONACEOUS CLAYSTONE.	0.37	
6.50		E3	7.12	7.38	0.26	COAL: dull. Top, E3 seam.	0.26	
7.00			7.38	7.47	0.09	CARBONACEOUS CLAYSTONE.	0.09	
7.50		E3	7.47	7.53	0.06	COAL: dull. Bottom, E3 seam.	0.06	
8.00						CLAYSTONE: orange stained, coarsening to siltstone, bedding impossible to measure.		

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			7.53	8.53	1.00		1.00	
8.50			8.53	8.53		End of Trench at 8.53m.		

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	2.00	>2.00	CLAYSTONE: dark grey.	2.00	308/56N
0.50								
1.00		F	2.00	4.87	2.87	COAL: dull. Frozen in permafrost.	2.87	
1.50								
2.00			4.87	5.05	0.18	CLAYSTONE: orange stained, parting.	0.18	
2.50								
3.00			5.05	5.43	0.38	HIGHLY CARBONACEOUS CLAYSTONE: very black.	0.38	
3.50								
4.00			5.43	6.03	0.60	CLAYSTONE: coarsening to siltstone.	0.6	
4.50								
5.00			6.03	7.03	>1.00	FINE-GRAINED SILTSTONE.	1.00	298/54N
5.50								
6.00			7.03	7.03		End of Trench at 7.03m.		

**Roman Mountain - Trenching**

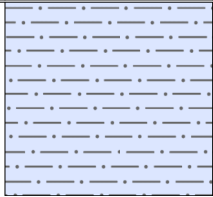
Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	SILTSTONE: light grey.	1.00	308/50N
1.00								
1.50		G	1.00	1.98	0.98	COAL: dull, top, G seam.	0.98	
2.00			1.98	2.05	0.07	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.07	
2.50		G	2.05	2.23	0.18	COAL: dull, bottom, G seam.	0.18	
2.75			2.23	2.41	0.18	CLAYSTONE: light grey.	0.18	
3.00		I	2.41	2.71	0.30	HIGHLY CARBONACEOUS CLAYSTONE: I seam, highly broken.	0.30	
3.25			2.71	3.00	0.29	CLAYSTONE: slightly sheared, light grey.	0.29	
3.50			3.00	3.45	0.45	COAL: dull, top, J seam.	0.45	
3.75		J	3.45	3.70	0.25	COAL/CARBONACEOUS CLAYSTONE: mixed section, with discontinuous 1cm lenses of carbonaceous claystone.	0.25	
4.00			3.70	4.00	0.30	COAL: dull.	0.30	
4.10			4.00	4.02	0.02	CLAYSTONE: lens, orange stained, following .41m mixed section with small, discontinuous claystone lenses.	0.02	
4.15			4.02	4.21	0.19	COAL: dull.	0.19	
4.20			4.21	4.24	0.03	CLAYSTONE: lens, orange stained.	0.03	
4.25		J	4.24	4.34	0.10	COAL: dull.	0.10	
4.30			4.34	4.41	0.07	CLAYSTONE: lens, orange stained.	0.07	
4.50								
5.00								
5.50		J	4.41	6.71	2.30	COAL: dull, bottom, J seam.	2.30	
6.00								
6.50								
6.75			6.71	6.85	0.14	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.14	
7.00			6.85	7.15	0.30	CARBONACEOUS CLAYSTONE.	0.30	
7.50			7.15	7.90	0.75	CLAYSTONE: dark grey, some possible slickensides.	0.75	
8.00								



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			7.90	8.90	>1.00	FINE-GRAINED SILTSTONE: coarsening downward, massive.	1.00	312/62N
8.50			8.90	8.90		End of Trench at 8.90m.		

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	1.00	CLAYSTONE: D1 covered in conglomerate boulders.	1.00	322/50S
1.00								
		D2	1.00	1.18	0.18	COAL: dull.	0.23	
			1.18	1.36	0.18	CLAYSTONE: orange stained.	0.24	
1.50		D2	1.36	6.63	5.27	COAL: dull with some boney sections, difficult to get detail, in permafrost deep and narrow hand dug trench.	6.88	
2.00								
2.50								
3.00		D2	1.36	6.63	5.27	COAL: dull with some boney sections, difficult to get detail, in permafrost deep and narrow hand dug trench.	6.88	
3.50								
4.00								
4.50		D2	1.36	6.63	5.27	COAL: dull with some boney sections, difficult to get detail, in permafrost deep and narrow hand dug trench.	6.88	
5.00								
5.50								
6.00		D2	1.36	6.63	5.27	COAL: dull with some boney sections, difficult to get detail, in permafrost deep and narrow hand dug trench.	6.88	
6.50								
7.00								
7.50			6.63	7.63	1.00	CARBONACEOUS CLAYSTONE: down to claystone.	1.00	
			7.63	7.63		End of Trench at 7.63m.		


**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	[Yellow dotted pattern]		0.00	1.00	>1.00	SANDSTONE.	1.00	310/ 60S
1.00			[Yellow horizontal line pattern]	1.00	2.45	1.45	CLAYSTONE.	1.45
2.50	[Black solid]	E1		2.45	3.40	0.95	COAL: dull. Top, E1 seam.	0.95
3.40			3.40	3.48	0.08	COAL: boney.	0.08	
3.48	[Black solid]	E1	3.48	3.69	0.21	COAL: dull.	0.21	
3.69			3.69	3.81	0.12	HIGHLY CARBONACEOUS CLAYSTONE: to sheared dull coal.	0.12	
3.81	[Black solid]	E1	3.81	4.08	0.27	COAL: dull.	0.27	
4.08			4.08	4.28	0.20	HIGHLY CARBONACEOUS CLAYSTONE: to sheared dull coal.	0.20	
4.28	[Black solid]	E1	4.28	4.34	0.06	FINE-GRAINED SILTSTONE: parting.	0.06	
4.34			4.34	4.41	0.07	COAL: boney.	0.07	
4.41	[Black solid]	E1	4.41	4.55	0.14	COAL: dull.	0.14	
4.55			4.55	4.72	0.17	COAL: boney.	0.17	
4.72	[Black solid]	E1	4.72	4.90	0.18	COAL: dull.	0.18	
4.90			4.90	4.97	0.07	COAL: boney, bottom E1 seam.	0.07	
4.97	[Yellow horizontal line pattern]		4.97	5.90	0.93	CLAYSTONE: dark grey.	0.93	
5.90			5.90	5.97	0.07	HIGHLY CARBONACEOUS CLAYSTONE.	0.07	
5.97	[Black solid]	E2	5.97	6.51	0.54	COAL: dull. E2 seam.	0.54	
6.51			[Yellow horizontal line pattern]	6.51	7.86	1.35	CLAYSTONE: to fine-grained siltstone in the middle, to claystone in the bottom.	1.35
7.86	[Black solid]	E3		7.86	8.10	0.24	COAL: dull. E3 seam.	0.24

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00			8.10	8.16	0.06	CLAYSTONE.	0.06	
			8.16	8.26	0.10	HIGHLY CARBONACEOUS CLAYSTONE.	0.10	
8.50			8.26	9.26	>1.00	FINE-GRAINED SILTSTONE: light grey.	1.00	314/55S
9.00			9.26	9.26		End of Trench at 9.26m.		

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: light grey.	1.00	309/60S
1.00								
1.00			1.00	1.49	0.49	COAL: boney. F bone with band of highly carbonaceous claystone, sheared.	0.49	
1.50								
2.00			1.49	4.10	2.61	COAL: dull. Bottom, F seam.	2.61	
2.50								
3.00			4.10	4.12	0.02	CLAYSTONE: greenish, soft with lenses.	0.02	
3.50								
4.00			4.12	4.47	0.35	HIGHLY CARBONACEOUS CLAYSTONE: dirty zone with mixed highly carbonaceous claystone and carbonaceous claystone to greenish soft claystone.	0.35	
4.50								
4.50			4.47	4.80	0.33	CLAYSTONE: soft.	0.33	
5.00								
5.00			4.80	5.80	>1.00	FINE-GRAINED SANDSTONE.	1.00	318/55S
5.50								
5.80			5.80	5.80		End of Trench at 5.80m.		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE.	1.00	304/64S
1.00			1.00	1.09	0.09	HIGHLY CARBONACEOUS CLAYSTONE.	0.09	
1.50		G	1.09	4.07	2.98	COAL: dull.	2.98	
4.00			4.07	4.47	0.40	CLAYSTONE.	0.40	
4.50			4.47	4.90	0.43	CARBONACEOUS CLAYSTONE: black.	0.43	
5.00			4.90	5.32	0.42	COAL: dull. Top, I seam.	0.42	
5.50			5.32	5.52	0.20	HIGHLY CARBONACEOUS CLAYSTONE: bottom, I seam.	0.20	
			5.52	5.67	0.15	CLAYSTONE: light grey.	0.15	
			5.67	5.84	0.17	CARBONACEOUS CLAYSTONE.	0.17	
6.00			5.84	6.34	>0.50	CLAYSTONE: trench is melting permafrost, J seam is buried under boulders frozen in permafrost.	0.50	
			6.34	6.34		End of Trench at 6.34m.		

**Roman Mountain - Trenching**

Coordinates are for the top of J seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	0.50	>0.50	CLAYSTONE: dark grey, well bedded, friable.	0.50	310/59S
0.50								
1.00								
1.50								
2.00								
2.50								
3.00								
3.50								
3.50		J	0.50	6.70	6.20	COAL: dull. Seam is flooded, stream is running through it when permafrost melts, no visible parting, impossible to get detail.	6.20	
4.00								
4.50								
5.00								
5.50								
6.00								
6.50								
7.00			6.70	7.70	>1.00	COARSE-GRAINED SILTSTONE: to fine-grained sandstone, orange stained.	1.00	
7.50								
			7.70	7.70		End of Trench at 7.70m.		

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	FINE-GRAINED SILTSTONE: to claystone. D1 covered by conglomerate boulders.	1.00	318/ ?
1.00		D2	1.00	1.20	0.20	COAL: dull. Top, D2 seam.	0.20	
1.50			1.20	1.41	0.21	CLAYSTONE: orange stained.	0.21	
2.00								
2.50								
3.00		D2	1.41	4.22	2.81	COAL: dull.	2.81	
3.50								
4.00								
4.50			4.22	4.28	0.06	CLAYSTONE.	0.06	
		D2	4.28	4.36	0.08	COAL: dull.	0.08	
			4.36	4.65	0.29	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone.	0.29	
		D2	4.65	4.77	0.12	COAL: dull. Bottom, D2 seam.	0.12	
			4.77	5.00	0.23	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone.	0.23	
5.50			5.00	6.00	>1.00	CLAYSTONE: light grey, bedding impossible to measure.	1.00	
6.00			6.00	6.00		End of Trench at 6.00m.		



**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: approximately 1.0m claystone under fine-grained sandstone unit, dark grey.	1.00	307/40S
1.00			1.00	1.02	0.02	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.02	
1.50			1.02	1.42	0.40	COAL: dull, top, E1 seam.	0.40	
			1.42	1.43	0.01	COAL: boney.	0.01	
			1.43	2.01	0.58	COAL: dull.	0.58	
2.00		E1	2.01	2.30	0.29	COAL: dull coal to sheared highly carbonaceous claystone with a few discontinuous claystone and bright coal lenses.	0.29	
2.50			2.30	2.68	0.38	COAL: dull. Frozen in permafrost.	0.38	
			2.68	2.85	0.17	COAL: boney.	0.17	
			2.85	3.01	0.16	COAL: dull.	0.16	
3.00			3.01	3.19	0.18	COAL: boney.	0.18	
			3.19	3.38	0.19	COAL: dull, bottom, E1 seam.	0.19	
3.50			3.38	3.52	0.14	CARBONACEOUS CLAYSTONE.	0.14	
4.00			3.52	4.19	0.67	CLAYSTONE: dark grey, highly broken, friable.	0.67	310/44S
4.50		E2	4.19	4.41	0.22	COAL: dull, top, E2 seam.	0.22	
			4.41	4.86	0.45	COAL: boney.	0.45	
5.00			4.86	5.21	0.35	CLAYSTONE.	0.35	
5.50			5.21	5.71	0.50	FINE-GRAINED SILTSTONE: orange stained, light grey.	0.50	
6.00			5.71	6.46	0.75	CLAYSTONE.	0.75	
6.50		E3	6.46	6.74	0.28	COAL: dull, E3 seam.	0.28	
7.00			6.74	7.07	0.33	CLAYSTONE.	0.33	
7.50			7.07	8.07	>1.00	FINE-GRAINED SILTSTONE.	1.00	
8.00								



Northing UTM: 6083193.452  
 Easting UTM: 630879.157  
 Elevation (m): 1885.241  
 Section: L 12800  
 Azimuth UTM: 035°  
 Syncline limb: Northeast

Starting depth (m): 0.00  
 Ending depth (m): 8.07  
 Logged by: DT, MW  
 Trenching complete: 17-Aug-06  
 Remarks:

**R2006-6E**

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			8.07	8.07		End of Trench at 8.07m.		

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: bedding not visible.	1.00	
0.50								
1.00		F	1.00	1.19	0.19	COAL: dull.	0.19	
1.19			1.31	0.12	COAL: boney.	0.12		
1.31			3.09	1.78	COAL: dull. Melting permafrost.	1.78		
1.50								
2.00								
2.50								
3.00								
3.09			3.09	3.12	0.03	CLAYSTONE: parting, dark grey.	0.03	
3.12		F	3.12	3.61	0.49	COAL: dull.	0.49	
3.61			4.06	0.45	CLAYSTONE: dark grey.	0.45		
3.50								
4.00								
4.06			4.06	5.06	>1.00	FINE-GRAINED SILTSTONE: orange stained.	1.00	308/50S
4.50								
5.00								
5.06			5.06	5.06		End of Trench at 5.06m.		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE.	1.00	312/ 60S
1.00				G	1.00	4.80	3.80	COAL: dull, melting permafrost, no visible partings.
4.80	4.80	4.96			0.16	CLAYSTONE: parting.	0.16	
4.96	4.96	5.40			0.44	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.44	
5.40	5.40	5.43			0.03	CLAYSTONE: parting.	0.03	
5.43	5.43	5.57			0.14	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.14	
5.57	5.57	6.17			0.60	CLAYSTONE: dark grey.	0.60	317/ 50S
6.17	6.17	7.11			0.94	CLAYSTONE: light grey.	0.94	
7.11	7.11	8.04			0.93	FINE-GRAINED SILTSTONE: orange stained, massive.	0.93	

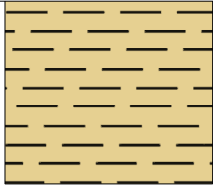
**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00			8.04	9.35	1.31	CLAYSTONE: broken, friable.	1.31	
8.50								
9.00			9.35	10.50	1.15	COAL: dull, top, J seam.	1.15	
9.50								
10.00			10.50	10.52	0.02	CLAYSTONE: parting.	0.02	
10.50								
11.00			10.52	15.85	5.33	COAL: dull, melting permafrost, detail not good.	5.33	
11.50								
12.00			10.52	15.85	5.33	COAL: dull, melting permafrost, detail not good.	5.33	
12.50								
13.00			10.52	15.85	5.33	COAL: dull, melting permafrost, detail not good.	5.33	
13.50								
14.00			10.52	15.85	5.33	COAL: dull, melting permafrost, detail not good.	5.33	
14.50								
15.00			10.52	15.85	5.33	COAL: dull, melting permafrost, detail not good.	5.33	
15.50								
16.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
10.00			15.85	16.85	>1.00	CLAYSTONE: dark grey, coarsening downward to fine-grained siltstone.	1.00	310/ 55S
16.50			16.85	16.85		End of Trench 16.85m.		

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: friable, broken. D1 covered in conglomerate boulders.	1.00	
1.00		D2	1.00	1.08	0.08	COAL: dull, top, D2 seam.	0.08	
			1.08	1.16	0.08	CLAYSTONE: parting.	0.08	308/70S
1.50		D2	1.16	2.59	1.43	COAL: dull, bottom, D2 seam.	1.43	
2.50			2.59	3.03	0.44	HIGHLY CARBONACEOUS CLAYSTONE: sheared, black, crumbly.	0.44	
3.00			3.03	3.77	0.74	CLAYSTONE: dark grey.	0.74	
3.50			3.77	4.77	>1.00	CLAYSTONE: orange stained below.	1.00	
4.00			4.77	4.77		End of Trench at 4.77m.		

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	SANDSTONE: light grey.	1.00	302/?
1.00								
1.50		E1	1.00	1.99	0.99	COAL: dull, top, E1 seam.	0.99	
2.00			1.99	2.20	0.21	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone, dark grey.	0.21	
2.50		E1	2.20	2.40	0.20	COAL: dull, hard.	0.20	
3.00			2.40	2.64	0.24	CARBONACEOUS CLAYSTONE: to boney coal, dark grey.	0.24	
3.50		E1	2.64	3.26	0.62	COAL: dull to boney, very hard.	0.62	
4.00			3.26	4.57	1.31	CARBONACEOUS CLAYSTONE: to dull to boney coal, very hard. Black streak.	1.31	
4.50		E2	4.57	5.09	0.52	COAL: dull coal to carbonaceous claystone, mostly very hard, some lenses of dull coal in between.	0.52	
5.00			5.09	5.91	0.82	FINE-GRAINED SILTSTONE: interseam, light grey, massive.	0.82	300/66S
5.50			5.91	6.82	0.91	CLAYSTONE: light grey.	0.91	
6.00			6.82	6.95	0.13	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.13	
6.50		E3	6.95	7.27	0.32	CARBONACEOUS CLAYSTONE: dark grey.	0.32	
7.00			7.27	8.27	>1.00	FINE-GRAINED SILTSTONE: orange stained. Note: ground was wet.	1.00	
7.50								
8.00								





Northing UTM: 6083025.434  
 Easting UTM: 631180.011  
 Elevation (m): 1986.543  
 Section: L 13000  
 Azimuth UTM: 035°  
 Syncline limb: Northeast

Starting depth (m): 0.00  
 Ending depth (m): 8.27  
 Logged by: DT, MW  
 Trenching complete: 16-Aug-06  
 Remarks:

**R2006-7E**

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
			8.27	8.27		End of Trench at 8.27m.		

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: light grey.	1.00	308/62S
1.00			1.00	1.48	0.48	CARBONACEOUS CLAYSTONE: dark grey, highly broken.	0.48	
1.50		F	1.48	3.63	2.15	COAL: dull, no obvious partings, some orange stained lenses.	2.15	
3.63			3.63	3.96	0.33	CARBONACEOUS CLAYSTONE: dark grey.	0.33	303/63S
4.00			3.96	5.30	1.34	CLAYSTONE: light grey, orange stained.	1.34	
5.30			CZ	5.30	5.45	0.15	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.15
5.45			5.45	5.59	0.14	CARBONACEOUS CLAYSTONE: dark grey.	0.14	
5.59			CZ	5.59	5.79	0.20	HIGHLY CARBONACEOUS CLAYSTONE.	0.20
6.00			5.79	6.79	>1.00	CLAYSTONE: coarsening to fine-grained siltstone to sandstone.	1.00	
6.79			6.79	End of Trench at 6.79m.				

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: orange stained, light grey.	1.00	312/51S
1.00			1.00	1.15	0.15	CARBONACEOUS CLAYSTONE: very sheared.	0.15	
1.50			1.15	3.56	2.41	COAL: dull.	2.41	
3.50								
4.00			3.56	4.34	0.78	CLAYSTONE: orange stained.	0.78	309/52S
4.50			4.34	4.54	0.20	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.20	
			4.54	4.68	0.14	CARBONACEOUS CLAYSTONE.	0.14	
			4.68	4.92	0.24	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.24	
			4.92	5.21	0.29	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone.	0.29	
			5.21	5.37	0.16	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.16	
			5.37	5.43	0.06	HIGHLY CARBONACEOUS CLAYSTONE.	0.06	
6.50			5.43	7.58	2.15	CLAYSTONE: orange stained.	2.15	310/50S
7.50								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	[Solid black lithology]	[Dotted seam pattern]						
8.50								
9.00	[Solid black lithology]	[Dotted seam pattern]						
9.50								
10.00	[Solid black lithology]	[Dotted seam pattern]						
10.50								
11.00	[Solid black lithology]	[Dotted seam pattern]						
11.50								
12.00	[Solid black lithology]	[Dotted seam pattern]						
12.50								
13.00	[Solid black lithology]	[Dotted seam pattern]						
13.50								
14.00	[Horizontal dashed pattern]		13.14	14.14	>1.00	CLAYSTONE: dark grey, coarsening down to siltstone. The trench was wet due to melting permafrost.	1.00	313/52S
			14.14	14.14		End of Trench at 14.14m.		

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	2.00	>2.00	CONGLOMERATE.	2.00	
2.00			2.00	2.07	0.07	CLAYSTONE: transition, muddy zone.	0.07	
2.50		D1	2.07	2.80	0.73	COAL: dull, top, D1 seam.	0.73	
2.80			2.80	2.84	0.04	CLAYSTONE: parting.	0.04	
3.00		D1	2.84	3.01	0.17	COAL: dull, bottom, D1 seam.	0.17	
3.01			3.01	4.87	1.86	CLAYSTONE: light grey, coarsening downward to fine-grained siltstone at hanging wall to D2.	1.86	309/40S
5.00		CZ	4.87	5.02	0.15	COALY ZONE.	0.15	
5.02			5.02	6.50	1.48	CLAYSTONE: measurement approximate due to curving of trench.	1.48	
6.50		D2	6.50	6.63	0.13	COAL: dull, top, D2 seam.	0.13	
6.63			6.63	6.73	0.10	CLAYSTONE: parting.	0.10	295/74S

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00		D2	6.73	9.44	2.71	COAL: dull.	2.71	
8.50								
9.00								
9.50				9.44	9.70	0.26	HIGHLY CARBONACEOUS CLAYSTONE.	0.26
		D2	9.70	9.83	0.13	COAL: boney, bottom, D2 seam.	0.13	
10.00			9.83	10.83	1.00	CARBONACEOUS CLAYSTONE: dark grey, gradational to light grey claystone.	1.00	304/48S
10.50			10.83	10.83		End of Trench at 10.83m.		


**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE.	1.00	314/60S
1.00								
1.50		E1	1.00	1.94	0.94	COAL: dull. E1 seam.	0.94	
2.00			1.94	2.02	0.08	HIGHLY CARBONACEOUS CLAYSTONE.	0.08	
			2.02	2.19	0.17	CARBONACEOUS CLAYSTONE.	0.17	
			2.19	2.35	0.16	HIGHLY CARBONACEOUS CLAYSTONE.	0.16	
2.50		E2	2.35	2.54	0.19	COAL: dull. E2 seam.	0.19	
			2.54	2.68	0.14	CARBONACEOUS CLAYSTONE: with some tiny coaly bands, (less than 5%).	0.14	
			2.68	2.77	0.09	COAL: boney.	0.09	
			2.77	2.94	0.17	CARBONACEOUS CLAYSTONE: hard, dark brown streak.	0.17	
3.00			2.94	3.49	0.55	CLAYSTONE: dark grey.	0.55	
3.50			3.49	3.57	0.08	COAL: dull.	0.08	
4.00			3.57	4.35	0.78	CLAYSTONE: light grey.	0.78	
4.50			4.35	4.40	0.05	COAL: dull.	0.05	
			4.40	4.68	0.28	CLAYSTONE: highly broken, orange stained.	0.28	
5.00			4.68	5.08	0.40	CLAYSTONE: dark grey.	0.40	
			5.08	5.20	0.12	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.12	
5.50		E3	5.20	5.53	0.33	COAL: bright. E3 seam, very hard.	0.33	
6.00			5.53	6.99	1.46	FINE-GRAINED SILTSTONE: massive.	1.46	312/58S
6.50			6.99	7.02	0.03	CARBONACEOUS CLAYSTONE.	0.03	
7.00			7.02	7.80	0.78	CLAYSTONE: dark grey.	0.78	
7.50			7.80	7.87	0.07	COAL: dull.	0.07	
			7.87	7.88	0.01	CLAYSTONE: parting.	0.01	
			7.88	8.02	0.14	COAL: dull.	0.14	
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00			8.02	8.25	0.23	<b>CARBONACEOUS CLAYSTONE:</b> to highly carbonaceous claystone, hard.	0.23	
			8.25	8.35	0.10	<b>COAL:</b> dull.	0.10	
			8.35	8.49	0.14	<b>CLAYSTONE.</b>	0.14	
8.50			8.49	8.57	0.08	<b>HIGHLY CARBONACEOUS CLAYSTONE:</b> sheared.	0.08	
			8.57	9.17	0.60	<b>CLAYSTONE:</b> orange stained.	0.60	
9.00								
9.50								
			9.17	10.17	1.00	<b>CLAYSTONE:</b> light grey, massive.	1.00	
10.00			10.17	10.17		<b>End of Trench at 10.17m.</b>		



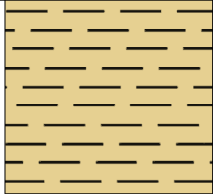
**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50								
1.00			0.00	2.00	>2.00	CLAYSTONE: light grey.	2.00	306/64S
1.50								
2.00			2.00	2.10	0.10	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.10	
2.50			2.10	2.73	0.63	COAL: boney.	0.63	
3.00								
3.50			2.73	4.06	1.33	COAL: dull.	1.33	
4.00			4.06	4.07	0.01	CLAYSTONE: parting, unclear in soft material.	0.01	
			4.07	4.16	0.09	COAL: dull.	0.09	
			4.16	4.19	0.03	CLAYSTONE: parting, unclear in soft material.	0.03	
			4.19	4.42	0.23	COAL: dull coal to highly carbonaceous claystone, sheared.	0.23	
4.50			4.42	4.67	0.25	CLAYSTONE: orange stain, soft.	0.25	
5.00								
5.50			4.67	6.39	1.72	CLAYSTONE: light grey.	1.72	322/62S
6.00								
6.50			6.39	6.65	0.26	CLAYSTONE: slight sheared, soft, broken.	0.26	
7.00			6.65	6.91	0.26	COAL: dull coal to highly carbonaceous claystone, very soft.	0.26	
			6.91	7.03	0.12	CLAYSTONE: dark grey, parting.	0.12	
			7.03	7.41	0.38	COAL: dull.	0.38	
7.50			7.41	7.80	0.39	CLAYSTONE: light grey.	0.39	
			7.80	7.90	0.10	COAL: boney.	0.10	
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
8.50			7.90	8.90	1.00	CLAYSTONE: light grey.	1.00	
8.90			8.90	8.90		End of Trench at 8.90m.		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: orange stain.	1.00	324/52S
1.00			1.00	1.12	0.12	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.12	
1.50		G	1.12	2.03	0.91	COAL: dull, top, G seam.	0.91	
2.00			2.03	2.04	0.01	CLAYSTONE: parting.	0.01	
2.50		G	2.04	2.93	0.89	COAL: dull.	0.89	
3.00			2.93	2.94	0.01	CLAYSTONE: parting.	0.01	
3.50		G	2.94	3.70	0.76	COAL: dull.	0.76	
4.00			3.70	3.72	0.02	CLAYSTONE: parting, greenish.	0.02	
4.50		G	3.72	4.42	0.70	COAL: dull.	0.70	
4.50		G	4.43	4.43	0.00	CLAYSTONE: parting.	0.00	
4.50			4.43	4.43	0.00	COAL: dull, bottom, G seam.	0.00	
4.50			4.48	4.78	0.30	CLAYSTONE: light grey.	0.30	
5.00			4.78	5.24	0.46	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.46	300/66S
5.50		J	5.24	5.62	0.38	COAL: dull.	0.38	
5.50			5.62	5.84	0.22	HIGHLY CARBONACEOUS CLAYSTONE: sheared, to dull coal.	0.22	
5.50			5.84	5.90	0.06	CLAYSTONE: soft, greenish.	0.06	
5.50			5.90	5.93	0.03	COAL: dull coal to highly carbonaceous claystone.	0.03	
6.00			5.93	6.07	0.14	CARBONACEOUS CLAYSTONE.	0.14	
6.50			6.07	6.71	0.64	CLAYSTONE: light grey.	0.64	
7.00		J	6.71	7.61	0.90	COAL: dull, top, J seam.	0.90	
7.50		J	7.61	7.62	0.01	CLAYSTONE: parting.	0.01	
7.50		J	7.62	7.69	0.07	COAL: dull.	0.07	
7.50		J	7.69	7.85	0.16	CLAYSTONE: parting.	0.16	
7.50		J	7.85	7.86	0.01	COAL: dull.	0.01	
7.50			7.86	7.86	0.00	CLAYSTONE: lens.	0.00	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)		
8.00			7.86	8.86	1.00	COAL: dull.	1.00			
8.50										
8.86					8.86	8.87	0.01	CLAYSTONE: lens.	0.01	
8.91					8.91	8.99	0.08	COAL: dull.	0.08	
9.00								CLAYSTONE: dirty green soft layer.		
9.50										
9.89					8.99	10.26	1.27	COAL: dull.	1.27	
10.00										
10.26					10.26	10.32	0.06	CARBONACEOUS CLAYSTONE: soft, slight brownish streak.	0.06	
10.32					10.32	10.62	0.30	COAL: dull.	0.30	
10.62					10.62	10.65	0.03	CLAYSTONE: lens.	0.03	
10.65					10.65	10.97	0.32	COAL: dull.	0.32	
11.00					10.97	11.01	0.04	CLAYSTONE: dirty green soft layer.	0.04	
11.01			11.01	11.53	0.52	COAL: dull.	0.52			
11.53			11.53	11.54	0.01	CLAYSTONE: parting.	0.01			
11.54			11.54	12.18	0.64	COAL: dull, bottom, J seam.	0.64			
12.00										
12.18			12.18	12.58	0.40	CLAYSTONE: broken, friable, medium grey.	0.40			
12.50										
12.58			12.58	14.58	>2.00	FINE-GRAINED SILTSTONE: massive, light grey.	2.00	317/60S		
13.00										
13.50										
14.00										
14.50			14.58	14.58		End of Trench at 14.58m.				

**Roman Mountain - Trenching**

Coordinates are for the top of D2 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: high orange stained, dip measurement is impossible.	1.00	319/7
1.00		D2	1.00	1.27	0.27	COAL: dull, top, D2 seam.	0.27	
			1.27	1.36	0.09	CLAYSTONE: parting.	0.09	
1.50		D2	1.36	1.88	0.52	COAL: dull	0.52	
		D2	1.88	1.90	0.02	CLAYSTONE: parting.	0.02	
		D2	1.90	2.02	0.12	COAL: dull	0.12	
2.00		D2	2.02	2.11	0.09	HIGHLY CARBONACEOUS CLAYSTONE: orange stained.	0.09	
		D2	2.11	2.21	0.10	COAL: dull	0.10	
		D2	2.21	2.24	0.03	HIGHLY CARBONACEOUS CLAYSTONE: orange stained.	0.03	
2.50		D2	2.24	3.01	0.77	COAL: dull	0.77	
3.00			3.01	3.04	0.03	HIGHLY CARBONACEOUS CLAYSTONE: orange stained.	0.03	
3.50		D2	3.04	4.38	1.34	COAL: dull	1.34	
4.00			4.38	4.41	0.03	HIGHLY CARBONACEOUS CLAYSTONE: orange stained.	0.03	
4.50		D2	4.41	4.64	0.23	COAL: dull, bottom, D2 seam.	0.23	
			4.64	4.84	0.20	CARBONACEOUS CLAYSTONE: slightly sheared.	0.20	
5.00			4.84	5.12	0.28	CLAYSTONE: dark grey, very soft, slightly sheared.	0.28	
5.50			5.12	6.12	>1.00	FINE-GRAINED SILTSTONE: light grey, hard, brown stained on weather surface.	1.00	324/62°S
6.00			6.12	6.12		End of Trench at 6.12m.		

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: light grey.	1.00	312/60S
1.00								
1.50		E1	1.00	2.33	1.33	COAL: dull, top, E1 seam.	1.33	
2.00								
2.33		E1	2.33	2.33	0.00		0.00	
2.38		E1	2.38	2.47	0.09	HIGHLY CARBONACEOUS CLAYSTONE: orange stained. COAL: dull. HIGHLY CARBONACEOUS CLAYSTONE: light grey, somewhat broken.	0.09	
2.47		E1	2.47	3.01	0.54	COAL: dull, bottom, E1 seam.	0.54	
3.01								
3.01			3.01	3.62	0.61	CLAYSTONE: light grey, massive, inter-seam parting.	0.61	
3.62		E2	3.62	4.01	0.39	COAL: dull, top, E2 seam.	0.39	
4.01		E2	4.01	4.11	0.10	COAL: boney.	0.10	
4.11		E2	4.11	4.24	0.13	COAL: dull, bottom, E2 seam.	0.13	
4.24			4.24	4.60	0.36	SILTSTONE: light grey, moderate broken, inter-seam.	0.36	
4.60			4.60	5.42	0.82	FINE-GRAINED SANDSTONE.	0.82	
5.42			5.42	5.72	0.30	CLAYSTONE: light grey, inter-seam.	0.30	322/58S
5.72		E3	5.72	5.80	0.08	COAL: dull, top, E3 seam.	0.08	
5.80		E3	5.80	5.84	0.04	COAL: boney.	0.04	
5.84		E3	5.84	5.96	0.12	COAL: dull.	0.12	
5.96		E3	5.96	6.03	0.07	HIGHLY CARBONACEOUS CLAYSTONE.	0.07	
6.03		E3	6.03	6.06	0.03	COAL: dull, bottom, E3 seam.	0.03	
6.06		E3	6.06	6.15	0.09	CLAYSTONE.	0.09	
6.15			6.15	7.15	>1.00	SANDSTONE: orange stained, massive.	1.00	
7.15			7.15	7.15		End of Trench at 7.15m.		

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	1.00	CLAYSTONE: dark grey.	1.00	322/58N
1.00			1.00	1.26	0.26	COAL: dull.	0.26	
1.26		F	1.26	1.54	0.28	COAL: boney.	0.28	
1.54			1.54	3.40	1.86	COAL: dull.	1.86	
3.40			3.40	3.50	0.10	HIGHLY CARBONACEOUS CLAYSTONE: orange stained.	0.10	
3.50		F	3.50	3.81	0.31	COAL: dull.	0.31	
3.81			3.81	3.84	0.03	COAL: boney.	0.03	
3.84			3.84	4.02	0.18	CLAYSTONE: orange stained.	0.18	
4.02			4.02	4.13	0.11	HIGHLY CARBONACEOUS CLAYSTONE.	0.11	
4.13			4.13	4.41	0.28	CLAYSTONE: light grey, somewhat broken.	0.28	
4.41			4.41	5.41	1.00	SILTSTONE: coarsening to sandstone.	1.00	320/58N
5.41			5.41			<b>End of Trench at 5.41m.</b>		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: to carbonaceous claystone, dark grey.	1.00	301/52N
1.00			1.00	1.09	0.09	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone.	0.09	
			1.09	1.13	0.04	HIGHLY CARBONACEOUS CLAYSTONE: orange stained.	0.04	
1.50								
2.00								
2.50			1.13	3.20	2.07	COAL: dull with some orange stained lenses.	2.07	
3.00								
3.50			3.20	3.26	0.06	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone, orange stained.	0.06	
			3.26	3.30	0.04	COAL: dull.	0.04	
			3.30	3.66	0.36	FINE-GRAINED SILTSTONE: light grey, slightly broken.	0.36	296/?
			3.66	3.79	0.13	HIGHLY CARBONACEOUS CLAYSTONE.	0.13	
4.00			3.79	4.10	0.31	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.31	
4.50			4.10	4.26	0.16	CARBONACEOUS CLAYSTONE: light grey.	0.16	
			4.26	4.30	0.04	COAL: dull.	0.04	
			4.30	4.37	0.07	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone, dark grey.	0.07	
			4.37	4.37	0.00	COAL: dull.	0.00	
5.00			4.37	5.37	1.00	CLAYSTONE: highly broken, orange stained, dark grey, coarsening downward to siltstone.	1.00	300/54N
5.50								
6.00								
6.50								
7.00								
7.50			5.37	9.21	3.84	SILTSTONE: orange stained.	3.84	308/52N
8.00								



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)					
8.00													
8.50													
9.00													
9.50													
10.00													
10.50													
11.00													
11.50													
11.50													
									11.35	11.42	0.07	HIGHLY CARBONACEOUS CLAYSTONE: orange stained lens.	0.07
									11.42	11.53	0.11	COAL: dull.	0.11
									11.53	11.57	0.04	HIGHLY CARBONACEOUS CLAYSTONE: orange stained lens.	0.04
12.00													
									11.57	11.89	0.32	COAL: dull.	0.32
12.00													
									11.89	11.92	0.03	HIGHLY CARBONACEOUS CLAYSTONE: orange stained lens.	0.03
12.50													
									11.92	12.32	0.40	COAL: dull.	0.40
12.50													
									12.32	12.34	0.02	HIGHLY CARBONACEOUS CLAYSTONE: orange stained lens.	0.02
13.00													
13.50													
14.00													
14.50													
14.50													
15.00													
15.38	End of Trench at 15.38m.												

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: fine bedding, easy to break, friable.	1.00	308/56N
1.00								
1.50		G	1.00	2.50	1.50	COAL: dull.	1.5	
2.00								
2.50			2.50	2.66	0.16	CLAYSTONE: discontinuous oval shape lens.	0.16	
3.00								
3.50		G	2.66	3.86	1.20	COAL: dull.	1.20	
4.00								
4.00			3.86	3.87	0.01	CLAYSTONE: parting.	0.01	
4.50								
4.50		G	3.87	4.75	0.88	COAL: dull.	0.88	
5.00								
5.00			4.75	4.78	0.03	CLAYSTONE.	0.03	
5.00		G	4.78	5.05	0.27	COAL: dull.	0.27	
5.50								
5.50			5.05	5.10	0.05	CLAYSTONE: orange stained, discontinuous lens.	0.05	
5.50		G	5.10	5.40	0.30	COAL: dull.	0.30	
5.50								
5.50			5.40	5.42	0.02	CLAYSTONE: orange stained.	0.02	
5.50		G	5.42	5.72	0.30	COAL: dull.	0.30	
6.00								
6.00			5.72	5.76	0.04	CLAYSTONE: orange stained.	0.04	
6.00		G	5.76	6.06	0.30	COAL: dull.	0.30	
6.50								
6.50			6.06	7.10	1.04	CLAYSTONE: inter-seam, dark grey, fine bedding, friable.	1.04	305/74N
7.00								
7.50		J	7.10	7.58	0.48	COAL: dull with some small orange stained lenses.	0.48	
8.00								
8.00			7.58	8.08	0.50	HIGHLY CARBONACEOUS CLAYSTONE: zone of coal mixed with orange stained lenses up to 60% highly carbonaceous claystone.	0.50	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00								
8.50								
9.00								
9.50								
10.00								
10.50			8.08	10.38	2.30	COAL: dull. Trench flooded.	2.30	
11.00			10.38	11.16	0.78	CLAYSTONE: dark grey.	0.78	310/86S
11.50			11.16	13.46	2.30	CARBONACEOUS CLAYSTONE: <i>FAULT ZONE</i> . very rusty and soft, twisted and sheared, bedding variable, dip up to 80deg South.	2.30	276/66N
12.00								
12.50								
13.00								
13.50								
14.00								
14.50								
15.00								
15.50								
16.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50	FINE-GRAINED SILTSTONE: orange stained, folded bedding - drag fold anticline. Note: Assume section from the middle of the fold down to K1 is in place; the section from mid-fold up to the fault under J is a repetition of the section below.		13.46	20.76	apx 3.0		7.30	181/21W
17.00								
17.50								
18.00								
18.50								
19.00								
19.50								
20.00								
20.50								
21.00								
21.50	CLAYSTONE: orange stained.		21.00	21.38	0.38		0.38	
	HIGHLY CARBONACEOUS CLAYSTONE: black streak, somewhat sheared.		21.38	21.50	0.12		0.12	
	CARBONACEOUS CLAYSTONE: brown streak, somewhat sheared.		21.50	21.53	0.03		0.03	
	COAL: dull, somewhat sheared.		21.53	21.63	0.10		0.10	
	CLAYSTONE: orange stained.		21.63	21.67	0.04		0.04	
22.00		K1-2	21.67	22.53	0.86	COAL: dull.	0.86	
22.50			22.53	22.89	0.36	CLAYSTONE: orange stained.	0.36	317/64N
23.00			22.89	22.98	0.09	HIGHLY CARBONACEOUS CLAYSTONE.	0.09	
		K1-2	22.98	23.28	0.30	COAL: dull.	0.30	
23.50			23.28	23.64	0.36	CLAYSTONE: orange stained.	0.36	
			23.64	23.84	0.20	HIGHLY CARBONACEOUS CLAYSTONE.	0.20	
			23.84	23.98	0.14	CARBONACEOUS CLAYSTONE.	0.14	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
23.00			23.98	24.38	0.40	FINE-GRAINED SILTSTONE.	0.40	
			24.38	24.44	0.06	HIGHLY CARBONACEOUS CLAYSTONE.	0.06	
24.50			24.44	27.54	3.10	FINE-GRAINED SILTSTONE: light grey, with 1-3mm twig fossils.	3.10	300/60N
25.00								
25.50								
26.00								
26.50								
27.00								
27.50			27.54	28.54	1.00	HIGHLY CARBONACEOUS CLAYSTONE: coaly zone, flooded.	1.00	
28.00								
28.50								
29.00								
29.50								
30.00								
30.50								
31.00								
31.50								
32.00								

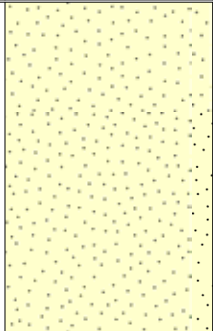
**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
32.00	[Yellow dotted pattern representing sandstone]								
32.50									
33.00									
33.50									
34.00									
34.50									
35.00				28.54	41.54	>13.00	<b>FINE-GRAINED SANDSTONE:</b> possibly coarse-grained siltstone, orange stained.	13.00	306/60N
35.50									
36.00									
36.50									
37.00									
37.50									
38.00									
38.50									
39.00									
39.50									
40.00									

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
40.00								
40.50								
41.00								
41.50			41.54	41.54		End of Trench at 41.54m.		

**Roman Mountain - Trenching**

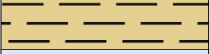
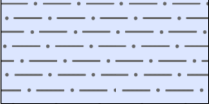
Coordinates are for the top of D1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	2.00	>2.00	CONGLOMERATE: orange stained.	2.00	304 /?
0.50								
1.00								
1.50								
2.00		D1	2.00	2.36	0.36	COAL: dull, with some orange stained lenses or highly carbonaceous claystone, irregular and discontinuous.	0.36	
2.36			2.36	2.53	0.17	HIGHLY CARBONACEOUS CLAYSTONE: orange stained.	0.17	
2.53			2.53	2.73	0.20	CLAYSTONE: orange stained, coarsening down to siltstone.	0.20	
2.73			2.73	4.83	2.10	SILTSTONE: massive.	2.10	315/75N
3.00								
3.50								
4.00								
4.50								
4.83		D2	4.83	4.92	0.09	COAL: dull.	0.09	
4.92			4.92	5.86	0.94	SILTSTONE: light grey, with two 1cm dull coal bands.	0.94	
5.00								
5.50								
6.00			5.86	8.26	2.40	CLAYSTONE: mixed lenses, very weathered with 15-20% streaks of carbonaceous claystone to highly carbonaceous claystone.	2.40	
6.50								
7.00								
7.50								
8.00								



**Roman Mountain - Trenching**

Coordinates are for the top of D1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
8.50			8.26	8.76	>0.50	FINE-GRAINED SILTSTONE: uniform color, light grey, massive.	0.50	310/57N
			8.76	8.76		End of Trench at 8.76m.		

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	[Yellow pattern]		0.00	1.00	>1.00	CLAYSTONE: medium grey.	1.00	310/57N
1.00			1.00	1.76	0.76	CLAYSTONE: dark grey, highly broken, soft, friable.	0.76	
2.00	[Black pattern]	E1	1.76	3.48	1.72	COAL: dull.	1.72	
3.50			3.48	3.59	0.11	HIGHLY CARBONACEOUS CLAYSTONE: to boney, slight brown streak.	0.11	
4.00	[Black pattern]	E1	3.59	3.91	0.32	COAL: dull.	0.32	
4.00			3.91	3.94	0.03	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.03	
4.50	[Black pattern]	E1	3.94	4.42	0.48	COAL: dull.	0.48	
4.50			4.42	4.50	0.08	HIGHLY CARBONACEOUS CLAYSTONE.	0.08	
5.00	[Yellow pattern]		4.50	5.19	0.69	CLAYSTONE: medium grey, very hard, massive.	0.69	
5.50			5.19	5.56	0.37	CLAYSTONE: dark grey, softer.	0.37	
6.00			5.56	5.83	0.27	CARBONACEOUS CLAYSTONE: dark grey, soft.	0.27	
6.50			5.83	6.26	0.43	CLAYSTONE: light grey, hard, but soft when wet.	0.43	
7.00	[Black pattern]		6.26	7.34	1.08	CARBONACEOUS CLAYSTONE: mixed zone with 10-20% claystone, very soft, broken, slightly sheared.	1.08	
7.50			7.34	7.82	0.48	COAL: dull.	0.48	
8.00			7.82	7.95	0.13	CLAYSTONE: dark grey, parting.	0.13	

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00			7.95	8.23	0.28	COAL: dull to boney.	0.28	
8.50			8.23	9.27	1.04	CLAYSTONE: dark grey, lightening to light grey at the bottom.	1.04	304/80N
9.00								
9.50								
		<b>E1</b>	9.27	9.55	0.28	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone, very soft.	0.28	
10.00			9.55	10.55	>1.00	CLAYSTONE: dark grey.	1.00	
10.50			10.55	10.55		End of Trench at 10.55m.		

**Roman Mountain - Trenching**

Coordinates are for the top of L seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	<b>FINE-GRAINED SANDSTONE:</b> massive, orange stained.	1.00	301/70S
0.50								
1.00			1.00	1.72	0.72	<b>COAL:</b> dull, mixed with orange stained highly carbonaceous claystone lenses.	0.72	
1.50								
2.00			1.72	2.04	0.32	<b>HIGHLY CARBONACEOUS CLAYSTONE:</b> to carbonaceous claystone with orange stained lenses.	0.32	
2.04								
2.04			2.04	2.10	0.06	<b>COAL:</b> dull. Some orange stained lenses.	0.06	
2.10								
2.10			2.10	2.36	0.26	<b>CLAYSTONE:</b> light grey.	0.26	
2.36								
2.36			2.36	2.41	0.05	<b>HIGHLY CARBONACEOUS CLAYSTONE:</b> dark grey.	0.05	
2.41								
2.41			2.41	2.84	0.43	<b>CLAYSTONE:</b> to carbonaceous claystone and highly carbonaceous claystone, mixed, some orange stained.	0.43	
2.84								
2.84			2.84	2.90	0.06	<b>COAL:</b> dull.	0.06	
2.90								
2.90			2.90	2.99	0.09	<b>CLAYSTONE:</b> orange stained.	0.09	
2.99								
2.99			2.99	3.99	>1.00	<b>FINE-GRAINED SILTSTONE:</b> massive, some orange stained.	1.00	307/78S
3.99								
3.99	<b>End of Trench at 3.99m.</b>							


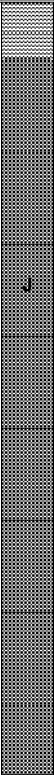
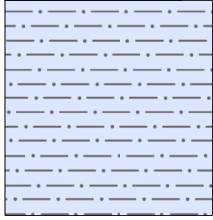
**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	CLAYSTONE: medium grey.		0.00	1.00	>1.00		1.00	315/62S
0.50								
1.00	COAL: dull.	G	1.00	5.50	4.50		4.50	
1.50								
2.00								
2.50								
3.00								
3.50	CLAYSTONE: inter-seam.		5.50	5.65	0.15		0.15	
5.50								
6.00	COAL: dull coal to highly carbonaceous claystone.	I	5.65	6.09	0.44		0.44	
6.00								
6.50	CLAYSTONE: inter-seam.		6.09	7.04	0.95		0.95	
6.50								
7.00								
7.00								
7.50								
7.50								
8.00								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00			7.04	11.59	4.55	COAL: dull, very wet and muddy, no detail is possible.	4.55	
8.50								
9.00								
9.50								
10.00								
10.50								
11.00								
11.50								
12.00			11.59	12.59	>1.00	FINE-GRAINED SILTSTONE: massive.	1.00	294/66S
12.50			12.59	12.59		End of Trench at 12.59m.		

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: Moosebar, medium grey with sideritic concretions.	1.00	
1.00				1.00	2.00	1.00	SANDSTONE: Moosebar, orange green, oxidized, with small 0.5 to 1.0 cm pebbles.	1.00
2.00				2.00	5.12	3.12	COAL: dull.	3.12
5.12			5.12	5.19	0.07	HIGHLY CARBONACEOUS CLAYSTONE.	0.07	
5.19			5.19	5.57	0.38	COAL: dull.	0.38	
5.57			5.57	5.64	0.07	HIGHLY CARBONACEOUS CLAYSTONE.	0.07	
5.64			5.64	6.13	0.49	CARBONACEOUS CLAYSTONE: sheared green stain.	0.49	
6.13			6.13	6.91	0.78	CLAYSTONE: soft, massive, slight green and yellowish stain.	0.78	302/62N
6.91			6.91	7.12	0.21	HIGHLY CARBONACEOUS CLAYSTONE.	0.21	
7.12			7.12	7.28	0.16	CARBONACEOUS CLAYSTONE.	0.16	
7.28			7.28	7.35	0.07	CLAYSTONE.	0.07	
7.35			7.35	7.93	0.58	HIGHLY CARBONACEOUS CLAYSTONE.	0.58	

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
8.00			7.93	8.35	0.42	CLAYSTONE: yellow stain	0.42	303/59N	
8.50			8.35	8.48	0.13	CARBONACEOUS CLAYSTONE.	0.13		
			8.48	8.59	0.11	HIGHLY CARBONACEOUS CLAYSTONE.	0.11		
9.00		GT-1	8.59	9.83	1.24	COAL: dull.	1.24		
9.50			9.83	9.90	0.07	HIGHLY CARBONACEOUS CLAYSTONE.	0.07		
10.00			9.90	9.94	0.04	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone.	0.04		
			9.94	10.09	0.15	HIGHLY CARBONACEOUS CLAYSTONE.	0.15		
10.50		GT-1	10.09	12.33	2.24	COAL: dull. Some slight rusty stain.	2.24		
11.00			12.33	12.43	0.10	COAL: boney.	0.10		
11.50			12.43	12.85	0.42	COAL: dull.	0.42		
12.00			12.85	13.68	0.83	FINE-GRAINED SILTSTONE: some yellow stain.	0.83		302/40N
12.50			13.68	14.97	1.29	COAL: dull.	1.29		
13.00			14.97	15.50	0.53	FINE-GRAINED SILTSTONE: dark grey.	0.53	304/70N	
13.50			15.50	15.80	0.30	COAL: dull, tentative identification.	0.30		
14.00			15.80	15.93	0.13	CARBONACEOUS CLAYSTONE.	0.13		
14.50		GT-17	15.50	15.80	0.30	COAL: dull, tentative identification.	0.30		
15.00			15.80	15.93	0.13	CARBONACEOUS CLAYSTONE.	0.13		
15.50									
16.00									



**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.00	[Black Lithology]	GT-17	15.93	16.63	0.70	COAL: dull, very crumbly, black streak, sheared.	0.70	
16.50			16.63	16.71	0.08	CARBONACEOUS CLAYSTONE: to claystone.	0.08	
17.00	[Black Lithology]	GT-17	16.71	17.61	0.90	COAL: dull.	0.90	
17.50			17.61	17.71	0.10	HIGHLY CARBONACEOUS CLAYSTONE.	0.10	
18.00	[Black Lithology]	GT-17	17.71	18.82	1.11	COAL: dull, some sheared, possibly high ash or highly carbonaceous claystone.	1.11	
18.50			18.82	18.97	0.15	CARBONACEOUS CLAYSTONE.	0.15	
19.00			18.97	19.16	0.19	CLAYSTONE: yellow stained, light grey.	0.19	
19.50	[Blue Lithology]		19.16	19.74	0.58	FINE-GRAINED SILTSTONE: opposite dip from last bedding.	0.58	318/60S
20.00	[Black Lithology]	GT-27	19.74	21.42	1.68	COAL: dull, tentative identification.	1.68	
20.50			21.42	21.54	0.12	FINE-GRAINED SILTSTONE.	0.12	308/62S
21.00	[Black Lithology]	GT-17	21.54	22.17	0.63	MEDIUM-GRAINED SANDSTONE: massive, hard.	0.63	
21.50			22.17	22.30	0.13	FINE-GRAINED SILTSTONE: yellow stain.	0.13	
22.00			22.30	22.42	0.12	HIGHLY CARBONACEOUS CLAYSTONE: tentative identification, reversed repeat of GT-1 above.	0.12	
22.50	[Black Lithology]	GT-17	22.42	22.59	0.17	COAL: dull.	0.17	
23.00			22.59	22.72	0.13	HIGHLY CARBONACEOUS CLAYSTONE.	0.13	
23.50	[Black Lithology]							
24.00	[Black Lithology]							

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)						
24.00	[Black Lithology Column]	[Dotted Seam Column]	22.72	26.62	3.90	COAL: dull.	3.90							
24.50														
25.00														
25.50														
26.00														
26.50														
26.62									26.62	26.69	0.07	HIGHLY CARBONACEOUS CLAYSTONE.	0.07	
26.69									26.69	27.05	0.36	COAL: dull.	0.36	
27.05									27.05	27.13	0.08	CARBONACEOUS CLAYSTONE.	0.08	
27.13									27.13	29.59	2.46	COAL: dull.	2.46	
29.59	29.59	30.15	0.56	CARBONACEOUS CLAYSTONE: some small bands of highly carbonaceous claystone.	0.56									
30.15	30.15	30.77	0.62	CLAYSTONE: back to North dip.	0.62	320/80N								
30.77	30.77	31.09	0.32	COAL: dull, sheared; tripled GT-1 seam?	0.32									
31.09	31.09	31.13	0.04	CARBONACEOUS CLAYSTONE: lens.	0.04									
31.50														
32.00														

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
32.50		GT-17	31.13	33.84	2.71	COAL: dull.	2.71	
34.00			33.84	33.96	0.12	HIGHLY CARBONACEOUS CLAYSTONE.	0.12	
			33.96	34.13	0.17	CARBONACEOUS CLAYSTONE.	0.17	
			34.13	34.26	0.13	COAL: boney coal to highly carbonaceous claystone.	0.13	
34.50		GT-17	34.26	35.54	1.28	COAL: dull.	1.28	
35.50			35.54	35.76	0.22	CARBONACEOUS CLAYSTONE.	0.22	
			35.76	35.89	0.13	HIGHLY CARBONACEOUS CLAYSTONE.	0.13	
			35.89	35.99	0.10	CARBONACEOUS CLAYSTONE.	0.10	
			35.99	36.11	0.12	HIGHLY CARBONACEOUS CLAYSTONE.	0.12	
36.50		GT-17	36.11	36.91	0.80	COAL: dull, sheared.	0.80	
37.00			36.91	36.95	0.04	CARBONACEOUS CLAYSTONE: parting.	0.04	
37.50		GT-17	36.95	38.55	1.60	COAL: dull.	1.60	
38.50			38.55	38.77	0.22	CARBONACEOUS CLAYSTONE: parting.	0.22	
39.00		GT-17	38.77	39.40	0.63	COAL: dull.	0.63	
39.50			39.40	39.41	0.01	CARBONACEOUS CLAYSTONE: parting.	0.01	

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
40.00	[Black Lithology]	GT-1	39.41	42.63	3.22	COAL: dull.	3.22	
40.50								
41.00	[Yellow Lithology]		42.63	42.75	0.12	HIGHLY CARBONACEOUS CLAYSTONE.	0.12	300/75N
41.50						FINE-GRAINED SILTSTONE: main trench ended in fine-grained siltstone, side trench started in seam 7.	0.29	
42.00						CLAYSTONE.	0.19	
42.50								
43.00	[Black Lithology]	GT-2	43.23	46.55	3.32	COAL: dull.	3.32	
43.50								
44.00	[Yellow Lithology]		46.55	46.91	0.36	CLAYSTONE: slightly orange stain.	0.36	300/70N
44.50								
45.00	[Black Lithology]	GT-3	46.91	47.01	0.10	COAL: dull.	0.10	
45.50						CARBONACEOUS CLAYSTONE.	0.06	
46.00						COAL: dull.	0.14	
46.50						CLAYSTONE.	0.23	
47.00	[Black Lithology]	GT-4	47.21	47.44	0.23	CLAYSTONE.	0.23	
47.50								
48.00	[Black Lithology]	GT-5	47.44	48.07	0.63	COAL: dull.	0.63	
48.50								

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
48.00								
			48.07	48.16	0.09	CARBONACEOUS CLAYSTONE.	0.09	
			48.16	48.25	0.09	COAL: boney.	0.09	
		GT-3	48.25	48.50	0.25	COAL: dull.	0.25	
48.50								
			48.50	49.86	1.36	MEDIUM-GRAINED SILTSTONE.	1.36	300/70N
49.00								
49.50								
50.00								
			49.86	50.04	0.18	CARBONACEOUS CLAYSTONE.	0.18	
			50.04	50.14	0.10	HIGHLY CARBONACEOUS CLAYSTONE.	0.10	
50.50								
			50.14	51.14	>1.00	MEDIUM-GRAINED SILTSTONE: coarsening down to sandstone.	1.00	
51.00								
			51.14	51.14		End of Trench at 51.14m. Note: 48.14m between HW Bird /FW GT-3, of which 35.59m are coal.		

**Roman Mountain - Trenching**

Coordinates are for the top of the Middle Gething seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: light grey, some orange stain.	1.00	311/77N
1.00			1.00	1.23	0.23	CLAYSTONE: dark grey.	0.23	
1.50		M1	1.23	1.56	0.33	COAL: dull.	0.33	
1.50			1.56	1.91	0.35	CARBONACEOUS CLAYSTONE: to claystone, parting varies in thickness along exposure from 0.58m to 0.13m.	0.35	
2.00			1.91	2.85	0.94	COAL: dull.	0.94	
2.50		M1	1.91	2.85	0.94	COAL: dull.	0.94	
3.00			2.85	2.97	0.12	CLAYSTONE: parting faulted, offset by 0.15m, SE side up, NW side down.	0.12	315/?
3.50			2.97	4.32	1.35	CLAYSTONE to HIGHLY CARBONACEOUS CLAYSTONE: very sheared zone.	1.35	
4.00			2.97	4.32	1.35	CLAYSTONE to HIGHLY CARBONACEOUS CLAYSTONE: very sheared zone.	1.35	
4.50		M2	4.32	4.44	0.12	COAL: dull.	0.12	
4.50			4.44	4.50	0.06	CLAYSTONE.	0.06	
4.50		M2	4.50	4.57	0.07	COAL: dull.	0.07	
4.50			4.57	4.61	0.04	CLAYSTONE.	0.04	
4.50		M2	4.61	4.80	0.19	COAL: dull.	0.19	
4.50			4.80	4.83	0.03	CLAYSTONE.	0.03	
4.50		M2	4.83	4.91	0.08	COAL: dull.	0.08	
5.00			4.91	5.91	>1.00	MEDIUM-GRAINED SILTSTONE: fining downward to claystone.	1.00	
5.50			4.91	5.91	>1.00	MEDIUM-GRAINED SILTSTONE: fining downward to claystone.	1.00	
5.91			5.91	5.91		End of Trench at 5.91m.		

**Roman Mountain - Trenching**

Coordinates are for the top of CZ at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CONGLOMERATE.	1.00	
1.00			1.00	2.05	1.05	CLAYSTONE: to carbonaceous claystone, light grey.	1.05	
2.05			2.05	2.27	0.22	CLAYSTONE: to carbonaceous claystone, dark grey.	0.22	
2.27		CZ	2.27	2.41	0.14	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone.	0.14	
2.41			2.41	3.41	>1.00	CLAYSTONE: to siltstone, coarsening downward.	1.00	309/67N
3.41			3.41	3.41		End of Trench at 3.41m.		

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: orange stained, very soft.	1.00	304/50S
1.00								
1.50								
2.00								
2.50								
3.00								
3.50								
4.00								
4.50								
5.00								
5.50								
6.00								
6.50								
7.00								
7.50								
			7.40	8.50	1.10	FINE-GRAINED SILTSTONE: well bedded.	1.10	



**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.50								
9.50		CF1	8.50	10.60	2.10	COAL: dull.	2.10	
10.60			10.60	11.28	0.68	FINE-GRAINED SILTSTONE: trench was caving, no time for much detail.	0.68	
11.28			11.28	11.58	0.30	CARBONACEOUS CLAYSTONE.	0.30	
11.58			11.58	11.70	0.12	HIGHLY CARBONACEOUS CLAYSTONE.	0.12	
11.70			11.70	11.83	0.13	CLAYSTONE.	0.13	
11.83			11.83	11.99	0.16	HIGHLY CARBONACEOUS CLAYSTONE.	0.16	
11.99			11.99	12.64	0.65	CLAYSTONE.	0.65	
12.64			12.64	12.97	0.33	HIGHLY CARBONACEOUS CLAYSTONE.	0.33	
12.97			12.97	14.37	1.40	CLAYSTONE: massive medium grey.	1.40	310/50S
14.37			14.37	14.72	0.35	CARBONACEOUS CLAYSTONE: dark grey.	0.35	
14.72			14.72	15.01	0.29	CLAYSTONE.	0.29	305/53S
15.01			15.01	15.12	0.11	CARBONACEOUS CLAYSTONE.	0.11	
15.12			15.12	16.12	>1.00	CLAYSTONE: coarsening down to siltstone.	1.00	



Northing UTM: 6083560.711  
 Easting UTM: 630832.91  
 Elevation (m): 1742.2  
 Section: L 12500  
 Azimuth UTM: 035°  
 Syncline limb: Northeast

Starting depth (m): 0.00  
 Ending depth (m): 16.12  
 Logged by: DT, MW  
 Trenching complete: 8-Aug-06  
 Remarks:

**R2006-15 UG**

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
10.00			16.12	16.12		End of Trench at 16.12m.		

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: Moosebar, medium grey with sideritic concretions.	1.00	
1.00				1.00	2.00	1.00	SANDSTONE: Moosebar, orange-green (Trench is in melting permafrost).	1.00
2.00		<b>Bird</b>		2.00	2.30	0.30	COAL: dull. Contacts at 300/80N.	0.30
2.50			2.30	2.77	0.47	CLAYSTONE: mixed zone of 50% claystone partings and dull coal (muddy - difficult to get finer details).	0.47	
3.00		<b>Bird</b>	2.77	4.01	1.24	COAL: dull.	1.24	
4.00			4.01	4.19	0.18	CLAYSTONE: to carbonaceous claystone, sheared, highly broken, orange stained.	0.18	300/80N
4.50		<b>Bird</b>	4.19	6.24	2.05	COAL: dull.	2.05	
6.50			6.24	7.17	0.93	FINE-GRAINED SILTSTONE: possibly discontinuous lens (does not show up on other side of trench - floor flooded); Fault?	0.93	
7.50		<b>Bird</b>						

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.50		Bird	7.17	9.84	2.67	COAL: dull, repeated.	2.67	
10.00			9.84	10.63	0.79	COARSE-GRAINED SILTSTONE: dark grey.	0.79	
11.00		GT-1	10.63	11.69	1.06	COAL: dull.	1.06	
12.00			11.69	12.16	0.47	FINE-GRAINED SILTSTONE: slight grit.	0.47	
12.50		CZ	12.16	12.44	0.28	COAL: dull.	0.28	
12.50			12.44	12.74	0.30	CARBONACEOUS CLAYSTONE: some orange stained with coaly stringers.	0.30	
13.50		GT-2	12.74	14.27	1.53	COAL: dull.	1.53	
14.50			14.27	14.34	0.07	CLAYSTONE: orange stained, parting.	0.07	
15.50		GT-2	14.34	16.73	2.39	COAL: dull.	2.39	

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50								
17.00								
17.50			16.73	18.38	1.65	MEDIUM-GRAINED SILTSTONE: orange stained, parting.	1.65	300/76N
18.00								
18.50		CZ	18.38	18.62	0.24	COAL: dull.	0.24	
19.00			18.62	19.03	0.41	MEDIUM-GRAINED SILTSTONE: good sample not possible.	0.41	
19.50								
20.00		GT-2	19.03	20.77	1.74	COAL: dull.	1.74	
20.50								
21.00			20.77	21.09	0.32	CARBONACEOUS CLAYSTONE: parting.	0.32	312/82N
21.50		GT-2	21.09	21.32	0.23	COAL: dull.	0.23	
			21.32	21.36	0.04	HIGHLY CARBONACEOUS CLAYSTONE: parting.	0.04	
		GT-2	21.36	21.76	0.40	COAL: dull coal to highly carbonaceous claystone.	0.40	
22.00			21.76	22.14	0.38	CARBONACEOUS CLAYSTONE.	0.38	
22.50			22.14	22.76	0.62	CLAYSTONE: coarsening downward.	0.62	
23.00								
23.50								
24.00								

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
24.00			22.76	25.84	3.08	SILTSTONE: coarsening downward.	3.08	
24.50								
25.00			25.84	29.25	3.41	SANDSTONE: coarsening downwards, orange stained last 1m.	3.41	307/70N
25.50								
26.00			29.25	29.39	0.14	COAL: dull coal to highly carbonaceous claystone, coaly zone.	0.14	
26.50								
27.00			29.39	29.71	0.32	MEDIUM-GRAINED SILTSTONE.	0.32	
27.50								
28.00			29.71	29.82	0.11	COAL: dull coal to highly carbonaceous claystone, coaly zone.	0.11	
28.50								
29.00			29.82	30.82	>1.00	FINE-GRAINED SANDSTONE.	1.00	
29.50								
30.00			30.82	30.82		End of Trench at 30.82m.		

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: Moosebar, medium grey with sideritic concretions.	1.00	
1.00				1.00	2.00	1.00	SANDSTONE: Moosebar, orange green, round pebbles at contact with dull coal.	1.00
2.00		Bird		2.00	3.91	1.91	COAL: dull.	1.91
4.00				3.91	4.44	0.53	CLAYSTONE: some orange stain, light grey, material is loose, could be slump to south dip.	0.53
4.50		4.44		4.95	0.51	CARBONACEOUS CLAYSTONE: to claystone, alternating between carbonaceous claystone and claystone.	0.51	
5.00			GT-1	4.95	5.99	1.04	COAL: dull.	1.04
6.00				5.99	6.20	0.21	CARBONACEOUS CLAYSTONE: light grey, highly broken.	0.21
6.50			GT-1	6.20	8.26	2.06	COAL: dull.	2.06
7.50								

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00								
8.50			8.26	9.18	0.92	<b>FINE-GRAINED SILTSTONE:</b> light grey, this material is easily broken and loose, so slump/creep could have occurred.	0.92	318/70S
9.00								
9.50								
10.00		QT-2	9.18	11.03	1.85	<b>COAL:</b> dull.	1.85	
10.50								
11.00			11.03	11.5	0.47	<b>CARBONACEOUS CLAYSTONE:</b> to highly carbonaceous claystone.	0.47	
11.50		QT-2	11.50	11.95	0.45	<b>COAL:</b> dull.	0.45	
12.00			11.95	12.06	0.11	<b>CARBONACEOUS CLAYSTONE:</b> dark grey.	0.11	
12.06			12.06	12.26	0.20	<b>COAL:</b> boney.	0.20	
12.26			12.26	12.45	0.19	<b>CARBONACEOUS CLAYSTONE:</b> dark grey.	0.19	
12.50			12.45	14.05	1.60	<b>CLAYSTONE:</b> light grey, coarsening to fine-grained siltstone, massive.	1.60	
13.00								
13.50								
14.00			14.05	14.27	0.22	<b>CLAYSTONE:</b> light grey.	0.22	
14.27			14.27	14.43	0.16	<b>CARBONACEOUS CLAYSTONE:</b> to highly carbonaceous claystone.	0.16	
14.50								
15.00								
15.50								
16.00								



**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50			14.43	18.57	4.14	<b>CLAYSTONE:</b> to fine-grained siltstone to claystone, light grey, massive, contacts are claystone.	4.14	308/82N
18.50				18.57	19.12	0.55	<b>HIGHLY CARBONACEOUS CLAYSTONE:</b> dark grey, mixed with carbonaceous claystone.	0.55
19.00			<b>C2</b>	19.12	19.26	0.14	<b>HIGHLY CARBONACEOUS CLAYSTONE:</b> sheared.	0.14
19.50			19.26	21.26	>2.00	<b>COARSE-GRAINED SILTSTONE:</b> massive, light grey, coarsening to sandstone.	2.00	309/77N
21.00			21.26	21.26		<b>End of Trench at 21.26m.</b>		

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: Moosebar, medium grey with sideritic concretions.	1.00	
1.00			1.00	2.00	1.00	SANDSTONE: Moosebar, green/orange, very soft contact at 314.	1.00	304/85N
2.00			2.00	2.09	0.09	COAL: dull.	0.09	
2.50			2.09	2.39	0.30	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal, very rusty, sheared with a few tiny bands of bright coal.	0.30	
3.00		Bird	2.39	3.26	0.87	COAL: dull, very rusty, sheared.	0.87	
3.50			3.26	3.30	0.04	CLAYSTONE: to carbonaceous claystone, dark grey, parting.	0.04	
		Bird	3.30	3.35	0.05	COAL: dull.	0.05	
			3.35	3.55	0.20	CLAYSTONE: to carbonaceous claystone, dark grey, parting.	0.20	
		Bird	3.55	3.56	0.01	COAL: dull.	0.01	
			3.56	3.66	0.10	CLAYSTONE: to carbonaceous claystone.	0.10	
		Bird	3.66	3.89	0.23	COAL: dull, sheared.	0.23	
			3.89	3.97	0.08	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone.	0.08	
			3.97	4.31	0.34	COAL: dull, sheared.	0.34	
			4.31	4.98	0.67	COAL: dull, sheared, very rusty/ orange stained.	0.67	
			4.98	5.31	0.33	COAL: dull, sheared, not as orange.	0.33	
		Bird	5.31	6.14	0.83	COAL: dull, sheared, very rusty/ orange stained.	0.83	
			6.14	6.31	0.17	COAL: dull, black, sheared.	0.17	
			6.31	6.74	0.43	COAL: dull, sheared, very rusty.	0.43	
			6.74	7.19	0.45	CLAYSTONE: orange stained, parting.	0.45	320/86N
		GT-1	7.19	7.29	0.10	COAL: dull, black, sheared.	0.10	
			7.29	7.45	0.16	HIGHLY CARBONACEOUS CLAYSTONE: sheared, orange stained.	0.16	
		GT-1	7.45	8.11	0.66	COAL: dull, sheared, very rusty orange.	0.66	

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00								
			8.11	8.21	0.10	HIGHLY CARBONACEOUS CLAYSTONE: sheared, orange stained.	0.10	
		GT-1	8.21	8.43	0.22	COAL: dull, black.	0.22	
8.50			8.43	8.50	0.07	CARBONACEOUS CLAYSTONE: brown.	0.07	
			8.50	8.54	0.04	COAL: dull.	0.04	
			8.54	8.71	0.17	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.17	
			8.71	8.94	0.23	CLAYSTONE: soft, muddy, orange stained.	0.23	
9.00								
		GT-2	8.94	9.49	0.55	COAL: dull, black.	0.55	
9.50			9.49	9.66	0.17	CLAYSTONE: to carbonaceous claystone, brown/orange, dark grey.	0.17	
10.00			9.66	10.36	0.70	COAL: dull, harder, orange stained.	0.70	
10.50			10.36	10.76	0.40	COAL: boney, orange stained.	0.40	
		GT-2	10.76	11.09	0.33	COAL: dull, sheared, orange stained, rusty, possible highly carbonaceous claystone.	0.33	
11.00			11.09	12.21	1.12	COAL: dull, black, minor orange stain, less sheared.	1.12	
11.50								
12.00								
12.50								
			12.21	13.73	1.52	FINE-GRAINED SILTSTONE: light grey, orange stained.	1.52	298/57N
13.00								
13.50								
14.00								
		GT-2?	13.73	15.07	1.34	COAL: dull, some shearing, orange stained, width varies - faulted?	1.34	
14.50								
15.00								
			15.07	15.66	0.59	FINE-GRAINED SILTSTONE: dark grey.	0.59	310/50S
15.50			15.66	15.84	0.18	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.18	
16.00								

Roman Mountain - Trenching

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.00			15.84	16.30	0.46	CLAYSTONE.	0.46	
16.50		CT-2	16.30	16.63	0.33	COAL: dull, sheared, black.	0.33	
17.00								
17.50			16.63	18.63	>2.00	COARSE-GRAINED SILTSTONE: massive, blocky, light grey, orange stained, bedding curves around here in a tight anticline. This section of trench 042/13W, difficult to interpret or measure due to bedding changes, (see trench diagram). Coaly material immediately uphill from trench suggests a seam in the hinge of a secondary syncline 014/28W.	2.00	312/50S
18.00								
18.50								
			18.63	18.63		End of Trench at 18.63m.		

Roman Mountain - Trenching

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: Moosebar, medium grey with sideritic concretions.	1.00	
1.00			1.00	2.00	1.00	SANDSTONE: Moosebar, green/orange, no dip indications.	1.00	310/ ?
1.50								
2.00			2.00	2.40	0.40	CLAYSTONE: to carbonaceous claystone, orange stained.	0.40	
2.50								
3.00								
3.50		Bird	2.40	4.21	1.81	COAL: dull.	1.81	
4.00								
4.21			4.21	4.29	0.08	CARBONACEOUS CLAYSTONE.	0.08	
4.29		Bird	4.29	4.41	0.12	COAL: dull.	0.12	
4.41			4.41	4.77	0.36	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone.	0.36	
4.77								
5.00								
5.50								
6.00								
6.50		Bird	4.77	7.88	3.11	COAL: dull.	3.11	
7.00								
7.50								
7.88			7.88	7.90	0.02	HIGHLY CARBONACEOUS CLAYSTONE.	0.02	
8.00								

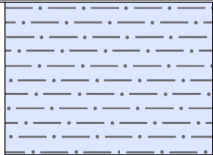
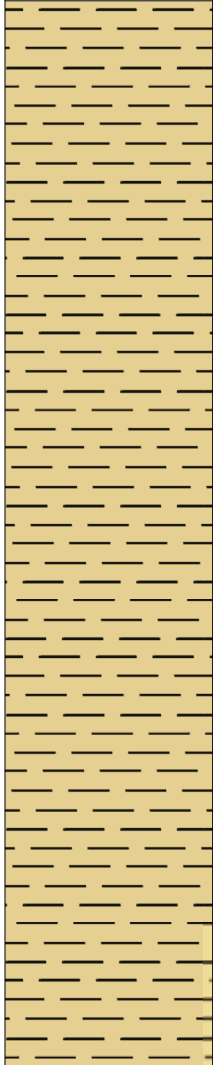

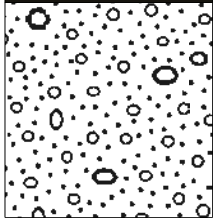
**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00	[Black Lithology]	Bird	7.90	10.24	2.34	COAL: dull.	2.34	
8.50								
9.00	[Black Lithology]	Bird	7.90	10.24	2.34	COAL: dull.	2.34	
9.50								
10.00	[Black Lithology]	Bird	7.90	10.24	2.34	COAL: dull.	2.34	
10.50								
10.24	[Carbonaceous Claystone]		10.24	10.43	0.19	CARBONACEOUS CLAYSTONE: dark grey.	0.19	
10.43	[Claystone]		10.43	11.05	0.62	CLAYSTONE: light grey, slightly broken.	0.62	301/52S
11.00	[Black Lithology]	CT1	11.05	13.64	2.59	COAL: dull.	2.59	
11.50								
12.00	[Black Lithology]	CT1	11.05	13.64	2.59	COAL: dull.	2.59	
12.50								
13.00	[Black Lithology]	CT1	11.05	13.64	2.59	COAL: dull.	2.59	
13.50								
13.64	[Siltstone]		13.64	16.71	3.07	FINE-GRAINED SILTSTONE: light grey, massive.	3.07	
14.00	[Siltstone]		13.64	16.71	3.07	FINE-GRAINED SILTSTONE: light grey, massive.	3.07	
14.50	[Siltstone]		13.64	16.71	3.07	FINE-GRAINED SILTSTONE: light grey, massive.	3.07	
15.00	[Siltstone]		13.64	16.71	3.07	FINE-GRAINED SILTSTONE: light grey, massive.	3.07	
15.50	[Siltstone]		13.64	16.71	3.07	FINE-GRAINED SILTSTONE: light grey, massive.	3.07	
16.00	[Siltstone]		13.64	16.71	3.07	FINE-GRAINED SILTSTONE: light grey, massive.	3.07	

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50								
17.00								
19.00			16.71	21.66	4.95	CLAYSTONE: light grey.	4.95	314/56S
22.00		C7	21.66	22.38	0.72	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone.	0.72	
22.50			22.38	23.38	>1.00	CONGLOMERATE.	1.00	
23.38			23.38	23.38		End of Trench at 23.38m.		

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: light grey.	1.00	320/50S
1.00		E1	1.00	1.74	0.74	COAL: dull.	0.74	
1.50			1.74	1.93	0.19	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal, sheared.	0.19	
2.00		E1	1.93	2.03	0.10	COAL: boney.	0.10	
2.50			2.03	2.33	0.30	COAL: dull	0.30	
2.50		E2	2.33	2.43	0.10	CLAYSTONE: parting.	0.10	320/55S
2.50			2.43	2.56	0.13	COAL: boney.	0.13	
2.50			2.56	2.63	0.07	COAL: dull	0.07	
2.50		E2	2.63	2.70	0.07	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.07	
2.50			2.70	2.86	0.16	COAL: bright to highly carbonaceous claystone.	0.16	
3.00			2.86	3.50	0.64	CLAYSTONE: dark grey.	0.64	
3.50			3.50	3.73	0.23	CLAYSTONE: orange stained.	0.23	
4.00			3.73	3.92	0.19	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone.	0.19	
4.00			3.92	4.06	0.14	COAL: boney.	0.14	
4.50			4.06	5.08	1.02	CLAYSTONE: to carbonaceous claystone, to highly carbonaceous claystone.	1.02	318/ ?
5.00		E3	5.08	5.30	0.22	HIGHLY CARBONACEOUS CLAYSTONE.	0.22	
5.50			5.30	5.71	0.41	CARBONACEOUS CLAYSTONE: to dull coal.	0.41	
6.00			5.71	6.51	0.80	FINE-GRAINED SILTSTONE: light grey.	0.80	
6.50			6.51	6.83	0.32	CLAYSTONE: dark grey, orange stained.	0.32	
7.00			6.83	7.02	0.19	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone, some boney stringers.	0.19	
7.50			7.02	8.00	0.98	CLAYSTONE: dark grey.	0.98	328/58S
8.00								



**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00			8.00	8.23	0.23	<b>HIGHLY CARBONACEOUS CLAYSTONE:</b> to carbonaceous claystone, a few tiny stringers.	0.23	
8.23			8.32	0.09	<b>CARBONACEOUS CLAYSTONE:</b> to claystone, parting.	0.09		
8.32			8.56	0.24	<b>CARBONACEOUS CLAYSTONE:</b> to highly carbonaceous claystone.	0.24		
8.56			8.56	9.56	>1.00	<b>CLAYSTONE:</b> coarsening downward to fine-grained siltstone.	1.00	318/55S
9.56			9.56			<b>End of Trench at 9.56m.</b>		



**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00	[Yellow horizontal line pattern]		0.00	1.00	>1.00	CLAYSTONE: light grey.	1.00	318/64S
1.00		F	1.00	1.49	0.49	COAL: boney.	0.49	
1.50	[Thin yellow and black horizontal lines]		1.49	1.65	0.16	CARBONACEOUS CLAYSTONE.	0.16	
2.00	[Black solid block]	F	1.65	3.02	1.37	COAL: dull, blocky.	1.37	
3.00			3.02	3.16	0.14	HIGHLY CARBONACEOUS CLAYSTONE: orange stained.	0.14	
3.50	[Thin yellow and black horizontal lines]		3.16	3.84	0.68	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.68	
4.00	[Yellow horizontal line pattern]		3.84	7.63	3.79	CLAYSTONE: footwall, light grey, some orange staining.	3.79	312/54S
7.50		Gz	7.63	7.84	0.21	HIGHLY CARBONACEOUS CLAYSTONE.	0.21	
8.00	[Thin yellow and black horizontal lines]		7.84	7.94	0.10	CLAYSTONE: dark grey, orange stained.	0.10	

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			7.94	8.16	0.22	HIGHLY CARBONACEOUS CLAYSTONE.	0.22	
8.50			8.16	9.16	>1.00	CLAYSTONE: light grey.	1.00	
9.00			9.16	9.16		<b>End of Trench at 9.16m.</b>		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: light grey.	1.00	303/58S
1.00		G	1.00	1.29	0.29	COAL: dull.	0.29	
1.25			1.29	1.40	0.11	CARBONACEOUS CLAYSTONE: sheared.	0.11	
1.50								
2.00								
2.50		G	1.40	3.71	2.31	COAL: dull.	2.31	
3.00								
3.50								
3.75			3.71	3.76	0.05	HIGHLY CARBONACEOUS CLAYSTONE: orange stained, lenses.	0.05	
4.00								
4.50		G	3.76	5.10	1.34	COAL: dull.	1.34	
5.00								
5.25			5.10	5.14	0.04	CARBONACEOUS CLAYSTONE: to claystone, orange stained.	0.04	
5.50		G	5.14	5.45	0.31	COAL: dull.	0.31	
5.75			5.45	5.67	0.22	CLAYSTONE: orange stained.	0.22	
6.00								
6.50		F	5.67	6.88	1.21	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal, several discontinuous lenses in between.	1.21	
7.00								
7.50			6.88	8.00	1.12	CARBONACEOUS CLAYSTONE: to claystone, light grey, some orange stain.	1.12	308/62S
8.00								

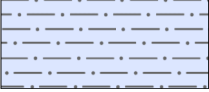
**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00	[Solid black pattern]	[Dotted pattern]	8.00	15.44	7.44	COAL: dull, no visible partings.	7.44	
15.50			15.44	16.44	>1.00	FINE-GRAINED SILTSTONE: dark grey, massive.	1.00	310/58S

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
10.00								
16.50			16.44	16.44		End of Trench at 16.44m.		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: moderately broken, light grey.	1.00	327/40S
1.00			1.00	1.05	0.05	COAL: boney.	0.05	
			1.05	1.30	0.25	COAL: dull, oxidized, iron stained.	0.25	
			1.30	1.37	0.07	COAL: boney.	0.07	
1.50								
2.00								
2.50								
3.00								
3.50			1.37	5.30	3.93	COAL: dull, oxidized.	3.93	
4.00								
4.50								
5.00								
5.50			5.30	5.36	0.06	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone, parting.	0.06	
			5.36	5.46	0.10	COAL: dull, sheared.	0.10	
			5.46	5.56	0.10	CLAYSTONE: dark grey.	0.10	
			5.56	5.63	0.07	HIGHLY CARBONACEOUS CLAYSTONE.	0.07	
6.00			5.63	6.08	0.45	FINE-GRAINED SILTSTONE: orange stained.	0.45	
6.50			6.08	6.45	0.37	HIGHLY CARBONACEOUS CLAYSTONE: to sheared dull coal.	0.37	
			6.45	6.50	0.05	CLAYSTONE.	0.05	
7.00			6.50	7.14	0.64	HIGHLY CARBONACEOUS CLAYSTONE: to sheared dull coal.	0.64	
7.50			7.14	7.31	0.17	COAL: dull.	0.17	
			7.31	7.51	0.20	HIGHLY CARBONACEOUS CLAYSTONE: to sheared dull coal.	0.20	
			7.51	7.58	0.07	CARBONACEOUS CLAYSTONE: orange stained.	0.07	
			7.58	7.75	0.17	HIGHLY CARBONACEOUS CLAYSTONE: to sheared dull coal.	0.17	
			7.75	7.84	0.09	CLAYSTONE: dark grey.	0.09	
8.00			7.84	8.03	0.19	HIGHLY CARBONACEOUS CLAYSTONE.	0.19	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00	[Yellow patterned lithology]		8.03	8.72	0.69	CLAYSTONE: dark grey.	0.69	
8.50			8.72	8.74	0.02	COAL: dull.	0.02	
9.00	[Black lithology]	[Dotted seam pattern]	8.74	9.03	0.29	CLAYSTONE.	0.29	
9.50			9.03	9.52	0.49	COAL: dull.	0.49	
10.00	[Black lithology]	[Dotted seam pattern]	9.52	9.54	0.02	CLAYSTONE.	0.02	
10.50			9.54	12.10	2.56	COAL: dull.	2.56	
11.00	[Black lithology]	[Dotted seam pattern]	12.10	12.16	0.06	COAL: boney.	0.06	
11.50			12.16	12.82	0.66	COAL: dull.	0.66	
12.00	[Black lithology]	[Dotted seam pattern]	12.82	12.92	0.10	COAL: boney.	0.10	
12.50			12.92	13.15	0.23	COAL: dull.	0.23	
13.00	[Black lithology]	[Dotted seam pattern]	13.15	13.29	0.14	COAL: boney.	0.14	
13.50			13.29	17.89	4.60	COAL: dull.	4.60	
14.00	[Black lithology]							
14.50	[Black lithology]							
15.00	[Black lithology]							
15.50	[Black lithology]							
16.00	[Black lithology]							



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50	[Black Lithology]	[Dotted Seam]						
17.00								
17.50	[Black Lithology]	[Dotted Seam]						
18.00								
18.00	[Thin yellow layer]		17.89	18.05	0.16	HIGHLY CARBONACEOUS CLAYSTONE.	0.16	
18.00	[Black Lithology]							
18.00	[Thin yellow layer]	[Dotted Seam]	18.05	18.43	0.38	COAL: dull.	0.38	
18.50	[Yellow Lithology]	[Dotted Seam]						
19.00								
19.50								
19.50			18.43	20.43	>2.00	CLAYSTONE: light grey.	2.00	330/?
20.00								
20.43			20.43	20.43		End of Trench at 20.43m.		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE.	1.00	230/22W
0.50								
1.00			1.00	6.20	5.20	COAL: dull.	6.58	
1.50								
2.00								
2.50								
3.00								
3.50								
4.00								
4.50								
5.00								
5.50								
6.00			6.20	6.25	0.05	CLAYSTONE: parting.	0.06	
6.50								
7.00			6.25	8.27	2.02	COAL: dull.	2.56	
7.50								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00								
8.50			8.27	9.01	0.74	CLAYSTONE: dark grey, orange stained, coarsening down to fine-grained siltstone.	1.02	
9.00			9.01	9.19	0.18	CARBONACEOUS CLAYSTONE.	0.24	
			9.19	9.25	0.06	CLAYSTONE: to highly carbonaceous claystone.	0.08	
			9.25	9.34	0.09	CARBONACEOUS CLAYSTONE.	0.13	
9.50								
10.00			9.34	10.69	1.35	FINE-GRAINED SILTSTONE.	2.11	230/10W
10.50								
11.00								
11.50								
12.00								
12.50								
13.00								
13.50								
14.00								
14.50			10.69	17.96	7.26	COAL: dull.	11.35	
15.00								
15.50								
16.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50								
17.00								
17.50								
18.00								
18.50			17.96	19.96	>2.00	FINE-GRAINED SILTSTONE: orange stained, no bedding measurements possible, flooded.	2.00	
19.00								
19.50			19.96	19.96		End of Trench at 26.76m. Note: trench is very wet with streams running down and was caving in, very little detail possible.		
20.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: light grey, some orange stain.	1.00	276/37N
1.00			1.00	1.12	0.12	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone, sheared.	0.12	
1.50		G	1.12	2.49	1.37	COAL: dull.	1.37	
2.00								
2.50			2.49	2.52	0.03	CLAYSTONE: parting.	0.03	
3.00			2.52	3.81	1.29	COAL: dull.	1.29	
3.50								
4.00			3.81	3.85	0.04	COAL: dull, soft, greenish lens, possible weathered claystone.	0.04	
4.50			3.85	4.21	0.36	COAL: dull.	0.36	
5.00		G	4.21	4.27	0.06	COAL: dull, soft, greenish lens, possible weathered claystone.	0.06	
5.50			4.27	5.35	1.08	COAL: dull.	1.08	
6.00			5.35	5.40	0.05	COAL: dull, soft, greenish lens, possible weathered claystone.	0.05	
6.50			5.40	5.97	0.57	COAL: dull.	0.57	
7.00			5.97	6.05	0.08	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.08	
7.50		G	6.05	6.99	0.94	COAL: dull.	0.94	
8.00			6.99	7.10	0.11	CLAYSTONE: parting, light grey.	0.11	
		G	7.10	8.65	1.55	COAL: dull, 0.2m claystone, oval shaped lenses within.	1.55	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.65			8.65	8.71	0.06	CLAYSTONE: parting.	0.06	
8.71		G	8.71	8.94	0.23	COAL: dull, sheared.	0.23	
8.94			8.94	9.72	0.78	CLAYSTONE: orange stained.	0.78	288/36N
9.72			9.72	9.81	0.09	COAL: dull.	0.09	
9.81			9.81	10.10	0.29	CLAYSTONE: lens, oval shape.	0.29	
10.10		J	10.10	10.86	0.76	COAL: dull.	0.76	
10.86			10.86	11.08	0.22	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone, sheared, lens.	0.22	
11.08			11.08	14.01	2.93	COAL: dull.	2.93	
14.01			14.01	14.14	0.13	COAL: dull, to highly carbonaceous claystone, high ash, heavy.	0.13	
14.14			14.14	16.16	2.02	COAL: dull.	2.02	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.16			16.16	16.24	0.08	CARBONACEOUS CLAYSTONE.	0.08	
16.24			16.24	16.61	0.37	COAL: dull.	0.37	
16.61			16.61	16.90	0.29	CLAYSTONE: dark grey, parting.	0.29	
16.90			16.90	17.00	0.10	COAL: dull.	0.10	
17.00			17.00	17.04	0.04	CLAYSTONE.	0.04	
17.04			17.04	17.09	0.05	COAL: dull.	0.05	
17.09			17.09	17.15	0.06	CLAYSTONE.	0.06	
17.13			17.13	18.15	1.02	COAL: dull.	1.02	
18.15			18.15	18.19	0.04	CLAYSTONE.	0.04	
18.19			18.19	18.47	0.28	COAL: dull.	0.28	
18.47			18.47	18.52	0.05	CLAYSTONE.	0.05	
18.52			18.52	18.74	0.22	COAL: dull.	0.22	
18.74			18.74	19.09	0.35	CLAYSTONE: mixed with dull coal.	0.35	
19.09			19.09	19.71	0.62	CLAYSTONE: to carbonaceous claystone, light grey to dark grey layers.	0.62	
19.71			19.71	19.87	0.16	COAL: dull, sheared.	0.16	
19.87			19.87	20.17	0.30	CLAYSTONE: light grey.	0.30	
20.17			20.17	20.26	0.09	HIGHLY CARBONACEOUS CLAYSTONE.	0.09	
20.26			20.26	20.56	0.30	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone, some orange stained.	0.30	
20.56			20.56	23.97	3.41	CLAYSTONE: to fine-grained siltstone, dark grey, some lenses of carbonaceous claystone to highly carbonaceous claystone, some orange stained. This zone is sheared and folded with variable bedding. Bottom part of this parting is soft and clayey. Shearing parallels upper contact 122/ 86SW.	3.41	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
24.00	[Black Lithology]	[Hatched Seam]	23.97	25.70	1.73	COAL: dull coal with a 0.12m discontinuous lens of claystone and carbonaceous claystone in between. Lower contact 130/78 NE.	1.73	
24.50			25.00	25.70	25.90	0.20	CLAYSTONE: <i>FAULT ZONE</i> . Claystone to carbonaceous claystone, some dull coal in between; extremely sheared.	0.20
25.50	[Yellow Lithology]	[Hatched Seam]	25.90	25.98	0.08	CLAYSTONE: <i>FAULT ZONE</i> . Some orange stained, light grey, very sheared.	0.08	
26.00			25.98	26.12	0.14	CARBONACEOUS CLAYSTONE: <i>FAULT ZONE</i> . Dark grey, parting, very sheared.	0.14	
26.50			26.12	26.95	0.83	CLAYSTONE: <i>FAULT ZONE</i> . Light grey, some orange stained, sheared.	0.83	303/47N
27.00	[Yellow Lithology]	[Hatched Seam]	26.95	26.98	0.03	COAL: dull. <i>FAULT ZONE</i> . This coal seam is folded into a S-shape, a possible fault is here.	0.03	
27.00			26.98	27.18	0.20	CLAYSTONE: <i>FAULT ZONE</i> . Orange stained, sheared.	0.20	302/90
27.00			27.18	27.27	0.09	HIGHLY CARBONACEOUS CLAYSTONE: sheared.	0.09	
27.50			27.27	27.70	0.43	CLAYSTONE: slightly broken, orange stained.	0.43	
28.00			27.70	27.94	0.24	CARBONACEOUS CLAYSTONE: very sheared, folded.	0.24	
28.50	[Yellow Lithology]	[Hatched Seam]	27.94	29.48	1.54	CLAYSTONE: dark grey, orange stained, sheared.	1.54	
29.00			29.48	29.89	0.41	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone, folded and crumpled.	0.41	
29.50			29.89	30.33	0.44	CLAYSTONE: <i>FAULT ZONE</i> . Orange stained, blocky, sheared fault zone 298/82N.	0.44	
30.00			30.33	30.64	0.31	CARBONACEOUS CLAYSTONE.	0.31	311/69N
30.50	[Black Lithology]	[Hatched Seam]						
31.00	[Black Lithology]	[Hatched Seam]						
31.50	[Black Lithology]	[Hatched Seam]						
32.00	[Black Lithology]	[Hatched Seam]						



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)								
32.00	[Redacted]	[Redacted]														
32.50																
33.00																
33.50																
34.00																
34.50																
35.00																
35.50																
36.00																
36.50																
37.00										JF2	30.64	43.26	12.62	COAL: dull, pretty clean, the seam is sheared in several places, the lower 3 to 4 m seems to have higher ash, trench is flooding.	12.62	
37.50																
38.00																
38.50																
39.00																
39.50																
40.00																

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
40.00	[Solid black pattern]	[Dotted pattern]						
40.50								
41.00	[Solid black pattern]	[Dotted pattern]						
41.50								
42.00	[Solid black pattern]	[Dotted pattern]						
42.50								
43.00	[Solid black pattern]	[Dotted pattern]						
43.50								
44.00	[Horizontal dashed line pattern]							
44.50								
45.00	[Horizontal dashed line pattern]							
45.50								
46.00	[Horizontal dashed line pattern]							
46.50								
47.00	[Horizontal dashed line pattern]		43.26	50.66	7.40	FINE-GRAINED SILTSTONE: trench was extended to K seams at this point (Oct 2), fold/fault at lower contact to this unit.	7.40	308/74N
47.50								
48.00	[Horizontal dashed line pattern]							

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
48.50	[Blue dotted pattern]							
49.00								
49.50								
50.00								
50.50								
50.66	[Diagonal hatched pattern]		50.66	50.76	0.10	FAULT.	0.10	
51.00	[Yellow horizontal line pattern]							
51.50								
52.00								
52.50								
53.00			50.76	55.26	4.50	CLAYSTONE: well bedded.	4.50	304/70S
53.50								
54.00								
54.50								
55.00								
55.26	[Black solid pattern]		55.26	56.15	0.89	COAL: dull.	0.89	
55.50								
56.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
56.00								
56.15			56.15	56.30	0.15	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone, sheared.	0.15	
56.30			56.30	57.85	1.55	FINE-GRAINED SANDSTONE: massive, light brown.	1.55	304/66N
57.85								
58.00								
58.00		K2	57.85	58.85	1.00	COAL: dull, some discontinuous carbonaceous claystone lenses.	1.00	
58.85			58.85	59.14	0.29	CLAYSTONE: coarsening downwards.	0.29	
59.14			59.14	65.14	6.00	MEDIUM-GRAINED SANDSTONE: massive, some orange staining, heavier stain in lower 3m, fining downwards last 0.8m to claystone at contact with K3.	6.00	
65.14								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
64.00	[Yellow dotted pattern]								
64.50									
65.00	[Black solid]								
65.14									
		K3	65.14	65.27	0.13	COAL: dull.	0.13		
			65.27	65.34	0.07	CLAYSTONE: light grey.	0.07		
65.50	[Black solid]								
65.34									
		K4	65.34	65.76	0.42	COAL: dull.	0.42		
66.00	[Yellow horizontal lines]								
65.76									
			65.76	66.08	0.32	CLAYSTONE: light grey.	0.32		
66.50	[Black solid]								
66.08									
		K3	66.08	66.61	0.53	COAL: dull.	0.53		
67.00	[Yellow horizontal lines]								
66.61									
				66.61	66.86	0.25	CARBONACEOUS CLAYSTONE.	0.25	
66.86				66.86	66.90	0.04	COAL: dull.	0.04	
			66.90	67.03	0.13	CLAYSTONE.	0.13		
67.50	[Yellow dotted pattern]								
68.00									
68.50									
69.00									
69.50									
70.00									
70.50									
71.00									
71.50									
72.00									

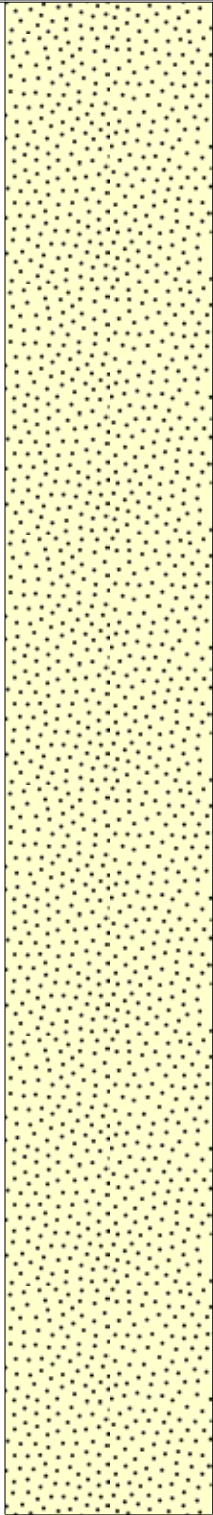
**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
72.00									
72.50									
73.00									
73.50									
74.00									
74.50									
75.00									
75.50									
76.00									
76.50									
77.00				67.03	87.03	>20.00	MEDIUM-GRAINED SANDSTONE: massive.	20.00	308/73N
77.50									
78.00									
78.50									
79.00									
79.50									
80.00									

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
80.00									
80.50									
81.00									
81.50									
82.00									
82.50									
83.00									
83.50									
84.00									
84.50									
85.00									
85.50									
86.00									
86.50									
87.00				87.03	87.03		End of Trench at 87.03m.		

**Roman Mountain - Trenching**

Coordinates are for the bottom of F seam, at ground surface elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	CLAYSTONE: orange stained, blocky.	1.00	320/54N
0.50								
1.00			1.00	1.33	0.33	COAL: dull.	0.33	
1.50			1.33	1.62	0.29	CLAYSTONE: some orange stain, seems to be discontinuous, slightly broken.	0.29	
1.62			1.62	1.75	0.13	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal.	0.13	
2.00			1.75	3.22	1.47	CLAYSTONE: very strong orange stain.	1.47	324/84S
2.50			3.22	3.29	0.07	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal, sheared.	0.07	
3.00			3.29	3.50	0.21	CLAYSTONE: <i>FAULT ZONE</i> . Very broken, faulted, seems to be thinning in the west end and thickening in the east end.	0.21	315/90
3.50			3.50	4.35	0.85	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone to claystone, may have some dull coal, no detail due to flooding.	0.85	
4.00								
4.50			4.35	5.35	>1.00	FINE-GRAINED SILTSTONE: blocky, orange stained.	1.00	300/72S
5.00								
5.35			5.35	5.35		End of Trench at 5.35m.		



**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: under the massive blocky sandstone cliff.	1.00	300/62N
1.00								
1.50		E1	1.00	2.01	1.01	COAL: dull, slightly sheared.	1.01	
2.00			2.01	2.17	0.16	COAL: boney.	0.16	
2.50			2.17	2.50	0.33	COAL: dull, sheared.	0.33	
2.50			2.50	2.57	0.07	COAL: stony.	0.07	
2.57			2.57	2.65	0.08	CLAYSTONE: thrust faulted.	0.08	
2.65		E1	2.65	2.75	0.10	COAL: stony.	0.10	
2.75			2.75	2.86	0.11	COAL: dull, sheared.	0.11	
3.00			2.86	2.98	0.12	CLAYSTONE.	0.12	
3.00			2.98	3.06	0.08	COAL: boney.	0.08	
3.00			3.06	3.30	0.24	CLAYSTONE.	0.24	
3.50		GZ	3.30	3.55	0.25	COAL: dull, sheared.	0.25	
4.00			3.55	4.10	0.55	CLAYSTONE.	0.55	
4.50		E2	4.10	4.57	0.47	COAL: dull.	0.47	
5.00			4.57	5.59	1.02	FINE-GRAINED SILTSTONE: massive, blocky.	1.02	
5.50			5.59	5.66	0.07	COAL: dull, sheared.	0.07	
6.00			5.66	5.93	0.27	CLAYSTONE: friable.	0.27	
6.50		E3	5.93	6.38	0.45	COAL: dull.	0.45	
6.50			6.38	6.47	0.09	CARBONACEOUS CLAYSTONE.	0.09	
6.50			6.47	6.73	0.26	CLAYSTONE: orange stained, sheared.	0.26	
6.50			6.73	6.80	0.07	HIGHLY CARBONACEOUS CLAYSTONE.	0.07	
7.00			6.80	8.95	2.15	CLAYSTONE: coarsening down to fine-grained siltstone.	2.15	
7.50								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of E1 seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00								
8.50								
9.00		G7	8.95	9.10	0.15	HIGHLY CARBONACEOUS CLAYSTONE: coaly zone.	0.15	
9.50			9.10	10.10	>1.00	FINE-GRAINED SILTSTONE: massive, blocky, coarsening to fine-grained sandstone.	1.00	
10.00			10.10	10.10		End of Trench at 10.10m.		

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	0.55	0.55	<b>CARBONACEOUS CLAYSTONE:</b> sheared parallel to bedding; this zone thins rapidly to the SW in the trench wall. Trench floor at NE end is roughly parallel to bedding.	0.55	020/22°SE
0.50			0.55	0.81	0.26	<b>CLAYSTONE:</b> medium grey, sheared, crumbly.	0.26	
1.00			0.81	2.81	2.00	<b>FINE-GRAINED SANDSTONE:</b> massive, somewhat oxidized.	2.00	
1.50			2.81	3.55	0.74	<b>FINE-GRAINED SANDSTONE:</b> medium grey, silty, bedded, some thin laminae, slightly oxidized.	0.74	155/11°SW
2.00			3.55	4.21	0.66	<b>FINE-GRAINED SANDSTONE:</b> orange-brown, massive, oxidized, some cross-bedding.	0.66	
2.50			4.21	4.51	0.30	<b>CLAYSTONE:</b> medium grey, nodular.	0.30	
3.00			4.51	5.15	0.64	<b>CLAYSTONE:</b> medium grey, as above with carbonaceous shear planes every 5-20cm.	0.64	
3.50			5.15	7.45	2.30	<b>CLAYSTONE: FAULT ZONE.</b> NE contact very irregular. Mostly sheared, contorted, nodular claystone. Shearing 320/75°SW.	2.30	
4.00			7.45	8.33	0.88	<b>CLAYSTONE:</b> shear zone, no bedding indications. Shearing 310/80°SW.	0.88	

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.33	CLAYSTONE		8.33	9.14	0.81	CLAYSTONE: medium brown, somewhat silty, a few nodules, slightly sheared.	0.81	
9.14			9.14	9.91	0.77	CLAYSTONE: <i>FAULT ZONE</i> . Secondary fault. Orientation 310/90°.	0.77	
9.91	MEDIUM-GRAINED SILTSTONE		9.91	11.21	1.30	MEDIUM-GRAINED SILTSTONE: medium grey, a few laminae, somewhat oxidized, somewhat sheared.	1.30	298/86°N
11.21	CLAYSTONE		11.21	11.76	0.55	CLAYSTONE: <i>FAULT ZONE</i> . Secondary fault. Orientation 317/90°.	0.55	
11.76	FINE-GRAINED SILTSTONE		11.76	16.16	4.40	FINE-GRAINED SILTSTONE: medium grey, somewhat oxidized, fairly massive.	4.40	312/90°

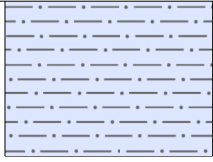
**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50	[Yellow patterned lithology]		16.16	20.26	4.10	CLAYSTONE: medium brown, grades down to light grey, massive.	4.10	
17.00								
17.50	[Yellow patterned lithology]		16.16	20.26	4.10	CLAYSTONE: medium brown, grades down to light grey, massive.	4.10	
18.00								
18.50	[Yellow patterned lithology]		16.16	20.26	4.10	CLAYSTONE: medium brown, grades down to light grey, massive.	4.10	
19.00								
19.50	[Yellow patterned lithology]		16.16	20.26	4.10	CLAYSTONE: medium brown, grades down to light grey, massive.	4.10	
20.00								
20.50	[Black lithology]	F	20.26	22.25	1.99	COAL: dull.	1.99	
21.00								
21.50	[Black lithology]	F	20.26	22.25	1.99	COAL: dull.	1.99	
22.00								
22.25	[Yellow patterned lithology]		22.25	22.45	0.20	CLAYSTONE: to carbonaceous claystone to highly carbonaceous claystone.	0.20	
22.50	[Black lithology]	F	22.45	22.72	0.27	COAL: dull.	0.27	
23.00	[Blue patterned lithology]		22.72	24.72	>2.00	FINE-GRAINED SILTSTONE: orange stained, blocky.	2.00	300/87°N
23.50								
24.00	[Blue patterned lithology]		22.72	24.72	>2.00	FINE-GRAINED SILTSTONE: orange stained, blocky.	2.00	300/87°N

**Roman Mountain - Trenching**

Coordinates are for the top of F seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
24.00								
24.50			24.72	24.72		<b>End of Trench at 24.72m.</b> This trench is in permafrost, very hard, and somewhat wet, few details possible.		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE.	1.00	300/70N
1.00								
1.50								
2.00								
2.50								
3.00								
3.50								
4.00								
4.50								
4.50			4.24	4.56	0.32	FINE-GRAINED SILTSTONE: light grey.	0.32	
4.50			4.56	4.80	0.24	HIGHLY CARBONACEOUS CLAYSTONE: to dull coal, sheared.	0.24	
5.00								
5.50			4.80	6.12	1.32	COAL: dull, slightly sheared at the bottom.	1.32	
6.00								
6.00			6.12	6.18	0.06	CARBONACEOUS CLAYSTONE: to claystone, discontinuous lenses, one oval shaped fine-grained siltstone lens is up to 0.35 m in diameter.	0.06	
6.00			6.18	6.34	0.16	COAL: dull, sheared and dirty, possible fault zone.	0.16	
6.50								
7.00			6.34	7.61	1.27	CLAYSTONE.	1.27	
7.50								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00	[Solid black lithology]	[Dotted seam pattern]	7.61	14.71	7.10	COAL: dull with some discontinuous, weathered, and orange stained lenses of dull coal, (up to 10cm in upper 2.35 m).	7.10	
8.50								
9.00								
9.50								
10.00								
10.50								
11.00								
11.50								
12.00								
12.50								
13.00								
13.50	[Horizontal dashed lithology]	[Dotted seam pattern]	14.71	14.75	0.04	CLAYSTONE: parting.	0.04	
14.00								
14.50								
14.75	[Horizontal dashed lithology]	[Dotted seam pattern]	14.75	14.83	0.08	COAL: dull.	0.08	
15.00								
15.50	[Horizontal dashed lithology]	[Dotted seam pattern]						
16.00								



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
16.50	[Hatched Lithology]								
17.00									
17.50									
18.00									
18.50									
19.00									
19.50									
19.50				14.83	24.48	9.65	CLAYSTONE: coarsening downward to fine-grained siltstone.	9.65	312/76N
20.00									
20.50									
21.00									
21.50									
22.00									
22.50									
23.00									
23.50									
24.00									

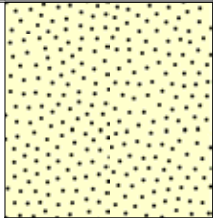



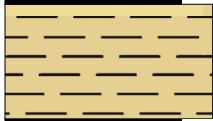

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
24.00								
24.50								
25.00		K1	24.48	25.56	1.08	COAL: dull.	1.08	
25.50								
			25.56	25.75	0.19	CARBONACEOUS CLAYSTONE.	0.19	
26.00								
26.50			25.75	27.03	1.28	FINE-GRAINED SILTSTONE: coarsening downward to fine-grained sandstone.	1.28	313/68N
27.00								
27.50		K2	27.03	27.92	0.89	COAL: dull.	0.89	
28.00								
28.50			27.92	28.92	>1.00	FINE-GRAINED SANDSTONE.	1.00	
28.92			28.92	28.92		End of Trench at 28.92m.		

**Roman Mountain - Trenching**

Coordinates are for the top (HW) of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	MEDIUM-GRAINED SANDSTONE: orange stained, moosebar. NOTE: outcrop was scraped with shovel to expose contacts, then points surveyed.	1.00	300/70S
1.00								
2.50		BIRD	1.00	3.82	2.82	COAL: dull.	2.82	
4.00			3.82	4.28	0.46	FINE-GRAINED SILTSTONE: parting.	0.46	
4.50								
5.50		BIRD	4.28	6.44	2.16	COAL: dull.	2.16	
6.50			6.44	6.97	0.53	CLAYSTONE: parting.	0.53	
7.00								



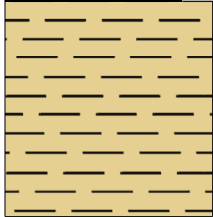
**Roman Mountain - Trenching**

Coordinates are for the top (HW) of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.50	[Black Lithology]	BIRD	6.97	11.67	4.70	COAL: dull.	4.70	
9.50								
12.00	[Yellow Lithology]		11.67	13.97	2.30	CLAYSTONE: interseam.	2.30	
13.00								
14.00	[Black Lithology]	GT-1	13.97	17.73	3.76	COAL: dull.	3.76	
15.00								

**Roman Mountain - Trenching**

Coordinates are for the top (HW) of Bird seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50								
17.50								
18.00			17.73	18.73	>1.00	CLAYSTONE.	1.00	
18.50			18.73	18.73				
						<b>End of Trench at 18.73m.</b>		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	CLAYSTONE: light grey, well bedded.	1.00	316/48N
1.00		G	1.00	1.54	0.54	COAL: dull.	0.54	
1.50			1.54	1.64	0.10	CLAYSTONE: parting.	0.10	
2.00		G	1.64	2.14	0.50	COAL: dull.	0.50	
2.50			2.14	2.59	0.45	HIGHLY CARBONACEOUS CLAYSTONE: heavily oxidized zone, soft greyish layers with black streak, possibly dull coal.	0.45	
3.00								
3.50								
4.00								
4.50		G	2.59	5.89	3.30	COAL: dull.	3.30	
5.00								
5.50								
6.00			5.89	5.95	0.06	CLAYSTONE: parting.	0.06	
6.50		G	5.95	6.93	0.98	COAL: dull.	0.98	
7.00								
7.50			6.93	8.18	1.25	CLAYSTONE: interseam.	1.25	306/62N
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00								
8.50								
9.00								
9.50								
10.00								
10.50								
11.00								
11.13			8.18	11.13	2.95	COAL: dull.	2.95	
11.18			11.13	11.18	0.05	CLAYSTONE: parting.	0.05	
11.48			11.18	11.48	0.30	COAL: dull.	0.30	
11.51			11.48	11.51	0.03	CLAYSTONE: parting.	0.03	
12.00								
12.50								
13.00								
13.50								
14.00								
14.50								
15.00								
15.50								
16.00								
			11.51	15.81	4.30	COAL: dull.	4.30	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50	[Dotted pattern]		15.81	19.66	3.85	COARSE-GRAINED SILTSTONE: to fine-grained sandstone, massive, light grey, bedding not visible.	3.85	
17.00								
17.50								
18.00								
18.50	[Horizontal line pattern]		19.66	21.89	2.23	CLAYSTONE: light grey, orange stained, becoming friable.	2.23	304/73N
19.00								
19.50								
20.00								
21.00	[Horizontal line pattern]		21.89	21.97	0.08	CARBONACEOUS CLAYSTONE: to highly carbonaceous claystone, black to dark grey.	0.08	
22.00								
22.50	[Horizontal line pattern]		21.97	22.70	0.73	CLAYSTONE: high orange staining, some shearing, friable.	0.73	
23.00								
23.50	[Horizontal line pattern]		22.70	23.24	0.54	CLAYSTONE: <i>FAULT</i> . Dark to medium grey very sheared, soft, friable, fault zone.	0.54	285/40N
24.00								



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
24.00	[Yellow hatched lithology]								
24.50									
25.00									
25.50	[Yellow hatched lithology]								
26.00			23.24	29.04	5.80	<b>CLAYSTONE:</b> drag fold. Orange stained - this is an anti-cline; dips vary from 40N to 62S. Note: Assume stratigraphy from middle of fold onwards is reversal of the section measured above it.	5.80	320/62S	
26.50									
27.00									
27.50									
28.00									
28.50									
29.00									
29.50		[Black lithology]	<b>C2</b>	29.04	29.54	0.50	<b>COAL:</b> dull. Coaly zone, difficult to see clearly due to trench flooding. Probably a repetition of fault zone above.	0.50	
30.00		[Yellow hatched lithology]		29.54	30.54	>1.00	<b>CLAYSTONE:</b> orange stained.	1.00	
30.50			30.54	30.54		<b>End of Trench at 30.54m.</b>			

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	<b>MEDIUM-GRAINED SANDSTONE:</b> orange stained, massive, fining downwards.	1.00	
1.00			1.00	2.00	1.00	<b>CLAYSTONE:</b> dark grey, well bedded, hanging wall to G seam.	1.00	304/69N
2.00			2.00	7.40	5.40	<b>COAL:</b> dull. No visible partings.	5.40	
7.50								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.50			7.40	9.76	2.36	<b>FINE-GRAINED SILTSTONE:</b> to medium grey claystone.	2.36	
10.00			9.76	10.06	0.30	<b>CARBONACEOUS CLAYSTONE:</b> mixed with highly carbonaceous claystone and dull coal, muddy zone hanging wall to J seam.	0.30	
13.00			10.06	16.36	6.30	<b>COAL:</b> dull. No visible partings.	6.30	
15.50								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50			16.36	16.64	0.28	CLAYSTONE: parting, soft and broken.	0.28	
17.00		J	16.64	17.20	0.56	COAL: dull.	0.56	
17.20			17.20	17.26	0.06	CLAYSTONE: parting.	0.06	
17.26		J	17.26	17.44	0.18	COAL: dull.	0.18	
17.50			17.44	17.94	0.50	CLAYSTONE: <i>FAULT ZONE</i> . Sheared/folded (see photo), orientation - parallel to bedding.	0.50	
18.00								
18.50								
19.00								
19.50								
20.00								
20.50								
21.00								
21.50								
22.00		JH1	17.94	25.56	7.62	COAL: dull. J repeat.	7.62	
22.50								
23.00								
23.50								
24.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
24.00								
24.50								
25.00								
25.50								
26.00								
26.50								
27.00								
27.50								
28.00								
28.50								
29.00								
29.50								
30.00								
30.50								
31.00								
31.50								
32.00								
			25.56	34.94	9.38	CLAYSTONE: orange stained, 4m are underwater, possible fault in gully.	9.38	

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)	
32.00	[Yellow hatched pattern]								
32.50									
33.00									
33.50									
34.00									
34.50									
35.00									
35.50			K1	34.94	36.12	1.18	COAL: dull.	1.18	
36.00									
36.50				36.12	36.40	0.28	CLAYSTONE.	0.28	
			36.40	36.44	0.04	COAL: dull.	0.04		
37.00			36.44	37.54	1.10	CLAYSTONE.	1.10		
37.50									
38.00		K2	37.54	38.46	0.92	COAL: dull.	0.92		
38.50									
39.00	[Yellow hatched pattern]								
39.50									
40.00									

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
40.00								
40.50			38.46	42.93	4.47	CLAYSTONE.	4.47	
41.00								
41.50								
42.00								
42.50								
43.00		K2	42.93	43.13	0.20	COAL: dull.	0.20	
43.13			43.13	43.17	0.04	CLAYSTONE: parting.	0.04	
43.50		K2	43.17	43.87	0.70	COAL: dull.	0.70	
44.00			43.87	44.05	0.18	CLAYSTONE: parting.	0.18	
44.50		K2	44.05	44.95	0.90	COAL: dull.	0.90	
45.00			44.95	45.95	>1.00	MEDIUM-GRAINED SANDSTONE: footwall, massive.	1.00	312/80N
45.95			45.95	45.95		End of Trench at 45.95m.		

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00								
0.50			0.00	1.00	>1.00	<b>FINE-GRAINED SANDSTONE:</b> fining downwards.	1.00	
1.00			1.00	2.00	1.00	<b>CLAYSTONE:</b> hanging wall to G seam.	1.00	
1.50								
2.00								
2.50								
3.00								
3.50								
4.00								
4.50								
5.00								
5.50								
6.00								
6.50								
7.00								
7.50			7.26	7.56	0.30	<b>FINE-GRAINED SILTSTONE:</b> parting, sharp contacts.	0.30	280/68N
						<b>COAL:</b> dull. Mixed with highly carbonaceous claystone and carbonaceous claystone lenses and small partings.		
8.00			7.56	8.40	0.84		0.84	



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.00								
8.50								
9.00			8.40	9.23	0.83	CLAYSTONE: dark grey, finer and softer at contacts with I and J seams.	0.83	
9.50								
10.00								
10.50								
11.00								
11.50								
12.00								
12.50								
13.00								
13.50			9.23	17.93	8.70	COAL: dull. Flooded and frozen trench, appears good solid coal with no visible partings.	8.70	
14.00								
14.50								
15.00								
15.50								
16.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.50								
17.00								
17.50								
18.00								
18.50								
19.00								
19.50								
20.00								
20.50								
21.00								
21.50								
22.00								
22.50								
23.00			17.93	27.93	10.00	CLAYSTONE: variable bedding: 300/44N, 314/40 N, 344/28E, 352/22E, 022/20E, 040/18S, folded into anticline.	10.00	variable
23.50								
24.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
24.00								
24.50								
25.00								
25.50								
26.00								
26.50								
27.00								
27.50								
28.00								
28.50								
29.00								
29.50								
30.00								
30.50			27.93	32.83	4.90	COAL: dull. No visible partings, good coal, appears quite flat lying.	4.90	
31.00								
31.50								
32.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
32.00								
32.50								
33.00			32.83	33.43	0.60	<b>CARBONACEOUS CLAYSTONE:</b> to claystone – mixed zone of discontinuous claystone partings and carbonaceous claystone; shear zone?	0.60	300/80S
33.50								
34.00								
34.50								
35.00								
35.50								
36.00			33.43	38.33	4.90	<b>COAL:</b> dull. With occasional discontinuous 1-2cm highly carbonaceous claystone and claystone partings/lenses (sheared flakes).	4.90	
36.50								
37.00								
37.50								
38.00								
38.33			38.33	38.40	0.07	<b>CLAYSTONE:</b> parting.	0.07	
38.40			38.40	38.60	0.20	<b>COAL:</b> dull.	0.20	
38.60			38.60	38.70	0.10	<b>CLAYSTONE:</b> parting, variable thickness; shear zone?	0.10	
38.70			38.70	38.85	0.15	<b>HIGHLY CARBONACEOUS CLAYSTONE:</b> sheared flakes.	0.15	
39.00								
39.50								
40.00								

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
40.00	[Black Lithology]	[Dotted Seam]	38.85	42.85	4.00	COAL: dull. No visible partings, good coal.	4.00	
40.50								
41.00	[Black Lithology]	[Dotted Seam]	38.85	42.85	4.00	COAL: dull. No visible partings, good coal.	4.00	
41.50								
42.00	[Black Lithology]	[Dotted Seam]	38.85	42.85	4.00	COAL: dull. No visible partings, good coal.	4.00	
42.50								
43.00	[Yellow Lithology]	[Dotted Seam]	42.85	42.89	0.04	CLAYSTONE: light grey.	0.04	
43.00	[Yellow Lithology]	[Dotted Seam]	42.89	43.02	0.13	COAL: dull.	0.13	
43.00	[Yellow Lithology]	[Dotted Seam]	43.02	43.24	0.22	CLAYSTONE: light grey, crumbly, soft.	0.22	
43.50	[Black Lithology]	[Dotted Seam]	43.24	43.94	0.70	COAL: dull.	0.70	
44.00	[Yellow Lithology]	[Dotted Seam]	43.94	44.16	0.22	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone, dark grey, sheared.	0.22	
44.50	[Yellow Lithology]	[Dotted Seam]	44.16	44.76	0.60	CLAYSTONE: light grey.	0.60	
45.00	[Black Lithology]	[Dotted Seam]	44.76	44.91	0.15	HIGHLY CARBONACEOUS CLAYSTONE: to carbonaceous claystone, dark grey, sheared; possible syncline hinge?	0.15	305/90
45.50	[Black Lithology]	[Dotted Seam]						
46.00	[Black Lithology]	[Dotted Seam]						
46.50	[Black Lithology]	[Dotted Seam]						
47.00	[Black Lithology]	[Dotted Seam]						
47.50	[Black Lithology]	[Dotted Seam]						
48.00	[Black Lithology]	[Dotted Seam]						

**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)		
48.50										
49.00										
49.50										
50.00										
50.50										
51.00										
51.50										
52.00										
52.50										
53.00										
53.50										
54.00										
54.50										
55.00										
55.50										
56.00										
					44.91	57.61	12.70	COAL: dull. No major partings, a few zones of shear, possibly highly carbonaceous claystone.	12.70	

Roman Mountain - Trenching

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
57.61			57.61	57.93	0.32	CLAYSTONE: medium grey, parting, coaly laminae, sharp contacts.	0.32	307/65N
57.93			57.93	61.63	3.70	COAL: dull. No visible partings, good coal. Note: J repeat may represent the bottom of a syncline of folded J coal.	3.70	

**Roman Mountain - Trenching**

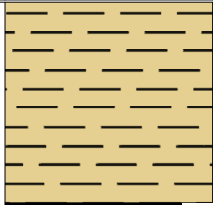


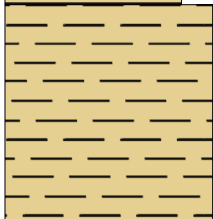
Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
64.00								
64.50								
65.00								
65.50								
66.00								
66.50								
67.00								
67.50								
68.00								
68.50								
69.00								
69.50								
70.00								
70.50								
71.00								
71.50								
72.00								
			61.63	72.93	11.30	<b>CLAYSTONE:</b> claystone at contacts, orange stained medium-grained siltstone in centre, fining upwards and downwards.	11.30	307/75N



**Roman Mountain - Trenching**

Coordinates are for the top of G seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
72.00								
72.50								
73.00				72.93	74.33	1.40	1.40	
73.50								
74.00								
74.33				74.33	74.43	0.10	0.10	CARBONACEOUS CLAYSTONE.
74.43				74.43	75.43	>1.00	1.00	
75.00								
75.43				75.43				End of Trench at 75.43m.

**Roman Mountain - Trenching**

Coordinates are for the top of L seam, at trench floor elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	1.00	>1.00	<b>MEDIUM-GRAINED SANDSTONE:</b> to coarse-grained sandstone, massive, light grey to light brown with a few pebbles up to 1mm diameter. Folded downwards from normal local dip.	1.00	309/36N
1.00				1.00	4.35	3.35	<b>HIGHLY CARBONACEOUS CLAYSTONE: FAULT ZONE.</b> to dull coal, highly sheared and folded, mixed with claystone partings. Appears thickened by drag folding.	3.35
4.35				4.35	5.35	>1.00	<b>MEDIUM-GRAINED SANDSTONE:</b> to coarse-grained sandstone, massive, light grey to light brown with a few pebbles up to 1cm diameter. Drag folded, possibly overturned.	1.00
5.35			5.35	5.35		<b>End of Trench at 5.35m.</b>		

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at surface elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
0.00			0.00	5.00	>5.00	<p><b>CLAYSTONE:</b> medium grey, Moosebar Formation Shale; massive with prominent brick-red concretionary beds 0.1-0.2m thick on 1-2m intervals.</p> <p><b>Note:</b> Outcrop was scraped with shovel to expose contacts, then points surveyed.</p>	5.00	128/63°SW
2.50								
5.00			5.00	6.48	1.48	<p><b>MEDIUM-GRAINED SANDSTONE:</b> greenish-grey, glauconitic, somewhat oxidized.</p>	1.48	124/58°SW
5.50								
6.50			6.48	8.61	2.13	<p><b>COAL:</b> dull. Top, Bird seam, sharp contact.</p>	2.13	
7.50								
8.00								

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at surface elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
8.61			8.61	8.87	0.26	HIGHLY CARBONACEOUS CLAYSTONE: sheared and soft.	0.26	
8.87			8.87	9.41	0.54	COAL: dull.	0.54	
9.41			9.41	11.23	1.82	COAL: very sheared and soft, polished.	1.82	
11.23		Bird	11.23	12.73	1.50	COAL: dull. Somewhat sheared.	1.50	
12.73			12.73	12.93	0.20	COAL: dull. Hard, high-ash? Footwall zone of Bird seam.	0.20	
12.93			12.93	13.78	0.85	CLAYSTONE: dark grey, slightly carbonaceous; grades to medium grey medium-grained siltstone with depth.	0.85	
13.78			13.78	15.18	1.40	FINE-GRAINED SANDSTONE: medium grey, very fine grained, massive.	1.40	144/58°SW
15.18			15.18	15.36	0.18	FINE-GRAINED SILTSTONE: dark grey, grades downward to claystone, contact zone.	0.18	
15.36			15.36	16.20	0.84	COAL: dull. Top, GT-1 seam, some dull/banded.	0.84	

**Roman Mountain - Trenching**

Coordinates are for the top of Bird seam, at surface elevation, with post-processed differential GPS.

Depth (m)	Lithology	Seam	From (m)	To (m)	True Thickness (m)	Description	Measured Thickness (m)	BCN (°)
16.20		QT-1	16.20	16.51	0.31	COAL: dull. Sheared.	0.31	
16.51		QT-1	16.51	17.71	1.20	COAL: dull. Somewhat sheared, footwall contact fairly sharp.	1.20	
17.71			17.71	18.91	1.20	CLAYSTONE: medium grey, occasional carbonaceous inclusions.	1.20	133/68°SW
18.91			18.91	22.91	4.00	CLAYSTONE: medium grey, massive, somewhat oxidized.	4.00	
22.91			22.91	22.91		<b>End of Trench at 22.91m.</b>		

Y = results back  
No sample taken

Simulated Product  
Coke Test Sample

Coal Seam - North Limb  
Coal Seam - South Limb

Instruction Ref

DRILL HOLE NUMBER	Core Size	SEAM	Results Back	S.G.	Simulated Product ID	Composite Instruction Sheet(s)	Composite Sample ID	SAMPLE ID	DRILL INTERVAL		LENGTH DRILLED (M)	CORE Recov'd (M)	COAL SEAM REC' (%)	SAMPLE REC. (%)	SAMPLE DESCRIPTION (Seam ID)	
									FROM (M)	TO (M)						
BSTR-2006-1	6"							000026	27.17	27.27	0.10	0.10		100	F Roof sample	
		F						000027	27.27	28.01	0.74	0.74	79.0%	100	F1	
		F						000028	28.01	29.65	1.64	1.14		70	F2	
								000029	29.65	29.75	0.10	0.10		100	F Floor sample	
BSTR-2006-2	6"							000030	30.57	30.67	0.10	0.10		100	F Roof sample	
		F					BSTR06-F-A	000031	30.67	31.16	0.49	0.29	92.5%	59	F1	
		F	Y		06-F-A-Clean	RR2006-1,16,17	BSTR06-F-A	000032	31.16	32.40	1.24	1.24		100	F2	
		F					BSTR06-F-A	000033	32.40	33.34	0.94	0.94		100	F3	
							000034	33.34	33.44	0.10	0.10		100	F Floor sample		
BSTR-2006-3	6"							000035	42.32	42.42	0.10	0.10		100	E1 Roof sample - probably sloughed material	
		E1						No sample	42.42	42.77	0.35	0.00	87.0%	0	Coal loss	
		E1						BSTR06-E1-A	000036	42.77	43.48	0.71	0.71		100	E1
		E1						BSTR06-E1-A	000037	43.48	43.69	0.21	0.21		100	E2
		E1	Y		06-E1-A-Clean	RR2006-2,16,19	BSTR06-E1-A	000038	43.69	44.29	0.60	0.60		100	E3	
		E1					BSTR06-E1-A	000039	44.29	44.55	0.26	0.26		100	E4	
		E1					BSTR06-E1-A	000040	44.55	45.11	0.56	0.56		100	E5	
									000041	45.11	45.21	0.10	0.10		100	E1 Floor sample
									000042	45.21	45.75	0.54	0.54		100	E1-E2 Parting
									000043	45.75	45.85	0.10	0.10		100	E2 Roof sample
				E2					BSTR06-E2-A	000044	45.85	46.38	0.53	0.53	100.0%	100
		E2					BSTR06-E2-A	000045	46.38	46.72	0.34	0.34		100	E7	
		E2	Y			RR2006-3, 18	BSTR06-E2-A	000046	46.72	46.96	0.24	0.24		100	E8	
		E2					BSTR06-E2-A	000047	46.96	47.18	0.22	0.22		100	E9	
		E2					BSTR06-E2-A	000048	47.18	47.39	0.21	0.21		100	E10	
								000049	47.39	47.49	0.10	0.10		100	E2 Floor sample	
		E3	Y			RR2006-4	BSTR06-E3-A	000050	50.40	50.91	0.51	0.51	100.0%	100	E11	
BSTR-2006-4	6"							000051	38.61	38.69	0.08	0.08		100	E1 HW sample	
		E1					BSTR06-E1-A2	000052	38.69	39.71	1.02	1.02	100.0%	100	E coal sample 1	
		E1					BSTR06-E1-A2	000053	39.71	39.99	0.28	0.28		100	E coal sample 2	
		E1	Y		Coke Test	RR2006-30	BSTR06-E1-A2	000054	39.99	40.45	0.46	0.46		100	E coal sample 3	
		E1					BSTR06-E1-A2	000055	40.45	40.60	0.15	0.15		100	E1 parting sample 1	
		E1					BSTR06-E1-A2	000056	40.60	41.28	0.68	0.68		100	E coal sample 4	
									000057	41.28	41.37	0.09	0.09		100	E1 FW sample
									000058	41.37	42.21	0.84	0.84		100	E1/E2 interseam sample
									000059	42.21	42.31	0.10	0.10		100	10cm E2 HW sample
		E2						000060	42.31	42.52	0.21	0.21	100.0%	100	E coal sample 5	
		E2						000061	42.52	43.22	0.70	0.70		100	E coal sample 6	
		E2						000062	43.22	43.37	0.15	0.15		100	E coal sample 7	
		E2						000063	43.37	43.75	0.38	0.38		100	E coal sample 8	
								000064	43.75	43.85	0.10	0.10		100	10cm E2 FW sample	

Y = results back  
No sample taken

Simulated Product  
Coke Test Sample

Coal Seam - North Limb  
Coal Seam - South Limb

Instruction Ref

DRILL HOLE NUMBER	Core Size	SEAM	Results Back	S.G.	Simulated Product ID	Composite Instruction Sheet(s)	Composite Sample ID	SAMPLE ID	DRILL INTERVAL		LENGTH DRILLED (M)	CORE Recov'd (M)	COAL SEAM REC' (%)	SAMPLE REC. (%)	SAMPLE DESCRIPTION (Seam ID)
									FROM (M)	TO (M)					
BSTR-2006-5	6"							000065	44.30	44.40	0.10	0.10		100	10cm CZ HW sample
		CZ						000066	44.40	44.90	0.50	0.50	100.0%	100	CZ coal sample
								000067	44.90	45.00	0.10	0.10		100	10cm CZ FW sample
								000068	48.39	48.49	0.10	0.10		100	10cm D2 HW sample
		D2					BSTR06-D2-A2	000069	48.49	48.90	0.41	0.41	100.0%	100	D2 coal sample 1
		D2					BSTR06-D2-A2	000070	48.90	48.98	0.08	0.08		100	D2 parting sample
		D2	Y				BSTR06-D2-A2	000071	48.98	50.55	1.57	1.57		100	D2 coal sample 2
		D2					BSTR06-D2-A2	000072	50.55	51.38	0.83	0.83		100	D2 parting 2 sample
		D2			Coke Test	RR2006-29	BSTR06-D2-A2	000073	51.38	51.99	0.61	0.61		100	D2 coal sample 3
		D2					BSTR06-D2-A2	000074	51.99	53.69	1.70	1.70		100	D2 coal sample 4
		D2					BSTR06-D2-A2	000075	53.69	53.85	0.16	0.16		100	HCC 1 sample
		D2					BSTR06-D2-A2	000076	53.85	53.95	0.10	0.10		100	D2 parting 3 sample
		D2					BSTR06-D2-A2	000077	53.95	54.79	0.84	0.84		100	HCC 2 sample
								000078	54.79	54.89	0.10	0.10		100	10cm D2 FW sample
								000079	31.27	31.37	0.10	0.10		100	D1 HW sample
BSTR-2006-6	6"	D1					BSTR06-D1-A	000080	31.37	31.70	0.33	0.33	100.0%	100	D1 coal sample 1
		D1	Y			RR2006-5,18	BSTR06-D1-A	000081	31.70	32.05	0.35	0.35		100	D1 parting sample
		D1					BSTR06-D1-A	000082	32.05	33.10	1.05	1.05		100	D1 coal sample 2
								000083	33.10	33.20	0.10	0.10		100	D1 FW sample
								000084	41.16	41.26	0.10	0.10		100	D2 HW sample
		D2					BSTR06-D2-A	000085	41.26	41.79	0.53	0.53	96.2%	100	D2 coal sample 1
		D2					BSTR06-D2-A	000086	41.79	42.02	0.23	0.23		100	D2 parting 1 sample
		D2					BSTR06-D2-A	000087	42.02	43.01	0.99	0.99		100	D2 coal sample 2
		D2					BSTR06-D2-A	000088	43.01	44.41	1.40	1.40		100	D2 coal sample 3
		D2	Y		06-D2-A-Clean	RR2006-6,16,20	BSTR06-D2-A	No sample	44.41	44.58	0.17	0.00		0	Coal loss
		D2					BSTR06-D2-A	000089	44.58	45.06	0.48	0.48		100	D2 coal sample 4
		D2					BSTR06-D2-A	000090	45.06	45.26	0.20	0.20		100	D2 parting 2 sample
		D2					BSTR06-D2-A	000091	45.26	45.56	0.30	0.30		100	D2 parting 3 sample
		D2					BSTR06-D2-A	000092	45.56	45.74	0.18	0.18		100	D2 coal sample 5
								000093	45.74	45.84	0.10	0.10		100	D2 FW sample
BSTR-2006-7	6"							000094	23.90	24.00	0.10	0.10		100	D2 HW sample
		D2						000095	24.00	24.40	0.40	0.40	100.0%	100	D2 coal sample 1
		D2						000096	24.40	24.49	0.09	0.09		100	D2 parting 1 sample
		D2						000097	24.49	25.84	1.35	1.35		100	D2 coal sample 2
		D2						000098	25.84	26.58	0.74	0.74		100	D2 coal sample 3
		D2						000099	26.58	26.64	0.06	0.06		100	D2 parting 2 sample
		D2						000100	26.64	28.42	1.78	1.78		100	D2 coal sample 4
		D2						000101	28.42	28.82	0.40	0.40		100	D2 sheared sample
		D2						000102	28.82	29.66	0.84	0.84		100	D2 coal sample 5
								000103	29.66	29.76	0.10	0.10		100	D2 FW sample

Y = results back  
No sample taken

Simulated Product  
Coke Test Sample

Coal Seam - North Limb  
Coal Seam - South Limb

Instruction Ref

DRILL HOLE NUMBER	Core Size	SEAM	Results Back	S.G.	Simulated Product ID	Composite Instruction Sheet(s)	Composite Sample ID	SAMPLE ID	DRILL INTERVAL		LENGTH DRILLED (M)	CORE Recov'd (M)	COAL SEAM REC' (%)	SAMPLE REC. (%)	SAMPLE DESCRIPTION (Seam ID)		
									FROM (M)	TO (M)							
BSTR-2006-8	6"	D1	Y			RR2006-7,18	BSTR06-D1-B	000104	22.07	23.26	1.19	1.19	100.0%	100	D1 coal sample 1		
									000105	23.26	23.67	0.41	0.41		100	D1 coal sample 2	
										000106	23.67	23.77	0.10	0.10		100	D1 FW sample
										000107	33.25	33.35	0.10	0.10		100	D2 HW sample
			D2						BSTR06-D2-B	000108	33.35	33.80	0.45	0.45	98.7%	100	D2 coal sample 1
			D2						BSTR06-D2-B	000109	33.80	33.92	0.12	0.07		58	D2 parting 1 sample
			D2						BSTR06-D2-B	000110	33.92	35.32	1.40	1.40		100	D2 coal sample 2
			D2	Y			06-D2-B-Clean	RR2006-8,16,21	BSTR06-D2-B	000111	35.32	36.24	0.92	0.92		100	D2 coal sample 3
			D2						BSTR06-D2-B	000112	36.24	36.75	0.51	0.51		100	D2 coal sample 4
			D2						BSTR06-D2-B	000113	36.75	37.22	0.47	0.47		100	D2 coal sample 5
										000114	37.22	37.32	0.10	0.10		100	D2 FW sample
		BSTR-2006-9	6"	E1					BSTR06-E1-B	000115	28.97	30.00	1.03	1.03	100.0%	100	E1 coal sample 1
											000116	30.00	30.30	0.30	0.30		100
					E1	Y			06-E1-B-Clean	RR2006-9,16,22	BSTR06-E1-B	000117	30.30	30.82	0.52	0.52	
	E1								BSTR06-E1-B	000118	30.82	31.32	0.50	0.50		100	E1 coal sample 4
										000119	31.32	31.76	0.44	0.44		100	E parting 1 sample
	E2			Y				RR2006-10,18	BSTR06-E2-B	000120	31.76	31.96	0.20	0.20	100.0%	100	E coal sample 5
	E2							RR2006-10,18	BSTR06-E2-B	000121	31.96	32.95	0.99	0.99		100	E coal sample 6
										000122	32.95	33.05	0.10	0.10		100	E2 FW sample
	E3			Y				RR2006-11	BSTR06-E3-B	000123	35.88	36.57	0.69	0.69	100.0%	100	E3 sample
										000124	27.35	27.45	0.10	0.10		100	E1 HW sample
BSTR-2006-10	6"	E1						000125	27.45	28.99	1.54	1.54	100.0%	100	E1 coal sample 1		
									000126	28.99	29.14	0.15	0.15		100	E1 coal sample 2	
			E1						000127	29.14	29.68	0.54	0.54		100	E1 coal sample 3	
										000128	29.68	29.84	0.16	0.16		100	E1/E2 parting sample
			E2						000129	29.84	30.22	0.38	0.38	97.4%	100	E coal sample 4	
			E2						000130	30.22	30.42	0.20	0.20		100	HCC sample	
			E2						000131	30.42	30.93	0.51	0.45		88	E parting 2 sample	
			E2						000132	30.93	31.49	0.56	0.56		100	E coal sample 5	
			E2						000133	31.49	31.72	0.23	0.23		100	E coal sample 6	
			E2						000134	31.72	32.14	0.42	0.42		100	E coal sample 7	
BSTR-2006-11	6"							000135	32.14	32.24	0.10	0.10		100	E2 FW sample		
								000136	39.20	39.30	0.10	0.10		100	F HW sample		
			F						000137	39.30	39.64	0.34	0.34	100.0%	100	F coal sample 1	
			F						000138	39.64	39.85	0.21	0.21		100	F coal sample 2	
			F						000139	39.85	41.69	1.84	1.84		100	F coal sample 3	
			F						000140	41.69	42.04	0.35	0.35		100	F coal sample 4	
			F						000141	42.04	43.04	1.00	1.00		100	F coal sample 5	
							000142	43.04	43.14	0.10	0.10		100	F FW sample			



Y = results back  
No sample taken

Simulated Product  
Coke Test Sample

Coal Seam - North Limb  
Coal Seam - South Limb

Instruction Ref

DRILL HOLE NUMBER	Core Size	SEAM	Results Back	S.G.	Simulated Product ID	Composite Instruction Sheet(s)	Composite Sample ID	SAMPLE ID	DRILL INTERVAL		LENGTH DRILLED (M)	CORE Recov'd (M)	COAL SEAM REC' (%)	SAMPLE REC. (%)	SAMPLE DESCRIPTION (Seam ID)
									FROM (M)	TO (M)					
BSTR-2006-12	6"	F					BSTR06-F-B	000143	35.77	36.15	0.38	0.38	100.0%	100	F bone sample
		F					BSTR06-F-B	000144	36.15	36.95	0.80	0.80		100	F coal sample 1
		F	Y		06-F-B-Clean	RR2006-12,16,23	BSTR06-F-B	000145	36.95	38.49	1.54	1.54		100	F coal sample 2
		F					BSTR06-F-B	000146	38.49	39.38	0.89	0.89		100	F coal sample 3
								000147	39.38	39.48	0.10	0.10		100	F FW sample
BSTR-2006-13	6"							000148	31.38	31.48	0.10	0.10		100	F HW sample
		F					BSTR06-F-A2	000149	31.48	32.03	0.55	0.48	94.2%	87	F coal sample 1
		F					BSTR06-F-A2	000150	32.03	32.77	0.74	0.74		100	F coal sample 2
		F	Y		Coke Test	RR2006-31	BSTR06-F-A2	000151	32.77	34.59	1.82	1.68		92	F coal sample 3
		F					BSTR06-F-A2	000152	34.59	35.09	0.50	0.50		100	F coal sample 4
								000153	35.09	35.19	0.10	0.10		100	F FW sample
BSTR-2006-14	9"							000154	51.55	51.65	0.10	0.10		100	G HW sample
		G					BSTR06-G-A9	000155	51.65	52.24	0.59	0.59	100.0%	100	G coal sample 1
		G					BSTR06-G-A9	000156	52.24	52.74	0.50	0.50		100	G coal sample 2
		G	Y				BSTR06-G-A9	000157	52.74	53.14	0.40	0.40		100	G coal sample 3
		G					BSTR06-G-A9	000158	53.14	53.60	0.46	0.46		100	G coal sample 4
		G					BSTR06-G-A9	000159	53.60	54.10	0.50	0.50		100	G coal sample 5
		G			Coke Test	RR2006-27	BSTR06-G-A9	000160	54.10	54.67	0.57	0.57		100	G coal sample 6
		G					BSTR06-G-A9	000161	54.67	55.27	0.60	0.60		100	G coal sample 7
		G					BSTR06-G-A9	000162	55.27	55.83	0.56	0.56		100	G coal sample 8
		G					BSTR06-G-A9	000163	55.83	56.39	0.56	0.56		100	G coal sample 9
		G					BSTR06-G-A9	000164	56.39	56.97	0.58	0.58		100	G coal sample 10
								000165	56.97	57.18	0.21	0.21		100	G parting sample 1
		I						000166	57.18	57.38	0.20	0.20	10.1%	100	G coal sample 11 (actually I seam)
		I						No sample	57.38	59.16	1.78	0.00		0	Coal loss
								000167	59.16	59.69	0.53	0.53		100	G FW sample
								000168	65.55	65.65	0.10	0.10		100	J HW sample
		J						000169	65.65	66.42	0.77	0.77	47.6%	100	J coal sample 1
		J						000170	66.42	67.19	0.77	0.77		100	J coal sample 2
		J						000171	67.19	67.41	0.22	0.22		100	J coal sample 3
		J						No sample	67.41	70.95	3.54	0.00		0	Coal loss
		J						000172	70.95	71.69	0.74	0.74		100	J coal sample 4
		J						000173	71.69	72.11	0.42	0.42		100	J parting sample 1
		J						000174	72.11	72.40	0.29	0.29		100	J coal sample 5
BSTR-2006-15	6"	G						No sample	22.48	23.07	0.59	0.00	50.2%	0	Coal loss
		G						000175	23.07	23.84	0.77	0.77		100	G HW sample
		G						000176	23.84	24.21	0.37	0.37		100	G coal sample 1
		G							24.21	24.80	0.59	0.00		0	Coal loss
		G						000176	24.80	25.73	0.93	0.93		100	G coal sample 1 cont.
		G						No sample	25.73	26.60	0.87	0.00		0	Coal loss
								000177	26.60	26.70	0.10	0.10		100	G FW sample

Y = results back  
No sample taken

Simulated Product  
Coke Test Sample

Coal Seam - North Limb  
Coal Seam - South Limb

Instruction Ref

DRILL HOLE NUMBER	Core Size	SEAM	Results Back	S.G.	Simulated Product ID	Composite Instruction Sheet(s)	Composite Sample ID	SAMPLE ID	DRILL INTERVAL		LENGTH DRILLED (M)	CORE Recov'd (M)	COAL SEAM REC' (%)	SAMPLE REC. (%)	SAMPLE DESCRIPTION (Seam ID)
									FROM (M)	TO (M)					
								000178	29.42	29.52	0.10	0.10		100	HCC sample
									29.52	30.29	0.77	0.00		0	Rock and coal loss
		J						000178	30.29	31.45	1.16	1.16	49.9%	100	HCC sample cont.
		J						No sample	31.45	33.33	1.88	0.00		0	Coal loss
		J						000179	33.33	34.72	1.39	1.39		100	J coal sample 1
		J						No sample	34.72	36.37	1.65	0.00		0	Coal loss
		J						000180	36.37	36.96	0.59	0.59		100	J coal sample 2
		J						No sample	36.96	39.32	2.36	0.00		0	Coal loss
		J						000181	39.32	40.02	0.70	0.70		100	J coal sample 3
		J						000182	40.02	40.93	0.91	0.91		100	J coal sample 4
		J						000183	40.93	42.04	1.11	1.11		100	J coal sample 5
		J						No sample	42.04	42.45	0.41	0.00		0	Coal loss
		J						000184	42.45	42.86	0.41	0.41		100	J coal sample 6
		J						000185	42.86	42.96	0.10	0.10		100	J FW sample
BSTR-2006-16	6"	G						No sample	31.75	32.58	0.83	0.00	62.8%	0	Coal loss
		G						000186	32.58	32.88	0.30	0.30		100	G HW sample
		G						000187	32.88	33.73	0.85	0.85		100	G coal sample 1
		G						000188	33.73	34.35	0.62	0.62		100	G coal sample 2
		G						No sample	34.35	34.57	0.22	0.00		0	Coal loss
								000189	34.57	34.91	0.34	0.34		100	G HCC sample
								000190	37.23	37.33	0.10	0.10		100	J HW sample
		J						000191	37.33	38.40	1.07	1.07	58.3%	100	J coal sample 1
		J						No sample	38.40	40.36	1.96	0.00		0	Coal loss
		J					BSTR06-J-B	000192	40.36	40.86	0.50	0.50		100	J coal sample 2
		J					BSTR06-J-B		40.86	41.50	0.64	0.00		0	Coal loss
		J					BSTR06-J-B	000192	41.50	42.45	0.95	0.95		100	J coal sample 2 cont.
		J					BSTR06-J-B	000193	42.45	43.57	1.12	1.12		100	J coal sample 3
							BSTR06-J-B	000194	43.57	43.67	0.10	0.10		100	J FW sample
							BSTR06-J-B	000195	46.93	47.03	0.10	0.10		100	J2 HW sample
		J2	Y		06-J-B-Clean	RR2006-13,16,24	BSTR06-J-B	000196	47.03	47.50	0.47	0.47	47.8%	100	J2 coal sample 1
		J2					BSTR06-J-B	No sample	47.50	47.68	0.18	0.00		0	Coal loss
		J2					BSTR06-J-B	000197	47.68	48.49	0.81	0.81		100	J2 coal sample 2
		J2					BSTR06-J-B	000198	48.49	49.30	0.81	0.81		100	J2 coal sample 3
		J2					BSTR06-J-B		49.30	49.81	0.51	0.00		0	Coal loss
		J2					BSTR06-J-B	000198	49.81	50.48	0.67	0.67		100	J2 coal sample 3 cont.
		J2					BSTR06-J-B		50.48	53.16	2.68	0.00		0	Coal loss
		J2					BSTR06-J-B	000198	53.16	53.48	0.32	0.32		100	J2 coal sample 3 cont.
								000199	53.48	53.58	0.10	0.10		100	J2 FW sample

Y = results back  
No sample taken

Simulated Product  
Coke Test Sample

Coal Seam - North Limb  
Coal Seam - South Limb

Instruction Ref

DRILL HOLE NUMBER	Core Size	SEAM	Results Back	S.G.	Simulated Product ID	Composite Instruction Sheet(s)	Composite Sample ID	SAMPLE ID	DRILL INTERVAL		LENGTH DRILLED (M)	CORE Recov'd (M)	COAL SEAM REC' (%)	SAMPLE REC. (%)	SAMPLE DESCRIPTION (Seam ID)
									FROM (M)	TO (M)					
BSTR-2006-17	6"	G						No sample	24.45	25.26	0.81	0.00	55.8%	0	Coal loss
		G					BSTR06-G-A	000200	25.26	25.50	0.24	0.24		100	G coal sample 1
		G					BSTR06-G-A	000201	25.50	25.97	0.47	0.47		100	G coal sample 2
		G					BSTR06-G-A		25.97	26.39	0.42	0.00		0	Coal loss
		G	Y		06-G-A-Clean	RR2006-14,16,25	BSTR06-G-A	000201	26.39	26.74	0.35	0.35		100	G coal sample 2 cont.
		G					BSTR06-G-A	000202	26.74	27.49	0.75	0.75		100	G coal sample 3
		G					BSTR06-G-A		27.49	28.15	0.66	0.00		0	Coal loss
		G					BSTR06-G-A	000202	28.15	28.73	0.58	0.58		100	G coal sample 3 cont.
								000203	28.73	29.87	1.14	0.89		78	G parting sample
								000204	31.76	31.86	0.10	0.10		100	J HW sample
		J						000205	31.86	32.56	0.70	0.70	78.3%	100	J coal sample 1
		J							32.56	33.18	0.62	0.00		0	Coal loss
		J						000205	33.18	33.28	0.10	0.10		100	J coal sample 1 cont.
		J						No sample	33.28	33.73	0.45	0.00		0	Coal loss
		J						000206	33.73	35.41	1.68	1.68		100	J coal sample 2
		J						No sample	35.41	35.84	0.43	0.00		0	Coal loss
		J						000207	35.84	37.54	1.70	1.70		100	J coal sample 3
		J						No sample	37.54	38.11	0.57	0.00		0	Coal loss
		J						000208	38.11	39.37	1.26	1.26		100	J coal sample 4
		J						000209	39.37	41.40	2.03	2.03		100	J coal sample 5
								000210	41.40	41.50	0.10	0.10		100	J FW sample
BSTR-2006-18	9"							000211	27.22	27.32	0.10	0.10		100	G HW sample
		G						No sample	27.32	28.11	0.79	0.00	50.9%	0	Coal loss
		G						000212	28.11	28.61	0.50	0.50		100	G coal sample 1
		G						000213	28.61	29.31	0.70	0.70		100	G coal sample 2
		G						000214	29.31	29.88	0.57	0.57		100	G coal sample 3
		G						No sample	29.88	30.80	0.92	0.00		0	Coal loss
								000215	30.80	30.90	0.10	0.10		100	G parting sample 1
		I						No sample	30.90	31.05	0.15	0.00	66.7%	0	Coal loss
		I						000216	31.05	31.35	0.30	0.30		100	G coal sample 4
								000217	31.35	31.75	0.40	0.40		100	G parting sample 2 (J HW)
		J					BSTR06-J-A9	000218	31.75	32.25	0.50	0.50	94.2%	100	G coal sample 5 (actually J seam)
		J					BSTR06-J-A9	000219	32.25	32.92	0.67	0.67		100	G coal sample 6 (actually J seam)
		J					BSTR06-J-A9	No sample	32.92	33.04	0.12	0.00		0	Coal loss
		J					BSTR06-J-A9	000220	33.04	33.77	0.73	0.73		100	J coal sample 1
		J					BSTR06-J-A9	000221	33.77	34.50	0.73	0.73		100	J coal sample 2
		J					BSTR06-J-A9	000222	34.50	35.23	0.73	0.73		100	J coal sample 3
		J					BSTR06-J-A9	000223	35.23	35.96	0.73	0.73		100	J coal sample 4
		J	Y				BSTR06-J-A9	No sample	35.96	36.13	0.17	0.00		0	Coal loss
		J					BSTR06-J-A9	000224	36.13	36.85	0.72	0.72		100	J coal sample 5
		J			Coke Test	RR2006-28	BSTR06-J-A9	000225	36.85	37.57	0.72	0.72		100	J coal sample 6

Y = results back  
No sample taken

Simulated Product  
Coke Test Sample

Coal Seam - North Limb  
Coal Seam - South Limb

Instruction Ref

DRILL HOLE NUMBER	Core Size	SEAM	Results Back	S.G.	Simulated Product ID	Composite Instruction Sheet(s)	Composite Sample ID	SAMPLE ID	DRILL INTERVAL		LENGTH DRILLED (M)	CORE Recov'd (M)	COAL SEAM REC' (%)	SAMPLE REC. (%)	SAMPLE DESCRIPTION (Seam ID)
									FROM (M)	TO (M)					
		J					BSTR06-J-A9	000226	37.57	38.29	0.72	0.72		100	J coal sample 7
		J					BSTR06-J-A9	000227	38.29	39.00	0.71	0.71		100	J coal sample 8
		J					BSTR06-J-A9	No sample	39.00	39.10	0.10	0.00		0	Coal loss
		J					BSTR06-J-A9	000228	39.10	39.69	0.59	0.59		100	J coal sample 9
		J					BSTR06-J-A9	000229	39.69	40.28	0.59	0.59		100	J coal sample 10
		J					BSTR06-J-A9	000230	40.28	40.87	0.59	0.59		100	J coal sample 11
		J					BSTR06-J-A9	000231	40.87	41.46	0.59	0.59		100	J coal sample 12
		J					BSTR06-J-A9	000232	41.46	42.04	0.58	0.58		100	J coal sample 13
		J					BSTR06-J-A9	No sample	42.04	42.28	0.24	0.00		0	Coal loss
		J					BSTR06-J-A9	000233	42.28	42.68	0.40	0.40		100	J coal sample 14
								000234	42.68	42.78	0.10	0.10		100	J FW sample
BSTR-2006-19	6"							000235	27.85	27.95	0.10	0.10		100	G HW sample
		G					BSTR06-G-A	000236	27.95	28.56	0.61	0.61	46.5%	100	G coal sample 1
		G					BSTR06-G-A	No sample	28.56	28.59	0.03	0.00		0	Rock loss
		G	Y		06-G-A-Clean	RR2006-14,16,25	BSTR06-G-A	No sample	28.59	30.46	1.87	0.00		0	Coal loss
		G					BSTR06-G-A	000237	30.46	31.50	1.04	1.04		100	G coal sample 2
								000328	31.50	31.60	0.10	0.10		100	G parting sample
								000239	33.19	33.29	0.10	0.10		100	J HW sample
		J					BSTR06-J-A	000240	33.29	34.15	0.86	0.86	89.1%	100	J coal sample 1
		J					BSTR06-J-A	000241	34.15	34.69	0.54	0.27		50	J coal sample 2
		J					BSTR06-J-A	000242	34.69	36.00	1.31	1.31		100	J coal sample 3
		J					BSTR06-J-A	No sample	36.00	36.28	0.28	0.00		0	Coal loss
		J					BSTR06-J-A	000243	36.28	37.52	1.24	1.24		100	J coal sample 4
		J					BSTR06-J-A	000244	37.52	38.85	1.33	1.33		100	J coal sample 5
		J					BSTR06-J-A	No sample	38.85	38.98	0.13	0.00		0	Coal loss
		J	Y		06-J-A-Clean	RR2006-15,16,26	BSTR06-J-A	000245	38.98	40.44	1.46	1.46		100	J coal sample 6
		J					BSTR06-J-A	No sample	40.44	40.47	0.03	0.00		0	Coal loss
		J					BSTR06-J-A	000246	40.47	41.96	1.49	1.49		100	J coal sample 7
		J					BSTR06-J-A	No sample	41.96	42.28	0.32	0.00		0	Coal loss
		J					BSTR06-J-A	000247	42.28	43.48	1.20	1.20		100	J coal sample 8
		J					BSTR06-J-A	No sample	43.48	43.76	0.28	0.00		0	Coal loss
		J					BSTR06-J-A	000248	43.48	44.78	1.30	1.30		100	J coal sample 9
		J					BSTR06-J-A	000249	44.78	45.05	0.27	0.27		100	J coal sample 10
								000250	45.05	45.15	0.10	0.10		100	J FW sample

Appendices F & G contain coal quality data and remain confidential under the terms of the *Coal Act Regulation*, Section 2(1). They have been removed from the public version.

[http://www.bclaws.ca/EPLibraries/bclaws\\_new/document/ID/freeide/10\\_251\\_2004#section2](http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeide/10_251_2004#section2)

# 2006 ROMAN MOUNTAIN BULK SAMPLE LABORATORY FLOWSHEET

## Short Washability Tests

<b>Instruction Sheet</b>	<b>Seam</b>	<b>Composite ID</b>
RR2006-1	F	BSTR06-F-A
RR2006-2	E1	BSTR06-E1-A
RR2006-6	D2	BSTR06-D2-A
RR2006-8	D2	BSTR06-D2-B
RR2006-9	E1	BSTR06-E1-B
RR2006-12	F	BSTR06-F-B
RR2006-13	J1/J2	BSTR06-J-B
RR2006-14	G	BSTR06-G-A
RR2006-15	J	BSTR06-J-A

Screen each composite sample into the following size fractions. Do proximate analysis and FSI on each fraction.

**19 mm x 3 mm**  
**3 mm x 0.6 mm**  
**0.6 mm x 0.15 mm**  
**0.15 mm x 0**

Do float sink tests on 19 mm x 3 mm, 3 mm x 0.6 mm, and 0.6 mm x 0.15 mm size fractions. Analyse for ash and FSI.

Do froth flotation on 0.15 mm x 0 size fraction. Analyse for ash and FSI. Use 60 sec. and 120 sec. times.

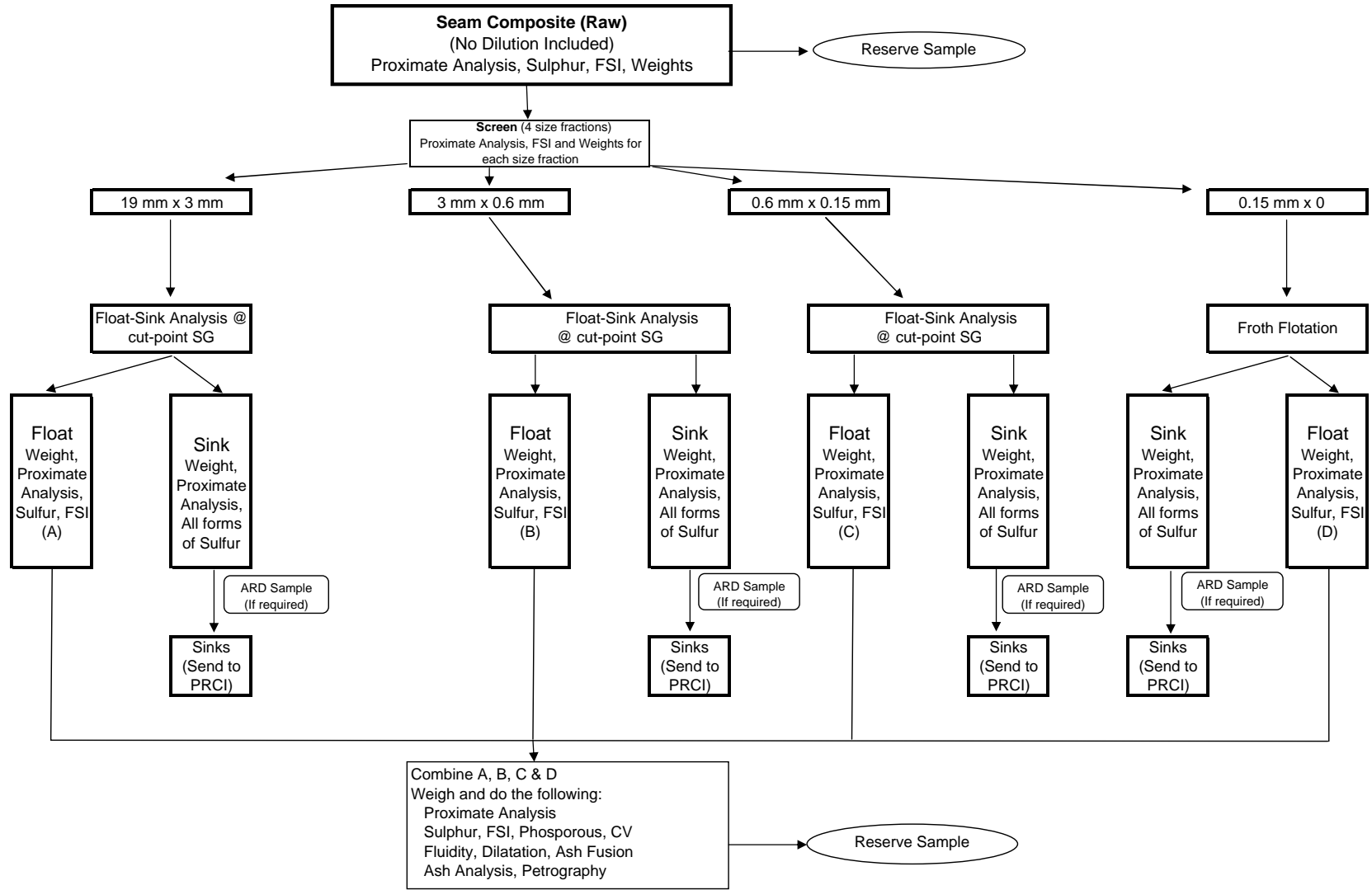
Use the following gravity separations for the Float-Sink tests.

**-1.30**  
**1.30-1.40**  
**1.40-1.45**  
**1.45-1.50**  
**1.50-1.55**  
**1.55-1.60**  
**1.60-1.70**  
**1.70-1.80**  
**1.80-1.90**  
**+1.90**

### 6" Hole Compositing Notes, G and J seams, for Short Wash Testing

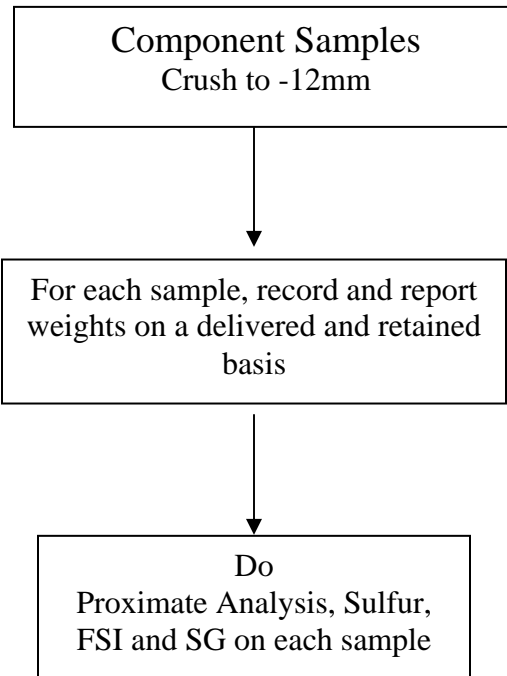
- 1) All D, E and F hole composite samples are from individual drillholes with complete or near-complete core recoveries.
- 2) Inadequate recoveries from 6" holes on G and J seams, Holes 15, 16, 17 and 19 precluded single-hole composites in most cases.
- 3) Good recovery from J seam in BSTR-2006-19 permitted a single-hole composite for this seam. Hole BSTR-2006-17 provided poorer recovery on this limb, so was not composited for short wash tests.
- 4) To get a reasonably complete section of G seam on the northeast limb, the G seam sections of holes BSTR-2006-17 and 19 were combined. This represents a maximum seam intersection of 4.3m length. Total core recovered was 4.0m of which ~50cm (12.5%) represented sample overlap. Estimated net loss of section was ~0.8m, so ~3.5m was recovered out of 4.3m for a net seam recovery of approximately 81%.
- 5) To get a reasonably complete section on J seam on the southwest limb, the two J seam sections recovered from BSTR-2006-16 were combined. This represents a maximum seam intersection of 6.1m length. Total core recovered was 5.3m of which ~0.3m (5.0%) represented sample overlap. Estimated net loss of section was ~1.3m, so ~4.8m was recovered out of 6.1m for a net seam recovery of approximately 79%.
- 6) No adequately complete section is available from G seam on the southwest limb. Lost sections for holes 15 and 16 tend to overlap rather than cancel out, so neither a single-hole nor a two-hole composite were prepared for G seam from this area.

**2006 Roman Mountain Exploration Program**  
**Bulk Sample Core (6 & 9 in ø) Laboratory Analysis Flowsheet**  
**Seam Composites (>75 % Recovery)**

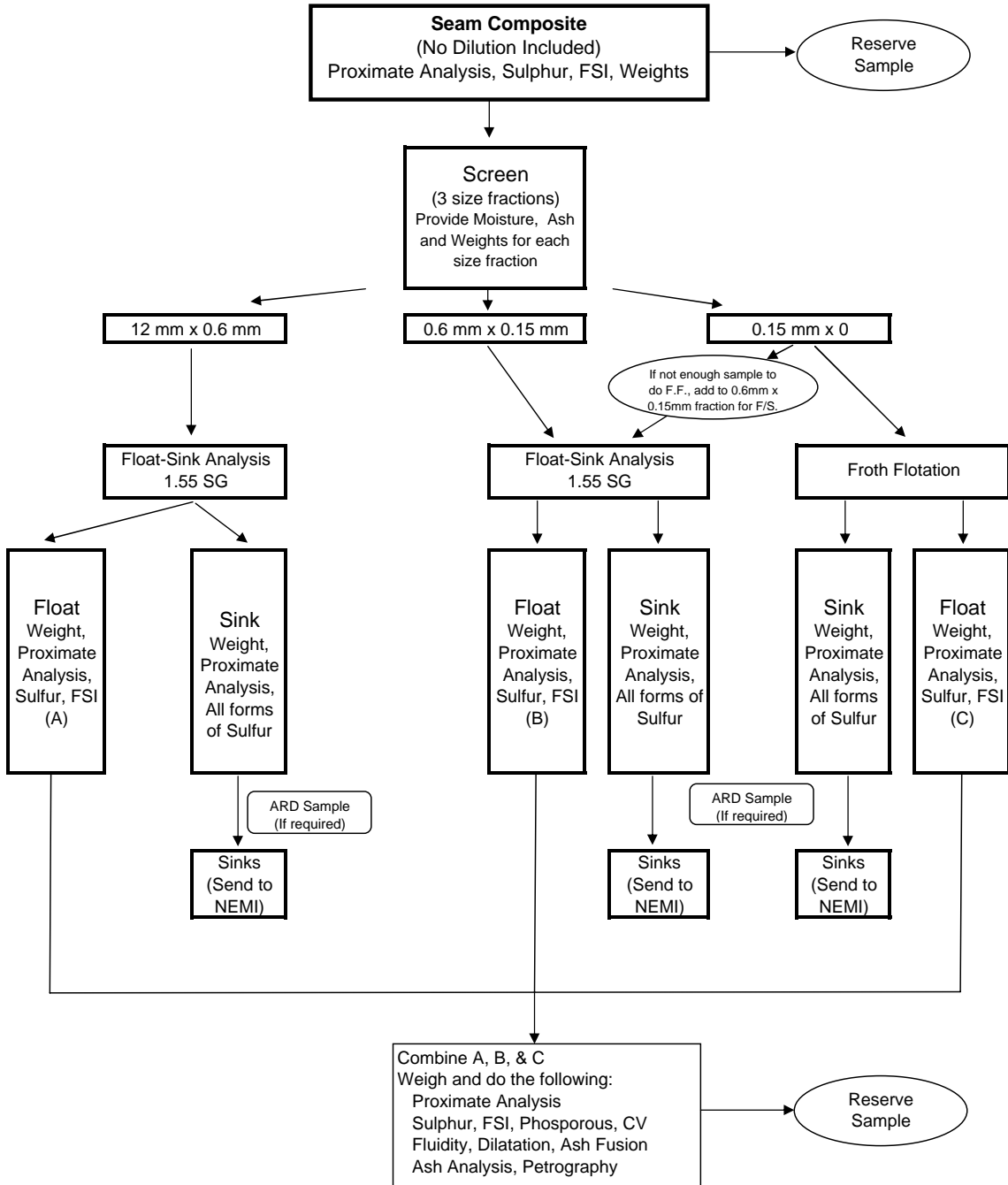




# 2006 Roman Mountain Drill Core Sample Component Laboratory Flowsheet



**2006 Roman Mountain Exploration Program  
Drillcore (75 mm  $\varnothing$ ) Laboratory Analysis Flowsheet  
Seam Composites  
( $>75\%$  Recovery)**



# Roman Mountain Section GT 12230 Looking NW

1900 m

1800 m

1700 m

1600 m

1500 m

1400 m

-400

-300

-200

-100

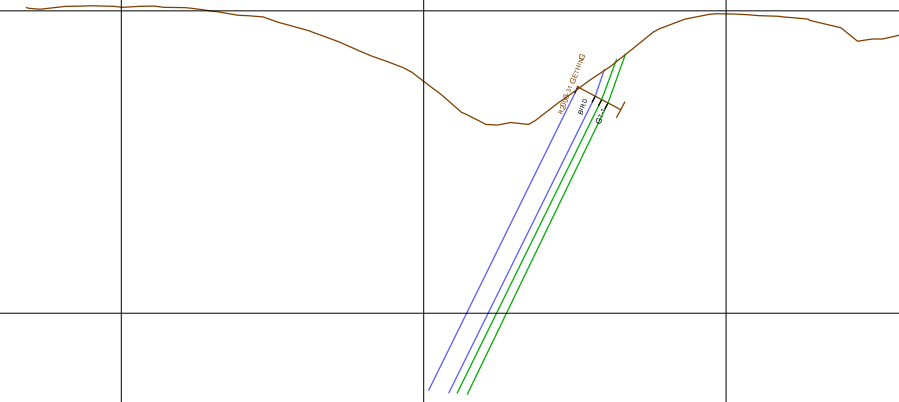
0

100

200

300

400



# Roman Mountain Section GT 12400 Looking NW

1900 m

1800 m

1700 m

1600 m

1500 m

1400 m

-500

-400

-300

-200

-100

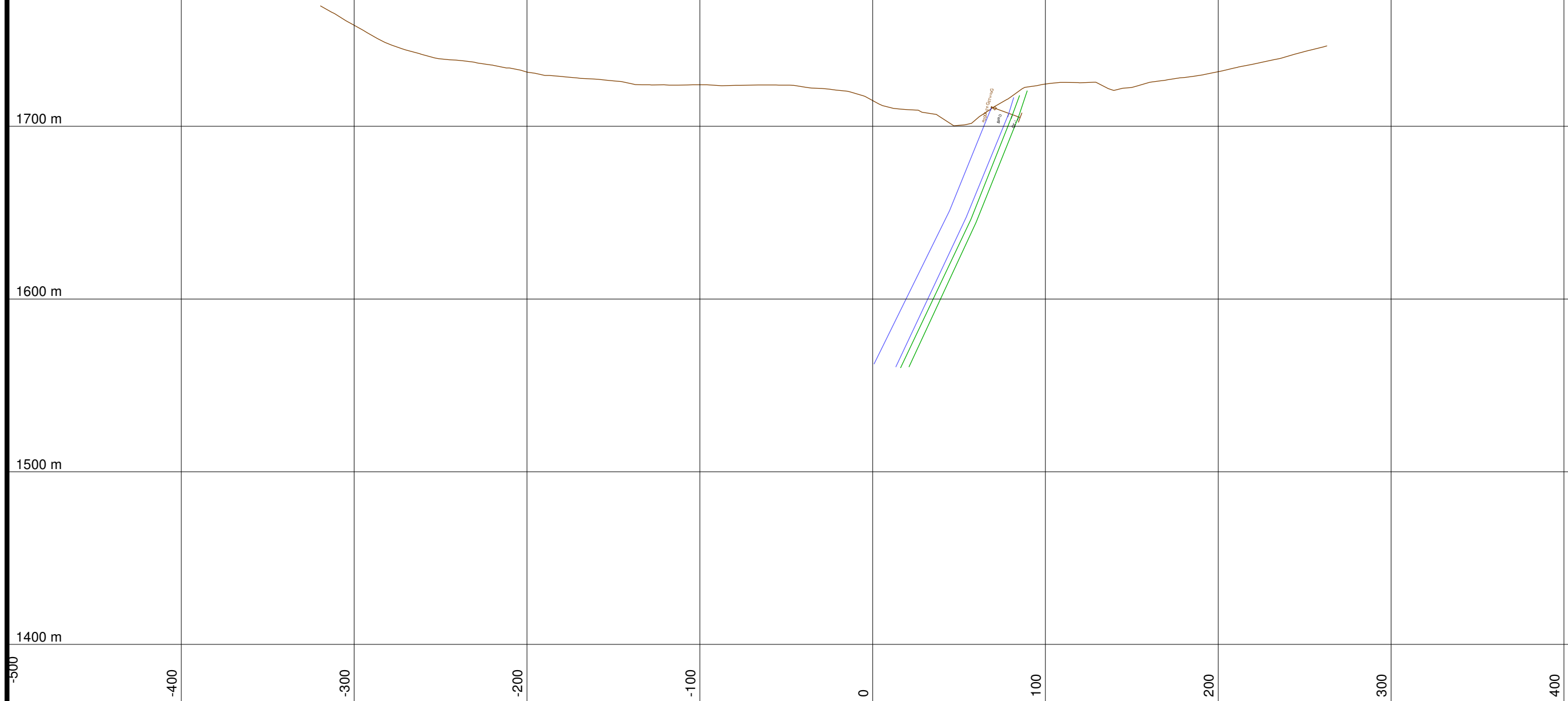
0

100

200

300

400



# Roman Mountain Section GT 12590 Looking NW

1900 m

1800 m

1700 m

1600 m

1500 m

-400

-300

-200

-100

0

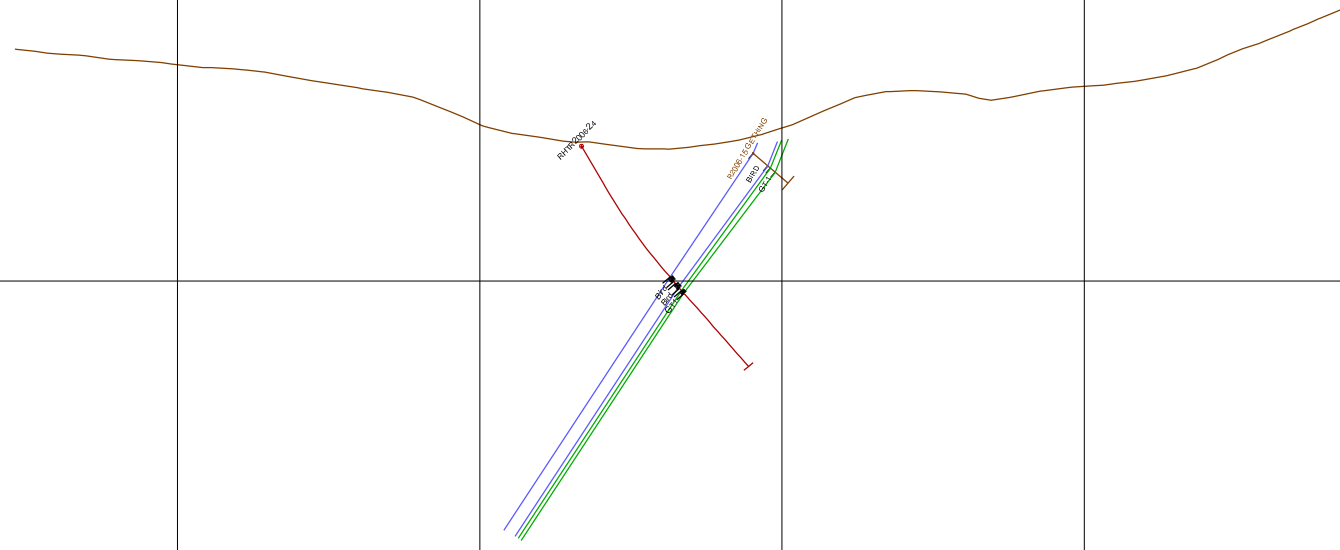
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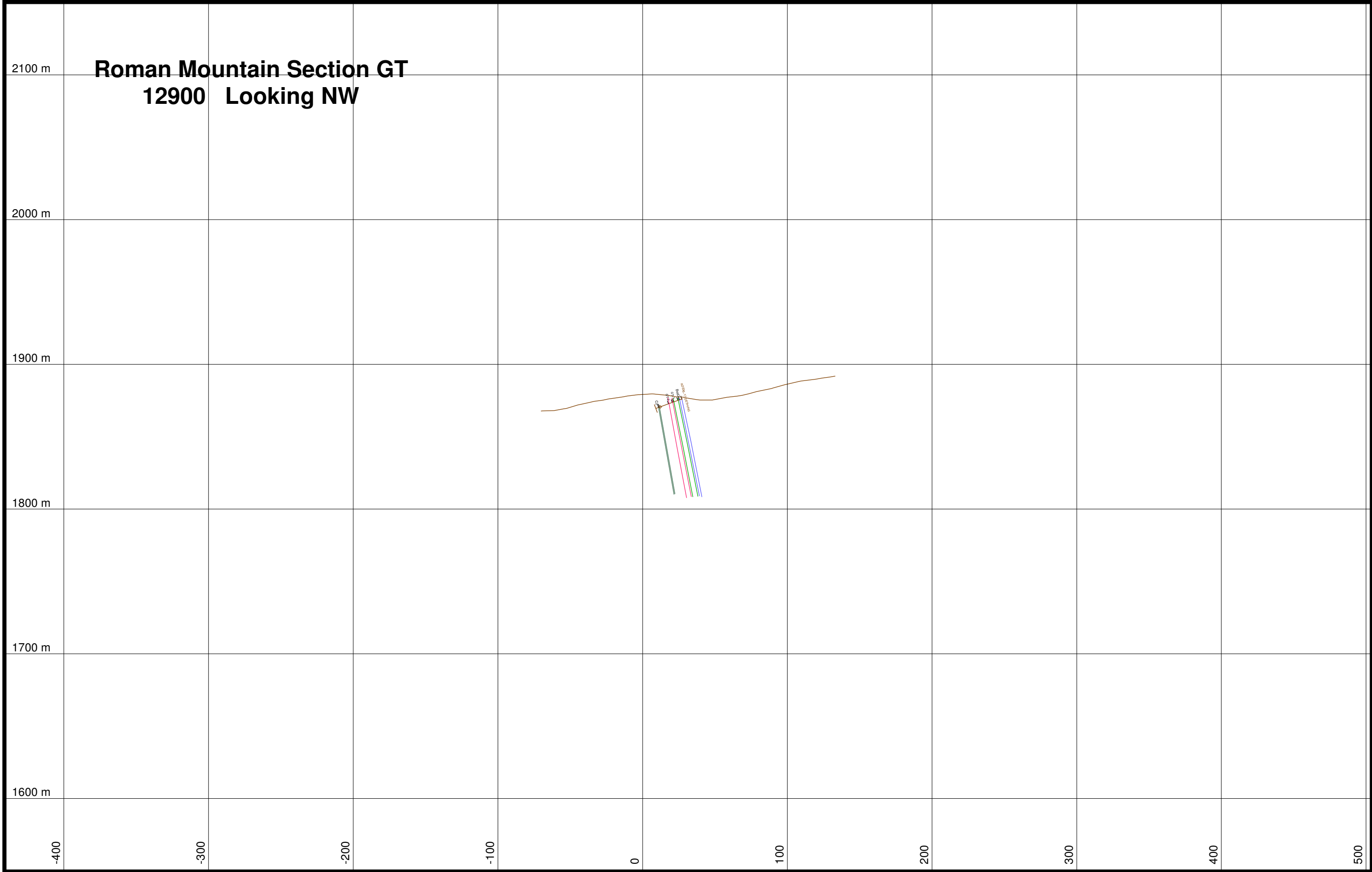
200

300

400

500





# Roman Mountain Section GT 13140 Looking NW

2100 m

2000 m

1900 m

1800 m

1700 m

1600 m

-400

-300

-200

-100

0

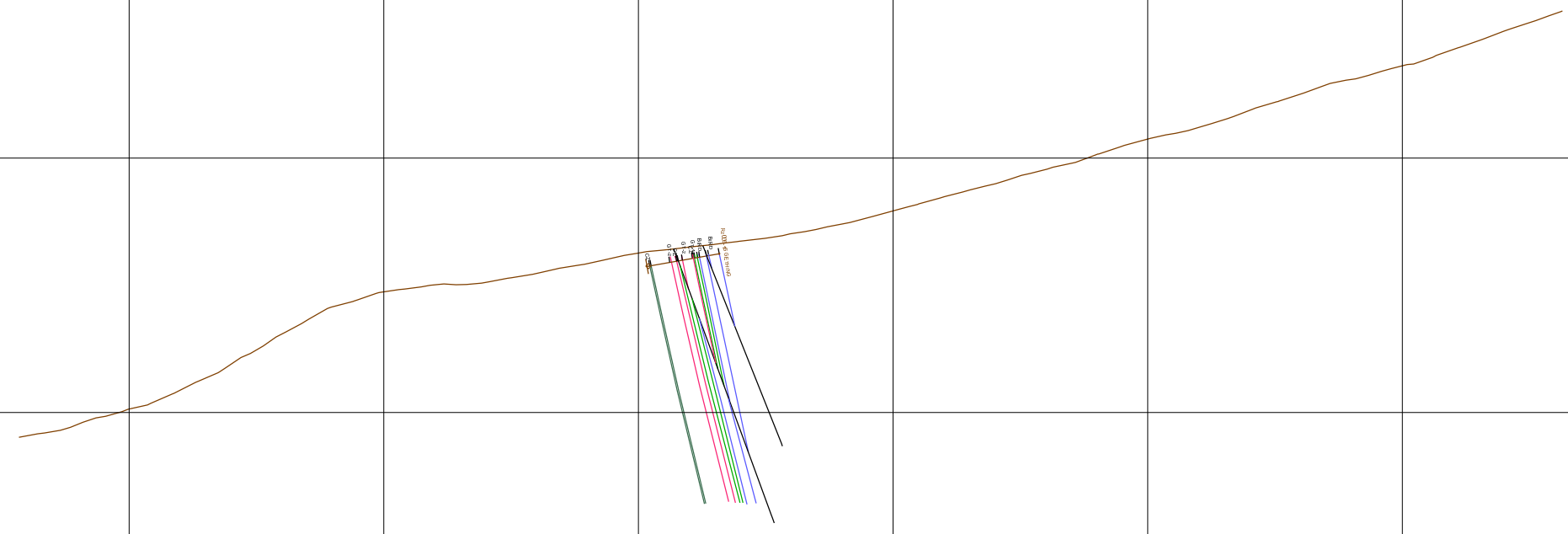
100

200

300

400

500



# Roman Mountain Section GT 13230 Looking NW

2100 m

2000 m

1900 m

1800 m

1700 m

1600 m

-300

-200

-100

0

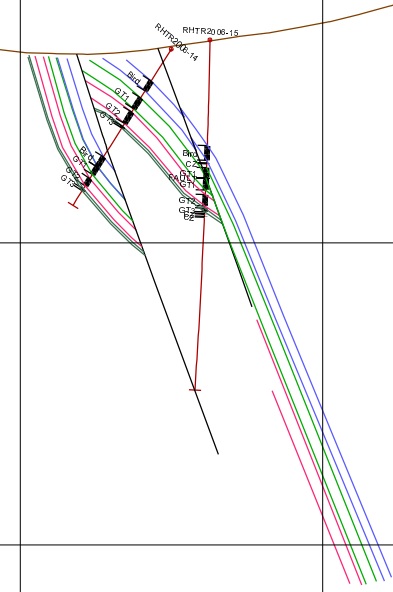
100

200

300

400

500





# Roman Mountain Section GT 13350 Looking NW

2100 m

2000 m

1900 m

1800 m

1700 m

1600 m

-400

-300

-200

-100

0

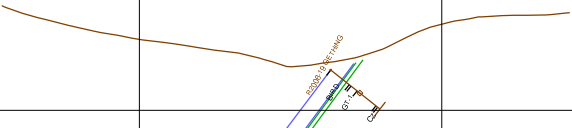
100

200

300

400

500



# Roman Mountain Section GT 13360 Looking NW

2000 m

1900 m

1800 m

1700 m

1600 m

1500 m

-300

-200

-100

0

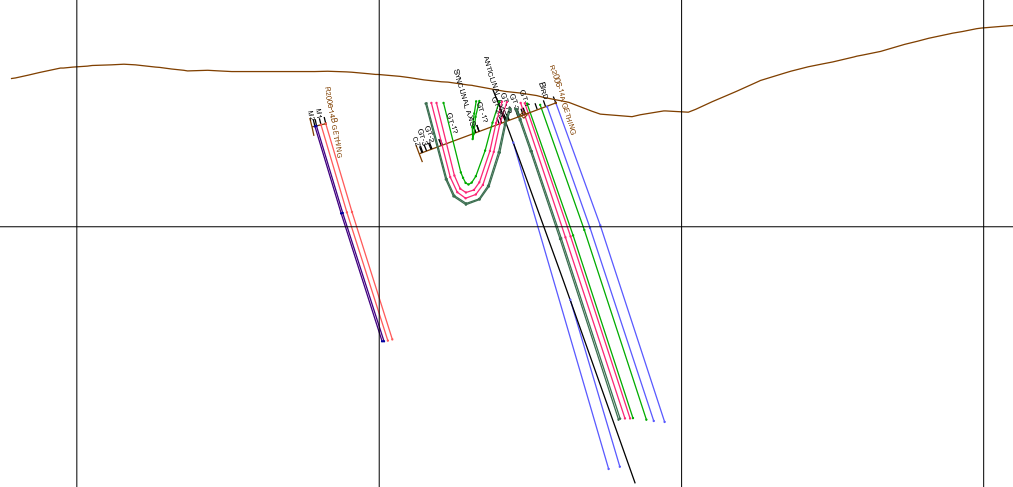
100

200

300

400

500



**Roman Mountain Section GT  
13540 Looking NW**

2000 m

1900 m

1800 m

1700 m

1600 m

1500 m

-400

-300

-200

-100

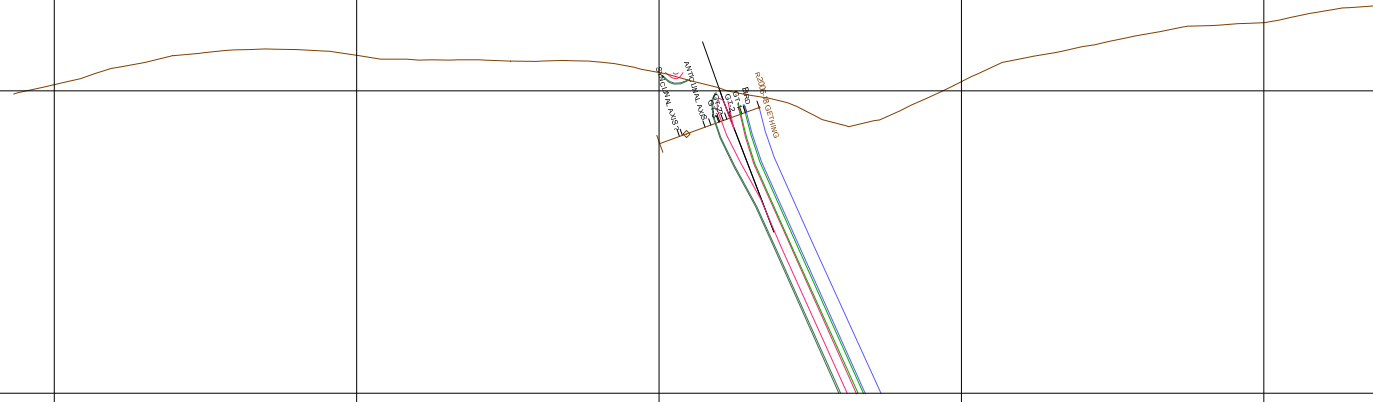
0

100

200

300

400



1600 m **Roman Mountain Section L 10550**  
Looking NW

1500 m

1400 m

1300 m

1200 m

1100 m

-400

-300

-200

-100

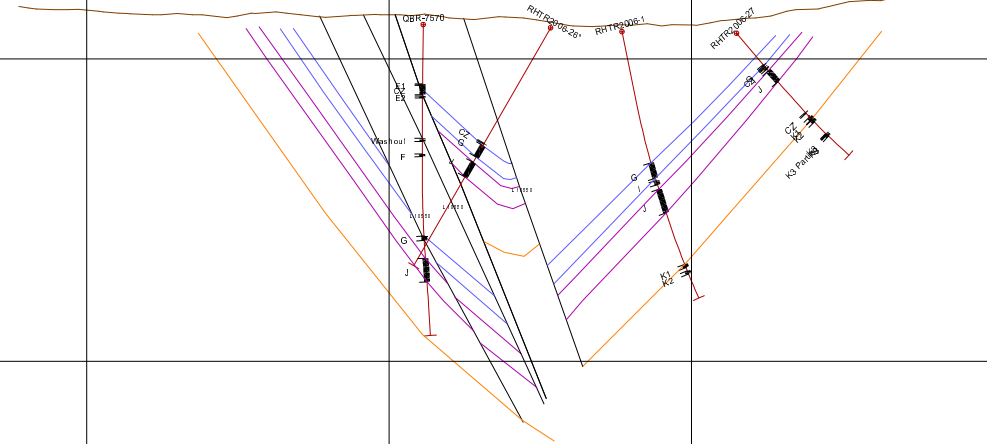
0

100

200

300

400



1600 m **Roman Mountain Section L 10750**  
**Looking NW**

1500 m

1400 m

1300 m

1200 m

1100 m

-300

-200

-100

0

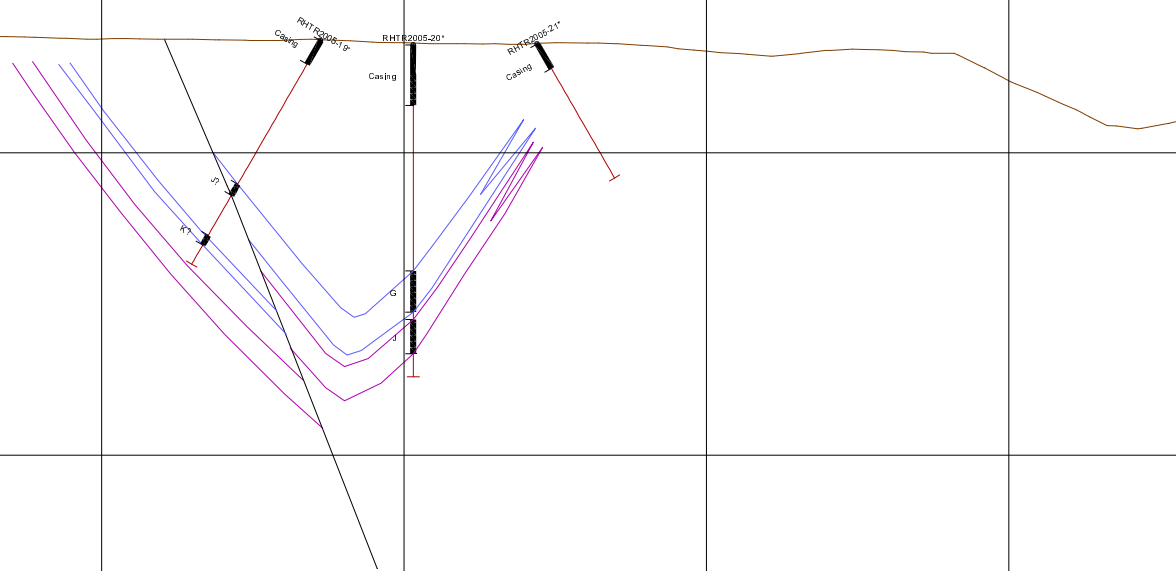
100

200

300

400

500



# Roman Mountain Section L 11050 Looking NW

1600 m

1500 m

1400 m

1300 m

1200 m

-300

-200

-100

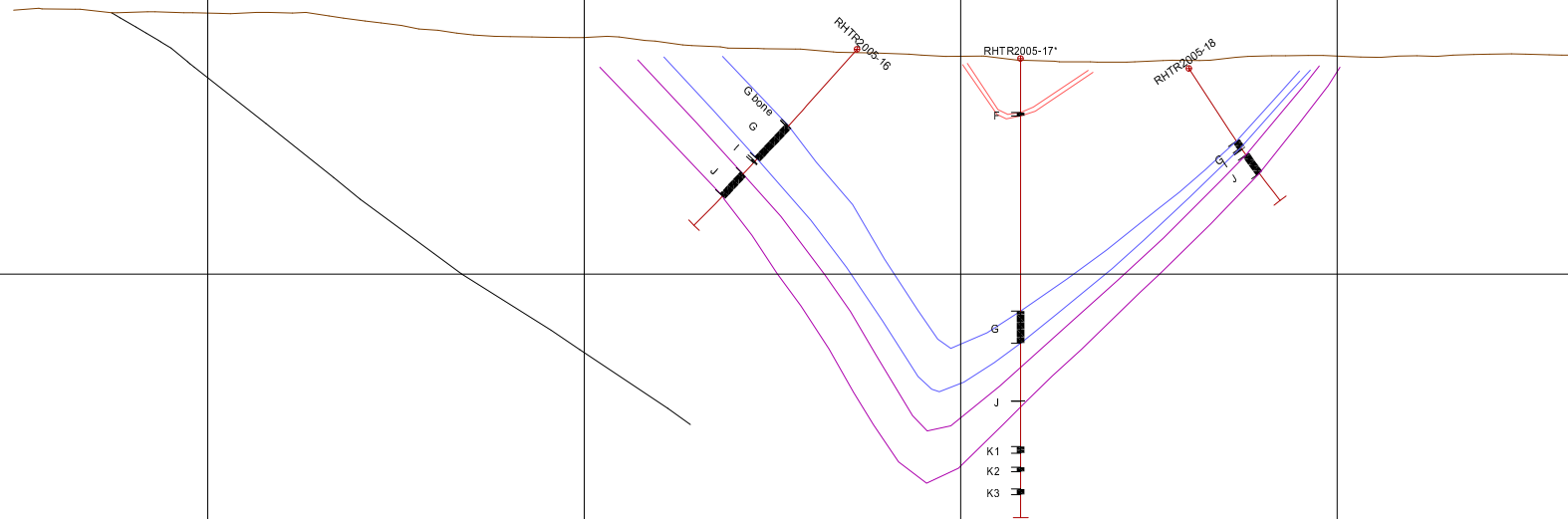
0

100

200

300

400



1700 m **Roman Mountain Section L 11250**  
Looking NW

1600 m

1500 m

1400 m

1300 m

1200 m

-300

-200

-100

0

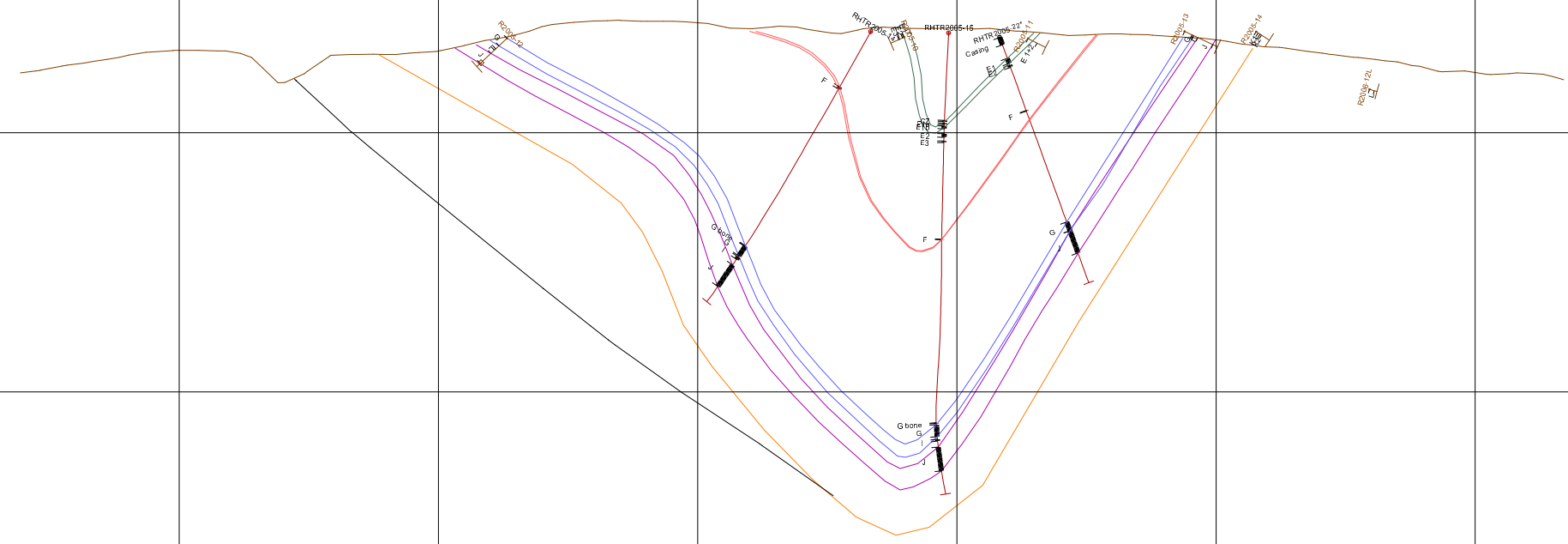
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200

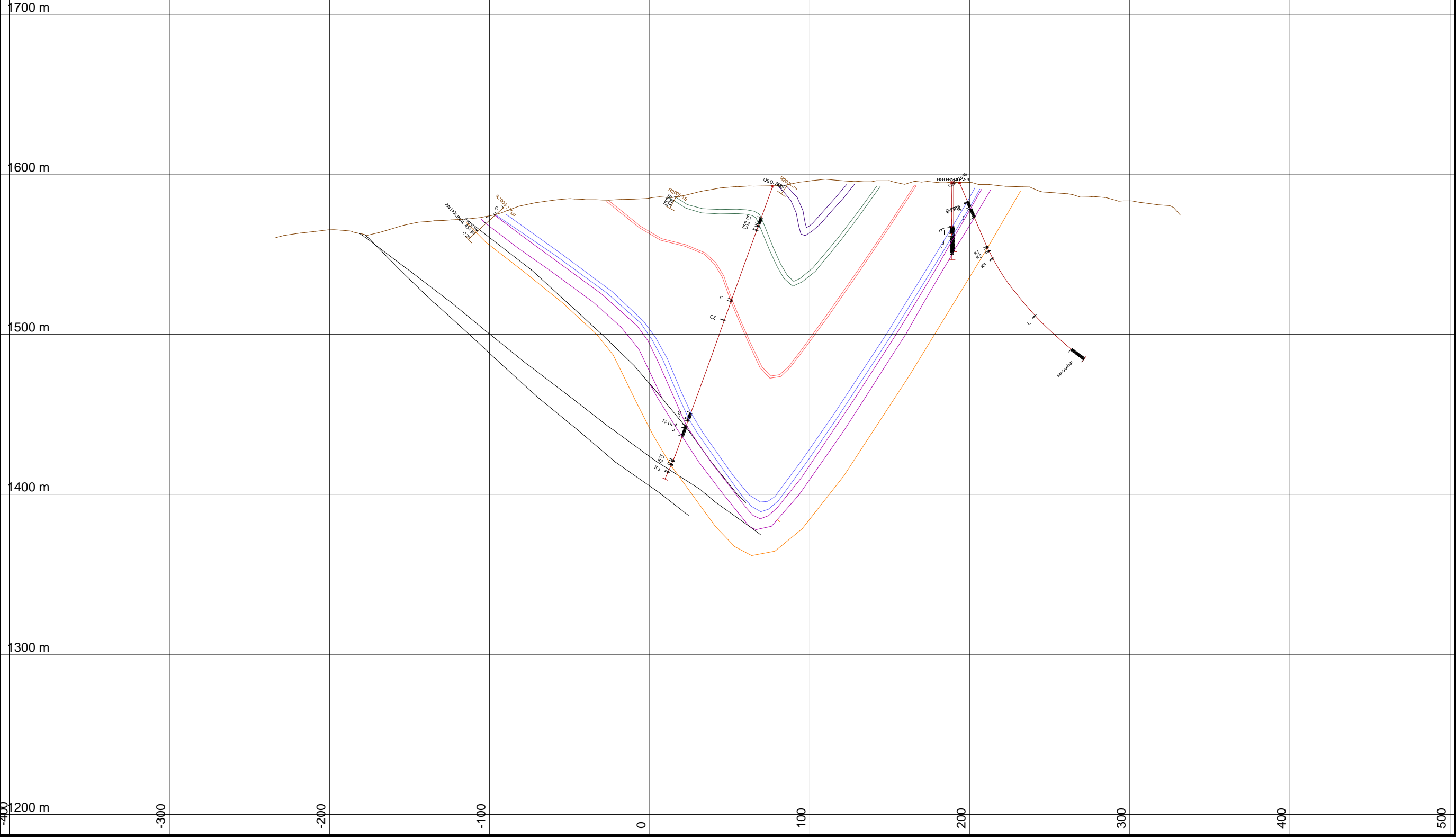
300

400

500



Roman Mountain Section L 11400  
Looking NW





# Roman Mountain Section L 11500 Looking NW

1700 m

1600 m

1500 m

1400 m

1300 m

-300

-200

-100

0

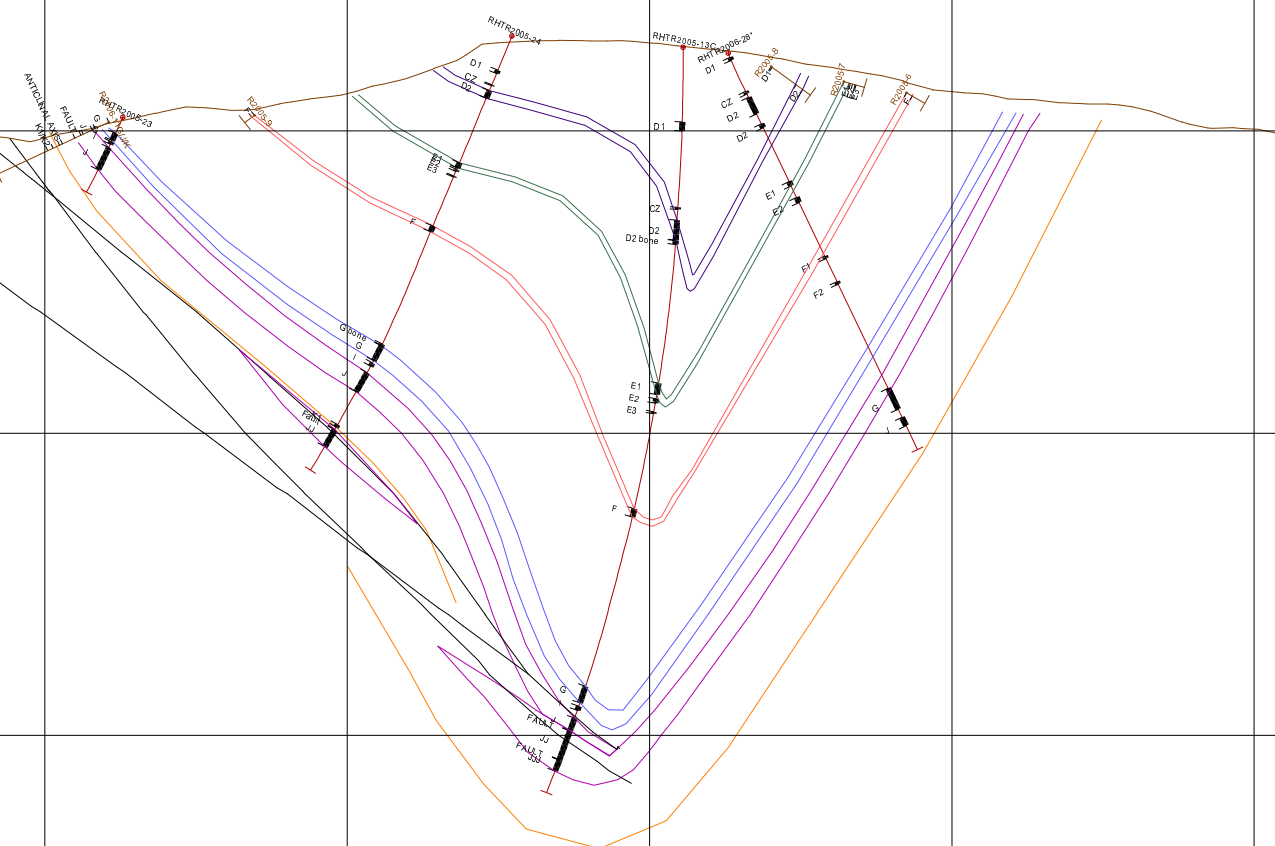
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200

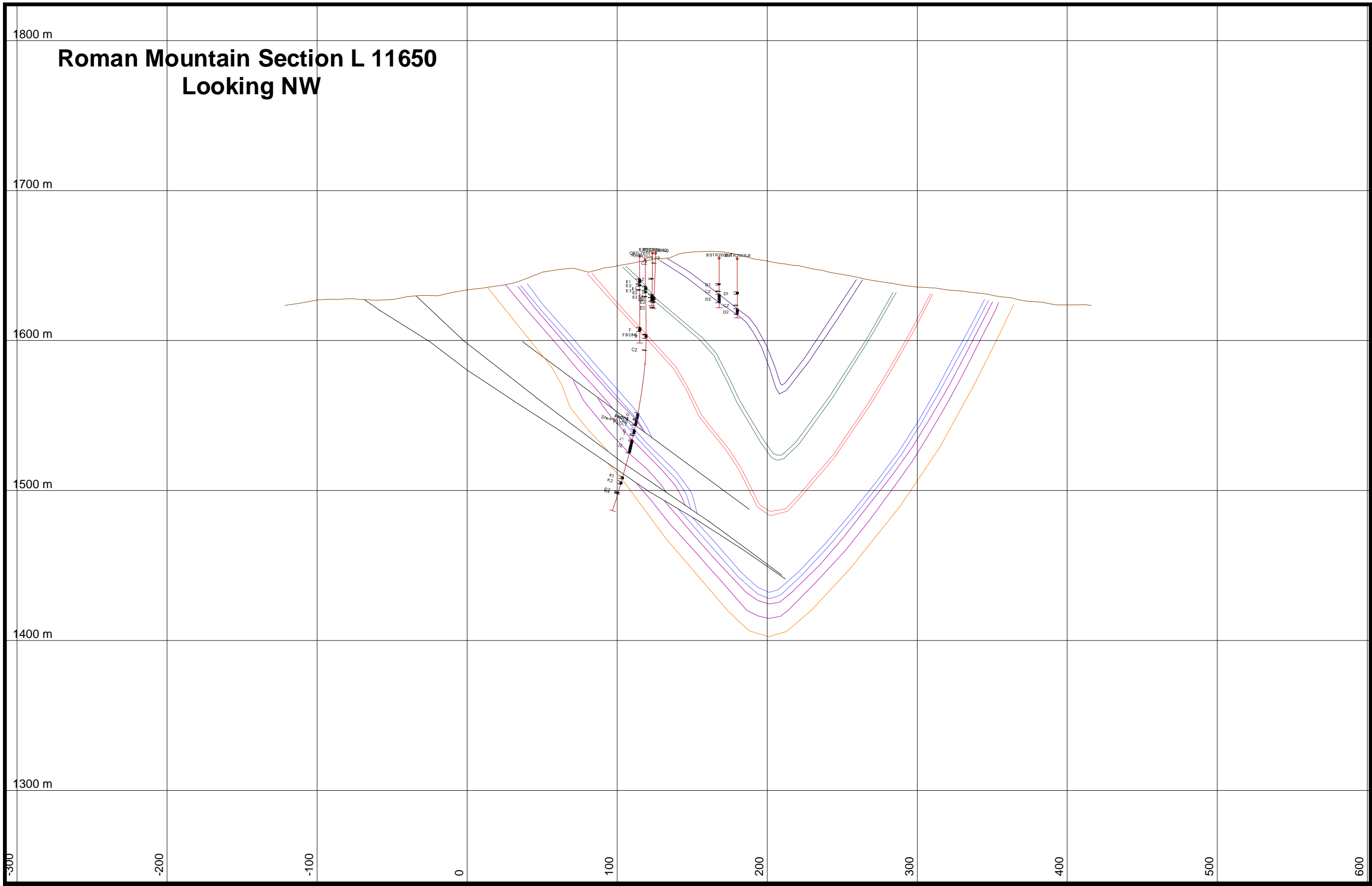
300

400

500



# Roman Mountain Section L 11650 Looking NW



1800 m **Roman Mountain Section L 11750**  
Looking NW

1700 m

1600 m

1500 m

1400 m

1300 m

-300

-200

-100

0

100

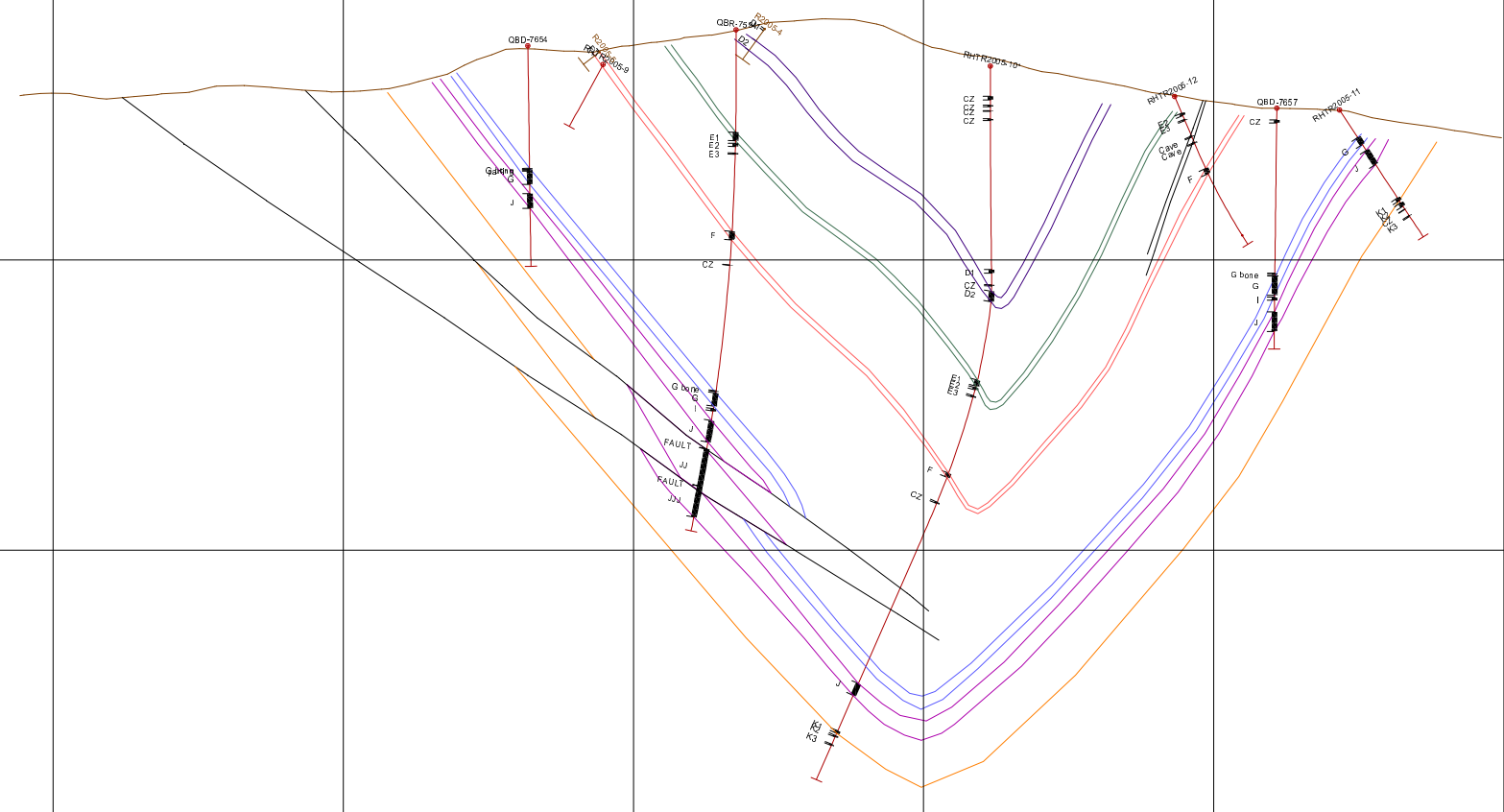
200

300

400

500

600



# Roman Mountain Section L 11900 Looking NW

1800 m

1700 m

1600 m

1500 m

1400 m

1300 m

-300

-200

-100

0

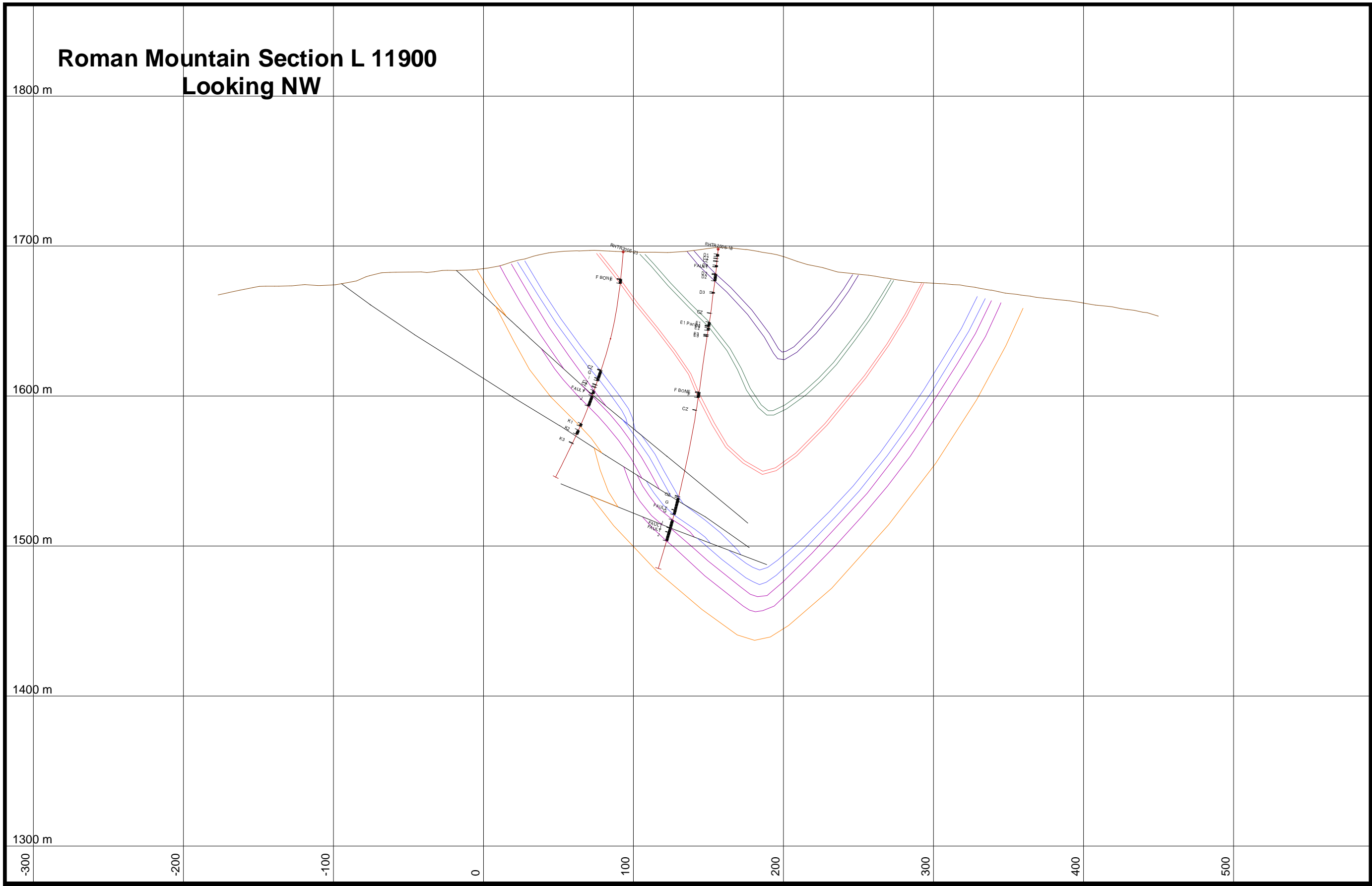
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200

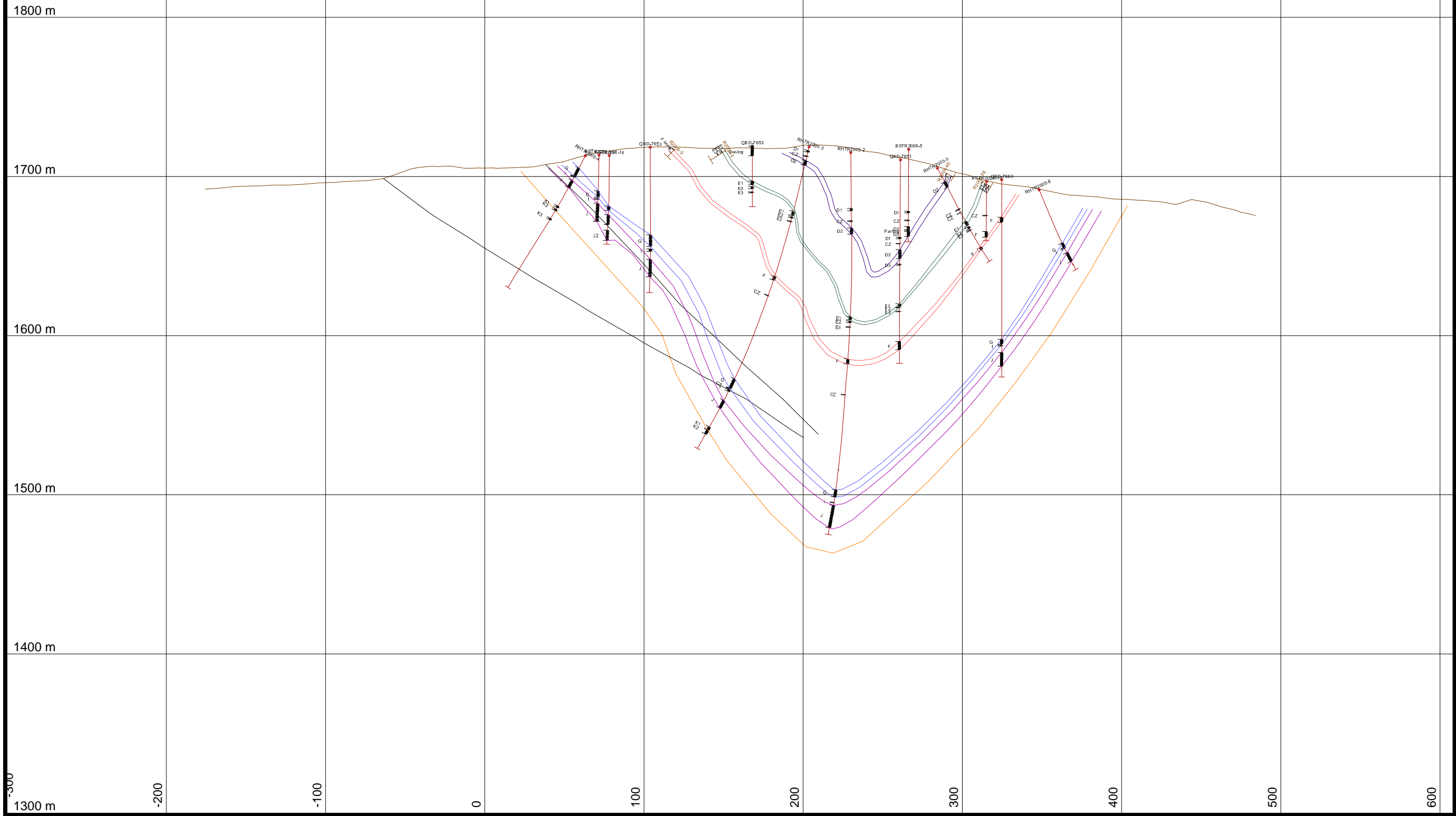
300

400

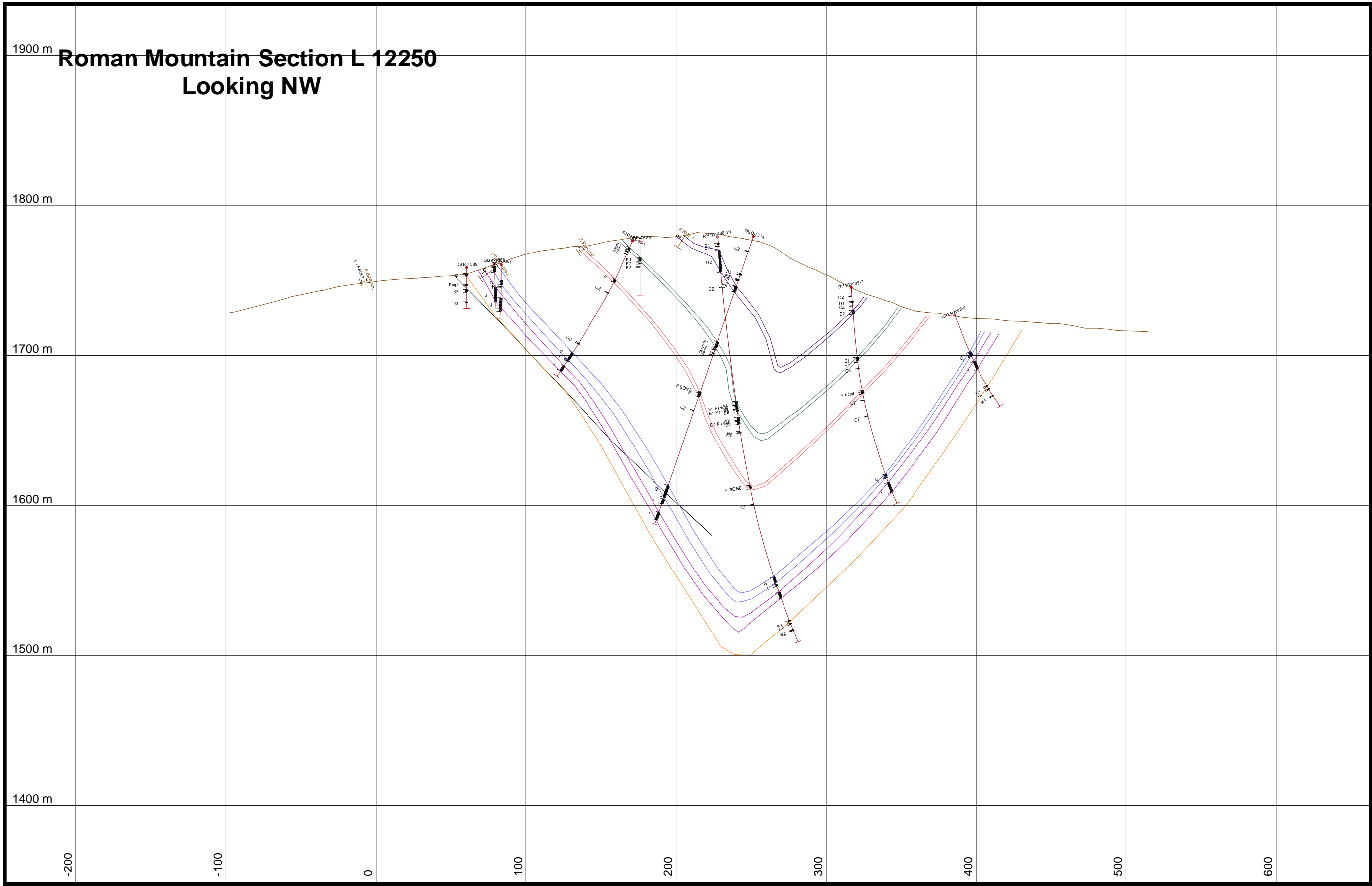
500



# Roman Mountain Section L 12000 Looking NW



# Roman Mountain Section L 12250 Looking NW



# Roman Mountain Section L 12500 Looking NW

1900 m

1800 m

1700 m

1600 m

1500 m

-200

-100

0

100

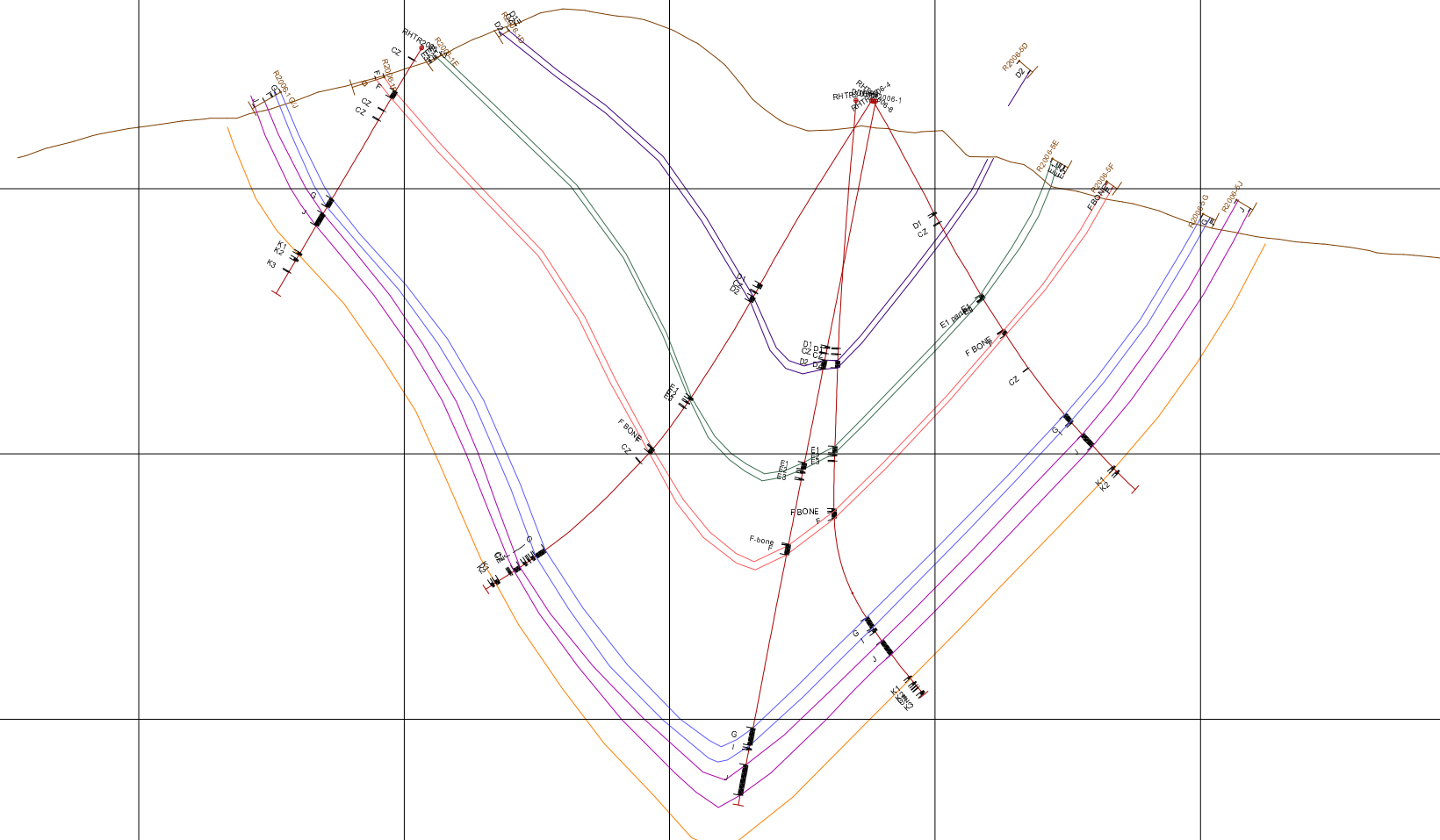
200

300

400

500

600



# Roman Mountain Section L 12800 Looking NW

2000 m

1900 m

1800 m

1700 m

1600 m

1500 m

-200

-100

0

100

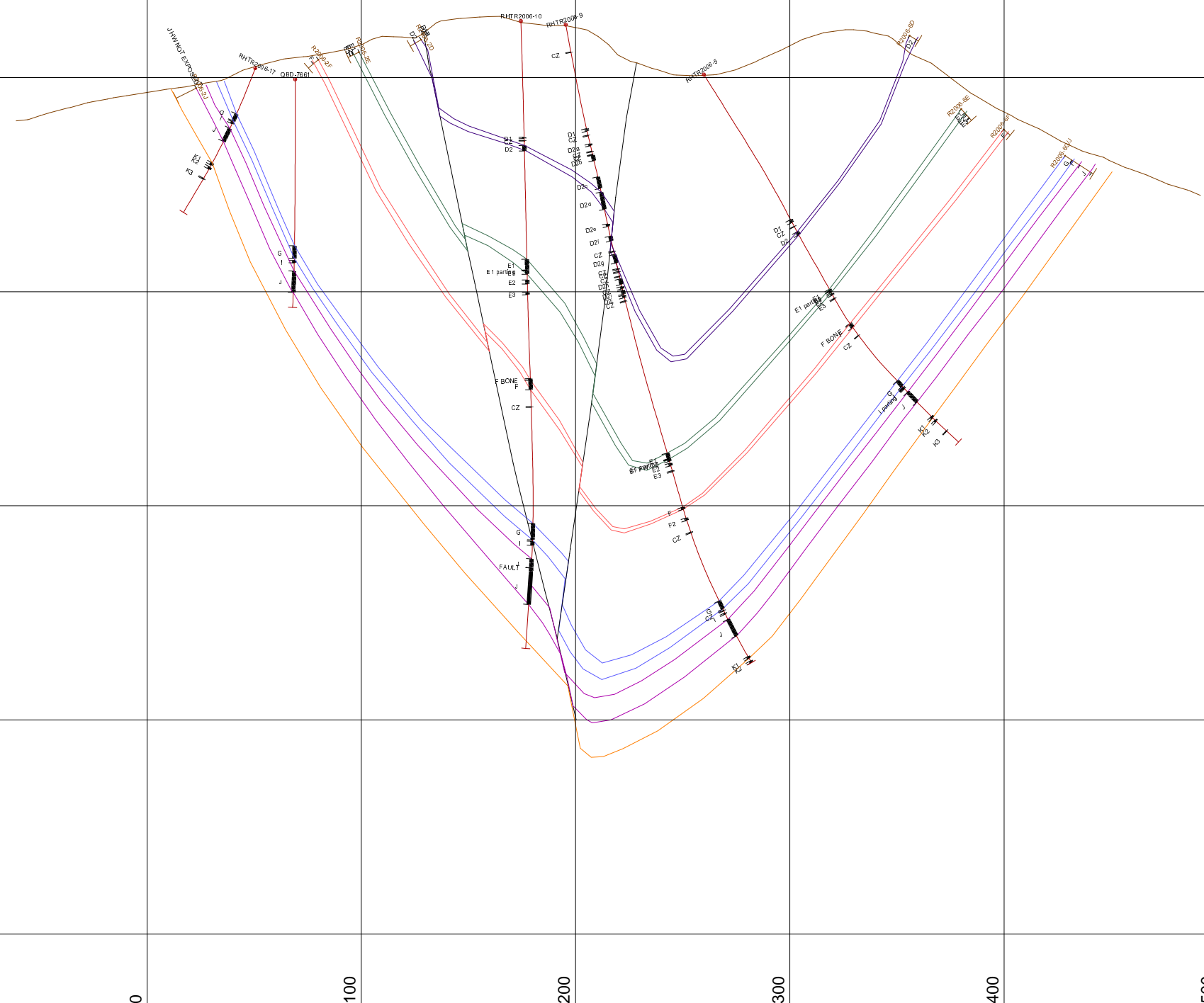
200

300

400

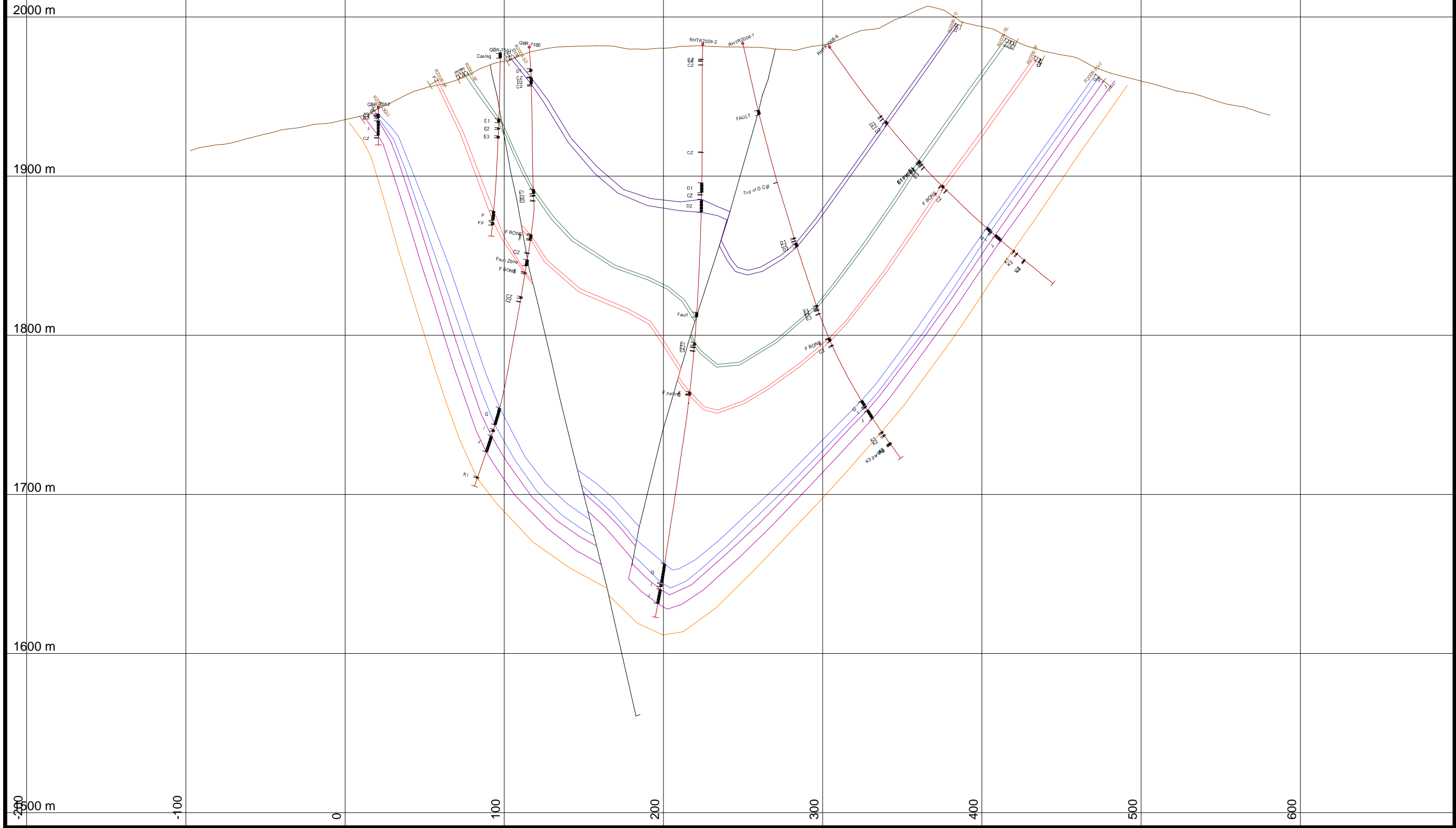
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600

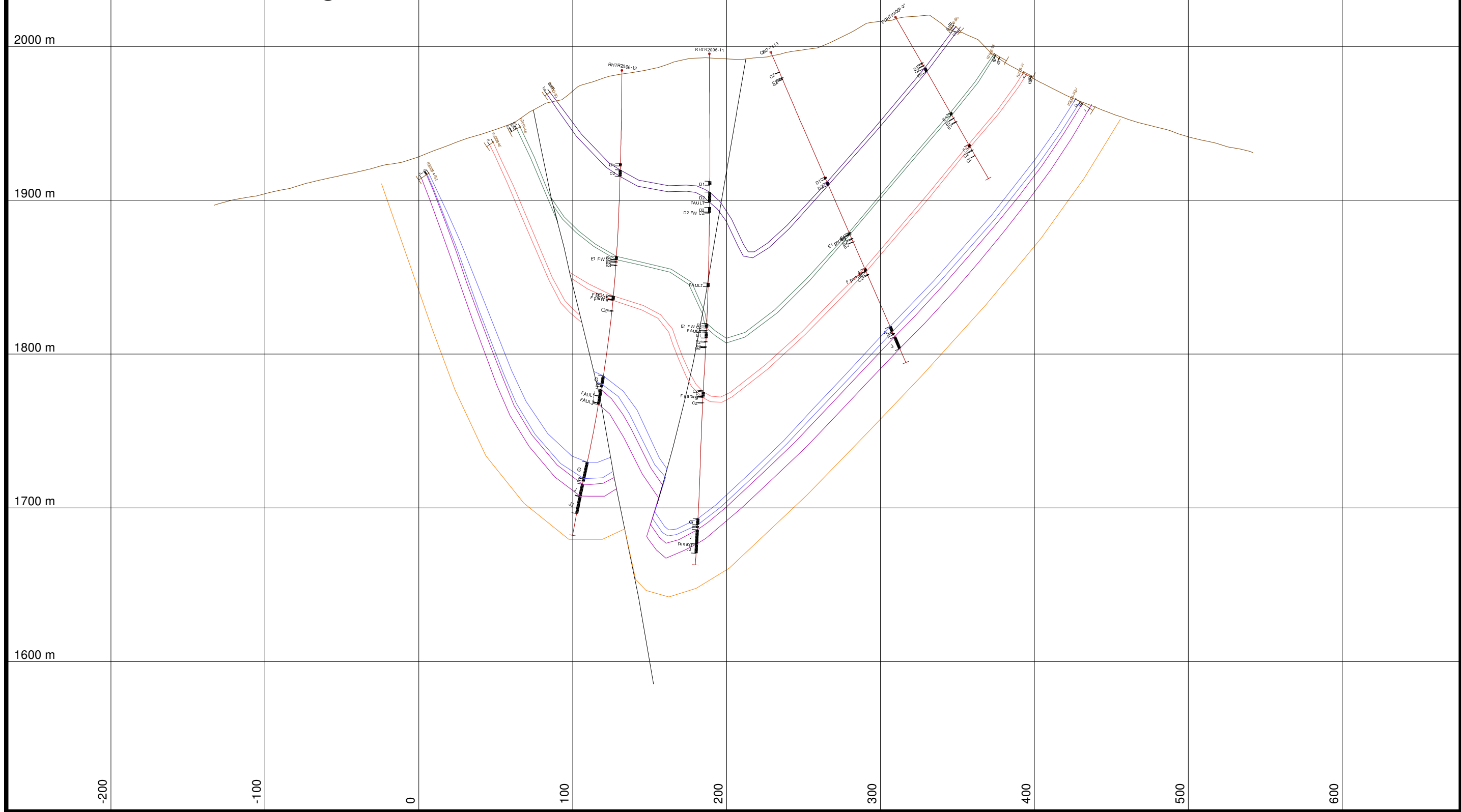


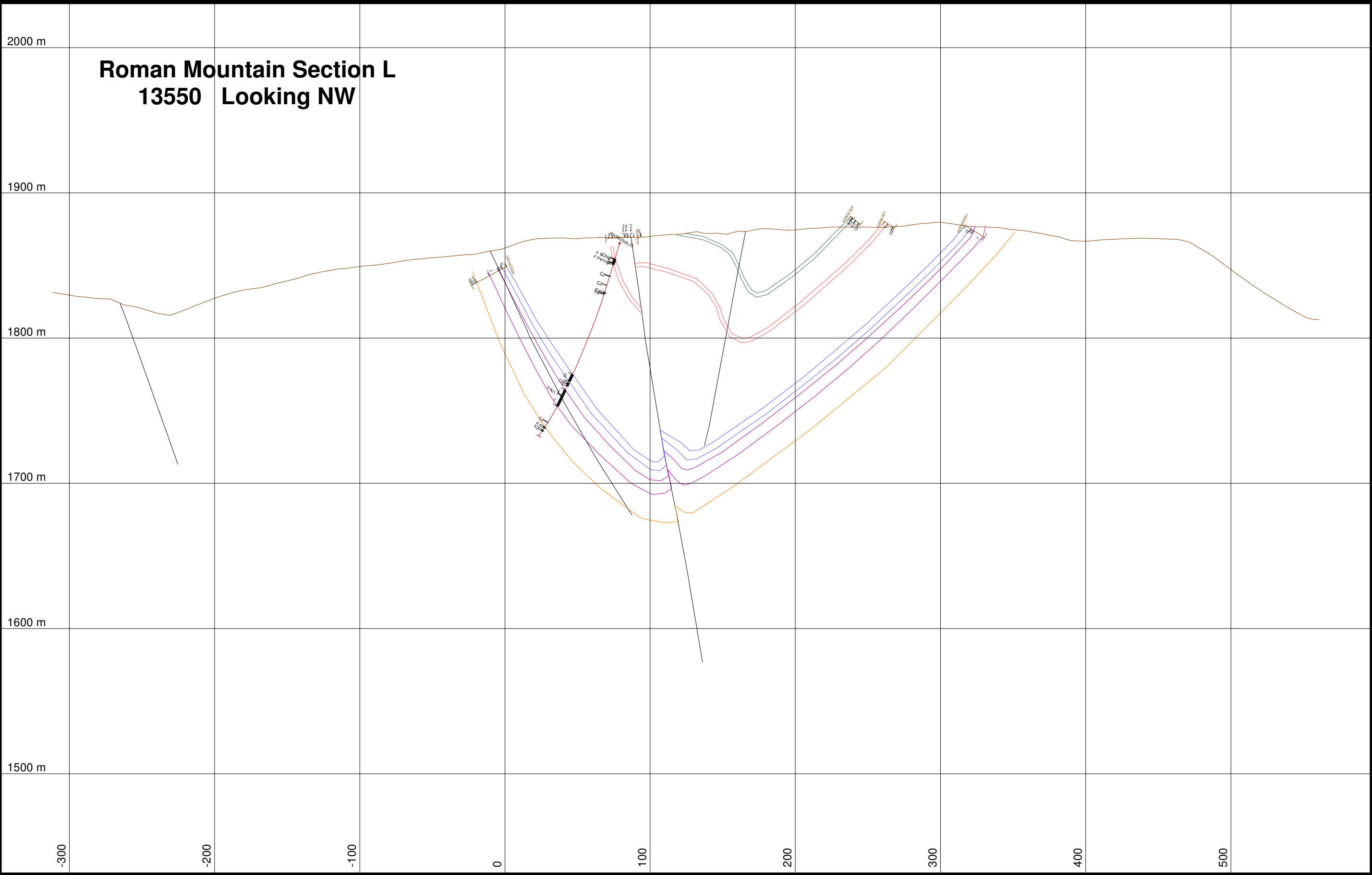


# Roman Mountain Section L 13050 Looking NW



# Roman Mountain Section L 13300 Looking NW





# Roman Mountain Section L 13725 Looking NW

1900 m

1800 m

1700 m

1600 m

1500 m

-300

-200

-100

0

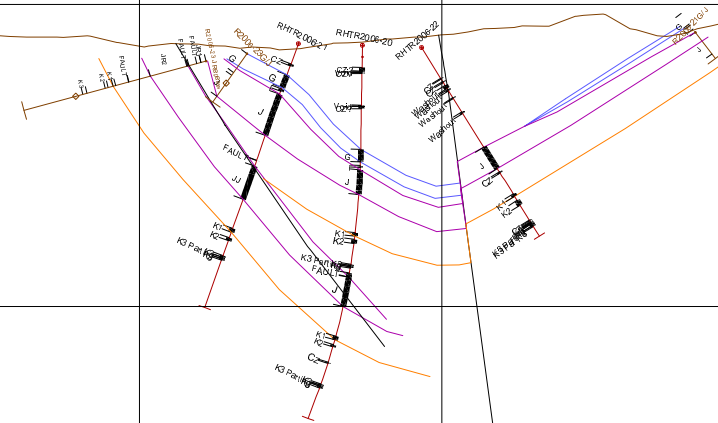
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200

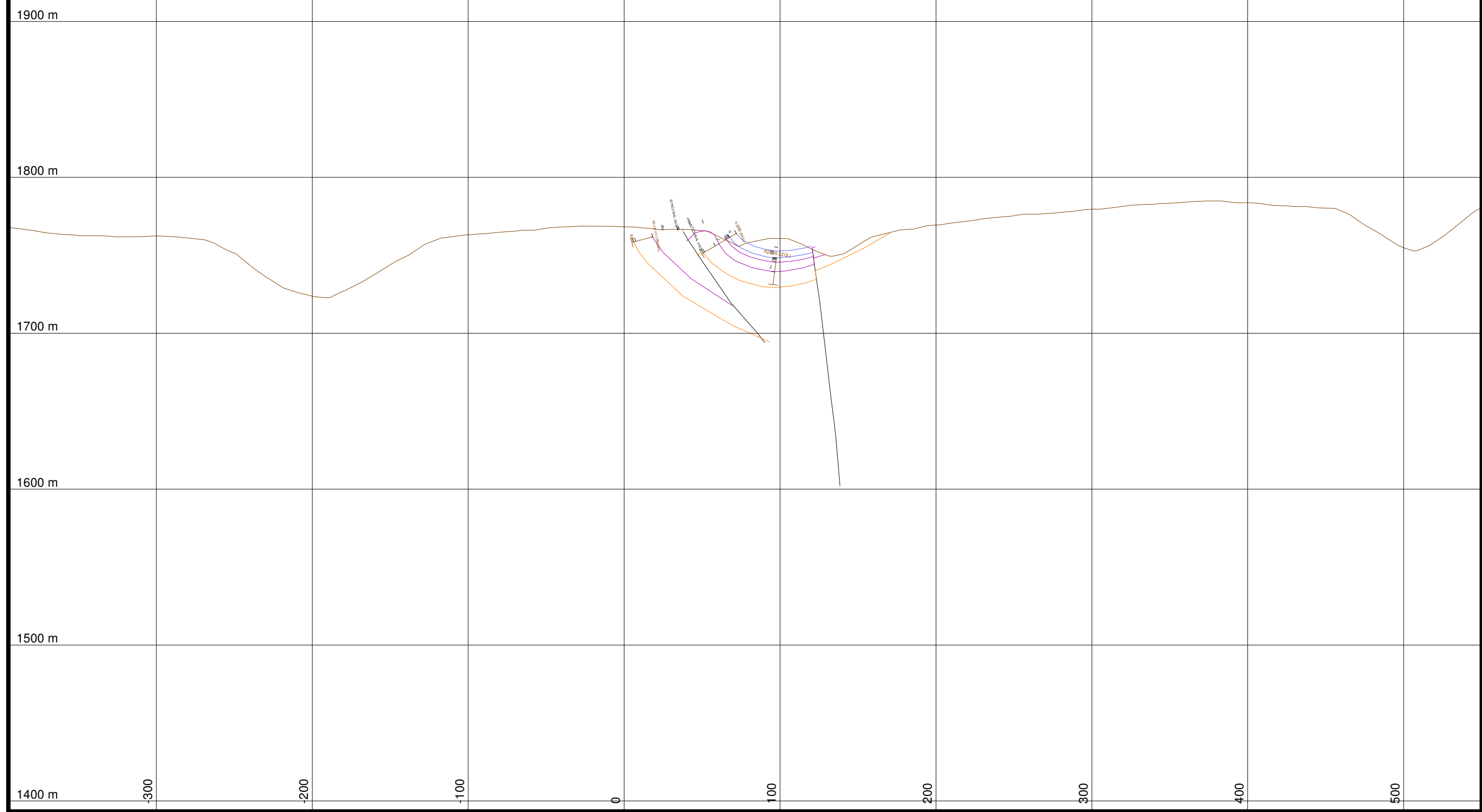
300

400

500



# Roman Mountain Section L 13890 Looking NW



**Appendix J - Statement of Costs**

Category	Vendor	Costs	Totals	Totals
Percussion Drilling	Geotech Drilling Services Ltd	\$538,747.00		
	Carbon Mountain Drilling	\$422,770.00		
	DereX Drilling Services Ltd.	\$21,184.00	\$982,701.00	
Diamond Drilling	Geotech Drilling Services Ltd	\$82,960.00		
	DereX Drilling Services Ltd.	\$87,077.00	\$170,037.00	
Bulk Sampling	Carbon Mountain Drilling	\$427,056.31	\$427,056.31	
Drilling Fuel		\$66,630.00	\$66,630.00	
<b>Total Drilling</b>				<b>\$1,646,424.31</b>
Supervision	R.F.McIntyre	\$85,800.00		
	K James	\$9,000.00	\$94,800.00	
Geological Personnel	D Thompson	\$46,900.00		
	M. Mackay	\$5,355.00		
	M. Wang	\$6,335.00	\$58,590.00	
Other Personnel	G. Langille	\$2,400.00		
	R. James	\$5,158.00		
	G Levesque	\$3,275.00		
	S. Pelchuk	\$2,735.00		
	D. Campbell	\$5,390.00		
	J. Brown	\$4,600.00	\$23,558.00	
<b>Total Personnel</b>				<b>\$176,948.00</b>
Heavy Equipment	CWIC	\$289,285.00		
	Northern Drilling Inc.	\$90.00		
	Sword Transport Ltd., Water Truck	\$9,540.00		
	JD 450 (Geotech)	\$9,300.00		
	Trucking	\$4,920.00	\$313,135.00	
Access Construction	Blackwater Construction	\$73,846.00		
	Kode Contracting	\$13,395.00		
	Culverts	\$2,000.00	\$89,241.00	
<b>Total Heavy Equipment</b>				<b>\$402,376.00</b>
Surveying	Canyon Contracting Ltd	\$40,477.00	\$40,477.00	
Geophysical Logging	Century Corp.	\$68,031.00	\$68,031.00	
Analytical	GWIL	\$47,050.00		
	Loring	\$3,064.00		
	Sample Shipping	\$4,170.00	\$54,284.00	
Reclamation	Seed, Fertilizer	\$10,375.00		
	Peace Pro Seeds	\$5,250.00	\$15,625.00	
<b>Total Technical Services</b>				<b>\$178,417.00</b>
Transportation	4X4 Vehicles	\$22,719.26		
	Gasoline	\$5,314.00		
	Maintenance	\$4,000.00		
	Airline	\$4,050.00		
	Misc	\$550.00	\$36,633.26	
	Rentals	Atco	\$4,556.00	
Accommodations	Exploration Office	\$2,970.00		
	Water Tank, Northern Drilling	\$15,200.00		
	Core Shack, TR Sand & Gravel	\$1,500.00		
	Generator, Tools	\$3,628.00		
	Tumbler Ridge Indust. Spec	\$1,284.00		
	Storage	\$640.00	\$29,778.00	
	Per Diem Allowances	\$11,725.00	\$21,827.00	
Field Supplies	Belcourt-Saxon, used supplies	\$1,600.00		
	Core Boxes	\$4,705.00		
	Computer Supplies	\$895.00		
	Radios, Cell Phone	\$3,700.00		
	Lumber	\$530.00		
	Misc Field Supplies	\$4,215.00		
	First Aid	\$300.00	\$15,945.00	
Assorted Expenses	R.F.McIntyre	\$2,650.00	\$2,650.00	
<b>Total Miscellaneous Costs</b>				<b>\$104,183.26</b>
			Subtotal	\$2,508,348.57
			GST 7%	\$163,042.66
			<b>Total</b>	<b>\$2,671,391.23</b>