



**ASSESSMENT REPORT**  
for the  
**2006 Reesor Property Exploration Program**

# **PEACE RIVER COAL INC.**

## **ASSESSMENT REPORT**

### **2006 Reesor Property Exploration Program**

**British Columbia Coal License No.'s 417031, 417032, 417035,  
417040, 417041 & 417042**

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

**Author: D.G. Jefferys**

February, 2007

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To: Ministry of Mines Energy and Petroleum Resources  
Subject: Reesor Property, Tumbler Ridge, BC  
Date: February 2007

## **1. Introduction**

In the summer of 2006, Peace River Coal Incorporated conducted a geological mapping program over the Reesor property. Subsequent to the results obtained from the mapping program, five exploration boreholes were planned and drilled on the Reesor North Block property. Drilling commenced in mid October and continued for approximately one month. A total of 1090 m was drilled and geophysically logged. Approximately 3.34 km of new exploration roads were constructed, and total surface disturbance, including drill pads, was limited to 1.81 hectares.

## **2. Locality and Coal Licenses**

### *2.1. Locality*

The Reesor property is situated in the Peace River Coalfield, in the Foothills of the Rocky Mountains, in northeastern British Columbia. The project area is located approximately 105 km southwest of Dawson Creek and 25 km west of Tumbler Ridge (Figure 2.1). The project area is located between the Bullmoose Creek and the Wolverine River, approximately 5 km north of the Wolverine railway line which is currently servicing the coal mining in the area.

### *2.2. Tenure*

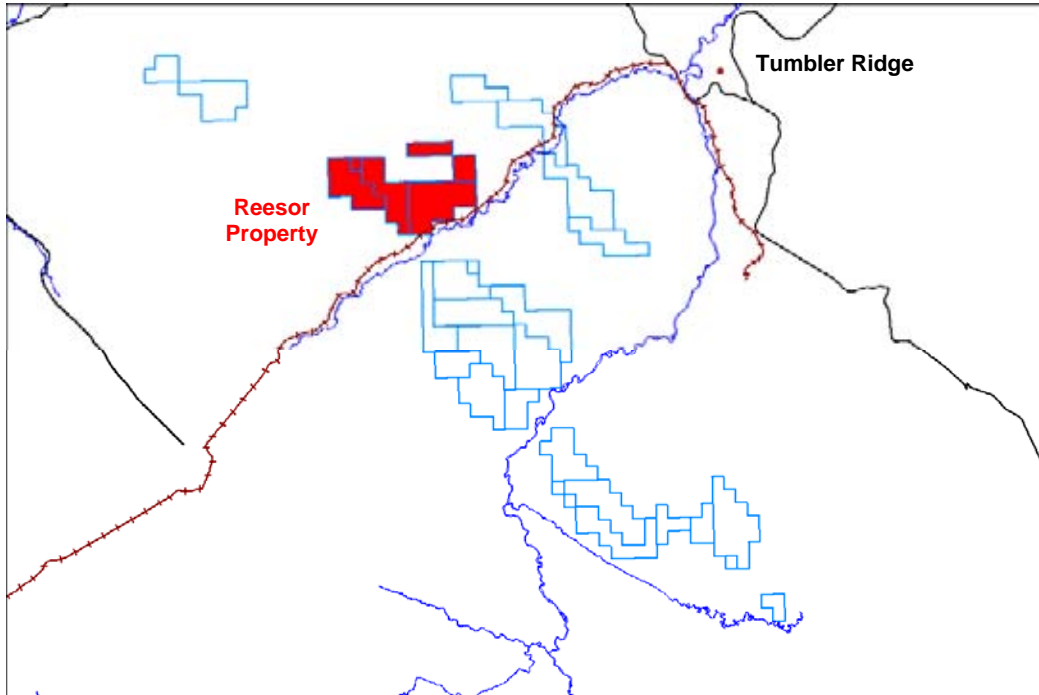
Anglo Coal Canada Incorporated acquired the British Columbia Coal Licenses, No's. 417031, 417032, 417035, 417040, 417041 and 417042, when the Murray River

Group joint venture agreement with Hillsborough Resources Limited was signed. Subsequent to the signing of the joint venture the licenses were assigned to Anglo Coal Licenses Inc. These licenses cover a total area of 3,781 hectares (Table 2.1 and Figure 2.1). It is important to note that in November, 2006, Anglo Coal Canada Inc. entered a limited partnership agreement with Hillsborough Resources Limited, and Northern Energy and Mining Incorporated to form Peace River Coal Incorporated.

*Table 2.1: Reesor property coal tenure licences*

TENURE NO.	MAP SHEET	AREA (ha)
417031	931085	889
417032	931085	1334
417035	931085	75
417040	931085	297
417041	931085	297
417042	931085	889

The project area is named after Mount Reesor, 2,043 m (6,703 feet), which has its peak within license area, No. 417042.



*Figure 2.1: General locality plan of the region, showing Peace River Coal's license areas.*

### **3. Geology**

The project area lies within a belt of Mesozoic strata that forms part of the Rocky Mountain Foothills of northeast British Columbia. The project area contains lower Cretaceous sediments of the Minnes Group through to the Boulder Creek Formation (Figure 3.1). Coal seams with resource potential are found within lower Cretaceous strata, in the Gething Formation of the Bullhead Group and the Gates Formation of the Fort St. John Group. The internal stratigraphy of this succession can be broadly characterized as an alternating sequence of marine shales and marine and non-marine clastic lithologies deposited from a series of transgressive and regressive cycles. The coal seams found within the Gething and Gates Formations are believed to have formed within deltaic depositional environments. Thin, uneconomic seams may also be encountered within the Boulder Creek Formation above the Gates

Formation and in the Minnes Group, below the Cadomin Formation at the base of the Gething Formation. The project area is underlain by a stratigraphic sequence ranging from the Minnes Group strata to the Boulder Creek Formation.

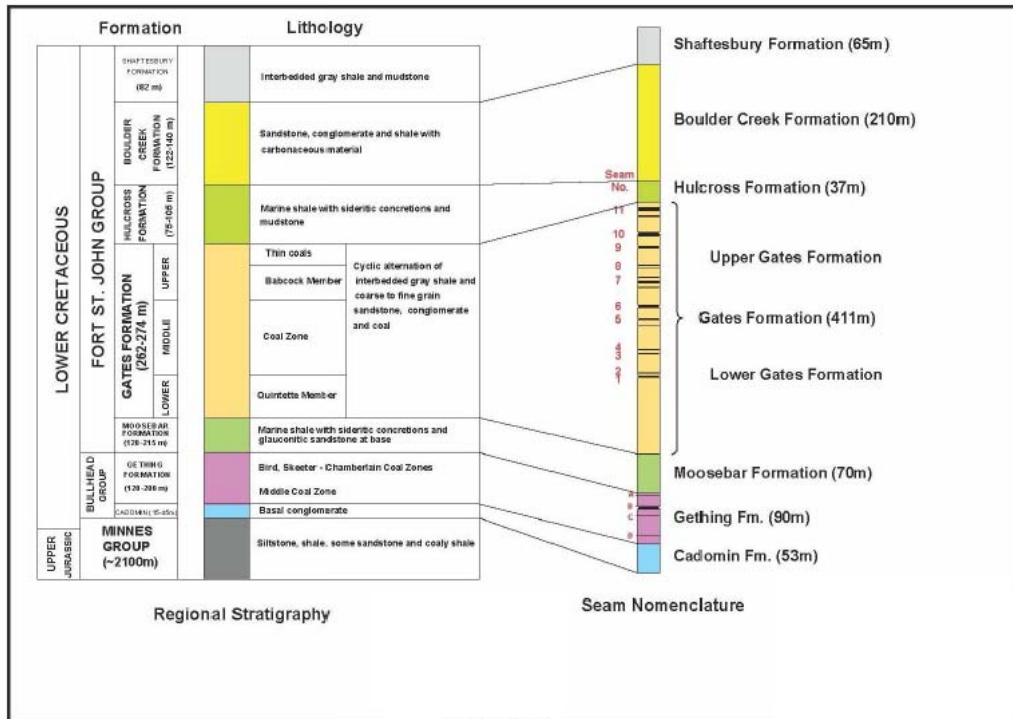


Figure 3.1: Typical stratigraphic section of the Reesor area

The Cadomin Formation unconformably overlies the Minnes Group strata and consists mainly of quartz pebble conglomerate. The Gething Formation conformably overlies the Cadomin Formation and consists predominately of non-marine sediments, although at least one marine horizon of dark gray shale has been identified through past mapping in the surrounding area. The Gething Formation is recognizable not so much by its appearance in outcrop, but by its position between the Cadomin Formation below and the Moosebar Formation recession above.



The Moosebar Formation overlies the Gething Formation and consists of a thick sequence of dark grey marine mudstones and siltstones. The Gates Formation conformably overlies the Moosebar Formation.

The Gates Formation ranges in thickness from 250 m to 300 m. The lower portion of the Gates Formation consists of massive, light-grey, medium-grained sandstone with minor carbonaceous and conglomeratic horizons. Historically, the majority of the coal is confined to the middle and lower Gates Formation, over an interval of approximately 90 m. Only thin seams occur in the upper Gates Formation, just below the Hulcross Formation. The cycles generally represent fining-upward sequences that culminate with coal deposition. Cycles normally begin with laminated, medium to fine-grained sandstone at the base; the sandstone gives way to carbonaceous shale that is in turn overlain by coal.

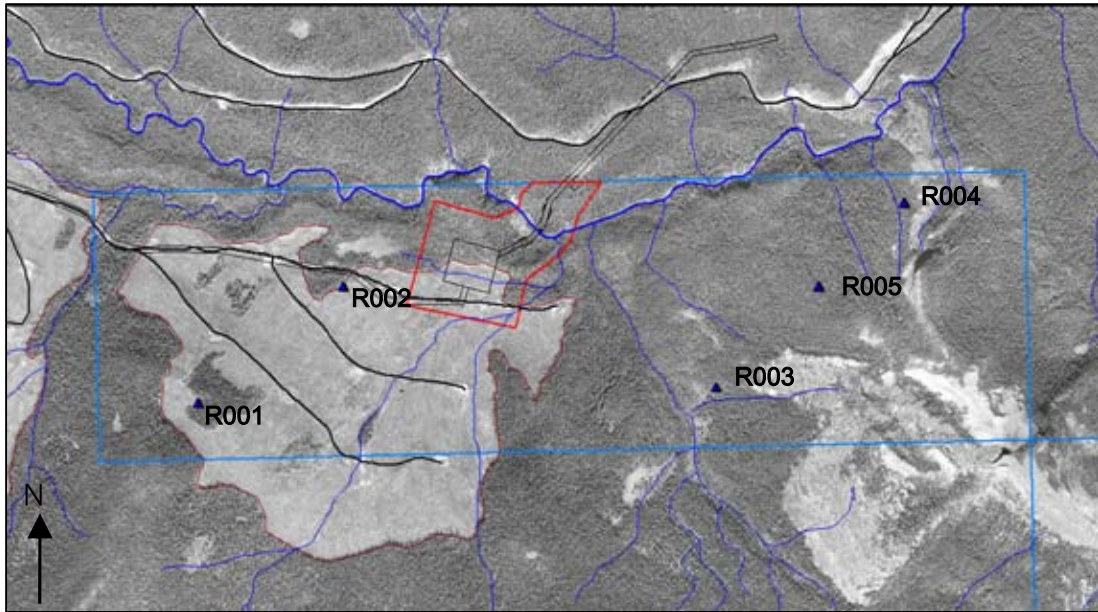
The Hulcross Formation overlies the Gates Formation and consists of a thick sequence of dark marine mudstones. The Boulder Creek Formation overlies the Hulcross Formation and consists of resistant conglomerate and sandstone strata.

#### **4. The 2006 Exploration Program**

##### *4.1. Scope and Objectives*

The 2006 exploration program for the Reesor property consisted of geological mapping with the objective of defining the geological structure and as the region was mapped on a 1:50 000 scale by the Geological Survey of Canada, confirming the stratigraphy of coal-bearing strata. Based on the results obtained from the mapping

program, five borehole locations were planned and subsequently drilled in the fall of 2006. These boreholes were drilled on the area termed, the Reesor North Block property, coal license No. 417040 (Figure 4.1).



*Figure 4.1: Reesor North Block borehole locality plan, license No. 417040 (outlined in blue)*

#### *4.2. Access*

The Reesor North Block property is accessed firstly by the Wolverine road, which runs parallel to the Wolverine River, then by a series of oil and gas service roads, operated and maintained by Talisman Energy Inc. A series of exploration drill roads were constructed to access the five planned borehole locations. Approximately 3.34 km of new exploration trails were construction during the fall of 2006, although a portion of these trails were constructed within existing clear-cuts and exploited existing forestry trails. The relief of the property varies from 1300 to 1800 meters

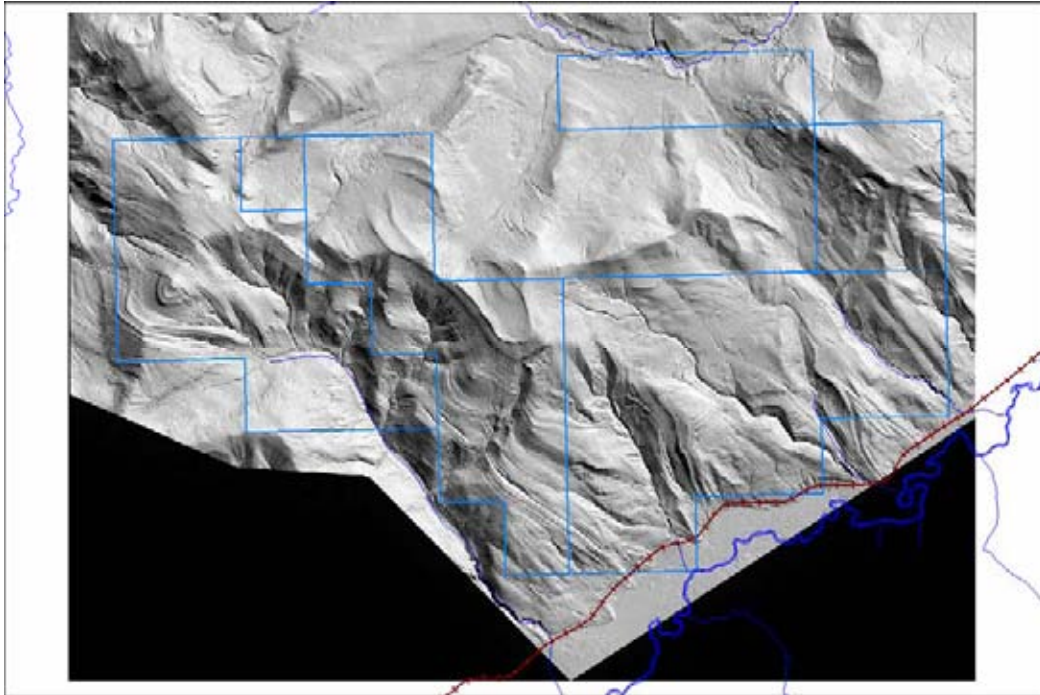
above sea level. The area is covered by spruce forest at the lower elevations and by alpine vegetation at the higher altitudes.

#### *4.3. Mapping and Drilling*

Peace River Coal Incorporated conducted a program of geological mapping on the Reesor license areas, during the summer of 2006. The objective of the geological mapping program was to define the stratigraphy and geological structure of the project area and to some extent the adjoining properties.

A LIDAR image was purchased prior to the commencement of mapping to help with interpretation along strike from exposure and to aid structural interpretation. This image is included on the Reesor Project Data CD (Figure 4.2).

A series of traverses, recording strikes and dips of outcropping strata were taken over the project area and along the Perry Creek. All mapping data is included in Addendum A. A sequence of 1:10,000 scale cross-sections were constructed over the license areas, based primarily on the mapping data collected. These cross-sections were potentially accurate to within 25 to 50 m, depending upon the basic thickness of the stratigraphic unit involved.



*Figure 4.2: Reesor LIDAR Image*

Bedding attitudes were analyzed stereographically and a geologic grid established on paper, designed to provide the best cross-section orientation and structural analysis. The results of the field mapping were compiled on aerial photographs and transferred to a 1:10 000 scale topographic map and lidar images. Major formations, units and structures were outlined partially by compass and partially by photographic evidence.

Two major structural features were determined from the mapping data, including an anticline in the northeastern portion of the Reesor North Block and an open syncline situated on license area, No. 417031 (Figure 4.3). A potential thrust fault, trending NW-SE through the Reesor North Block was mapped in the vicinity of Perry Creek, to the north.

Drilling on the Reesor North Block commenced in mid October of 2006, with a total of five boreholes, spread over two section lines at a spacing interval of approximately 500 m. The position of these boreholes can be observed in Figure 4.1, with their UTM coordinates (NAD 83, Zone 10) attached in Table 4.1.

Geophysical data from the five boreholes indicate that all boreholes were drilled into the Gates Formation, with borehole R001 collaring in the Hulcross Formation and boreholes R002 through R005 intersecting the Gates Formation. The geophysical compensated density logs for all the boreholes are attached in Addendum B and data is included on the Reesor Project Data CD.

*Table 4.1: UTM coordinates of the Reesor North Block boreholes*

Borehole No.	Y	X
R001	6105500.00	605569.00
R002	6105897.30	606069.30
R003	6105543.00	607342.90
R004	6106139.80	608008.20
R005	6105877.40	607692.60

#### *4.4. Reesor North Block - Coal Seam Development and Correlation*

Four stratigraphic units, the Cadomin and Boulder Creek conglomerates, the Moosebar and Hulcross shales, are particularly valuable for regional correlation while the two main coal-bearing units, the Gates and Gething Formations, are less easily distinguished. Reconnaissance mapping located several prominent conglomerate beds associated with the Boulder Creek Formation and exposed as a resistant capping on the crest of the prominent anticline. Unfortunately, none of Cadomin Formation has been exposed within or near the license area.

The Gething and Gates Formations are both historically known to contain seams of metallurgical coal in the Reesor area. Correlations of these two main coal-bearing units within the Reesor area are well established. The nomenclature in the Reesor area follows a convention of naming the Gates Formation coal seams numerically up from the bottom seam and the Gething Formation coal seams alphabetically down from the top of the stratigraphic unit.

#### 4.4.1. Gething Formation coal seams

Up to four Gething Formation coal seams have been identified and correlated regionally. These coal seams are believed to correlate with the four coal seams of the Gething Formation in Reesor area. In descending stratigraphic order these are referred to as the No. A, B, C and D Seams and have been well correlated in the area. The No. B Seam has the thickest coal seam and typically produces a gamma signature similar to that of a bird.

Peace River Coal's exploration in the license area has been focused on coals of both the Gething and Gates Formations. Peace River Coal initially predicted that the Gething Formation would be intersected in boreholes R001 and R002. However, due to the complex structural nature of the license area this resulted in a misinterpretation, as these boreholes were collared in the Hulcross and Gates Formations, respectively. The limited lateral extent and depth below surface of the Gething Formation potentially precludes it from any future exploration on the license area.

**4.4.2. Gates Formation coal seams**

The coal seams of the Gates Formation are well established as the most prolific coal-bearing strata in northeast British Columbia. Significant thicknesses of Gates Formation coal seams first occur in the Bullmoose Mountain area and continue to the provincial border, a distance of almost 140 km, and beyond. Eleven coal seams occur regionally, but only the lower Gates Formation coal seams are developed in the license area. They are named in ascending order from the No. 1 Seam at the base.

Historically, the Gates Formation nomenclature in the Wolverine River area followed the convention of naming the coal seams alphabetically from the top down, with further numerical subdivisions as required. The coal seam naming nomenclature currently used by Peace River Coal is dissimilar to the nomenclatures previously referenced. These differences can be compared in Table 4.2.

*Table 4.2: Coal seam nomenclature in the Reesor area*

<b>PRC Nomenclature</b>	<b>Historical Nomenclature</b>
S5_0	E2 Coal
S4_2	E3 Coal
S3_3	F Coal
S3_1	
S2_1	G Coal
S1_2	J2 Coal
S1_1	J3 Coal

Only the No. 1, 2, 3, 4 and 5 Seams are developed to any significance in the license area. The majority of the coal is confined to an interval of approximately 100 m. The lowest Gates Formation coal seam, the No. 1 Seam, can be correlated throughout the project area. However, there appears to be significant duplication in borehole R002 which made coal seam correlation nearly impossible. Further interpretation is therefore required.

Potential viable thicknesses of the No. 2 and 5 Seams exist along the northern limb of the anticline, at shallow depths. The Gates Formation coal seams are generally between one and two meters in thickness. Coal seam thickness data from the five boreholes drilled can be observed in Table 4.3.



Table 4.3: Apparent and true thickness of the coal seams intersected in the license area

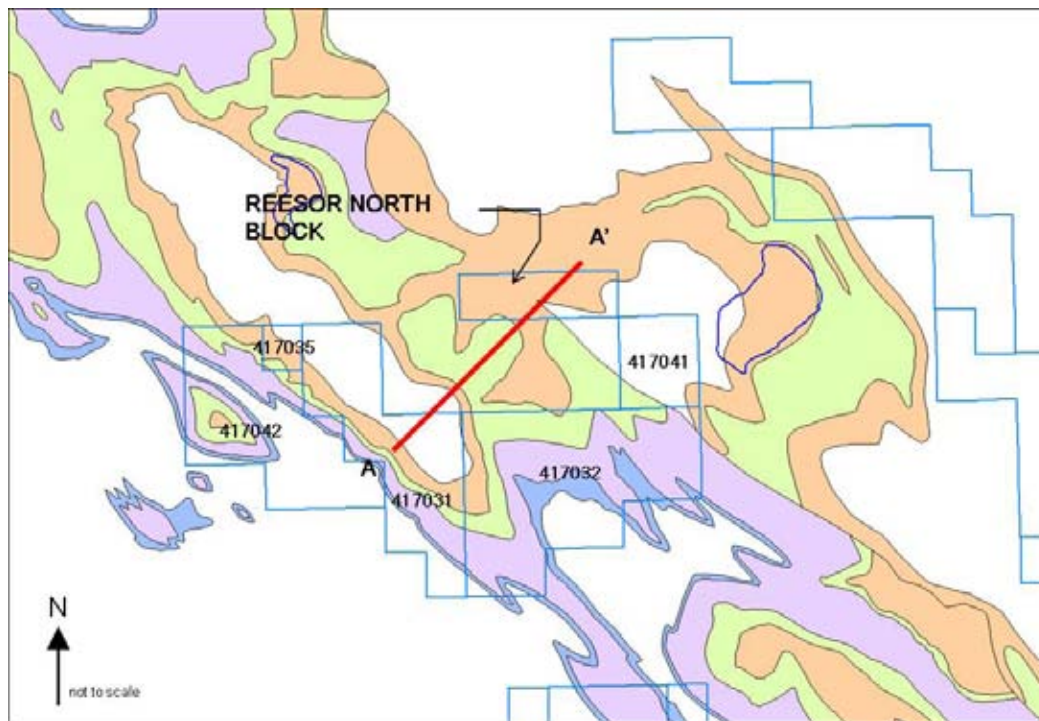
Borehole No.	Seam Name	Apparent Thickness (m)	True Thickness (m)
R001	Gates	all seams < 1.20	
R002	S3_1	1.06	1.04
	S2_3	2.46	2.42
	S2_3	1.34	1.32
	S2_3	1.18	1.16
	S2_2	0.80	0.79
	S2_1	1.64	1.54
	S1_1	0.80	0.75
R003	S4_2	1.46	1.46
	S3_3	0.92	0.92
	S3_1	1.64	1.64
	S2_1	2.08	2.08
	S1_1	2.12	2.12
R004	S5_0	1.58	1.43
	S4_2	1.08	0.98
R005	S5_0	2.20	2.19
	S4_2	0.76	0.76
	S3_3	0.98	0.98
	S3_1	1.42	1.41
	S2_1	2.42	2.38
	S1_1	2.10	2.07

#### 4.5. Reesor North Block - Structure and Cross-sections

The Reesor North Block property covers an area of complex geologic structure. Geological mapping during the summer of 2006 confirmed the presence of macro folding in the Reesor area. An anticline is present in the license area and a syncline on license area, No. 417031, three kilometers to the southwest. In addition, a potential thrust fault was mapped in the vicinity of Perry Creek, to the north. Further

analysis of the subsurface structure was undertaken upon commencement of the 2006 drill program.

A second thrust fault was located based on the geophysical data and again confirmed through mapping along the Perry Creek. Further interpretations were made once the drilling program was completed, and a 1:10 000 cross-section was constructed through boreholes R003 – R005. The location of the cross-section can be observed in Figure 4.2 and structural cross-section A-A' is shown in Figure 4.4. The cross-section was drawn at an azimuth of 045° NE/SW.



*Figure 4.3: Location of cross-section A'-A over the Reesor North Block property and license area, No. 417031, superimposed on the regional geology*

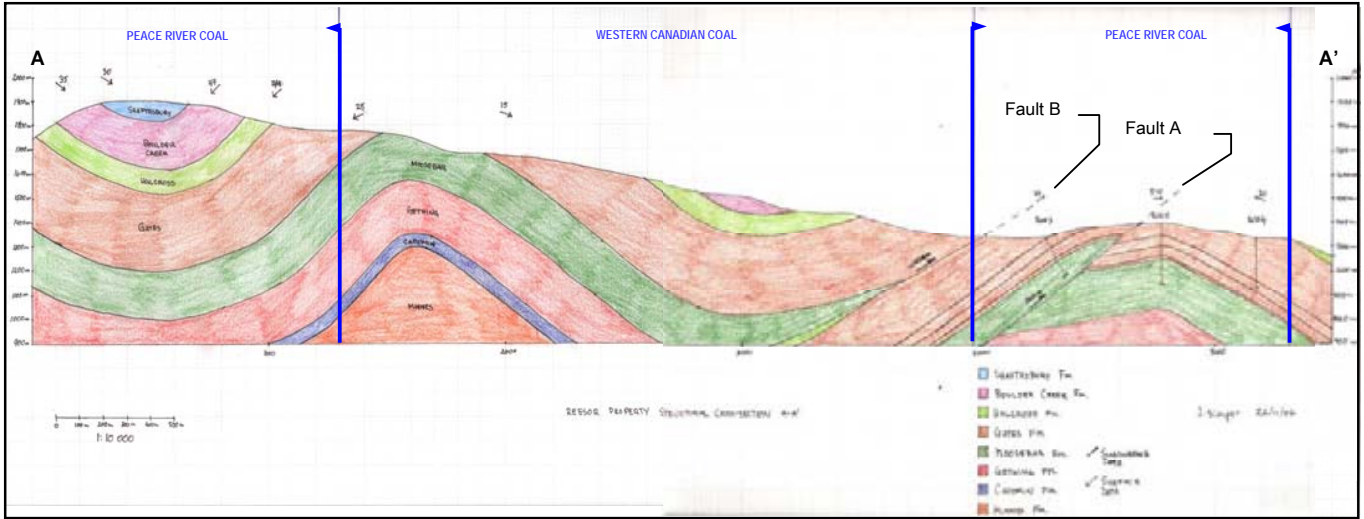
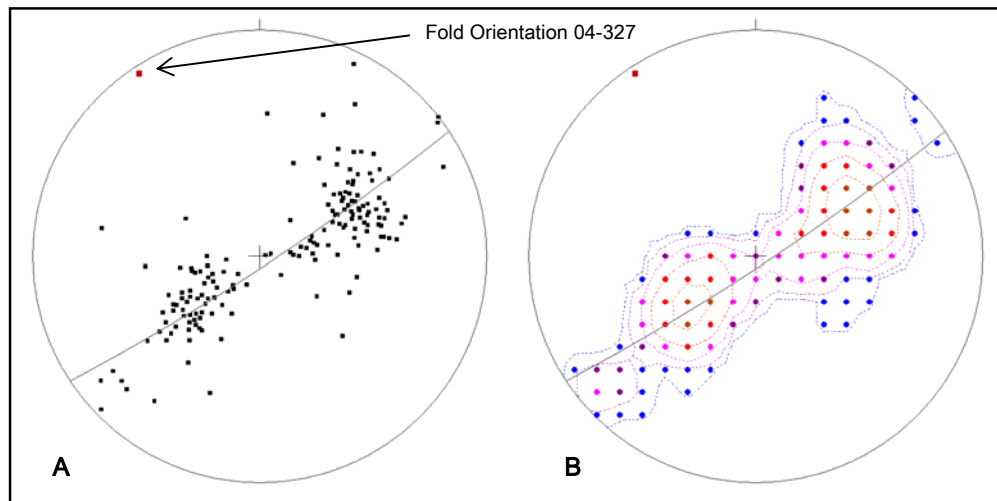


Figure 4.4: Reesor North Block property structural cross-section A-A'

Cross-section A-A' incorporates both surface mapping data, as well as subsurface borehole data. Four major structures are shown, namely the Reesor North Block anticline, adjacent syncline and thrust Faults A and B. Additionally, selected Gates Formation coal seam intersections from boreholes R003 through R005 are shown on the northwestern side of the section. Due to the scale of the section only three of the seams were included, they are, in ascending order, the No. S1\_1, S2\_1 and S4\_2 coal seams.

The central portion of the cross-section may require further interpretation once additional mapping or drilling data is available. At present there is little surface data available to confirm the presence of both the Hulcross and Boulder Creek Formations, thus it is possible that the Gates Formation flattens out significantly and as such is the only formation exposed at surface.

The main fold within the Reesor North Block is a northwest plunging anticline which runs through the eastern portion of the project area. Surface mapping also determined that there is a northwest plunging syncline on a peak to the southwest. Stereonet plots of all structural mapping data, as shown in Figure 4.4, indicate a general orientation of both folds at  $04^{\circ}$ – $327^{\circ}$  (trend–plunge). The anticline is truncated by a thrust Fault A, with a throw of approximately 200 m. While no evidence was found at surface during the course of the mapping program, evidence from geophysical borehole data indicates the presence of Fault A. The Gates Formation is repeated on the up-thrown portion of the fault to the west. There is also evidence based on surface and subsurface data, of a second, much larger fault (Fault B), to the west of Fault A. The approximate throw of Fault B is 1500 m. The Gates Formation is repeated on the western up-thrown portion of the fault, resulting in significant horizontal thickening of the Gates Formation at surface, as substantiated by mapping data.



*Figure 4.5: Stereonet plots of all Reesor structural mapping data.*

Currently there has only been one section drawn through the Reesor North Block which incorporates both surface and subsurface data. Further exploration is required to constrain the behavior of the Gates Formation, as well any additional structural features.

## 5. Reclamation

Peace River Coal has an environmental policy to keep disturbance related to exploration activities, contained to the smallest practical area. Existing roads were used as much as possible on the Reesor North Block property. Approximately 3.34 km of new exploration trails were constructed. This meant that in 2006, new surface disturbance was limited to 1.81 hectares. At the end of the drill program, the Tumbler Ridge area experienced early, heavy snow, which precluded the completion of reclamation. As a result, it was not possible to begin rehabilitation in fall. Decommissioning of trails and reseeded will take place as early as possible in 2007.

## 6. Expenditure

The expenditure for the 2006 exploration drill program on the Reesor North Block property is summarized in Table 5.1.

*Table 5.1: 2006 drill program costs for the Reesor North Block property.*

Activity	Amount (CAD)
Drilling	\$113,922.44
Road Construction	\$51,494.80
Geophysics	\$12,096.86
Survey	\$ 863.90
<b>TOTAL</b>	<b>\$178,378.00</b>

Total expenditure allocated to the entire Reesor Block, including acquisition of a Lidar image, mapping, helicopter support, targeting and staff, was **\$369,418.00**.

## **7. Conclusions**

The 2006 exploration program of geological mapping and drilling confirmed the presence of Gates Formation coal seams in the Reesor North Block property and defined the geological structure of the area.

No evidence of the Cadomin Formation and upper Minnes Group strata were established. The Gething Formation was mapped on adjoining license areas during the mapping programs, but these coal seams were not investigated during this drill program.

The lower Gates Formation coal seams appear to have the best potential for exploitation, due to their thickness and potential metallurgical coal properties. More work will be needed to provide coal quality data and to establish seam thickness variations, given the structural complexity of the area.

## APPENDIX A

PROJECT NAME	STATION NO	UTM EAST	UTM NORTH	ELEVATION	DATE	LITHOLOGY	FORMATION	S0 STRIKE	S0 DIP	DIP AZ	DIP DIR
Reesor	50142	602765	6105532	1550	7/14/2006	Sandstone / Shale	Gates	143	39	233	SW
Reesor	50143	603530	6105352	1594	7/14/2006	Sandstone	Gates	126	49	216	SW
Reesor	50144	604122	6102205	1685	7/15/2006	Sandstone	Gates	331	36	61	NE
Reesor	50145	604176	6102267	1699	7/15/2006	Sandstone	Gates	330	35	60	E
Reesor	50146	604217	6102387	1709	7/15/2006	Sandstone	Gates	337	36	67	E
Reesor	50147	604248	6102434	1730	7/15/2006	Sandstone / Conglomerate	Gates	352	29	82	E
Reesor	50148	604251	6102428	1726	7/15/2006	Mudstone	Gates				
Reesor	50149	604415	6102576	1820	7/15/2006	Conglomerate / Sandstone	Boulder Creek	322	35	52	E
Reesor	50150	604446	6102555	1812	7/15/2006	Conglomerate	Boulder Creek	325	42	55	E
Reesor	50151	604437	6102552	1807	7/15/2006	Sandstone	Boulder Creek/Gates Cnct	328	37	58	E
Reesor	50152	604471	6102529	1801	7/15/2006	Conglomerate / Sandstone	Boulder Creek	318	46	48	NE
Reesor	50153	604487	6102521	1797	7/15/2006	Conglomerate / Sandstone	Boulder Creek/Gates Cnct	325	34	55	E
Reesor	50154	604542	6102495	1774	7/15/2006	Conglomerate / Sandstone	Boulder Creek/Gates Cnct	314	31	44	NE
Reesor	50155	604624	6102445	1759	7/15/2006	Conglomerate / Sandstone	Boulder Creek/Gates Cnct	320	33	50	NE
Reesor	50156	604699	6102400	1738	7/15/2006		Boulder Creek/Gates Cnct				
Reesor	50158	604720	6102392	1724	7/15/2006		Gates	316	33	46	W
Reesor	50159	604792	6103197	1926	7/16/2006	Conglomerate	Boulder Creek	162	46	252	W
Reesor	50160	604769	6103318	1929	7/16/2006	Sandstone	Boulder Creek	171	45	261	W
Reesor	50161	604788	6103389	1931	7/16/2006	Sandstone	Boulder Creek	159	42	249	W
Reesor	50162	604802	6103454	1945	7/16/2006	Conglomerate / Sandstone	Boulder Creek	169	35	259	SW
Reesor	50163	604799	6103542	1962	7/16/2006	Conglomerate / Sandstone	Boulder Creek	154	42	244	SW
Reesor	50164	604822	6103537	1944	7/16/2006	Conglomerate	Boulder Creek	159	39	249	SW
Reesor	50165	604834	6103532	1943	7/16/2006	Sandstone	Boulder Creek	156	37	246	SW
Reesor	50166	604839	6103533	1924	7/16/2006	Sandstone	Hulcross	143	88	233	SW
Reesor	50167	604851	6103537	1925	7/16/2006	Siltstone	Hulcross	154	42	244	SW
Reesor	50168	605230	6103585	1828	7/16/2006	Sandstone	Gates	155	29	245	SW
Reesor	50169	605052	6103688	1836	7/16/2006	Sandstone / Shale	Gates	143	31	233	SW
Reesor	50170	605157	6103582	1841	7/16/2006	Sandstone	Gates	132	35	222	SW
Reesor	50171	605141	6103596	1832	7/16/2006	Sandstone	Gates	148	42	238	SW
Reesor	50172	605179	6103579	1829	7/16/2006	Sandstone	Gates	154	37	244	SW
Reesor	50173	605199	6103609	1837	7/16/2006	Sandstone	Gates	150	37	240	SW



Reesor	50174	605212	6103608	1830	7/16/2006	Sandstone	Gates	142	37	232	SW
Reesor	50175	605246	6103591	1825	7/16/2006	Sandstone	Gates	170	17	260	W
Reesor	50176	605239	6103592	1829	7/16/2006	Sandstone	Gates	171	25	261	W
Reesor	50177	605255	6103583	1824	7/16/2006	Sandstone	Gates	184	20	274	W
Reesor	50178	605353	6103633	1776	7/16/2006	Sandstone	Gates	180	14	270	W
Reesor	50179	605508	6103613	1758	7/16/2006	Sandstone	Gates	295	11	25	NE
Reesor	50180	605563	6103617	1759	7/16/2006	Sandstone	Gates	322	10	52	NE
Reesor	50181	605617	6103631	1763	7/16/2006	Sandstone	Gates	221	10	311	NW
Reesor	50182	605664	6103654	1778	7/16/2006	Sandstone	Gates	354	12	84	NE
Reesor	50183	605953	6103745	1777	7/16/2006	Sandstone	Gates	309	15	39	NE
Reesor	50188	605244	6103525	1800	19-Jul-06	Sandstone	Gates	164	41	254	W
Reesor	50189	605227	6103524	1814	19-Jul-06	Sandstone	Gates	149	39	239	SW
Reesor	50190	605186	6103222	1750	19-Jul-06	Sandstone	Gates	158	46	248	W
Reesor	50191	605145	6103240	1766	19-Jul-06	Sandstone	Gates	154	44	244	W
Reesor	50192	605156	6103240	1763	19-Jul-06	Shale	Gates				
Reesor	50193	605162	6103247	1761	19-Jul-06	Coal	Gates				
Reesor	50194	605279	6103199	1697	19-Jul-06	Sandstone	Gates	160	33	250	W
Reesor	50195	605549	6102358	1624	21-Jul-06	Sandstone	Gates	152	32	242	W
Reesor	50196	605600	6102325	1576	21-Jul-06	Sandstone	Gates	145	40	235	SW
Reesor	50197	605604	6102308	1568	21-Jul-06	Sandstone	Gates	154	40	244	SW
Reesor	50198	605606	6102272	1550	21-Jul-06	Sandstone	Gates	145	37	235	SW
Reesor	50199	605602	6102262	1541	21-Jul-06	Sandstone	Gates	140	42	230	SW
Reesor	50200	605545	6102245	1531	21-Jul-06	Sandstone	Gates	162	40	252	SW
Reesor	50201	605660	6102292	1530	21-Jul-06	Sandstone	Gates	141	44	231	WSW
Reesor	50202	605679	6102242	1475	21-Jul-06	Sandstone	Gates	140	35	230	WSW
Reesor	50203	605706	6102224	1459	21-Jul-06	Sandstone	Gates	158	31	248	SW
Reesor	50204	605728	6102215	1432	21-Jul-06	Shale	Moosebar				
Reesor	50205	605670	6102115	1428	21-Jul-06	Sandstone	Gates	167	40	257	W
Reesor	50206	605668	6102072	1422	21-Jul-06	Sandstone	Gates	174	36	264	NW
Reesor	50207	605618	6102018	1401	21-Jul-06	Sandstone	Gates	179	28	269	NW
Reesor	50208	605580	6101981	1390	21-Jul-06	Sandstone	Gates	151	31	241	NW
Reesor	50209	604841	6101960	1592	21-Jul-06	Sandstone	Gates	355	42	85	SE
Reesor	50210	604803	6103144	1918	22-Jul-06	Conglomerate	Boulder Creek	158	36	248	W
Reesor	50211	604830	6103146	1906	22-Jul-06	Sandstone	Boulder Creek	157	50	247	W

Reesor	50212	604808	6103107	1908	22-Jul-06	Conglomerate	Boulder Creek	157	50	247	W
Reesor	50213	604828	6103095	1908	22-Jul-06	Sandstone	Boulder Creek	163	48	253	W
Reesor	50214	604801	6103055	1892	22-Jul-06	Conglomerate	Boulder Creek	148	31	238	SW
Reesor	50215	604829	6103048	1898	22-Jul-06	Conglomerate	Boulder Creek	161	32	251	W
Reesor	50216	604870	6103040	1888	22-Jul-06	Sandstone	Boulder Creek	160	50	250	W
Reesor	50217	604894	6103027	1865	22-Jul-06	Conglomerate / Sandstone	Boulder Creek	140	47	230	SW
Reesor	50218	604868	6103114	1878	22-Jul-06	Conglomerate / Sandstone	Boulder Creek	167	54	257	W
Reesor	50219	604879	6103139	1867	22-Jul-06	Sandstone / Conglomerate	Boulder Creek	155	40	245	SW
Reesor	50220	604817	6102971	1887	22-Jul-06	Conglomerate	Boulder Creek	163	19	253	WSW
Reesor	50221	604864	6102950	1891	22-Jul-06	Sandstone	Boulder Creek	164	36	254	SW
Reesor	50222	604861	6102985	1899	22-Jul-06	Sandstone	Boulder Creek	158	25	248	SW
Reesor	50223	604877	6102868	1878	22-Jul-06	Sandstone / Conglomerate	Boulder Creek	177	19	267	W
Reesor	50224	604856	6102872	1885	22-Jul-06	Conglomerate	Boulder Creek	159	20	249	SW
Reesor	50225	604891	6102802	1879	22-Jul-06	Conglomerate	Boulder Creek	169	21	259	W
Reesor	50226	604847	6102811	1878	22-Jul-06	Conglomerate	Boulder Creek	166	20	256	W
Reesor	50227	604853	6102684	1864	22-Jul-06	Conglomerate	Boulder Creek	178	12	268	W
Reesor	50228	604826	6102661	1858	22-Jul-06	Conglomerate	Boulder Creek	173	11	263	W
Reesor	50229	604811	6102643	1851	22-Jul-06	Conglomerate	Boulder Creek	167	15	257	W
Reesor	50230	604792	6102633	1849	22-Jul-06	Conglomerate	Boulder Creek	168	4	258	W
Reesor	50231	604697	6102636	1848	22-Jul-06	Conglomerate	Boulder Creek	337	14	67	E
Reesor	50232	604641	6102641	1857	22-Jul-06	Conglomerate	Boulder Creek	313	14	43	NE
Reesor	50233	604544	6102664	1872	22-Jul-06	Conglomerate	Boulder Creek	312	17	42	E
Reesor	50234	604498	6102682	1884	22-Jul-06	Conglomerate	Boulder Creek	310	27	40	NE
Reesor	50235	604478	6102748	1886	22-Jul-06	Conglomerate / Sandstone	Boulder Creek	334	22	64	NE
Reesor	50236	604433	6102757	1895	22-Jul-06	Conglomerate	Boulder Creek	325	34	55	NE
Reesor	50237	604398	6102820	1890	22-Jul-06	Conglomerate	Boulder Creek	317	35	47	NE
Reesor	50238	604346	6102902	1889	22-Jul-06	Conglomerate	Boulder Creek	310	40	40	NE
Reesor	50239	604310	6102942	1881	22-Jul-06	Conglomerate	Boulder Creek	332	32	62	NE
Reesor	50240	604307	6102926	1868	22-Jul-06	Sandstone	Boulder Creek	318	31	48	NE
Reesor	50241	604269	6103017	1884	22-Jul-06	Sandstone	Boulder Creek	313	34	43	NE
Reesor	50242	604154	6103154	1871	22-Jul-06	Conglomerate / Sandstone	Boulder Creek	323	52	53	NE
Reesor	50243	603867	6103316	1869	22-Jul-06	Conglomerate / Sandstone	Boulder Creek	314	37	44	NE

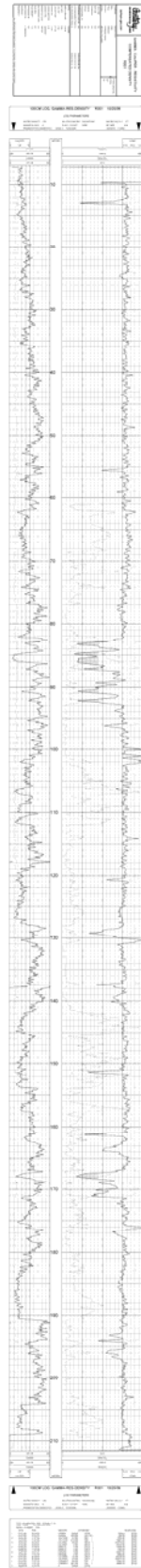
Reesor	50244	604115	6103184	1867	22-Jul-06	Sandstone	Boulder Creek	319	26	49	NE
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Reesor	50246	603939	6103248	1840	22-Jul-06	Conglomerate	Boulder Creek	304	47	34	NE
Reesor	50247	604224	6102133	1650	25-Jul-06	Sandstone	Gates	328	31	58	NE
Reesor	50248	604340	6102095	1604	25-Jul-06	Sandstone	Gates	330	41	60	NE
Reesor	50249	603965	6101874	1526	25-Jul-06	Conglomerate	Gething	310	34	40	NE
Reesor	50250	603939	6101896	1328	25-Jul-06	Conglomerate	Gething	340	18	70	NE
Reesor	50251	603957	6101917	1534	25-Jul-06	Sandstone	Gething	338	20	68	NE
Reesor	50252	603840	6101599	1463	25-Jul-06	Conglomerate	Cadomin	315	72	45	NE
Reesor	50253	603925	6101512	1448	25-Jul-06	Conglomerate	Cadomin	306	68	36	NE
Reesor	50254	603956	6101423	1429	25-Jul-06	Conglomerate	Cadomin	322	71	52	NE
Reesor	50255	604066	6101387	1417	25-Jul-06	Conglomerate	Cadomin	318	71	48	NE
Reesor	50256	604379	6101676	1428	25-Jul-06	Sandstone	Gething	346	22	76	E
Reesor	50257	604458	6101659	257	25-Jul-06	Sandstone	Gething	326	27	56	NE
Reesor	50258	604568	6101632	1422	25-Jul-06	Sandstone	Gething	316	29	46	NE
Reesor	50259	604603	6101500	1437	25-Jul-06	Sandstone	Gething	295	33	25	NE
Reesor	50260	604560	6101397	1440	25-Jul-06	Sandstone	Gething	330	29	60	NE
Reesor	50261	604569	6101310	1442	25-Jul-06	Sandstone	Gething	27	30	117	E
Reesor	50262	604754	6101452	1472	25-Jul-06	Mudstone	Moosebar				
Reesor	50263	604845	6101414	1480	25-Jul-06	Sandstone / Mudstone	Moosebar / Gates Contact	324	19	54	NE
Reesor	50264	604882	6101481	1515	25-Jul-06	Sandstone	Gates	308	22	38	NE
Reesor	50265	606027	6102231	1448	26-Jul-06	Sandstone	Gething	177	43	267	W
Reesor	50266	606111	6102265	1432	26-Jul-06	Conglomerate / Sandstone	Gething	192	36	282	W
Reesor	50267	606096	6102211	1433	26-Jul-06	Conglomerate / Sandstone	Gething	224	42	314	NW
Reesor	50268	606078	6102110	1407	26-Jul-06	Sandstone	Gething	166	46	256	W
Reesor	50269	606117	6102077	1404	26-Jul-06	Sandstone	Gething	158	43	248	W
Reesor	50270	606290	6102132	1424	26-Jul-06	Sandstone & Conglomerate		138		228	
Reesor	50271	606438	6101966	1452	26-Jul-06	Conglomerate	Cadomin	151	35	241	W
Reesor	50272	606475	6101895	1423	26-Jul-06	Conglomerate	Cadomin	132	52	222	W
Reesor	50273	606536	6101806	1397	26-Jul-06	Conglomerate	Cadomin	121	42	211	W
Reesor	50274	606612	6101724	1383	26-Jul-06	Conglomerate	Cadomin	144	55	234	W
Reesor	50275	606663	6101642	1353	26-Jul-06	Conglomerate	Cadomin	140	35	230	W
Reesor	50276	606688	6101544	1326	26-Jul-06	Conglomerate	Cadomin	143	51	233	W
Reesor	50277	606700	6101416	1314	26-Jul-06	Conglomerate	Cadomin	165	45	255	W

Reesor	50278	606712	6101343	1307	26-Jul-06	Conglomerate	Cadomin	173	51	263	W
Reesor	50378	608029	6105429	1568	12-Sep-06	Sandstone	Unknown				
Reesor	50379	608127	6105399	1594	12-Sep-06	Conglomerate / Sandstone	Unknown				
Reesor	50380	608310	6105311	1629	12-Sep-06	Conglomerate / Sandstone	Boulder Creek	154	49	244	SW
Reesor	50381	608308	6105317	1639	12-Sep-06	Sandstone	Boulder Creek	122	68	212	SW
Reesor	50382	608423	6105232	1686	12-Sep-06	Sandstone	Boulder Creek	149	56	239	SW
Reesor	50383	608498	6105158	1684	12-Sep-06	Conglomerate	Boulder Creek	138	57	228	SW
Reesor	50384	608542	6105170	1694	12-Sep-06	Sandstone	Boulder Creek	321	24	51	NE
Reesor	50385	608568	6105262	1680	12-Sep-06	Sandstone	Boulder Creek	320	40	50	NE
Reesor	50386	608422	6105369	1651	12-Sep-06	Sandstone	Boulder Creek	346	24	76	ENE
Reesor	50387	608358	6105356	1665	12-Sep-06	Siltstone / Mudstone	Hulcorss	350	19	80	E
Reesor	50388	608147	6105573	1591	12-Sep-06	Siltstone / Mudstone	Hulcorss	114	58	204	SW
Reesor	50389	607971	6106448	1479	13-Sep-06	Sandstone	Gething	170	2	260	W
Reesor	50390	607829	6106437	1249	13-Sep-06	Sandstone	Gething	296	23	26	SSW
Reesor	50391	607448	6106295	1257	13-Sep-06	Siltstone / Mudstone	Moosebar				
Reesor	50392	607346	6106251	1258	13-Sep-06	Sandstone	Unknown	10	60	100	E
Reesor	50393	606902	6106120	1260	13-Sep-06	Sandstone / Siltstone	Gates?	142	43	232	SW
Reesor	50394	606846	6106102	1263	13-Sep-06	Sandstone	Gates?	136	46	226	SW
Reesor	50395	606690	6106147	1266	13-Sep-06	Sandstone / Siltstone	Gates?	134	54	224	SW
Reesor	50396	606659	6106181	1273	13-Sep-06	Sandstone / Siltstone	Gates?	146	50	236	SW
Reesor	50397	606550	6106218	1262	13-Sep-06	Siltstone / Mudstone	Unknown	323	46	53	NE
Reesor	50398	606548	6106328	1274	13-Sep-06	Sandstone	Gates?	171	46	261	W
Reesor	50399	606489	6106297	1302	13-Sep-06	Siltstone / Mudstone	Unknown	319	43	49	NE
Reesor	50400	606258	6106176	1279	16-Sep-06	Siltstone	Gates?	142	90	232	Vert
Reesor	50501	606311	6106189	1292	16-Sep-06	Sandstone / Siltstone	Gates?	154	79	244	WSW
Reesor	50502	606356	6106285	1290	16-Sep-06	Sandstone / Mudstone	Gates?	202	35	292	W
Reesor	50503	606335	6106245	1291	16-Sep-06	Sandstone / Mudstone	Gates?	172	48	262	SW
Reesor	50504	606206	6106202	1299	16-Sep-06	Sandstone / Siltstone	Gates?	165	56	255	W
Reesor	50505	606017	6106301	1306	16-Sep-06	Siltstone / Mudstone	Unknown	146	36	236	SW
Reesor	50506	605814	6106264	1308	16-Sep-06	Shale / Mudstone	Unknown				
Reesor	50507	605609	6106331	1314	16-Sep-06	Siltstone	Unknown	110	36	200	S
Reesor	50508	604915	6105104	1439	18-Sep-06	Conglomerate	Unknown				
Reesor	50509	604697	6105142	1482	18-Sep-06	Mudstone / Siltstone?	Unknown				

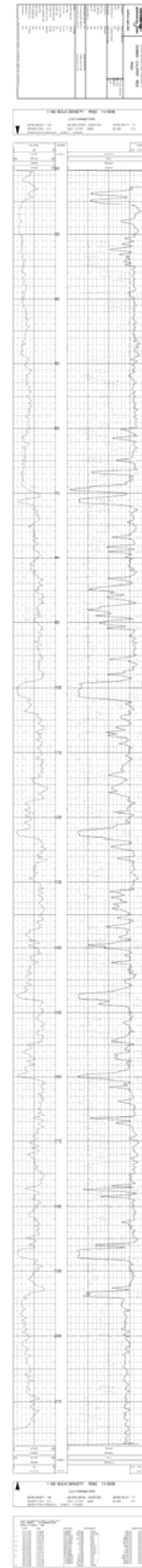
Reesor	50510	604956	6105780	1409	18-Sep-06	Conglomerate	Unknown				
Reesor	50511	602799	6105488	1529	18-Sep-06	Sandstone / Mudstone	Gates?	150	40	240	W
Reesor	50512	604594	6106415	1388	18-Sep-06	Siltstone / Mudstone	Unknown				
Reesor	50513	604929	6106733	1326	18-Sep-06	Mudstone	Unknown				
Reesor	50514	604756	6106936	1350	18-Sep-06	Mudstone	Unknown				
Reesor	50515	604639	6107436	1455	18-Sep-06	Conglomerate / Mudstone	Gates?	322	78	52	E
Reesor	50516	604573	6107445	1454	18-Sep-06	Conglomerate / Sandstone	Gates?	116	84	206	W
Reesor	50517	604853	6107492	1468	18-Sep-06	Siltstone / Mudstone	Unknown	215	25	305	W
Reesor	50518	605105	6107216	1437	18-Sep-06	Conglomerate / Sandstone	Gates?	290	54	20	NNE
Reesor	50519	605900	6106633	1396	18-Sep-06	Sandstone / Siltstone	Gates?	316	87	46	NE
Reesor	50520	606364	6106702	1372	18-Sep-06	Sst / Sist/ Mst	Unknown	130	44	220	SW
Reesor	50401	607958	6106109	1395	3-Sep-06	sandstone	Gates	none			
Reesor	50402	608067	6106235	1361	3-Sep-06	sandstone & conglomerate	Gates	348	25	78	E
Reesor	50403	608079	6106219	1360	3-Sep-06	sandstone	Gates	0	19	90	E
Reesor	50404	608036	6106163	1374	3-Sep-06	sandstone	Gates	130	17	220	SW
Reesor	50405	608026	6106149	1386	3-Sep-06	sandstone & conglomerate	Gates	93	53	183	S
Reesor	50406	608044	6105988	1436	3-Sep-06	siltstone (+/- mudstone)	Hullcross	350	25	80	NE
Reesor	50407	608028	6105986	1442	3-Sep-06	siltstone	Hullcross	334	28	64	NE
Reesor	50408	608004	6105958	1458	3-Sep-06	siltstone (+/- mudstone)	Hullcross	326	25	56	E
Reesor	50409	607988	6105937	1460	3-Sep-06	siltstone (+/- mudstone)	Hullcross	332	19	62	E
Reesor	50410	608017	6105894	1486	3-Sep-06	sandstone and siltstone	Boulder Creek	318	22	48	E
Reesor	50411	608038	6105895	1508	3-Sep-06	conglomerate	Boulder Creek	335	31	65	E
Reesor	50412	608074	6105765	1539	3-Sep-06	conglomerate	Boulder Creek				
Reesor	50413	607935	6105669	1531	3-Sep-06	conglomerate	Boulder Creek				

## **APPENDIX B**

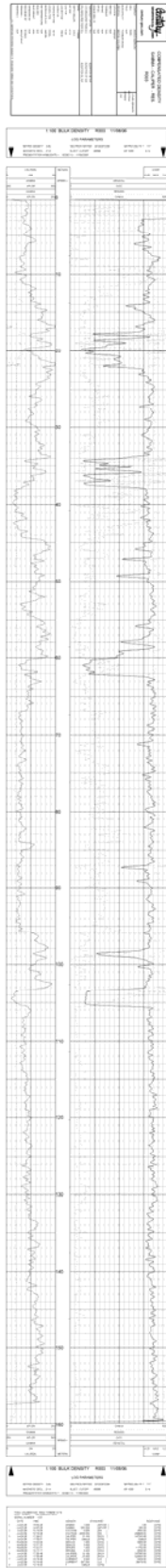
Borehole R001



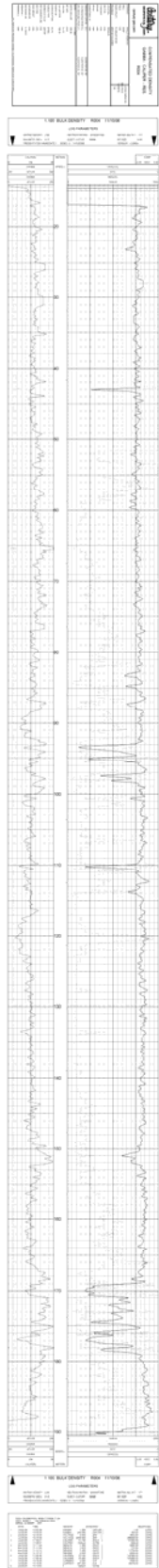
Borehole R002



Borehole R003



Borehole R004



Borehole R005

