



First Coal Corporation

#904

2007 Coal Assessment Report
Central South Property

**2007 COAL ASSESSMENT REPORT
FOR THE
CENTRAL SOUTH COAL PROPERTY**

LIARD MINING DIVISION

NORTHEAST BRITISH COLUMBIA
Centered at 6,145,000 N and 542,000 E (NAD 83)

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Abbreviation	Description
bcm	Bank cubic metre
bcm/t	Bank cubic metre per tonne
CSR	Coke strength after reaction
ddpm	Dial divisions per minute
FSI	Free swelling index
HGI	Hardgrove Grindability Index
kg	Kilogram
m	Metre
PCI	Pulverized coal injection
psi	Pounds per square inch
Ro	Reflectance, mean maximum, (%) of vitrinite in oil
SG	Specific gravity
t	tonne



2.0 SUMMARY

The work during 2007 that was completed on the Central South Property consisted of core drilling, trenching and property evaluation.

Moose Mountain Technical Services (MMTS) was retained by First Coal Corporation (First Coal) to review the geology of the Central South project area, build a computer model, generate a resource estimate, and recommend an infill drilling program.

First Coal is a private company with its head offices in Vancouver. The company holds coal licenses in the Pine River area, approximately 60km west of the town of Chetwynd. The coal licences are located south of Highway 97 and 15km southwest of the Willow Creek Mine. Its approximate centre is 6,145,000 North and 542,000 East (UTM NAD 83).

The property consists of independent and contiguous groups of licences, 55 licences, and 13 licence applications. The total area of the tenured licences is 52,802ha while 38,185ha are under application. The coal licences are registered in the name of First Coal Corporation, of Vancouver, B.C. There are no underlying agreements or royalties on the property.

The Gething Formation hosts the coal-bearing strata on the property. A total of 29 coal seams have been modeled, within a stratigraphic section up to 500m thick. The Property is characterized by geology that is complex, both with respect to stratigraphy and structure. The geology was originally defined by earlier work of geologists from Gulf Canada and First Coal. First Coal has drilled 147 holes on the property, totaling 22,856.41m, between 2005 and the end of July 2008. Of the total drillholes, 35 were used to develop the current geological model in the northwest part of the property. The company is still drilling to further define the resources and upgrade the geologic model.

Seventy one core hole analysis from drill lines A through C4 were used to characterize the coking potential of nine of the fifteen mineable coal seams over a 2.4 kilometer strike length.

The rank index (the stage of coalification, as determined by the mean maximum reflectance of vitrinite in oil %, Ro) of these coals ranges from Ro 1.41 in the lower B1 seam to 1.22 in the upper H3 seam, placing all of these coals in the mid volatile bituminous range. The Free Swelling Index (FSI, a preliminary test of a coals coking ability) from 1 to 8 and are influenced by in seam ash content and more particularly petrographic composition measured as inert and reactive organic macerals.

A comparison of ash values, FSI and Reactive macerals was undertaken for each seam to determine consistency of these parameters within each seam and characterize each as either coking coal or weak coking coal/PCI (pulverized coal injection) type. The analysis showed that petrographic composition appears to be the determining factor, with those seams having high reactivities having the best coking potential.

Seams A4, B1, E1, F2 and F4 are all considered good coking coal potential coals (Figure 3-3). FSI values range from 4 to 7.5 (influenced by seam ash content) and Reactive macerals are all greater than 75%.



Seams B2, C2, and D are considered weak coking/PCI coals. FSI values range from 1 to 4 and Reactive macerals from 47.9% to 71.8%. Seams B2 and D have very low ash content (3% to 10%) and offer potential for a direct shipping coal product. Seam C2 is higher in ash content and appears to be most variable in petrographic composition.

Evaluation is presently underway for the uppermost G and H series coal seams. Preliminary results show good coking potential for the G2, G3, and H3 seams based on limited data from two core holes.

A Washability Study was undertaken by GWIL Industries, Birtley Coal and Minerals Testing Division (Birtley) on a 2.4 kilogram bulk sample extracted from the F4 Seam. The results showed that the 12.98% raw coal could be washed at a 9.0% clean product at a theoretical yield of 90% at 1.50 SG. The coal is relatively easy to clean with good separation between coal and ash material. Further tests are underway and scheduled for the E2 seam, D seam, C seam and E1 seam.

The clean F4 seam bulk sample was sent to Consol Energy's pilot coke plant, in Liberty Pennsylvania, for carbonization testing. Results from the 18 inch moveable wall coke oven test showed a good Coke Stability of 56 and an excellent Coke Strength Ratio (CSR) value of 69 which is attributed to the low alkaline content of the coal. The coke was contracting and produced a low peak wall pressure of 0.34 psi. The Fluidity was low at 2 ddpm which indicates a high viscosity in the Reactive macerals. The consequence was a relatively high 17.3% minus 0.5 inch coke screen fraction. The coal would appear to be best optimized in a blend with a higher Fluidity coal type.

Follow up Coking test are planned for the E1 seam bulk sample.

MMTS has modeled the deposit as geologically complex using MineSight™ software and resources have been estimated for the Central South deposit. Only areas that can be surface mined have been targeted for evaluation. Coal that could be mined using underground methods has not been analyzed in this report.

The geological modeling portion of the project is an adaption of the model completed in 2007 which included a review of the available data, formatting and treatment of data to support model development, an update of the geological interpretation, and the construction of the 3D resource model. Interpretation and modeling has focused on the lower Gething Formation. The 2008 model is confined to a smaller area than the 2007 model, where more detailed exploration has been completed, Figures 2-1 and 2-2. The total resource within the 2008 model area is approximately 11% greater than the equivalent area in the 2007 model, though the measured and indicated resources have increased by approximately 30%.



Figure 2-1 Plan view showing the extent of the 2007 geological model (green) compared to the 2008 model area (red outline area).

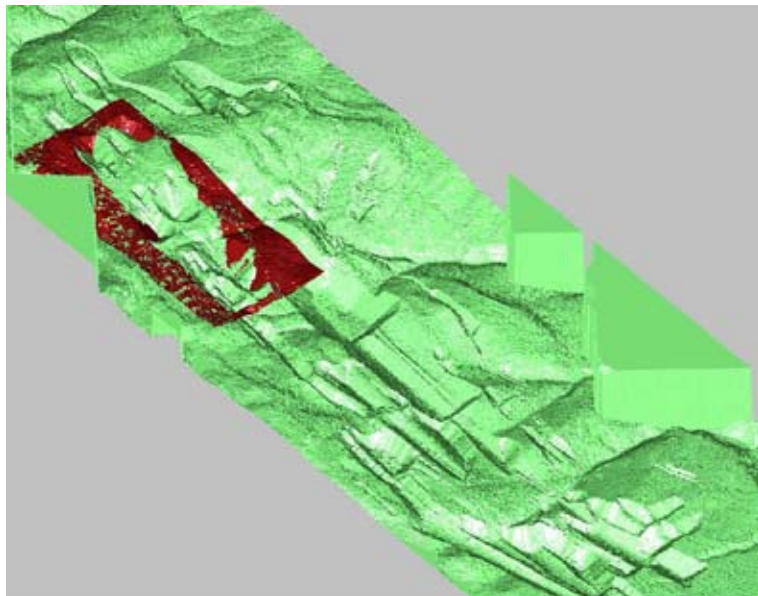


Figure 2-2 Oblique view showing the extent of the 2007 geological model (green) compared to the 2008 model area (red outline area). The potential pit areas are shown as “cuts” in the model area.



Physical parameters used in the model include a 1.5m thick overburden layer and a 6.5m layer of oxidized coal below the overburden. The bulk density of the coal is 1.44g/cc, while mineable coal thickness and removable parting thickness is set at 0.6m. Resource classification is based on distance to nearest composites, with measured being within 150m of a neighbor, indicated 150-300m, inferred 300-600m, and speculative at least 600m from a composite.

Tables 2.1 to 2.4 list the pit delineated resources for the Central South coal property of immediate interest. The coal, as defined, is within a pit with 45° walls and a strip ratio of less than 20:1BCM/tonne (a pit delineated resource with an incremental strip ratio of 20 bank cubic meters of waste to one tonne of in place coal). The overall strip ratio is 12.6:1(bcm waste: tonnes total coal).

**Table 2-1 Summary of Measured Resources
Geology Type: “Complex”¹**

Resource Category	In Situ (kTonnes)
Measured	10,600

Table 2-2 Summary of Indicated Resources

Resource Category	In Situ (kTonnes)
Indicated	8,300

Table 2-3 Summary of Inferred Resources

Resource Category	In Situ (kTonnes)
Inferred	2,600

Table 2-4 Summary of Speculative Resources

Resource Category	In Situ (kTonnes)
Speculative	300

Average seam thickness within the model are shown in Table 2-5.

Table 2-5 Average Seam True Thickness (m)

Seam	Total
I2	1.83
I1	1.21
H3	1.28
H2	1.39
H1	1.27
G2	1.29
F2	1.55
F1	1.27
E3	1.46
E2	1.56

¹ Complex geology type refers to steeply dipping strata with few faults



E1	1.18
D	2.07
C2	1.37
C1	0.84
B2	1.47
B1	0.85
A2	0.91

The resources by seam are listed in Table 2-6 (for the more significant seams).

Table 2-6 Coal Resources by Seam

Seam	Total	% of Total
I1	265.7	1.2
H2	705.9	3.2
H1	293.4	1.3
G2	1271.3	5.8
F2	2078.7	9.5
F1	1908.9	8.7
E3	282.8	1.3
E2	3472.5	15.9
E1	2557.6	11.7
D	5143	23.5
C2	915.4	4.2
C1	632.8	2.9
B2	896.2	4.1
B1	456.4	2.1
A2	256.1	1.2
Total	21884.2	100.0

MMTS is of the opinion that the South Central property hosts significant coal resources and is a property of merit, worthy of further exploration and detailed study. It is recommended that future exploration be divided into two phases, a property wide program that tests the continuity and quality of the coal to the southeast (along strike) and to the northeast (across dip) and an in-fill program to increase the confidence of the resource to the measured and indicated category. Phase 1 work would include approximately 83 drillholes (of which 19 are core holes totaling 2,700m) with a total of 10,000m and a Phase 2 program which would include approximately 92 drillholes (of which 25 are core holes totaling 3,750m) with a total of 13,950m. The cost of the exploration is estimated to include:



Table 2-7 Recommended Drilling

Drilling	Total length (m)	Cost (\$/m)	Total (\$)
Phase 1			
Core drilling	2,700	300	810,000
Rotary drilling	7,300	100	730,000
Phase 2			
Core drilling	3,750	300	1,125,000
Rotary drilling	10,200	100	1,020,000
		Total =	3,685,000



3.0 PROPERTY DESCRIPTION AND LOCATION

The Central South property is located within the Pine Pass area in the Peace River District of northeast British Columbia, Figure 3.1. The coal licences are located south of Highway 97 and 15km southwest of the Willow Creek Mine. The property is approximately 60km west of the town of Chetwynd. Its approximate centre is 6,145,000 North and 542,000 East (UTM NAD 83).

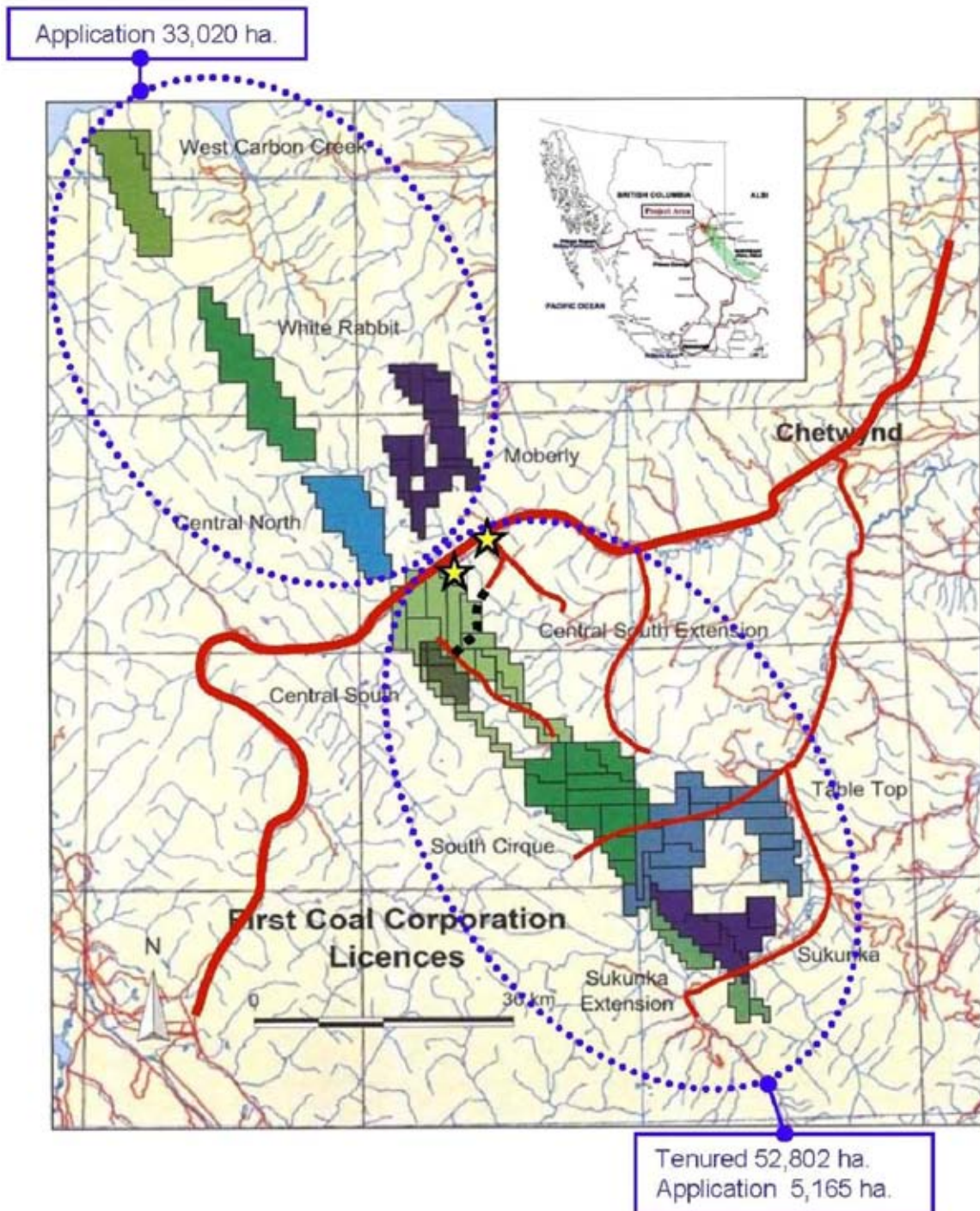


Figure 3-1 Land Holdings



4.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Central South property is located within the Pine Pass area in the Peace River District of northeast British Columbia. Primary road access to the general area is via the John Hart Highway, Highway 97, which is an all-weather paved highway which connects the Peace River District with the central interior city of Prince George, B.C. to the west and Chetwynd and Dawson Creek to the east. An all-weather gravel road also runs adjacent to Brazion Creek some 27 kilometres south of the Hart Highway within the property.

Canadian National Railway (CN) operates a rail line through the Pine River Valley to service the Peace River District. The rail line crosses north of the Central South deposit. The railway provides direct access to the port of Vancouver and to the Ridley Island Coal Port at Prince Rupert.

The Peace River District is serviced by daily commercial airline flights to the cities of Prince George, Dawson Creek and Fort St. John. These services have respective road distances to the Pine Pass Project Properties of roughly 265km, 148km and 208km respectively.

The property is situated in the Rocky Mountain Inner Foothills physiographical region and is characterized by relatively low, rounded, northwest-southeast trending ridges and valleys. Glaciation appears to have had a large influence in shaping the topography of the tenure area. The highest elevation in the area is 2,043 metres at Mount Stephenson, and the average elevation of the valley floors is approximately 1,060 metres.

The property is forested by jackpine and minor spruce. Poplar stands occur in low areas such as river valleys, and in wet areas adjacent to creeks and seepages. Most of the forested terrain may be classified as open forest, i.e., with little or no underbrush. The exceptions are the wet areas where willows and devil's club are common.

The climate of the region may be classified as northern temperate. Daily temperatures range from a mean maximum of 7°C to a mean minimum of minus 6°C, with a mean daily temperature of 1°C. Extreme temperatures range from a maximum of 32°C to a minimum of minus 48°C. The average annual number of days with frost is 210.

The mean total precipitation in the region is approximately 425mm, which includes the rainfall equivalent of a mean snowfall of 165cm. The average annual number of days with measurable precipitation is ninety-five. The greatest recorded rainfall in twenty-four hours is 66.5 mm.



Photo 4-1 View to the south along the ridge top, south of the bulk sample site.



Photo 4-2 View to the south along the ridge top, the clearing in the photo centre is the bulk sample site.



Figure 4-1 Infrastructure Map



5.0 HISTORY

Coal was discovered in the Peace River District of British Columbia during Alexander Mackenzie's overland journey to the Pacific about 200 years ago.

Exploration of the Goodrich property (the southern part of which is the Central South property) began in June 1980, by Gulf Canada Resources Inc. Initial work involved reconnaissance geological mapping. Gulf Canada conducted 1:10,000 scale geological mapping on the northern two thirds of the property and 1:5000 scale mapping on the southern third. Geological cross-sections were generated at approximately four kilometre centres on the south part of the property and two kilometre centres on the north part of the property.

Rock and coal outcrop exposures on the tenures are limited due to a dense vegetative cover, and overburden. The majority of geological field data was collected along drainage systems.

Exploration in 1980 on the Goodrich property consisted of numerous hand trenches, 17 rotary drillholes and 19 diamond drillholes. Two of the diamond drillholes were located on the Central South deposit, totaling 638.6 metres. Core was sampled and sent for coal analysis. All holes were geophysically logged. No 1980 core is available for review.

Work completed on the Goodrich property by Gulf Canada is filed with the BC Ministry of Energy and Mines as coal assessment reports 531, 532, 533 and 534.

In the early 1980's, Gulf Canada estimated an unclassified coal resource for the Goodrich Central region. This area was divided into two parts: 1) Goodrich Central North and 2) Goodrich Central South. Resources were stated as:

- Goodrich Central North - 169 million tonnes for the Gething Formation.
- Goodrich Central South - 26 million tonnes for the Gething Formation and 61 million tonnes from the Bickford Formation.

These resources for Goodrich are considered historic in nature and do not comply with NI 43-101 standards.



In 2007 MMTS estimated a NI 43-101 compliant resource for the entire property, as shown in tables 5-1 to 5-4. This resource is within a model area which approaches the total size of the Central South property.

**Table 5-1 Summary of Measured Resources
Geology Type: “Complex”²**

Resource Category	In Situ (kTonnes) Total
Measured	11,400

**Table 5-2 Summary of Indicated Resources
Geology Type: “Complex”**

Resource Category	In Situ (kTonnes) Total
Indicated	34,400

**Table 5-3 Summary of Inferred Resources
Geology Type: “Complex”**

Resource Category	In Situ (kTonnes) Total
Inferred	32,100

**Table 5-4 Summary of Speculative Resources
Geology Type: “Complex”**

Resource Category	In Situ (kTonnes) Total
Speculative	20,000

The 2008 model is confined to the northwestern part of the property and covers approximately 10% of the total property area, Figure 5-1. Exploration during the 2007 and early 2008 period focused on detailed correlation work using trenches and drillholes.

A test was performed to compare the 2007 to the 2008 geological model. The 20:1 pit from the 2008 model was inserted into the 2007 model and the resources within that pit were calculated using the same method as the total 2007 resources. The total raw coal within the 2008 pit area is 11% higher than reported in the 2007 model, though the measured and indicated coal is 30% higher. This test verifies the validity of the 2007 model and shows how the increased geology and drilling has improved the classification of the resource, and that there is the potential for an increase in the amount of coal reported in 2007.

² Complex geology type refers to steeply dipping strata with few faults



Photo 5-1 Trench showing coal seam along ridge line C3.



Photo 5-2 Exposing Seam D along ridge line C2.

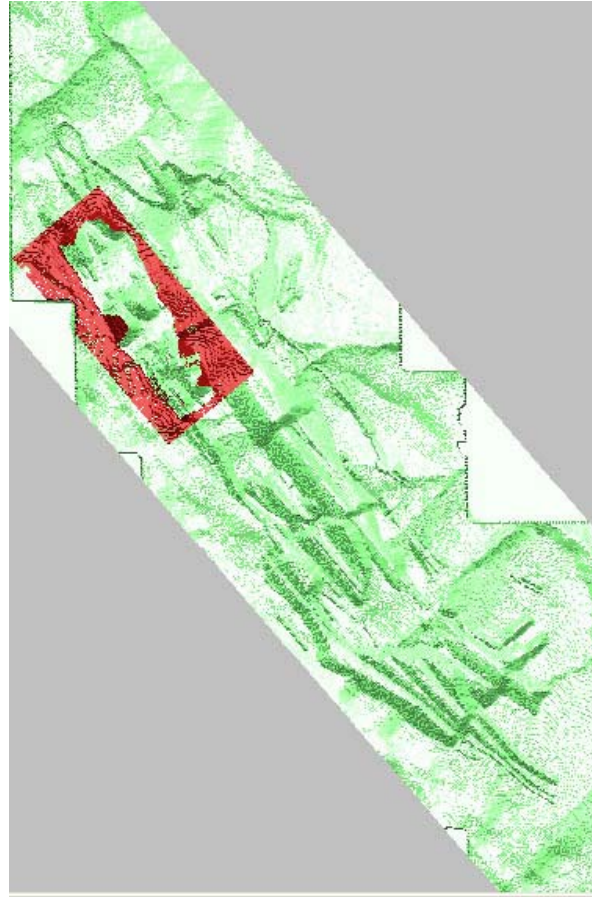


Figure 5-1 Plan view showing the extent of the 2007 geological model (green) compared to the 2008 model area (red outline area).



6.0 GEOLOGICAL SETTING

The following two sections have been adapted from Gulf Canada, 1980:

The Cretaceous sediments of the northern Foothills were deposited along the western margin of the Western Canada Basin in a series of transgressive-regressive cycles during the Columbian Orogeny. Environments of deposition varied laterally and vertically from marine through prodeltaic and near shore, to delta plain and alluvial. Lithologies include mudstone, siltstone, sandstone, conglomerate and coal.

The Central South property is underlain by the Lower Cretaceous Minnes, Bullhead, and Fort St. John Group sediments. Figure 6.1 compares the stratigraphic nomenclature used by Gulf to that used by the GSC. Because much of the present work is based on former's work, the Gulf nomenclature is used.

The oldest unit mapped on the Central South property is the Bickford Formation of the Minnes Group. In this formation trenching unearthed two coal seams of greater than 1.0 metre thickness each. While the economic potential of the Bickford Formation has never been proven, Gulf Canada estimated an unclassified coal resource for the Bickford in the Central South property area. Gulf Canada was of the opinion that the Bickford formation consists of several coal seams of varying thickness in the upper part of the formation. They estimated that the Bickford Formation has a thickness of 300 metres on the property.

Overlying the Bickford Formation of the Minnes Group is the Cadomin Formation of the Bullhead Group. The Cadomin has a distinct lithology and is usually referred to as the Cadomin Conglomerate. Conformably overlying this formation is the principal unit of economic significance, the Gething Formation, also of the Bullhead Group. This formation contains most of the seams that are the subject of the present study.

Overlying the Gething Formation is the Moosebar Formation, which is marine and is the youngest unit of the Fort St. John Group. The Moosebar is a thick and prominent marine shale unit, which has a glauconite rich, sometimes conglomeratic or sandy member, named the Bluesky, at its base. Conformably overlying the Moosebar are the other formations of the Fort St. John Group, which, in this area, include in succeeding order, the Gates, Hasler and Boulder Creek Formations. Coal seams occur in the Boulder Creek Formation, but the development of these seams is not as significant as that of the Gething Formation. It is not known if they have economic significance for this coal property.”



6.1 Gething Formation

“The non-marine Gething Formation consists of multiple fining upward cyclothems that strongly suggest a fluvial to deltaic environment. It is distinguished from the coal bearing Bickford Formation, which underlies the Cadomin Formation, by its greater proportion of shale and numerous coal seams, and also by its greater proportion of plant fossils. It consists of dark grey mudstone; siltstone; lithic, very-fine to coarse-grained sandstone; carbonaceous, silty and sandy mudstone; coalified plant debris; minor bentonite; black shale; occasional minor tuffs in the upper part; minor conglomerate; and coal. In the Upper Gething below the Bluesky Member, the Upper Gething is made up of distinctive, interbanded, dark grey mudstone and lighter grey siltstone approximately 30 to 40m thick. The sandstone in the upper portion of the formation contains pebbles and coal stringers. These units are cross-bedded, bioturbated, and show evidence of soft sediment deformation. Fossil bivalves and worm burrows are also found in some parts of the formation. The formation is 500m thick in the Peace River Canyon, and is 420m thick at Willow Creek.”
There is no estimate of its thickness at the Central South property.

The Gething coal seams at Central South are considered to be in the mid to lower part of the Gething.

6.2 Structural Geology

“In the Pine Valley area, the coal-bearing strata are exposed in a series of northwesterly trending folds that are cut by thrust faults. Deformation during early Campanian to late Eocene time was characterized by high lateral compressive stresses that had a near-horizontal orientation. Depth of burial was not excessive, resulting in brittle to semi-brittle styles of deformation.

Large sheets of strata became detached during deformation and were displaced to the northeast along thrust faults. These thrusts generally have a staircase geometry, with wide flats almost parallel to bedding, connected by narrow ramps oblique to bedding, that cut up-section toward the northeast. The tendency is for the faults to be subparallel to bedding in incompetent rocks such as coal, mudstone and shale, and to be more oblique to bedding in competent lithologies such as sandstone.

Deformation tended to migrate northeastward across the region, and as a rule, the lower or more external of any two thrusts is the younger. Comparatively little folding preceded faulting; consequently thrusts tended to develop in essentially horizontal strata. As movement occurred along a thrust, its staircase geometry caused folding in the overlying strata and older thrust faults. Because of this folding, an older thrust may dip either southwest or northeast, although the overall movement of the plate of strata remains northeastward.

Concentric folds, angular folds and box folds are typical fold geometries. The dip of fold limbs can vary from nearly horizontal to overturned, but is usually in the



range of 20° to 50°. Fold axes trend northwesterly. Plunge oscillates between northerly and southerly over the length of a large scale fold and is usually shallow, but can steepen locally to as much as 35°. The major folds persist for large distances, in several cases more than 50km, and usually have an en echelon alignment.

Concentric folds are roughly U-shaped, and in concentric folding both the competent and incompetent layers can maintain a constant thickness throughout the structure.

Chevron folds are V-shaped, with relatively short hinge areas and straight limbs. Strain in the hinge zone is usually accommodated by limb faults, the development of bulbous hinge zones, or boudinage of incompetent layers. The latter can produce localized tectonic thickening and thinning of coal seams.

Box folds are characterized by a broad, nearly flat crest, flanked by steeply dipping limbs. The plates of strata that form the top and limbs tend to be largely undeformed, but the abrupt hinge zones often exhibit some of the small-scale structures that are associated with the hinge zones of chevron folds.

The geology of the Goodrich Central South deposit (Figure 6.1) is dominated by a large northwesterly-trending syncline flanked on the east by a major anticline, and truncated to the west by a major thrust fault which dips steeply to the west. The plunge of the syncline is shallow at about 7° in a southerly direction from Pine Pass to Brazion Creek. At Goodrich Peak, the plunge of the syncline is shallow in a northerly direction. The plunge steepens rapidly to about 30° at Mt. Gilliland until the plunge reverses at Brazion Creek. Adjacent to the thrust fault to the west, the beds of the syncline dip steeply and are overturned along most of the trend. The micro-folds, which occur within the syncline in the Lossan area to the south, are often strongly symmetrical, usually including one very steeply dipping limb and very abrupt fold hinge. The general pattern of the geological structure of the Goodrich Central South deposit indicates that the strata in these areas have been subjected to an intense level of tectonic deformation.

South of Brazion Creek, a series of very tight chevron-style anticlines and synclines have disturbed the Gething Formation. The amplitude of these folds appears to be as great as 300 metres, and the half-wavelength is usually on the order of 400 metres. Similar structures are known to exist within the central portion of the Lossan area. A major cross-trending thrust fault is believed to follow Brazion Creek having a west-northwesterly trend in that area. In the vicinity of the Brazion Creek road, the trend of this structure turns to a northwesterly direction to become coincident with the regional structural trend. This structure may be responsible for tectonic thickening of coal near the Brazion Creek road.”

To date, 29 coal seams have been modeled at Central South. These seams are considered to be consistent over strike lengths of 500 metres to three kilometres. Seam thickness ranges from 0.6m to 6.02m. Photo 6-1 shows the trace of Seam F near Line C2. The photo shows the



continuity of the seam with several thin coal plies in the top part of the seam. An irregular rock parting also appears in the middle part of the seam.



Photo 6-1 Looking to the northeast along the trace of Seam F near Line C2.

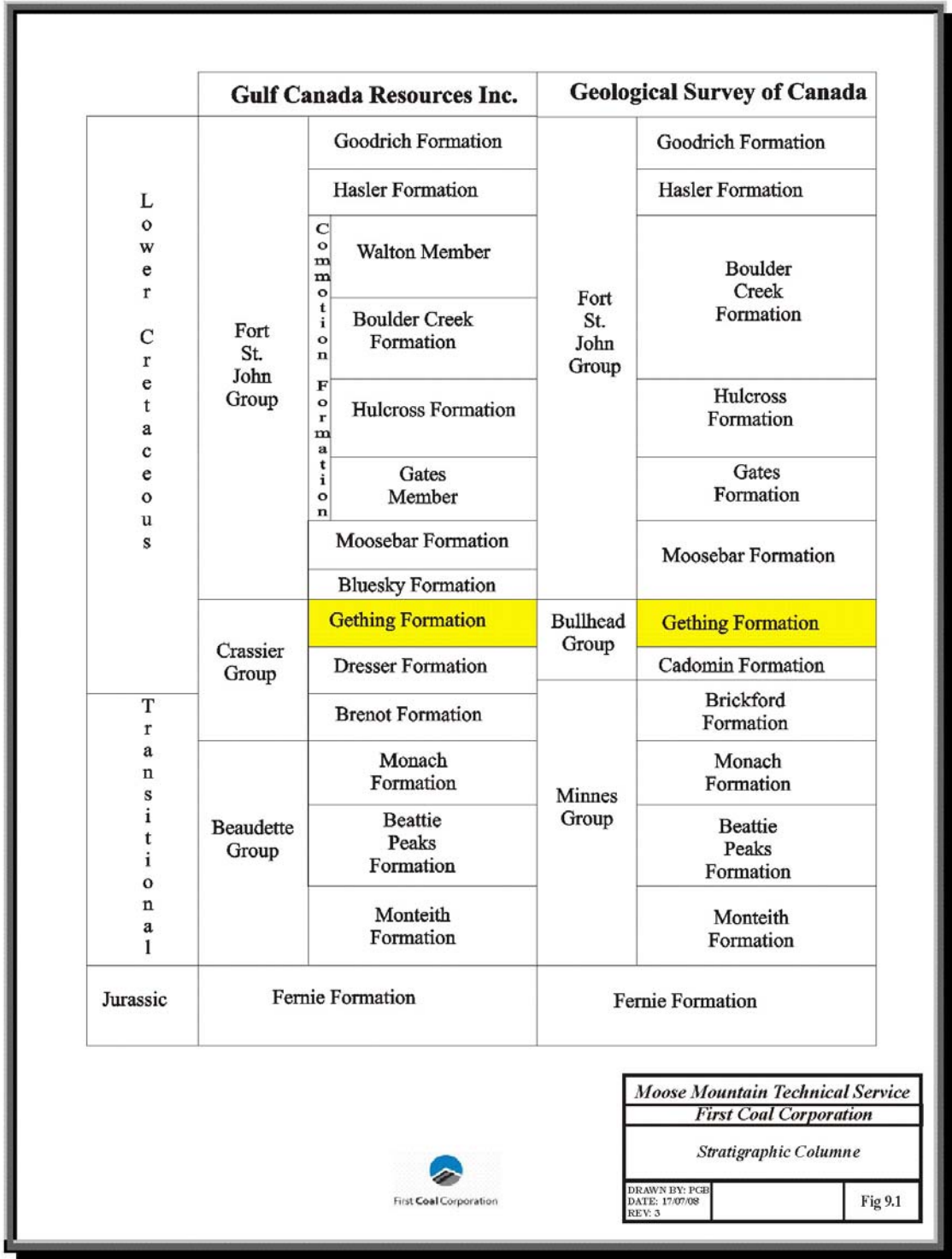


Figure 6-1 Stratigraphic Column, relates the older Gulf Canada nomenclature to the present day GSC nomenclature.

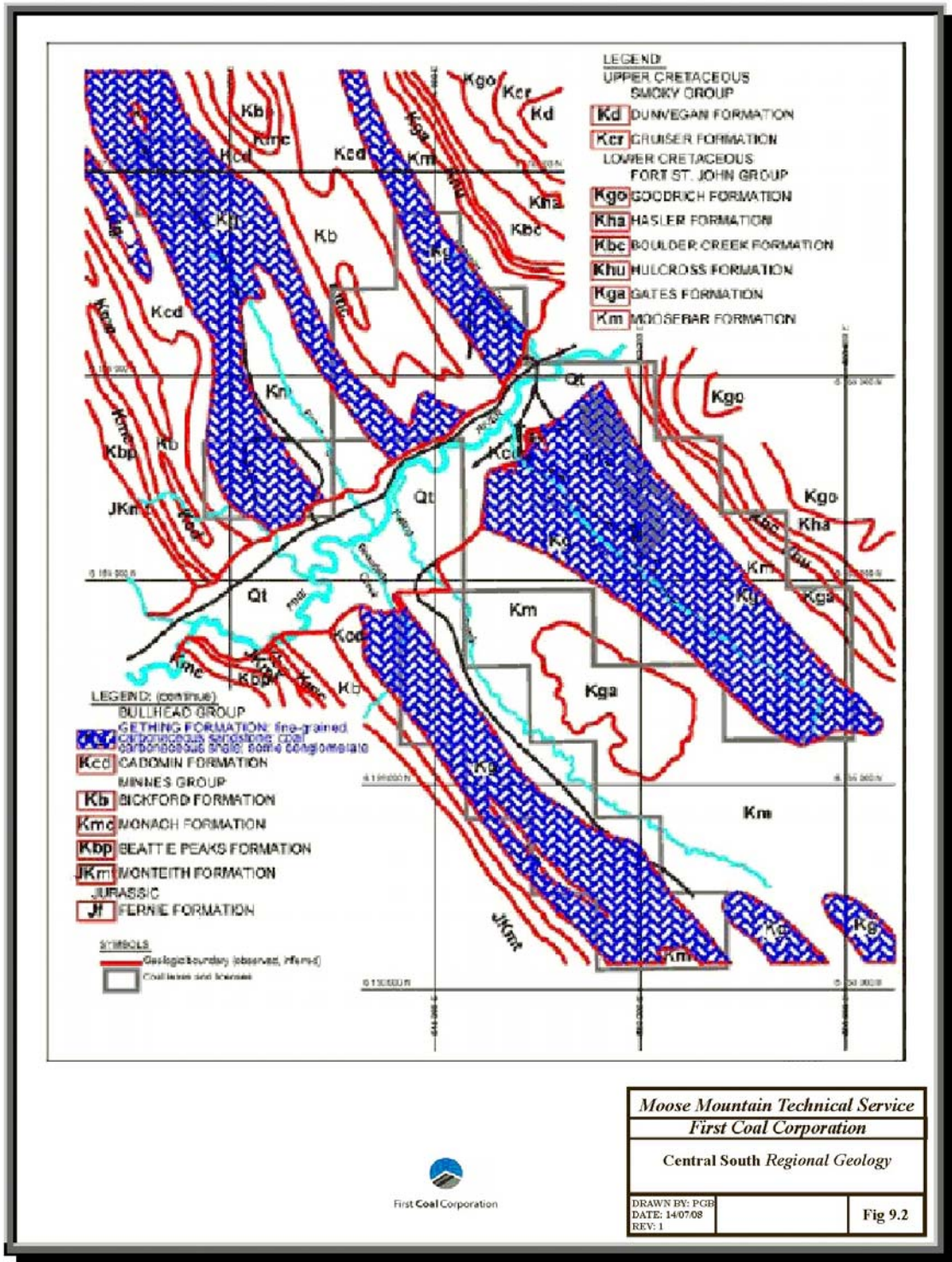


Figure 6-2 Regional Geology

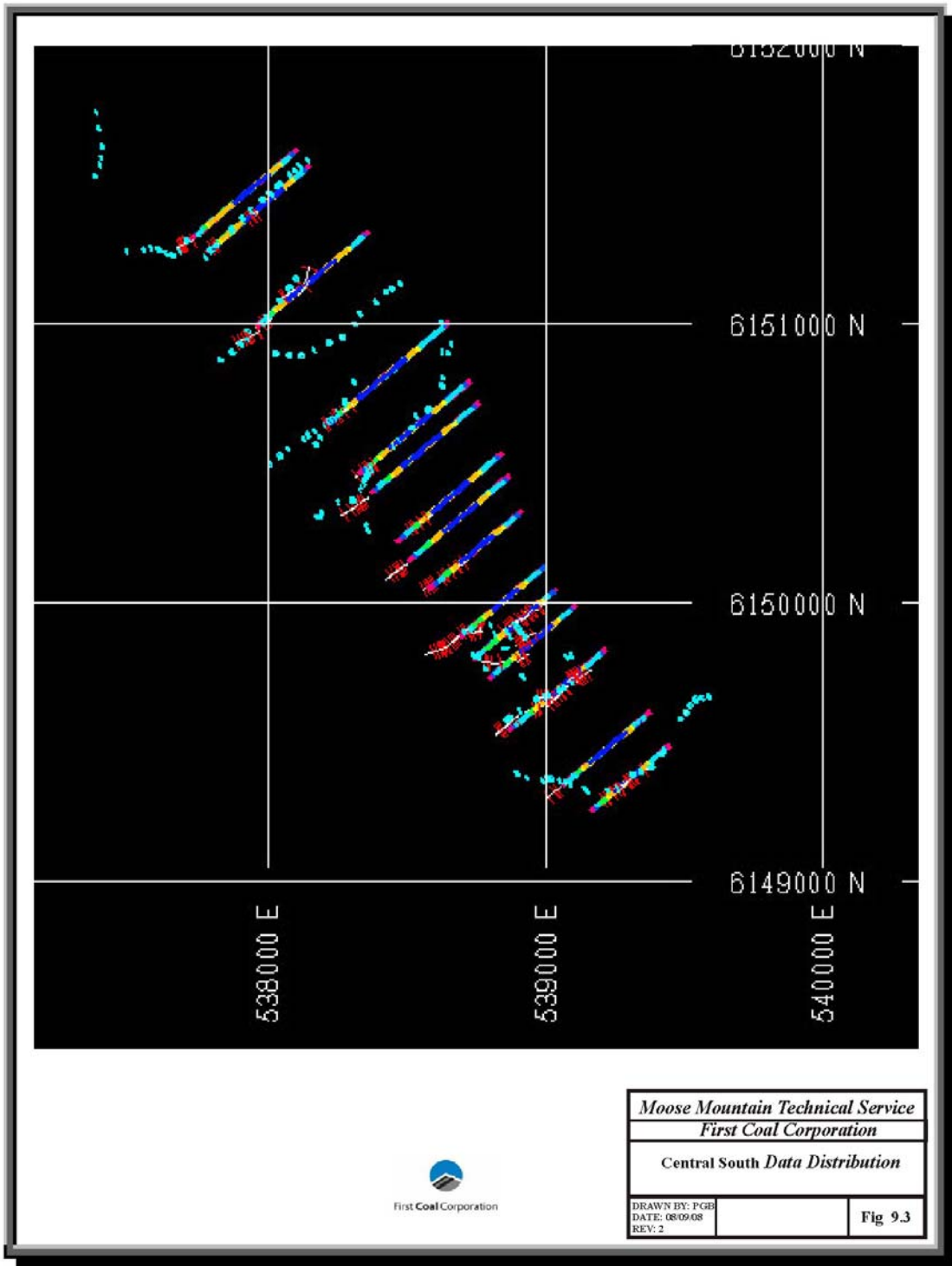


Figure 6-3 Central South Area, data distribution for the 2008 geological model.

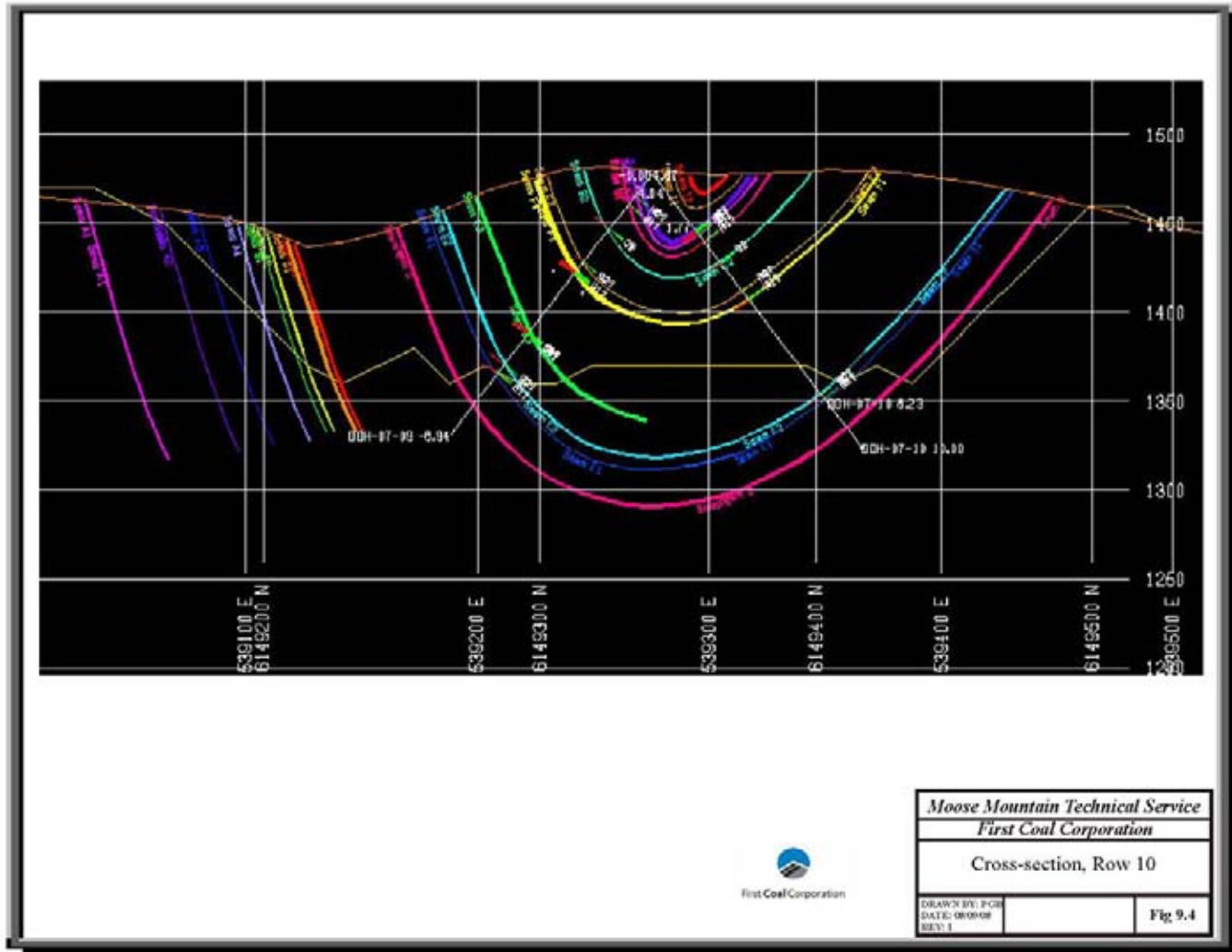


Figure 6-4 Cross-section, row 10 from the geological model.

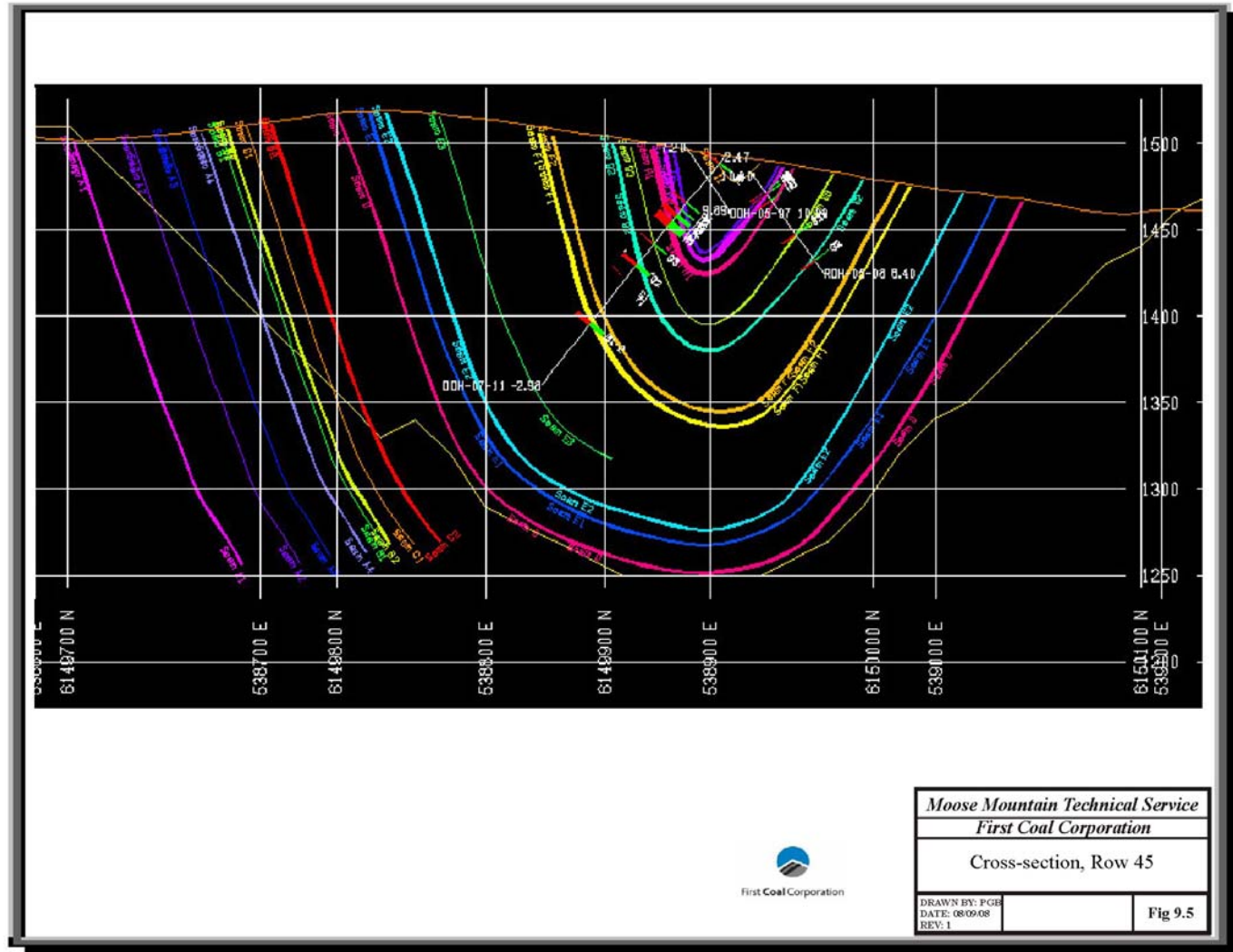


Figure 6-5 Cross-section, row 45 from the geological model.

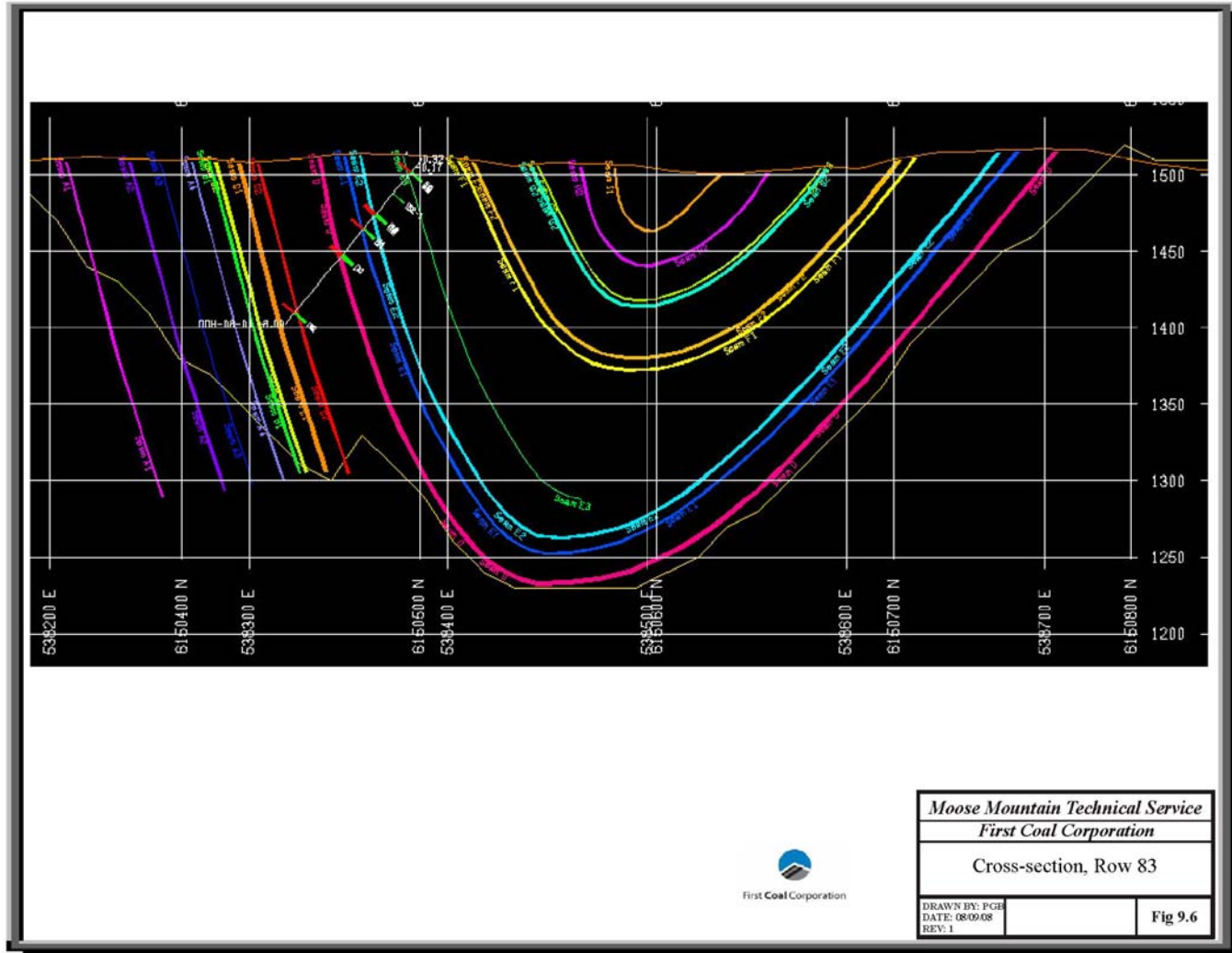


Figure 6-6 Cross-section, row 83 from the geological model.

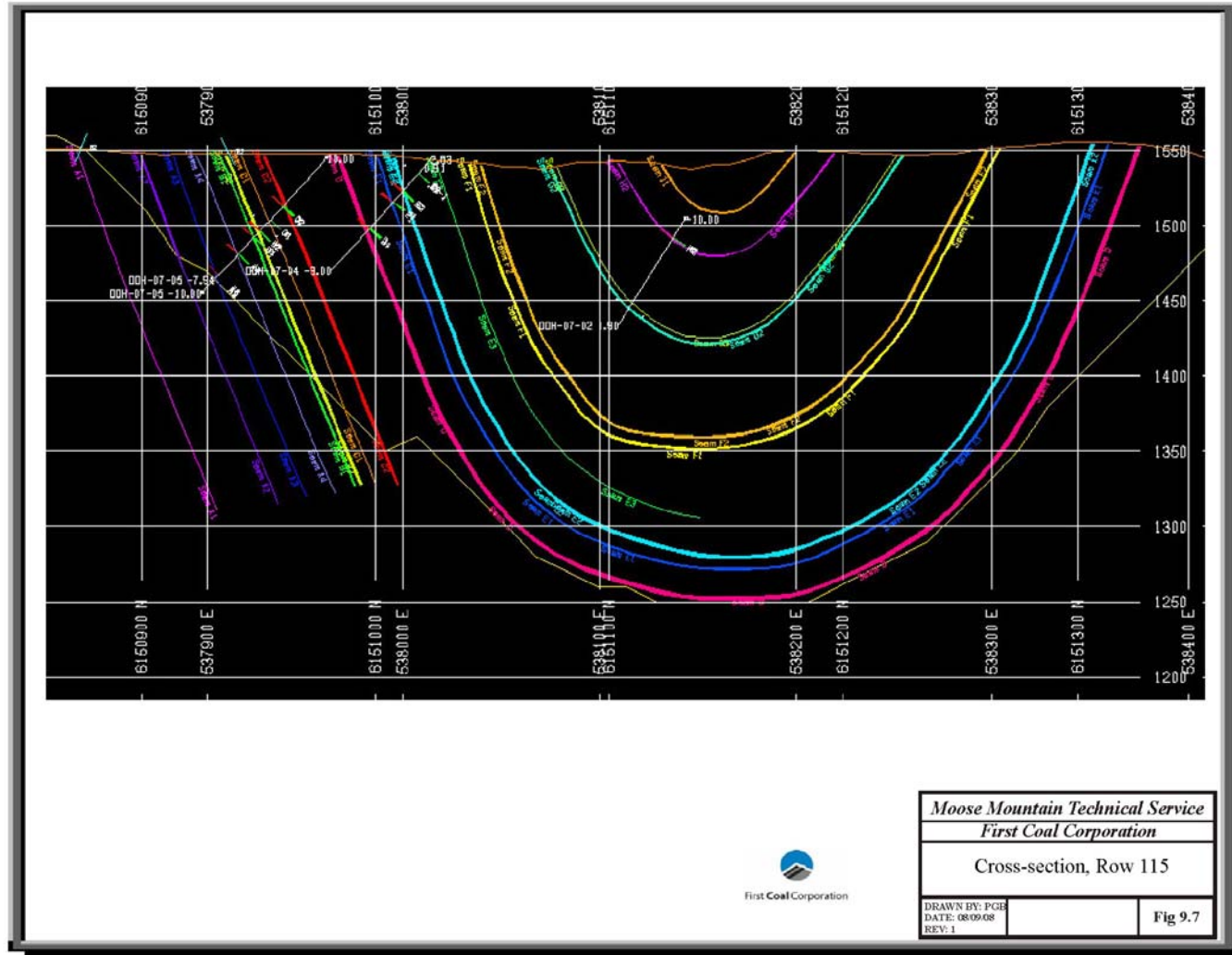


Figure 6-7 Cross-section, row 115 from the geological model.



7.0 EXPLORATION

Exploration by First Coal on the Central South property has been carried out continuously since 2005. This work consists of geologic mapping, trenching, road construction, drilling, down hole geophysical logging, sampling and subsequent analytical work.

In total there are 147 drillholes on the property with a total of 22,856.4m, at least 115 trenches, and many kilometres of road.

The 2008 model represents the northwest part of the property. The model was built with 35 drillholes totaling 4,968.98m. Of the drillholes, 12 are reverse circulation, totaling 1,198m, while 23 are continuous diamond core. As well as the drillholes, there are 115 outcrop points with seam identification, seam thickness, and seam orientation contributing to the database.



8.0 DRILLING

In 1980 and 1981, Gulf Canada completed four vertical HQ diamond drillholes on the Goodrich property. Two of these holes were located on the Goodrich Central South deposit. Holes were drilled into the Gething Formation and ranged in depth from 296.0 metres to 419.4 metres.

Since 2005, 147 holes have been drilled on the Central South Property totaling 22,856.41 metres. Of these holes, 94 are core holes, totaling 16,965.41 metres, and 53 are reverse circulation rotary holes, totaling 5,891.0 metres. One hundred and seventy-six coal samples were collected for analyses. Figure 8.3 shows drillhole and trench locations on the property.

During 2007 11 drill holes were completed as shown below. Figure 8.1 shows the location.

2007 Exploration Program
GOODRICH CENTRAL SOUTH - Drill Hole Locations & Parameters

No	HOLE ID	Location			Orientation			Progressive Meters	Logged Meters	Section	E Log (✓)	Geo-tech (✓)
		Easting	Northing	Elev.	Azim.	Angl.	Depth					
1	DDH 07-01	538137.11	6151154.48	1535.26	15	60	102.41	102.41		A1		
2	DDH 07-02	538148.91	6151156.58	1535.26	215	57	120.70	223.11		A1		
3	DDH 07-03	538098.17	6151124.93	1537.76	237.6	47.5	111.56	334.67	111.56	A1	✓	
4	DDH 07-04	538015.74	6151021.67	1544.19	239.1	47.5	99.36	434.03	99.36	A1	✓	
5	DDH 07-05	537970.94	6150973.11	1549.73	243.4	48	140.92	574.95	140.92	A1	✓	
6	DDH 07-06	538900.45	6149591.34	1487.14	230	52	167.64	742.59	167.64	C2	✓	✓
7	DDH 07-07	539082.94	6149700.76	1494.11	225.9	53	168.25	910.84	168.25	C2	✓	✓
8	DDH 07-08	539074.73	6149343.53	1468.28	230	52	152.40	1063.24		C3		✓
9	DDH 07-09	539276.43	6149333.09	1467.21	236	52	184.00	1247.24	184.00	C3	✓	✓
10	DDH 07-10	539273.35	6149336.43	1467.42	55	52	222.90	1470.14	222.90	C3	✓	✓
11	DDH 07-11	538910.24	6149938.38	1484.65	233.3	51	169.77	1639.91	169.77	C	✓	✓
11	Holes							1639.91	1264.40	Drilled	1264.40	Logged

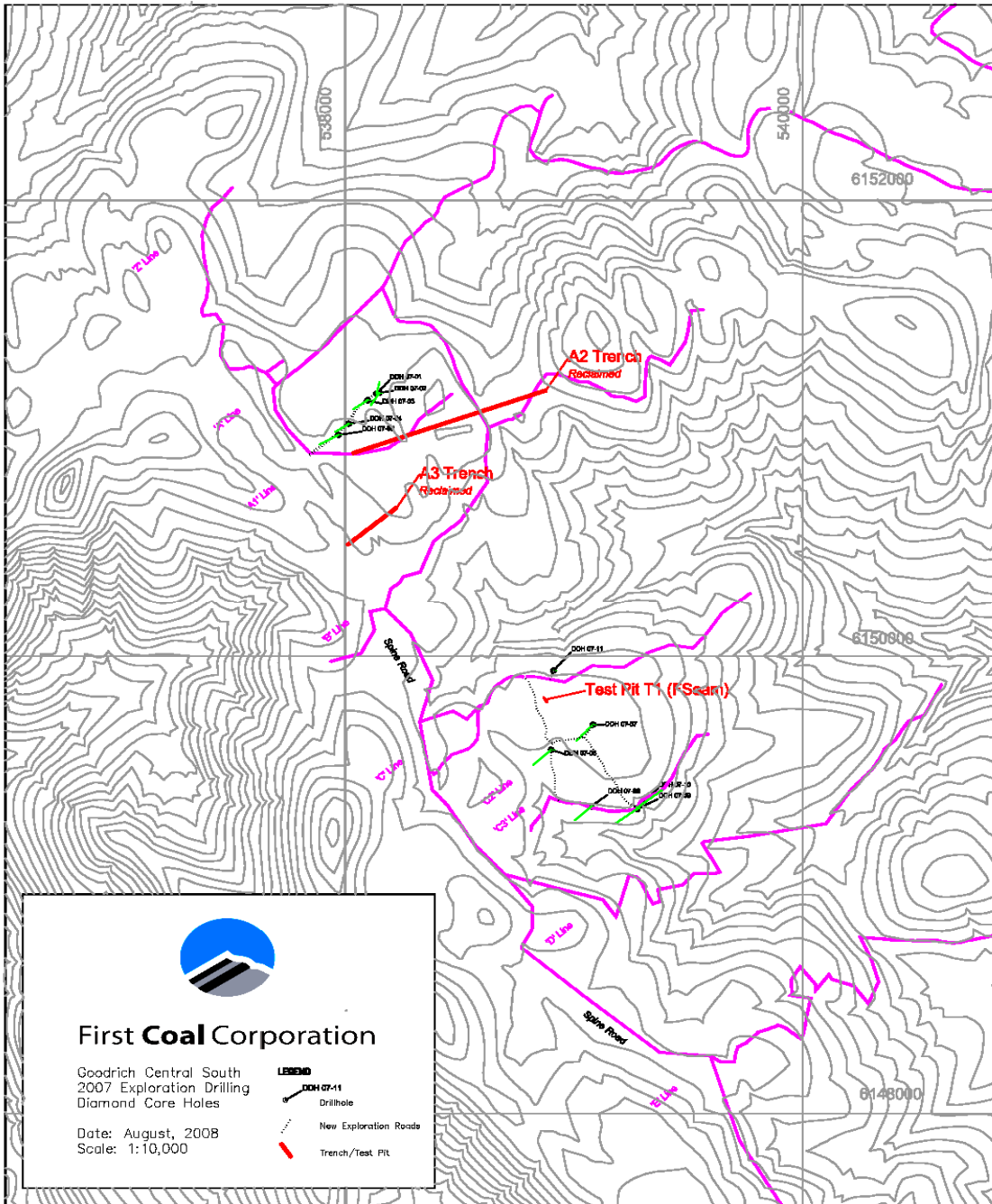


Figure 8.1



First **Coal** Corporation

**2007 Coal Assessment Report
Central South Property**



9.0 Expenditures

2007 expenditures

Exploration Costs	\$762,486
Equipment Rentals	\$393,712
Salaries and Wages	\$895,064
Consultants	\$783,962
Total	\$2,843,224



**APPENDIX
2007 DRILL LOGS**

COMPANY : FIRST COAL
WELL : DDH # 03/07
FIELD : BOULDER
COUNTY : CANADA
STATE : BRITISH COLUMBIA

OTHER SERVICES : NEUTRON

LOCATION : AT LINE
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
API NO. : N/A
UNIQUE WELL ID. :

PERMANENT DATUM : GL
LOG MEASURED FROM : GL
DRL MEASURED FROM : GL
ELEVATION RG : N/A
ELEVATION DF : N/A
ELEVATION SL : N/A

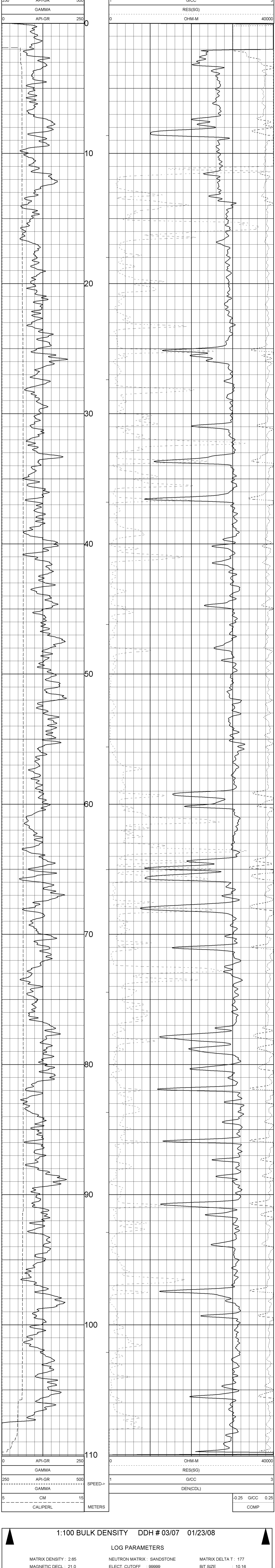
DATE : 01/23/08
DEPTH DRILLER : 111.56
BIT SIZE : 10.16
LOG TOP : -0.38
LOG BOTTOM : 110.07
CASING OD : 11.43
CASING BOTTOM : 4.57
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
RM TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : 1.0
WITNESSED BY : J. NEAL
RECORDED BY : 50 DEGREE
REMARKS 1 : AZIMUTH 230
REMARKS 2 :

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 10.16
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008 VERSION = 3.64EK



1:100 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 10.16
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 03/07 01/23/08 10:41
TOOL 9139C1 TM VERSION 1015
SERIAL NUMBER 1269

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07 12:42:07	GAMMA	0.000 [API-GR]	20.00 [CPS]
	Oct18,07 12:42:07	GAMMA	250.000 [API-GR]	278.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	0.000 [MV]	4588.00 [CPS]
	Aug09,06 11:09:11	VOLTAGE	1987.000 [MV]	271844.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	8.890 [CM]	176300.00 [CPS]
	Aug09,06 11:09:45	CALIPER	15.240 [CM]	331000.00 [CPS]
4	Oct11,07 11:35:55	DEN(LS)	1.000 [G/CC]	28937.00 [CPS]
	Oct11,07 11:35:55	DEN(LS)	2.323 [G/CC]	48826.00 [CPS]
5	Jan20,08 11:23:14	DEN(SG)	1.000 [G/CC]	16890.00 [CPS]
	Jan20,08 11:23:14	DEN(SG)	2.323 [G/CC]	219880.00 [CPS]
6	May17,07 10:06:22	CALIPERL	15.750 [CM]	304210.00 [CPS]
	May17,07 10:06:22	CALIPERL	32.200 [CM]	5380.00 [CPS]
7	Aug09,06 11:10:56	CURRENT	0.000 [UA]	28477.00 [CPS]
	Aug09,06 11:10:56	CURRENT	6.720 [UA]	214750.00 [CPS]
8	Aug09,06 11:11:25	TEMP	45.550 [DEG C]	430700.00 [CPS]
	Aug09,06 11:11:25	TEMP	9.720 [DEG C]	
9	Aug09,06 11:08:22	X	Default	
	Aug09,06 11:08:22	X	Default	

COMPANY: FIRST COAL
WELL: DDH # 03/07
FIELD: BOULDER
COUNTY: CANADA
STATE: BRITISH COLUMBIA

OTHER SERVICES: NEUTRON

LOCATION: X1 LINE
SECTION: N/A
TOWNSHIP: N/A
RANGE: N/A
APNO: N/A
UNIQUE WELL ID: N/A

PERMANENT DATUM: G1
LOG MEASURED FROM: GL
DRI MEASURED FROM: GL
ELEVATION NB: N/A
ELEVATION DF: N/A
ELEVATION GI: N/A

DATE: 01/23/08
DEPTH DILUENT: 111.56
BIT SIZE: 10.16

LOG TOP: -30.28
LOG BOTTOM: -110.07
CASING OD: 11.43
CASING ID: 4.57

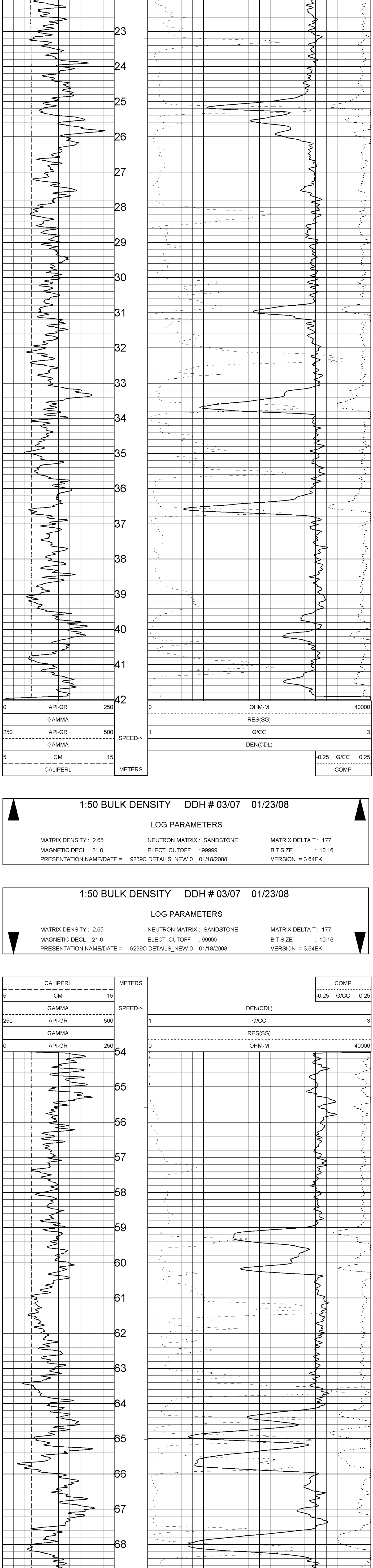
CASING TYPE: STEEL
ROBBERJULF: WATER
ROBBERJULF LIQUID: N/A
ROBBERJULF TEMPERATURE: N/A
MUD WEIGHT: 1.0
MUD VISC: N/A

RECORDED BY: J. NEAL
WITNESSED BY: J. NEAL
REMARKS 1: 50 DEGREE
REMARKS 2: 20 MINUTE 230

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

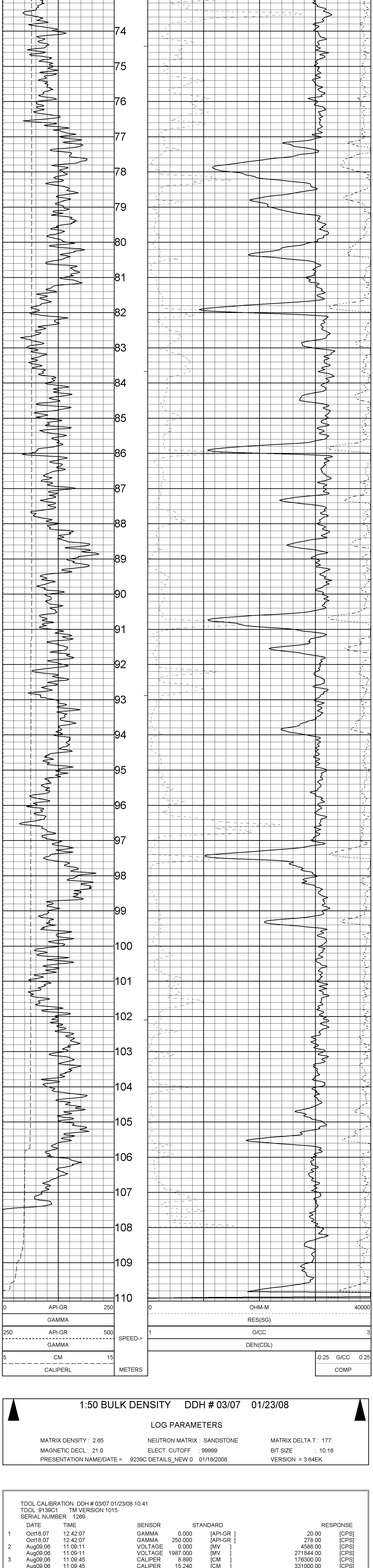
1:50 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 10.16
PRESENTATION NAME/DATE = 9239C DETAILS_NEW_0 01/18/2008 VERSION = 3.64EK



1:50 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 10.16
PRESENTATION NAME/DATE = 9239C DETAILS_NEW_0 01/18/2008 VERSION = 3.64EK



1:50 BULK DENSITY DDH # 03/07 01/23/08

LOG PARAMETERS
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 10.16
PRESENTATION NAME/DATE = 9239C DETAILS_NEW_0 01/18/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 03/07 01/23/08 10.41
TOOL 9193C1 TM VERSION 1015
SERIAL NUMBER 1269

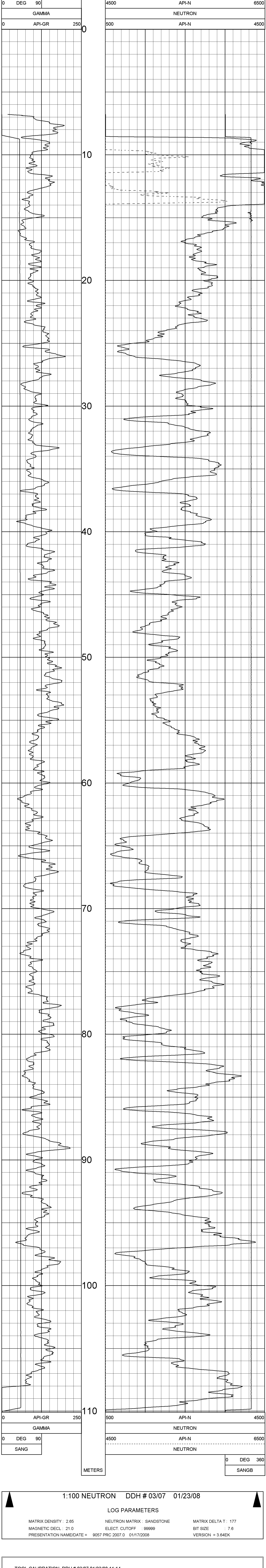
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18.07 12:42:07	GAMMA	0.000 [API-GR]	27.00 [CPS]
	Oct18.07 12:42:07	GAMMA	250.000 [API-GR]	208.00 [CPS]
2	Aug09.06 11:09:11	VOLTAGE	0.000 [MV]	4588.00 [CPS]
	Aug09.06 11:09:11	VOLTAGE	1987.000 [MV]	271844.00 [CPS]
3	Aug09.06 11:09:45	CALIPER	8.890 [CM]	176300.00 [CPS]
	Aug09.06 11:09:45	CALIPER	15.240 [CM]	331000.00 [CPS]
4	Oct11.07 11:35:59	DEN(LS)	1.000 [G/CC]	29037.00 [CPS]
	Oct11.07 11:35:59	DEN(LS)	2.323 [G/CC]	2485.00 [CPS]
5	Jan20.08 11:23:14	DEN(SS)	1.000 [G/CC]	48630.00 [CPS]
	Jan24.08 07:04:21	DEN(SS)	2.323 [G/CC]	16800.00 [CPS]
6	May17.07 10:06:22	CALIPERL	16.750 [CM]	219680.00 [CPS]
	May17.07 10:06:22	CALIPERL	23.200 [CM]	304210.00 [CPS]
7	Aug09.06 11:10:59	CURRENT	0.000 [UA]	5360.00 [CPS]
	Aug09.06 11:10:59	CURRENT	284.670 [UA]	28477.00 [CPS]
8	Aug09.06 11:11:25	TEMP	9.720 [DEG C]	214750.00 [CPS]
	Aug09.06 11:11:25	TEMP	45.550 [DEG C]	430700.00 [CPS]
9	Aug09.06 11:08:22	X	Default [CPS]	
10	Aug09.06 11:08:22	Y	Default [CPS]	

COMPANY	FIRST COAL	OTHER SERVICES:
WELL	DDH # 03/07	DENSITY
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	A1 LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.		
PERMANENT DATUM	GL	ELEVATION NS N/A
LOG MEASURED FROM	GL	ELEVATION DF N/A
DRL MEASURED FROM	GL	ELEVATION GL N/A
DATE	07/23/08	
DEPTH DRILLER	:111.56	
BIT SIZE	7.6	
LOG TOP	8.78	
LOG BOTTOM	:110.05	
CASING OD	:11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	JT NEAL	
RECORDED BY		
REMARKS 1	50 DEGREE	
REMARKS 2	AZIMUTH 290	

1:100 NEUTRON DDH # 03/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
 PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008 VERSION = 3.64EK



1:100 NEUTRON DDH # 03/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
 PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 03/07 01/23/08 11:14
 TOOL 9057A TM VERSION 5500
 SERIAL NUMBER 4429

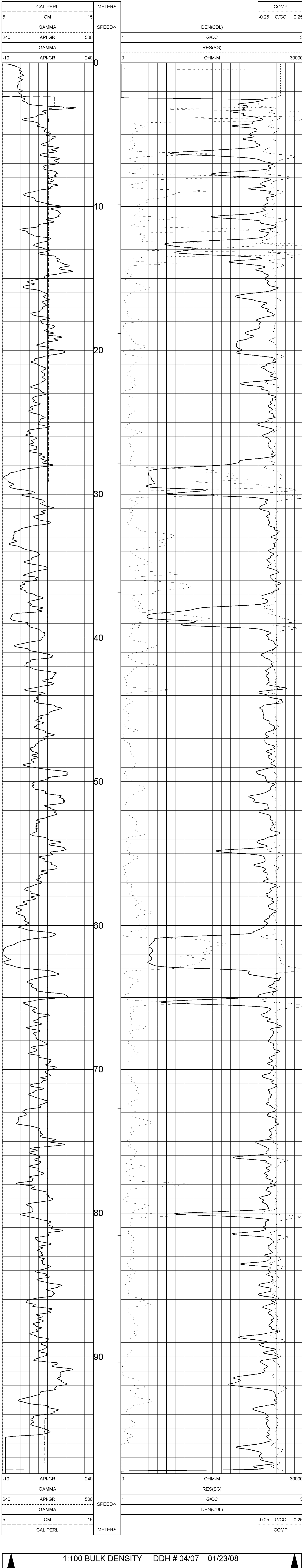
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul02.07 06:48:29	GAMMA	0.000 [API-GR]	4.00 [CPS]
	Jul02.07 06:48:29	GAMMA	320.000 [API-GR]	322.00 [CPS]
2	Jun27.07 04:18:03	NEUTROI	Default [CPS]	Default [CPS]
	Jun27.07 04:18:03	NEUTROI	Default [CPS]	Default [CPS]
3	Jul02.07 06:38:12	SP	0.000 [MV]	340672.00 [CPS]
	Jul02.07 06:38:12	SP	357.000 [MV]	171410.00 [CPS]
4	Jul10.07 04:41:27	RES(16N)	0.000 [OHM-M]	5464.00 [CPS]
	Jul10.07 04:41:27	RES(16N)	1996.000 [OHM-M]	422317.00 [CPS]
5	Jun27.07 04:27:01	RES(64N)	0.000 [OHM-M]	4823.00 [CPS]
	Jun27.07 04:27:01	RES(64N)	1990.000 [OHM-M]	418052.00 [CPS]
6	Jul02.07 06:45:45	TEMP	52.600 [DEG F]	341402.00 [CPS]
	Jul02.07 06:45:45	TEMP	113.100 [DEG F]	387139.00 [CPS]
7	Jul10.07 04:42:24	RES	0.000 [OHM]	4956.00 [CPS]
	Jul10.07 04:42:24	RES	989.000 [OHM]	162246.00 [CPS]

COMPANY	FIRST COAL	OTHER SERVICES:
WELL	DDH # 04/07	NEUTRON
COUNTY	BOULDER	
STATE	CANADA	
LOCATION	BRITISH COLUMBIA	
SECTION	A1 LINE	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.	:	
PERMANENT DATUM	GL	ELEVATION KB N/A
LOG MEASURED FROM GL		ELEVATION DF N/A
DRL MEASURED FROM GL		ELEVATION GL N/A
DATE	01/23/08	
DEPTH DRILLER	98.36	
BIT SIZE	7.6	
LOG TOP	0.08	
LOG BOTTOM	98.07	
CASING OD	11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.10	
WITNESSED BY	:	
RECORDED BY	J. NEAL	
REMARKS 1	50 DEGREE	
REMARKS 2	AZIMUTH 230	

1:100 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
 PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008 VERSION = 3.64EK



1:100 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
 PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 04/07 01/23/08 12:02
 TOOL 9139C1 TM VERSION 1015
 SERIAL NUMBER 1269

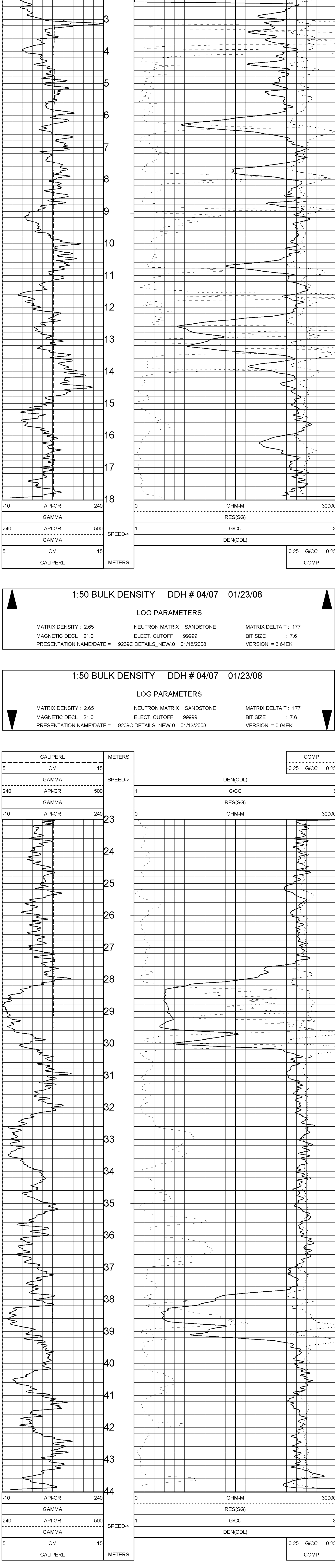
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07 12:42:07	GAMMA	0.000 [API-GR]	20.00 [CPS]
1	Oct18,07 12:42:07	GAMMA	250.000 [API-GR]	278.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	0.000 [MV]	4588.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	1987.000 [MV]	271844.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	8.890 [CM]	176300.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	15.240 [CM]	331000.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	1.000 [G/CC]	29037.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	2.323 [G/CC]	2485.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	1.000 [G/CC]	48630.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	2.323 [G/CC]	20800.00 [CPS]
6	May17,07 10:06:22	CALIPER	16.750 [CM]	219680.00 [CPS]
6	May17,07 10:06:22	CALIPER	23.200 [CM]	304210.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	0.000 [UA]	5380.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	284.670 [UA]	28477.00 [CPS]
8	Aug09,06 11:11:25	TEMP	9.720 [DEG C]	214750.00 [CPS]
8	Aug09,06 11:11:25	TEMP	45.550 [DEG C]	430700.00 [CPS]
9	Aug09,06 11:08:22	X	Default [CPS]	
10	Aug09,06 11:08:22	Y	Default [CPS]	

COMPANY	FIRST COOL	OTHER SERVICES:	NEUTRON
WELL	DDH # 04/07		
FIELD	BOULDER		
COUNTY	CANADA		
STATE	BRITISH COLUMBIA		
LOCATION	A11 LINE		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
API NO.	N/A		
UNIQUE WELL ID			
PERMANENT DATUM	SL	ELEVATION @B N/A	
LOG MEASURED FROM SL		ELEVATION OF N/A	
DLL MEASURED FROM SL		ELEVATION @L N/A	
DATE	07/23/08		
DEPTH DRILLER	99 36		
BIT SIZE	7.6		
LOG TOP	0.08		
LOG BOTTOM	58.07		
CASING OD	11.43		
CASING BOTTOM	4.97		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.10		
RECORDED BY	J. NEAL		
RECORDED BY	40 DEGREE		
REMARKS 1	AZIMUTH 330		
REMARKS 2			

1:50 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK



1:50 BULK DENSITY DDH # 04/07 01/23/08

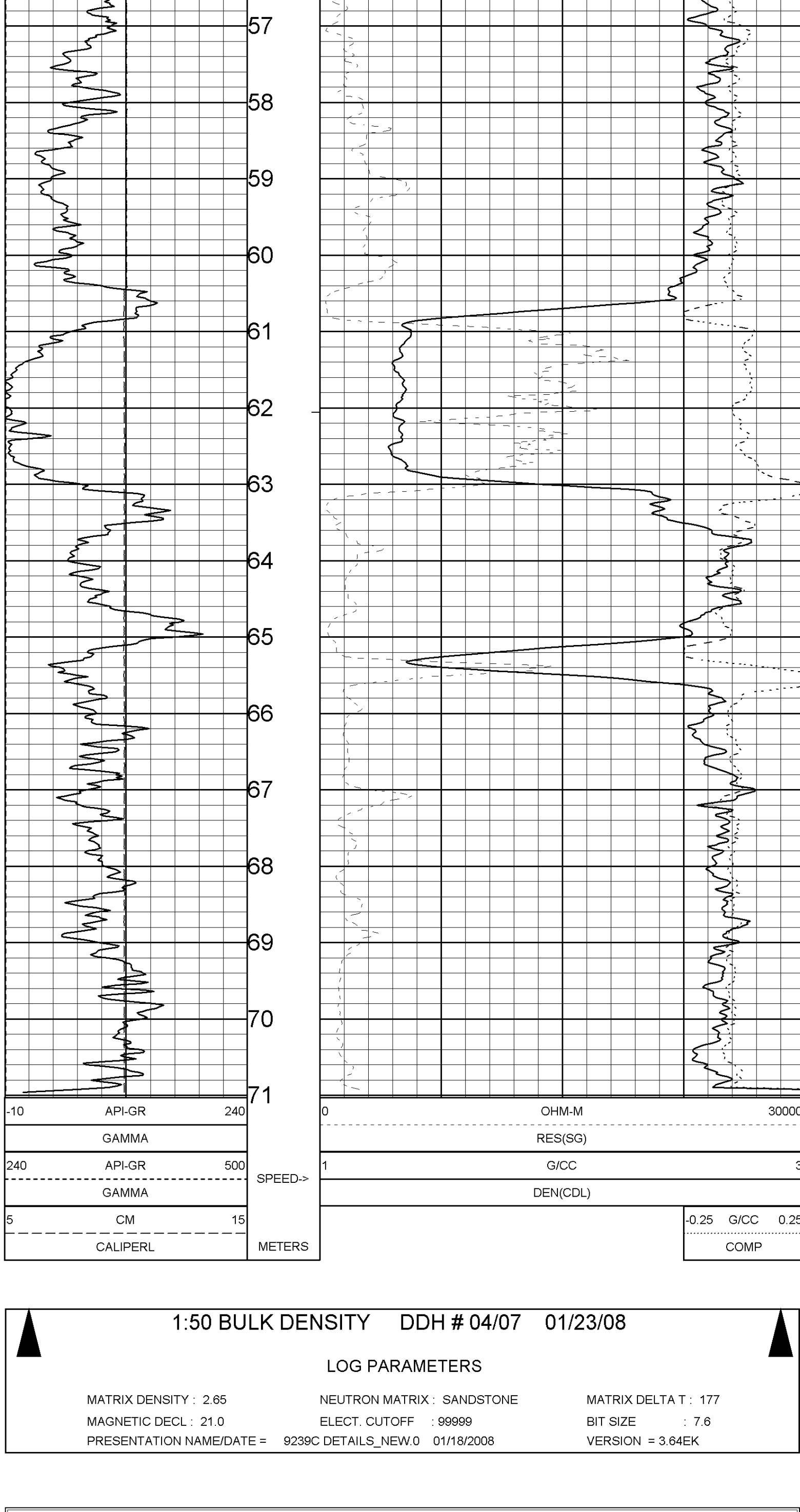
LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK

1:50 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK



1:50 BULK DENSITY DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239C DETAILS_NEW.0	01/18/2008	VERSION = 3.64EK

TOOL CALIBRATION DDH # 04/07 01/23/08 12:02

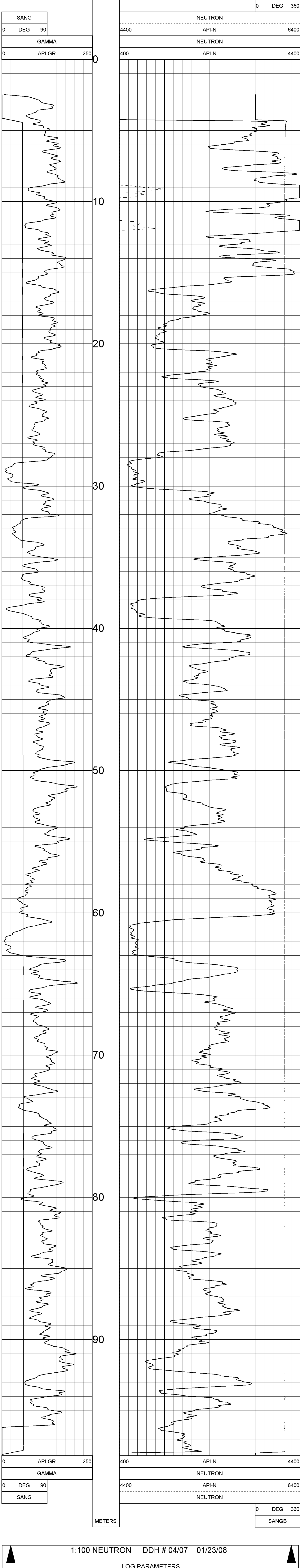
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07	GAMMA	0.000 [API-GR]	20.00 [CPS]
1	Oct18,07	GAMMA	250.000 [API-GR]	278.00 [CPS]
2	Aug09,06	VOLTAGE	0.000 [MV]	4588.00 [CPS]
2	Aug09,06	VOLTAGE	1987.000 [MV]	271844.00 [CPS]
3	Aug09,06	CALIPER	8.890 [CM]	176300.00 [CPS]
3	Aug09,06	CALIPER	15.240 [CM]	331000.00 [CPS]
4	Oct11,07	DEN(LS)	1.000 [G/CC]	29037.00 [CPS]
4	Oct11,07	DEN(LS)	2.323 [G/CC]	2485.00 [CPS]
5	Jan20,08	DEN(SS)	1.000 [G/CC]	48930.00 [CPS]
5	Jan20,08	DEN(SS)	2.323 [G/CC]	20800.00 [CPS]
6	May17,07	CALIPERL	16.750 [CM]	219880.00 [CPS]
6	May17,07	CALIPERL	23.200 [CM]	304210.00 [CPS]
7	Aug09,06	CURRENT	0.000 [UA]	5380.00 [CPS]
7	Aug09,06	CURRENT	284.670 [UA]	28477.00 [CPS]
8	Aug09,06	TEMP	9.720 [DEG C]	214750.00 [CPS]
8	Aug09,06	TEMP	45.550 [DEG C]	430700.00 [CPS]
9	Aug09,06	X	Default	
10	Aug09,06	Y	Default	

COMPANY	FIRST COAL	OTHER SERVICES:
WELL	DDH # 04/07	DENSITY
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	A1 LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID.	:	
PERMANENT DATUM	GL	ELEVATION KB N/A
LOG MEASURED FROM	GL	ELEVATION DF N/A
DRL MEASURED FROM	GL	ELEVATION QL N/A
DATE	01/23/08	
DEPTH DRILLER	98.36	
BIT SIZE	7.6	
LOG TOP	2.47	
LOG BOTTOM	98.11	
CASING OD	11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
RM TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
WITNESSED BY	:	
RECORDED BY	J. NEAL	
REMARKS 1	50 DEGREE	
REMARKS 2	AZIMUTH 290	

1:100 NEUTRON DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
 PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008 VERSION = 3.64EK



1:100 NEUTRON DDH # 04/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
 PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 04/07 01/23/08 11:40
 TOOL 9057A TM VERSION 5500
 SERIAL NUMBER 4429

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul02,07 06:48:29	GAMMA	0.000 [API-GR]	4.00 [CPS]
2	Jul02,07 06:48:29	GAMMA	320.000 [API-GR]	322.00 [CPS]
3	Jun27,07 04:18:03	NEUTRON	Default [CPS]	Default [CPS]
4	Jun27,07 04:18:03	NEUTRON	Default [CPS]	Default [CPS]
5	Jul02,07 06:38:12	SP	0.000 [MV]	340672.00 [CPS]
6	Jul02,07 06:38:12	SP	357.000 [MV]	171410.00 [CPS]
7	Jul10,07 04:41:27	RES(16N)	0.000 [OHM-M]	5464.00 [CPS]
8	Jul10,07 04:41:27	RES(16N)	1996.000 [OHM-M]	422317.00 [CPS]
9	Jun27,07 04:27:01	RES(64N)	0.000 [OHM-M]	4823.00 [CPS]
10	Jun27,07 04:27:01	RES(64N)	1990.000 [OHM-M]	418052.00 [CPS]
11	Jul02,07 06:45:45	TEMP	52.600 [DEG F]	341402.00 [CPS]
12	Jul02,07 06:45:45	TEMP	113.100 [DEG F]	387139.00 [CPS]
13	Jul10,07 04:42:24	RES	0.000 [OHM]	4956.00 [CPS]
14	Jul10,07 04:42:24	RES	989.000 [OHM]	162246.00 [CPS]

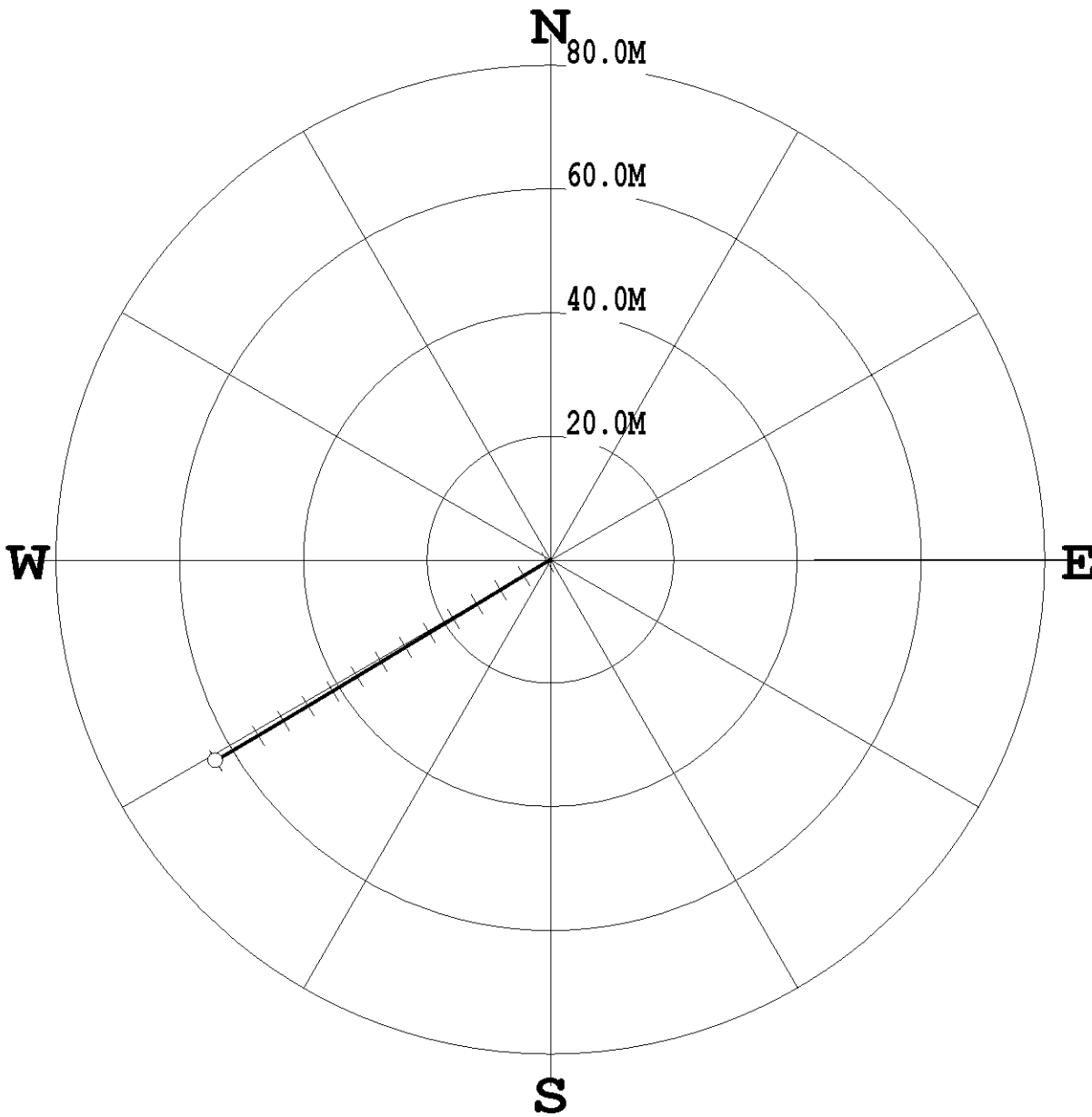
PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL
 LOCATION: BOULDER
 HOLE ID: DDH # 04/07
 DATE OF LOG: 01/23/08
 PROBE: 9057A 4429



MAG DECL: 21.0

SCALE: 10 M/CM
 TRUE DEPTH: 73.41 M
 AZIMUTH: 239.1
 DISTANCE: 63.2 M
 + = 5 M INCR
 ○ = BOTTOM OF HOLE



***** COMPU-LOG - VERTICAL DEVIATION *****

CLIENT	: FIRST COAL	HOLE ID.	: DDH # 04/07
FIELD OFFICE	: CENTURY GEO	DATE OF LOG	: 01/23/08
DATA FROM	: N/A	PROBE	: 9057A , 4429
MAG. DECL.	: 21.000	DEPTH UNITS	: METERS
LOG: DDH#04-07_01-23-08_11-40_9057A_.02_2.47_98.11_DEVI.log			

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
4.32	4.30	-0.00	-0.01	0.0	256.6	41.6	256.6
6.00	5.56	-0.52	-1.00	1.1	242.7	41.5	240.0
8.00	7.06	-1.19	-2.14	2.4	240.9	41.5	238.9
10.00	8.56	-1.87	-3.28	3.8	240.2	41.5	238.8
12.00	10.06	-2.56	-4.41	5.1	239.9	41.5	238.6
14.00	11.55	-3.25	-5.54	6.4	239.6	41.6	238.8
16.00	13.05	-3.93	-6.68	7.8	239.5	41.6	238.9
18.00	14.55	-4.62	-7.81	9.1	239.4	41.6	239.7
20.00	16.04	-5.31	-8.95	10.4	239.3	41.6	238.8
22.00	17.54	-6.00	-10.08	11.7	239.2	41.6	238.7
24.00	19.03	-6.69	-11.22	13.1	239.2	41.7	238.9
26.00	20.52	-7.38	-12.36	14.4	239.2	41.8	238.8
28.00	22.02	-8.07	-13.50	15.7	239.1	41.7	238.7
30.00	23.51	-8.76	-14.64	17.1	239.1	41.8	238.6
32.00	25.00	-9.45	-15.78	18.4	239.1	41.8	238.7
34.00	26.49	-10.14	-16.92	19.7	239.1	41.9	239.0
36.00	27.97	-10.83	-18.07	21.1	239.1	42.0	239.0
38.00	29.46	-11.52	-19.22	22.4	239.1	42.0	239.1
40.00	30.94	-12.21	-20.36	23.7	239.1	42.1	238.9
42.00	32.43	-12.90	-21.51	25.1	239.0	42.1	238.9
44.00	33.91	-13.59	-22.66	26.4	239.0	42.2	238.9
46.00	35.39	-14.29	-23.81	27.8	239.0	42.2	238.8
48.00	36.87	-14.98	-24.97	29.1	239.0	42.3	238.9
50.00	38.35	-15.68	-26.12	30.5	239.0	42.3	238.8
52.00	39.83	-16.38	-27.27	31.8	239.0	42.4	239.0
54.00	41.30	-17.07	-28.43	33.2	239.0	42.5	239.0
56.00	42.78	-17.77	-29.58	34.5	239.0	42.5	238.9
58.00	44.25	-18.47	-30.74	35.9	239.0	42.6	239.7
60.00	45.73	-19.17	-31.90	37.2	239.0	42.6	238.9
62.00	47.20	-19.86	-33.06	38.6	239.0	42.6	239.2
64.00	48.67	-20.56	-34.22	39.9	239.0	42.7	239.0
66.00	50.14	-21.26	-35.38	41.3	239.0	42.7	239.0
68.00	51.61	-21.96	-36.55	42.6	239.0	42.7	239.1
70.00	53.08	-22.66	-37.71	44.0	239.0	42.8	238.8
72.00	54.55	-23.36	-38.87	45.4	239.0	42.9	239.4
74.00	56.01	-24.06	-40.04	46.7	239.0	43.0	239.3
76.00	57.47	-24.76	-41.22	48.1	239.0	43.1	239.3
78.00	58.93	-25.46	-42.39	49.4	239.0	43.0	239.0
80.00	60.39	-26.16	-43.56	50.8	239.0	43.1	239.3
82.00	61.85	-26.86	-44.74	52.2	239.0	43.3	239.4
84.00	63.31	-27.56	-45.92	53.6	239.0	43.4	239.5
86.00	64.76	-28.26	-47.10	54.9	239.0	43.5	239.6
88.00	66.21	-28.96	-48.29	56.3	239.1	43.5	239.6
90.00	67.66	-29.65	-49.47	57.7	239.1	43.6	239.6
92.00	69.11	-30.35	-50.66	59.1	239.1	43.5	239.0
94.00	70.56	-31.05	-51.85	60.4	239.1	43.6	238.9
96.00	72.01	-31.75	-53.04	61.8	239.1	43.7	239.6
98.00	73.47	-32.43	-54.20	63.2	239.1	0.0	0.0
97.94	73.41	-32.43	-54.20	63.2	239.1	43.7	239.6

COMPANY: FIRST COAL
WELL: DDH # 0507
FIELD: BOULDER
COUNTY: CANADA
STATE: BRITISH COLUMBIA

OTHER SERVICES: NEUTRON

LOCATION: AT LINE
SECTION: N/A
TOWNSHIP: N/A
RANGE: N/A
API NO.: N/A
UNIQUE WELL ID:

PERMANENT DATUM: GL
LOG MEASURED FROM: GL
ELEVATION M: N/A
ELEVATION OF N/A
ELEVATION SL: N/A

DATE: 01/23/08
DEPTH DRILLER: 7.9
BIT SIZE: 140.92
LOG TOP: -0.45
LOG BOTTOM: -138.42
CASING OD: 114.3
CASING BOTTOM: 4.57

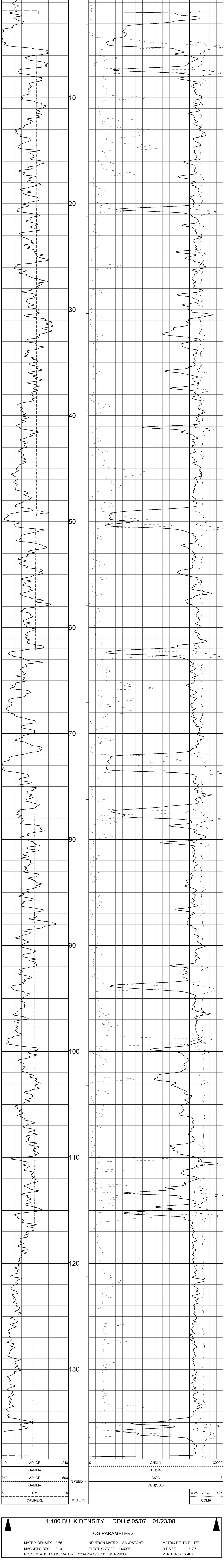
CASING TYPE: STEEL
BOREHOLE FLUID: WATER
MUD RES: N/A
MUD WEIGHT: 1.0
WITNESSED BY: J. NEAL
RECORDED BY: J. NEAL
REMARKS 1: 50 DEGREE
REMARKS 2: AZIMUTH 230

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

1:100 BULK DENSITY DDH # 05/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008 VERSION = 3.64EK



1:100 BULK DENSITY DDH # 05/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 05/07 01/23/08 12:28
TOOL 9139C1 TM VERSION 1015
SERIAL NUMBER 1269

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07 12:42:07	GAMMA	0.000 [API-GR]	27.00 [CPS]
	Oct18,07 12:42:07	GAMMA	250.000 [API-GR]	278.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	0.000 [MV]	4588.00 [CPS]
	Aug09,06 11:09:11	VOLTAGE	1987.000 [MV]	271844.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	8.890 [CM]	176300.00 [CPS]
	Aug09,06 11:09:45	CALIPER	15.240 [CM]	331000.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	1.000 [G/CC]	29037.00 [CPS]
	Oct11,07 11:35:59	DEN(LS)	2.323 [G/CC]	2485.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	1.000 [G/CC]	48630.00 [CPS]
	Jan20,08 11:23:14	DEN(SS)	2.323 [G/CC]	20800.00 [CPS]
6	May17,07 10:06:22	CALIPERL	16.750 [CM]	219680.00 [CPS]
	May17,07 10:06:22	CALIPERL	23.200 [CM]	304210.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	0.000 [UA]	5380.00 [CPS]
	Aug09,06 11:10:59	CURRENT	284.670 [UA]	34277.00 [CPS]
8	Aug09,06 11:11:25	TEMP	9.720 [DEG C]	214750.00 [CPS]
	Aug09,06 11:11:25	TEMP	45.550 [DEG C]	430700.00 [CPS]
9	Aug09,06 11:08:22	X	Default [CPS]	
10		X	Default [CPS]	

COMPANY: FIRST COAL
WELL: BOULDER
FIELD: DDH # 05/07
COUNTY: CANADA
STATE: BRITISH COLUMBIA

OTHER SERVICES:
DENSITY

LOCATION: AT LINE
SECTION: N/A
TOWNSHIP: N/A
RANGE: N/A
APR NO.: N/A
UNIQUE WELL ID:

PERMANENT DATUM: SL
LOG MEASURED FROM: GL
DRL MEASURED FROM: GL

DATE: 01/23/08
DEPTH DRILLER: 7.8
BIT SIZE: 140.92

ELEVATION TB N/A
ELEVATION DF N/A
ELEVATION GL N/A

LOG TOP: 5.96
LOG BOTTOM: 137.31
CASING OD: 11.43
CASING BOTTOM: 4.57

CASING TYPE: STEEL
BOREHOLE FLUID: WATER
RIM TEMPERATURE: N/A
MUD RES: 1.0
MUD WEIGHT: 1.0

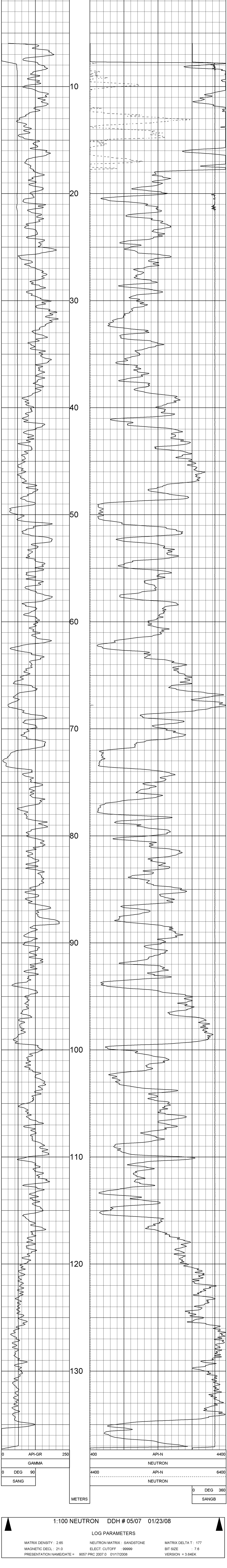
WITNESSED BY: J. NEAL
RECORDED BY: 50 DEGREE
REMARKS 1: AZIMUTH 230
REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

1:100 NEUTRON DDH # 05/07 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008 VERSION = 3.64EK



1:100 NEUTRON DDH # 05/07 01/23/08

LOG PARAMETERS

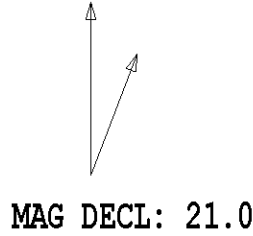
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21.0 ELECT. CUTOFF : 99999 BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008 VERSION = 3.64EK

TOOL CALIBRATION DDH # 05/07 01/23/08 13:03
TOOL 9057A TM VERSION 5500
SERIAL NUMBER 4429

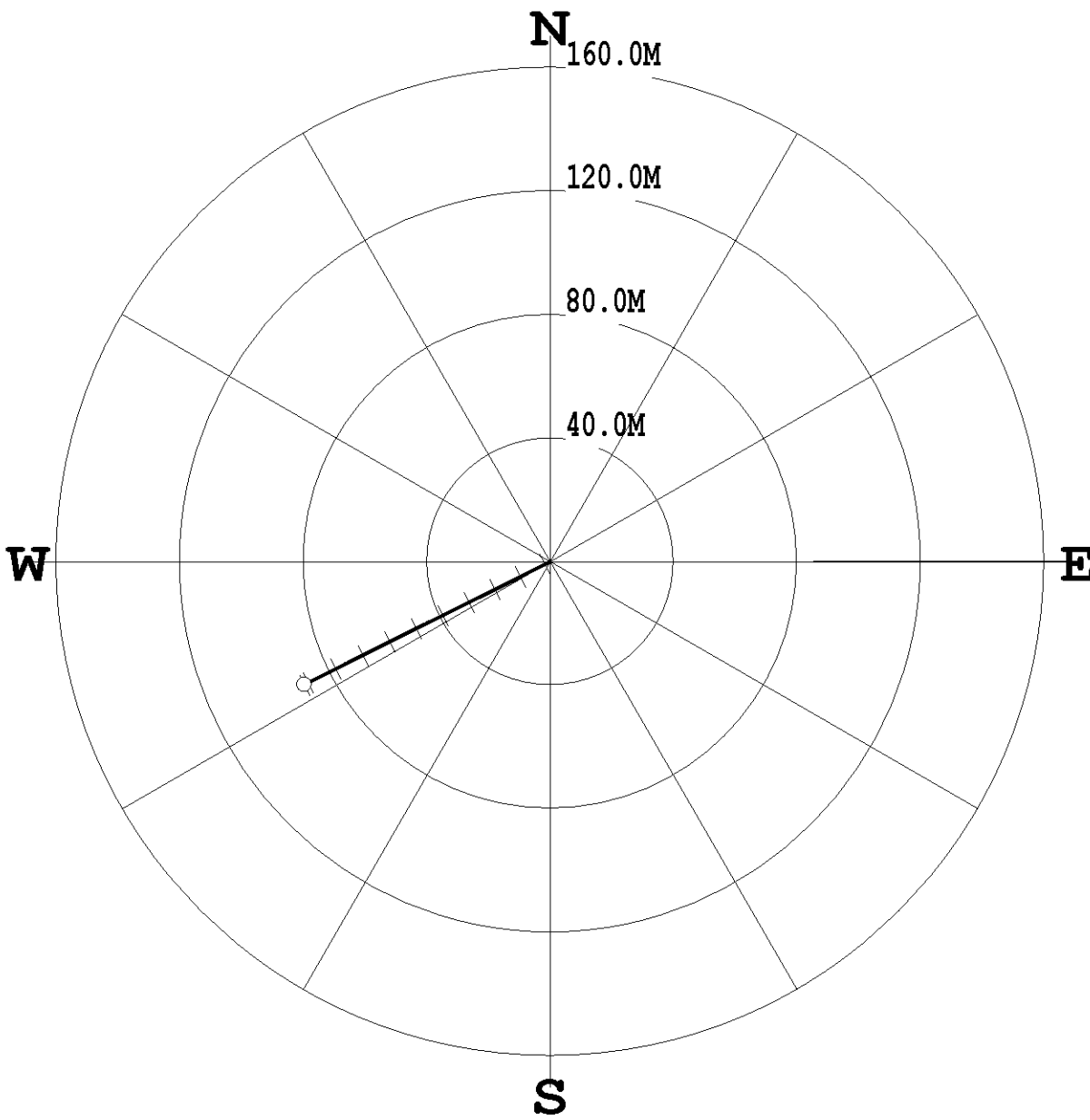
DATE	TIME	SENSOR	STANDARD	RESPONSE
Jul02,07	06:48:29	GAMMA	0.000 [API-GR]	4.00 [CPS]
Jul02,07	06:48:29	GAMMA	320.000 [API-GR]	322.00 [CPS]
Jun27,07	04:18:03	NEUTROI	Default [CPS]	Default [CPS]
Jun27,07	04:18:03	NEUTROI	Default [CPS]	Default [CPS]
Jul02,07	06:38:12	SP	0.000 [MV]	340672.00 [CPS]
Jul02,07	06:38:12	SP	357.000 [MV]	171410.00 [CPS]
Jul10,07	04:41:27	RES(16N)	0.000 [OHM-M]	5464.00 [CPS]
Jul10,07	04:41:27	RES(16I)	1996.000 [OHM-M]	422317.00 [CPS]
Jun27,07	04:27:01	RES(64N)	0.000 [OHM-M]	4823.00 [CPS]
Jun27,07	04:27:01	RES(64I)	1990.000 [OHM-M]	341402.00 [CPS]
Jul02,07	06:45:45	TEMP	52.600 [DEG F]	387139.00 [CPS]
Jul02,07	06:45:45	TEMP	113.100 [DEG F]	4956.00 [CPS]
Jul10,07	04:42:24	RES	0.000 [OHM]	1925.00 [CPS]
Jul10,07	04:42:24	RES	989.000 [OHM]	162246.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL
 LOCATION: BOULDER
 HOLE ID: DDH # 05/07
 DATE OF LOG: 01/23/08
 PROBE: 9057A 4429



SCALE: 20 M/CM
 TRUE DEPTH: 101.44 M
 AZIMUTH: 243.4
 DISTANCE: 89.0 M
 + = 10 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : FIRST COAL	HOLE ID. : DDH # 05/07
FIELD OFFICE : CENTURY GEO	DATE OF LOG : 01/23/08
DATA FROM : N/A	PROBE : 9057A , 4429
MAG. DECL. : 21.000	DEPTH UNITS : METERS
LOG: DDH#05-07_01-23-08_13-03_9057A_.02_5.96_137.31_DEVI.log	

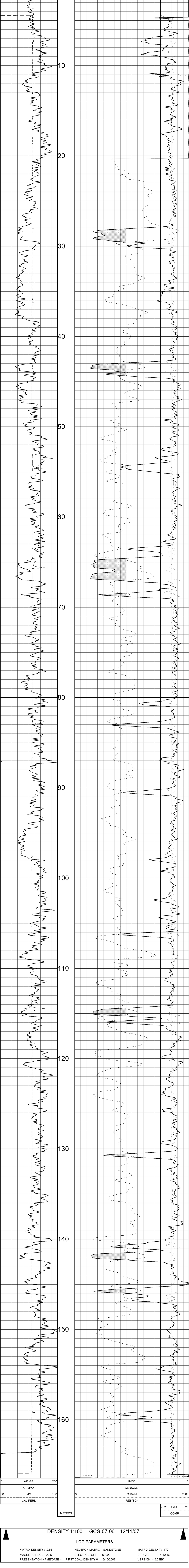
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
7.78	7.77	-0.00	-0.01	0.0	249.1	42.1	249.1
8.00	7.94	-0.07	-0.10	0.1	235.1	39.1	262.4
10.00	9.43	-0.64	-1.24	1.4	242.7	41.9	243.3
12.00	10.91	-1.24	-2.45	2.7	243.1	42.0	243.6
14.00	12.40	-1.84	-3.65	4.1	243.3	42.2	243.4
16.00	13.88	-2.44	-4.85	5.4	243.3	42.3	243.5
18.00	15.35	-3.04	-6.06	6.8	243.4	42.4	243.5
20.00	16.83	-3.64	-7.27	8.1	243.4	42.5	245.9
22.00	18.32	-4.21	-8.30	9.3	243.1	42.4	243.3
24.00	19.79	-4.81	-9.51	10.7	243.2	42.5	242.4
26.00	21.27	-5.42	-10.72	12.0	243.2	42.6	243.2
28.00	22.74	-6.02	-11.93	13.4	243.2	42.6	244.0
30.00	24.22	-6.63	-13.14	14.7	243.2	42.6	242.9
32.00	25.69	-7.24	-14.35	16.1	243.2	42.6	244.0
34.00	27.16	-7.84	-15.56	17.4	243.2	42.7	243.1
36.00	28.63	-8.45	-16.77	18.8	243.3	42.7	243.5
38.00	30.10	-9.06	-17.98	20.1	243.3	42.8	243.6
40.00	31.57	-9.66	-19.20	21.5	243.3	42.8	243.7
42.00	33.03	-10.27	-20.42	22.9	243.3	42.9	243.4
44.00	34.50	-10.88	-21.64	24.2	243.3	43.0	243.8
46.00	35.96	-11.48	-22.86	25.6	243.3	43.1	244.2
48.00	37.42	-12.09	-24.08	26.9	243.4	43.2	243.8
50.00	38.88	-12.69	-25.31	28.3	243.4	43.3	243.7
52.00	40.33	-13.30	-26.54	29.7	243.4	43.3	242.9
54.00	41.79	-13.91	-27.77	31.1	243.4	43.3	243.6
56.00	43.24	-14.52	-29.00	32.4	243.4	43.4	243.4
58.00	44.70	-15.13	-30.23	33.8	243.4	43.4	243.6
60.00	46.15	-15.74	-31.46	35.2	243.4	43.5	243.6
62.00	47.60	-16.36	-32.69	36.6	243.4	43.5	244.0
64.00	49.05	-16.97	-33.93	37.9	243.4	43.5	243.3
66.00	50.50	-17.58	-35.16	39.3	243.4	43.6	243.8
68.00	51.95	-18.19	-36.40	40.7	243.4	43.7	243.8
70.00	53.39	-18.80	-37.64	42.1	243.5	43.8	244.0
72.00	54.84	-19.41	-38.88	43.5	243.5	43.7	243.9
74.00	56.28	-20.03	-40.12	44.8	243.5	43.8	243.8
76.00	57.73	-20.64	-41.36	46.2	243.5	43.8	243.4
78.00	59.17	-21.26	-42.60	47.6	243.5	43.8	243.6
80.00	60.61	-21.87	-43.84	49.0	243.5	43.8	243.8
82.00	62.06	-22.48	-45.08	50.4	243.5	43.8	243.7
84.00	63.50	-23.10	-46.32	51.8	243.5	43.9	243.6
86.00	64.94	-23.72	-47.56	53.1	243.5	43.9	243.9
88.00	66.38	-24.34	-48.80	54.5	243.5	43.8	243.3
90.00	67.82	-24.96	-50.04	55.9	243.5	44.0	243.7
92.00	69.26	-25.58	-51.29	57.3	243.5	44.0	243.7
94.00	70.70	-26.20	-52.53	58.7	243.5	44.0	243.5
96.00	72.14	-26.82	-53.77	60.1	243.5	44.1	243.8
98.00	73.58	-27.44	-55.02	61.5	243.5	44.1	243.5
100.00	75.01	-28.06	-56.26	62.9	243.5	44.2	245.3
102.00	76.45	-28.68	-57.51	64.3	243.5	44.3	243.5
104.00	77.88	-29.31	-58.76	65.7	243.5	44.2	243.8
106.00	79.31	-29.93	-60.01	67.1	243.5	44.3	243.3
108.00	80.74	-30.56	-61.26	68.5	243.5	44.3	243.5
110.00	82.17	-31.19	-62.50	69.9	243.5	44.3	243.2
112.00	83.60	-31.82	-63.75	71.3	243.5	44.4	242.9
114.00	85.03	-32.45	-65.00	72.6	243.5	44.4	243.2
116.00	86.46	-33.08	-66.25	74.0	243.5	44.4	243.0
118.00	87.89	-33.71	-67.50	75.4	243.5	44.5	242.9
120.00	89.32	-34.35	-68.75	76.9	243.5	44.5	243.3
122.00	90.74	-34.98	-70.00	78.3	243.4	44.7	243.1
124.00	92.16	-35.62	-71.26	79.7	243.4	44.8	243.3
126.00	93.58	-36.25	-72.51	81.1	243.4	44.8	243.0
128.00	95.00	-36.89	-73.77	82.5	243.4	45.0	243.3
130.00	96.41	-37.53	-75.04	83.9	243.4	45.1	243.3
132.00	97.82	-38.16	-76.31	85.3	243.4	45.2	243.6
134.00	99.23	-38.80	-77.57	86.7	243.4	45.2	243.1
136.00	100.64	-39.44	-78.84	88.2	243.4	45.2	243.3
137.14	101.44	-39.80	-79.57	89.0	243.4	45.2	243.3

		GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY GCS-07-06	
century-geo.com COMPANY : FIRST COAL WELL : GCS-07-06 FIELD : COUNTRY : CANADA PROVINCE : BRITISH COLUMBIA LOCATION : SECTION : N/A TOWNSHIP : N/A RANGE : N/A API NO. : N/A UNIQUE WELL ID :		OTHER SERVICES: DENI :	
PERMANENT DATUM : GL LOG MEASURED FROM : GL DRL MEASURED FROM : GL ELEVATION KB : N/A ELEVATION DE : N/A ELEVATION QL : N/A			
DATE : 12/11/07 DEPTH DRILLER : 187.6 BIT SIZE : 10.16 LOG TOP : 0.47 LOG BOTTOM : 189.44 CASING OD : 7.62 CASING BOTTOM : 5			
CASING TYPE : STEEL BOREHOLE FLUID : WATER FMD TEMPERATURE : N/A MUD RES : N/A MUD WEIGHT : 1.0 WITNESSED BY : SNEIDER RECORDED BY : REMARKS 1 : 50 DEGREE HOLE REMARKS 2 : TOOL STOPPED AROUND 9M, LOG STUCK ON CASING			
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS			

DENSITY 1:100 GCS-07-06 12/11/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL. : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 10.16
 PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007 VERSION = 3.64EK



DENSITY 1:100 GCS-07-06 12/11/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
 MAGNETIC DECL. : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 10.16
 PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007 VERSION = 3.64EK

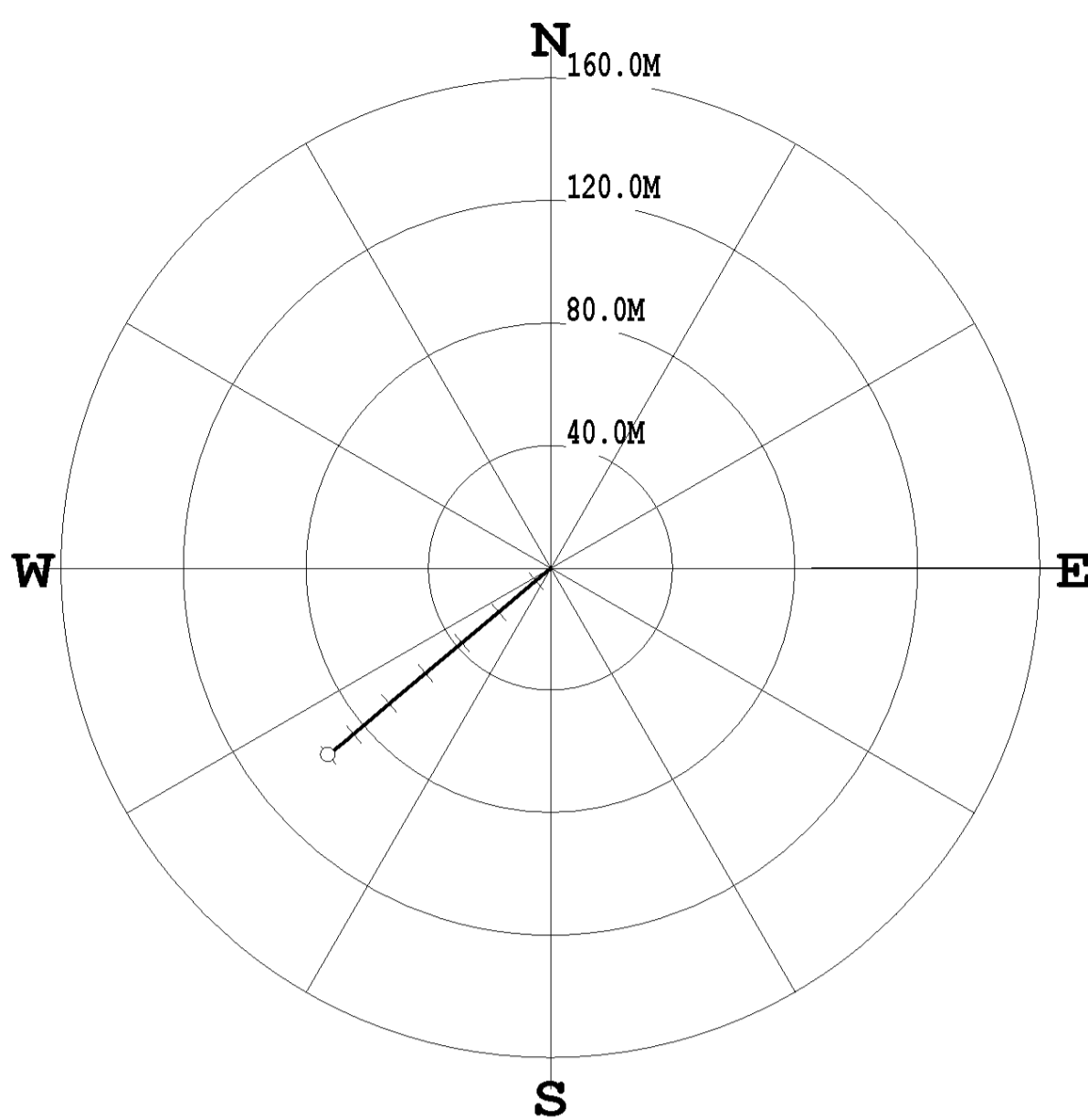
TOOL CALIBRATION GCS-07-06 12/11/07 11:51			
TOOL 9239C1 TM VERSION 2018			
SERIAL NUMBER 4428			
DATE	TIME	SENSOR	STANDARD
1	Oct04.07 14:22:06	GAMMA	7.000 [API-GR]
2	Oct04.07 14:22:06	GAMMA	320.000 [API-GR]
3	Sep30.07 13:04:13	VOLTAGE	28.000 [MV]
4	Sep30.07 13:02:50	CALIPER	101.600 [INCH]
5	Sep30.07 13:02:50	CALIPER	155.000 [INCH]
6	Dec13.07 11:50:04	DEN(LS)	1.000 [G/CC]
7	Dec13.07 11:50:04	DEN(LS)	2.320 [G/CC]
8	Dec13.07 11:50:04	DEN(SS)	1.000 [G/CC]
9	Dec13.07 12:46:31	DEN(SS)	2.320 [G/CC]
10	Oct04.07 14:23:08	CALIPERL	101.600 [INCH]
11	Oct04.07 14:23:08	CALIPERL	152.400 [INCH]
12	Aug29.07 17:33:59	CURRENT	12.100 [UA]
13	Aug29.07 17:33:59	CURRENT	243.400 [UA]
14	Aug17.07 14:21:05	F	Default [CPA]
15	Aug17.07 14:21:10	X	Default [CPS]
			RESPONSE
			0.00 [CPS]
			341.00 [CPS]
			8110.00 [CPS]
			80124.00 [CPS]
			157151.47 [CPS]
			269880.00 [CPS]
			27756.00 [CPS]
			2949.00 [CPS]
			55255.00 [CPS]
			22002.00 [CPS]
			101149.00 [CPS]
			168341.00 [CPS]
			5600.00 [CPS]
			23120.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL
 LOCATION:
 HOLE ID: GCS-07-06
 DATE OF LOG: 12/11/07
 PROBE: 9057A 4400

↑
 ↗
 MAG DECL: 22.5

SCALE: 20 M/CM
 TRUE DEPTH: 133.85 M
 AZIMUTH: 230.0
 DISTANCE: 94.9 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : FIRST COAL	HOLE ID. : GCS-07-06
FIELD OFFICE : CENTURY GEO	DATE OF LOG : 12/11/07
DATA FROM : N/A	PROBE : 9057A , 4400
MAG. DECL. : 22.500	DEPTH UNITS : METERS
LOG: GCS-07-06_12-11-07_11-13_9057A_02_12.00_166.64_DEVI_log	

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
12.02	12.02	-0.01	-0.01	0.0	230.2	38.7	230.2
13.00	12.78	-0.40	-0.48	0.6	230.2	38.7	229.9
14.00	13.56	-0.80	-0.96	1.2	230.2	38.7	230.2
15.00	14.34	-1.20	-1.44	1.9	230.1	38.7	230.0
16.00	15.12	-1.60	-1.92	2.5	230.1	38.6	229.7
17.00	15.90	-2.00	-2.40	3.1	230.1	38.7	229.9
18.00	16.69	-2.41	-2.87	3.7	230.1	38.6	229.7
19.00	17.47	-2.81	-3.35	4.4	230.1	38.6	229.9
20.00	18.25	-3.21	-3.83	5.0	230.1	38.6	229.9
21.00	19.03	-3.61	-4.31	5.6	230.0	38.6	229.4
22.00	19.81	-4.01	-4.79	6.2	230.0	38.6	229.8
23.00	20.59	-4.41	-5.26	6.9	230.0	38.6	229.8
24.00	21.37	-4.82	-5.74	7.5	230.0	38.6	229.7
25.00	22.16	-5.22	-6.22	8.1	230.0	38.6	229.8
26.00	22.94	-5.62	-6.69	8.7	230.0	38.6	229.8
27.00	23.72	-6.02	-7.17	9.4	230.0	38.6	229.8
28.00	24.50	-6.43	-7.64	10.0	230.0	38.6	229.9
29.00	25.28	-6.83	-8.12	10.6	229.9	38.5	230.1
30.00	26.07	-7.23	-8.60	11.2	229.9	38.5	230.3
31.00	26.85	-7.63	-9.07	11.9	229.9	38.5	230.0
32.00	27.63	-8.03	-9.55	12.5	229.9	38.4	229.9
33.00	28.42	-8.43	-10.02	13.1	229.9	38.4	229.8
34.00	29.20	-8.83	-10.50	13.7	229.9	38.4	229.5
35.00	29.98	-9.23	-10.97	14.3	229.9	38.4	229.5
36.00	30.77	-9.63	-11.45	15.0	229.9	38.4	229.3
37.00	31.55	-10.03	-11.92	15.6	229.9	38.3	229.7
38.00	32.33	-10.43	-12.39	16.2	229.9	38.3	231.4
39.00	33.12	-10.83	-12.87	16.8	229.9	38.4	230.0
40.00	33.90	-11.23	-13.34	17.4	229.9	38.4	229.7
41.00	34.69	-11.63	-13.82	18.1	229.9	38.4	229.9
42.00	35.47	-12.03	-14.29	18.7	229.9	38.3	230.0
43.00	36.26	-12.43	-14.77	19.3	229.9	38.3	229.9
44.00	37.04	-12.83	-15.24	19.9	229.9	38.2	229.7
45.00	37.83	-13.23	-15.72	20.5	229.9	38.3	229.9
46.00	38.61	-13.63	-16.19	21.2	229.9	38.3	229.5
47.00	39.40	-14.03	-16.66	21.8	229.9	38.3	229.9
48.00	40.18	-14.42	-17.14	22.4	229.9	38.3	230.0
49.00	40.97	-14.82	-17.61	23.0	229.9	38.4	230.3
50.00	41.75	-15.22	-18.09	23.6	229.9	38.3	230.0
51.00	42.54	-15.62	-18.56	24.3	229.9	38.2	229.9
52.00	43.32	-16.02	-19.03	24.9	229.9	38.3	230.2
53.00	44.11	-16.42	-19.51	25.5	229.9	38.2	229.9
54.00	44.89	-16.81	-19.98	26.1	229.9	38.1	229.9
55.00	45.68	-17.21	-20.45	26.7	229.9	38.1	230.1
56.00	46.47	-17.61	-20.93	27.3	229.9	38.0	230.2
57.00	47.26	-18.00	-21.40	28.0	229.9	38.0	230.1
58.00	48.04	-18.40	-21.87	28.6	229.9	38.1	230.2
59.00	48.83	-18.79	-22.35	29.2	229.9	38.1	230.1
60.00	49.62	-19.19	-22.82	29.8	229.9	38.1	230.2
61.00	50.40	-19.58	-23.29	30.4	229.9	38.0	230.1
62.00	51.19	-19.98	-23.76	31.0	229.9	38.1	230.0
63.00	51.98	-20.38	-24.24	31.7	229.9	38.0	229.8
64.00	52.77	-20.77	-24.71	32.3	229.9	38.0	230.0
65.00	53.56	-21.17	-25.18	32.9	229.9	37.8	231.5
66.00	54.35	-21.56	-25.65	33.5	230.0	37.9	230.4
67.00	55.13	-21.95	-26.12	34.1	230.0	37.9	229.0
68.00	55.92	-22.34	-26.60	34.7	230.0	37.9	230.2
69.00	56.71	-22.74	-27.07	35.4	230.0	37.8	230.3
70.00	57.50	-23.13	-27.54	36.0	230.0	37.8	230.1
71.00	58.29	-23.52	-28.01	36.6	230.0	37.8	230.2
72.00	59.08	-23.91	-28.48	37.2	230.0	37.8	230.0
73.00	59.87	-24.31	-28.95	37.8	230.0	37.8	230.3
74.00	60.66	-24.70	-29.42	38.4	230.0	37.8	230.3
75.00	61.45	-25.09	-29.89	39.0	230.0	37.8	230.2
76.00	62.24	-25.48	-30.37	39.6	230.0	37.8	230.0
77.00	63.03	-25.88	-30.84	40.3	230.0	37.8	230.2
78.00	63.82	-26.27	-31.31	40.9	230.0	37.9	230.2
79.00	64.61	-26.66	-31.78	41.5	230.0	37.9	230.0
80.00	65.40	-27.06	-32.25	42.1	230.0	37.9	230.0
81.00	66.19	-27.45	-32.72	42.7	230.0	37.9	230.2
82.00	66.98	-27.84	-33.19	43.3	230.0	37.9	230.1
83.00	67.77	-28.24	-33.67	43.9	230.0	37.8	230.5
84.00	68.56	-28.63	-34.14	44.6	230.0	37.8	230.0
85.00	69.35	-29.02	-34.61	45.2	230.0	37.8	230.4
86.00	70.14	-29.42	-35.08	45.8	230.0	37.8	230.3
87.00	70.93	-29.81	-35.55	46.4	230.0	37.8	230.7
88.00	71.72	-30.20	-36.02	47.0	230.0	37.7	230.3
89.00	72.51	-30.59	-36.49	47.6	230.0	37.8	230.2
90.00	73.30	-30.99	-36.96	48.2	230.0	37.8	230.1
91.00	74.09	-31.38	-37.43	48.8	230.0	37.8	230.1
92.00	74.88	-31.77	-37.90	49.5	230.0	37.7	230.7
93.00	75.67	-32.17	-38.36	50.1	230.0	37.7	230.0
94.00	76.46	-32.56	-38.83	50.7	230.0	37.7	230.0
95.00	77.25	-32.95	-39.30	51.3	230.0	37.7	230.4
96.00	78.05	-33.34	-39.77	51.9	230.0	37.8	230.3
97.00	78.84	-33.73	-40.24	52.5	230.0	37.8	229.5
98.00	79.63	-34.13	-40.71	53.1	230.0	37.8	229.4
99.00	80.42	-34.52	-41.18	53.7	230.0	37.8	231.6
100.00	81.21	-34.91	-41.65	54.3	230.0	37.8	229.5
101.00	82.00	-35.31	-42.12	55.0	230.0	37.7	229.8
102.00	82.79	-35.70	-42.59	55.6	230.0	37.7	230.2
103.00	83.58	-36.09	-43.06	56.2	230.0	37.7	230.4
104.00	84.37	-36.48	-43.53	56.8	230.0	37.7	230.5
105.00	85.16	-36.87	-44.00	57.4	230.0	37.7	231.0
106.00	85.95	-37.26	-44.47	58.0	230.0	37.7	229.9
107.00	86.75	-37.65	-44.94	58.6	230.0	37.7	229.7
108.00	87.54	-38.05	-45.41	59.2	230.0	37.6	231.1
109.00	88.33	-38.44	-45.88	59.9	230.0	37.8	230.1
110.00	89.12	-38.83	-46.35	60.5	230.0	37.7	229.9
111.00	89.91	-39.22	-46.81	61.1	230.0	37.7	230.0
112.00	90.70	-39.62	-47.28	61.7	230.0	37.6	230.3
113.00	91.50	-40.01	-47.75	62.3	230.0	37.6	229.5
114.00	92.29	-40.40	-48.22	62.9	230.0	37.6	230.3
115.00	93.08	-40.79	-48.68	63.5	230.0	37.5	231.1
116.00	93.87	-41.18	-49.15	64.1	230.0	37.4	229.5
117.00	94.67	-41.57	-49.62	64.7	230.0	37.5	229.2
118.00	95.46	-41.96	-50.08	65.3	230.0	37.6	231.4
119.00	96.25	-42.36	-50.55	65.9	230.0	37.6	230.1
120.00	97.05	-42.75	-51.01	66.6	230.0	37.5	229.4
121.00	97.84	-43.14	-51.47	67.2	230.0	37.6	229.2
122.00	98.63	-43.54	-51.94	67.8	230.0	37.5	229.7
123.00	99.43	-43.93	-52.40	68.4	230.0	37.5	229.7
124.00	100.22	-44.33	-52.87	69.0	230.0	37.5	229.9
125.00	101.01	-44.72	-53.33	69.6	230.0	37.5	229.4
126.00	101.80	-45.12	-53.80	70.2	230.0	37.5	229.6
127.00	102.60	-45.51	-54.26	70.8	230.0	37.5	229.7
128.00	103.39	-45.90	-54.73	71.4	230.0	37.8	230.1
129.00	104.18	-46.30	-55.19	72.0	230.0	37.5	229.1
130.00	104.98	-46.69	-55.66	72.6	230.0	37.5	230.2
131.00	105.77	-47.09	-56.12	73.3	230.0	37.6	228.1
132.00	106.56	-47.48	-56.58	73.9	230.0	37.5	229.8
133.00	107.36	-47.87	-57.05	74.5	230.0	37.5	230.2
134.00	108.15	-48.27	-57.51	75.1	230.0	37.5	229.5
135.00	108.94	-48.66	-57.97	75.7	230.0	37.5	229.6
136.00	109.73	-49.06	-58.44	76.3	230.0	37.5	229.5
137.00	110.53	-49.45	-58.90	76.9	230.0	37.6	229.7
138.00	111.32	-49.85	-59.37	77.5	230.0	37.6	229.9
139.00	112.11	-50.24	-59.83	78.1	230.0	37.6	229.3
140.00	112.91	-50.64	-60.30	78.7	230.0	37.6	229.6
141.00	113.70	-51.03	-60.76	79.4	230.0	37.6	229.4
142.00	114.49	-51.43	-61.23	80.0	230.0	37.5	229.8
143.00	115.28	-51.82	-61.69	80.6	230.0	37.5	230.4
144.00	116.08	-52.22	-62.16	81.2	230.0	37.6	229.1
145.00	116.87	-52.61	-62.62	81.8	230.0	37.6	230.1
146.00	117.66	-53.00	-63.09	82.4	230.0	37.6	227.9
147.00	118.45	-53.40	-63.55	83.0	230.0	37.6	229.7
148.00	119.25	-53.79	-64.02	83.6	230.0	37.7	227.8
149.00	120.04	-54.19</					

Century-geo.com
COMPANY : FIRST COAL
WELL : GCS07-07
FIELD :
COUNTRY : CANADA
PROVINCE : BRITISH COLUMBIA
OTHER SERVICES : DEV

LOCATION :
SECTION : N/A
TOWNSHIP : N/A
RANGE : N/A
API NO. : N/A
UNIQUE WELL ID :
PERMANENT DATUM : GL
LOG MEASURED FROM : GL
DRL MEASURED FROM : GL
ELEVATION KB : N/A
ELEVATION DE : N/A
ELEVATION GL : N/A

DATE : 12/11/07
DEPTH DRILLER : 187.6
BIT SIZE : 10.16
LOG TOP : 0.70
LOG BOTTOM : 187.28
CASING OD : 7.82
CASING BOTTOM : 5

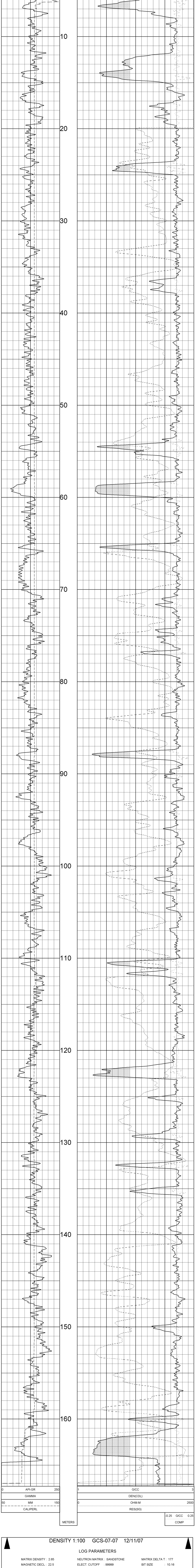
CASING TYPE : STEEL
BOREHOLE FLUID : WATER
ROD TEMPERATURE : N/A
MUD RES : N/A
MUD WEIGHT : 1.0
RECORDED BY : SNEIDER
WITNESSED BY :
REMARKS 1 : 50 DEGREE HOLE
REMARKS 2 :

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

DENSITY 1:100 GCS-07-07 12/11/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99899 BIT SIZE : 10.16
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007 VERSION = 3.64EK



DENSITY 1:100 GCS-07-07 12/11/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99899 BIT SIZE : 10.16
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007 VERSION = 3.64EK

TOOL CALIBRATION GCS-07-07 12/11/07 13:30
TOOL 9239C1 TM VERSION 2018
SERIAL NUMBER 4428

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct04.07 14:22:06	GAMMA	7.000 [API-GR]	0.00 [CPS]
2	Sep30.07 13:04:13	VOLTAGE	28.000 [MV]	8110.00 [CPS]
3	Sep30.07 13:02:50	CALIPER	101.600 [INCH]	157151.47 [CPS]
4	Dec13.07 12:55:48	DEN(LS)	1.000 [G/CC]	27756.00 [CPS]
5	Dec13.07 12:55:48	DEN(SS)	2.320 [G/CC]	2949.00 [CPS]
6	Oct04.07 14:23:08	DEN(SS)	1.000 [G/CC]	52255.00 [CPS]
7	Oct04.07 14:23:08	CALIPER	101.600 [INCH]	101149.00 [CPS]
8	Aug29.07 17:33:59	CALIPERL	152.400 [INCH]	168341.00 [CPS]
9	Aug17.07 14:21:10	CURRENT	12.100 [UA]	5600.00 [CPS]
		CURRENT	243.400 [UA]	23120.00 [CPS]
		F	Default [CPS]	
		X	Default [CPS]	

COMPANY : FIRST COAL

WELL : DDH-08

FIELD :

COUNTRY : CANADA

PROVINCE : BRITISH COLUMBIA

LOCATION :

SECTION : N/A

TOWNSHIP : N/A

RANGE : N/A

API NO. : N/A

UNIQUE WELL ID. :

PERMANENT DATUM : GL

LOG MEASUREMENT FROM : GL

DRL MEASURED FROM : GL

DATE : 12/18/07

DEPTH DRILLER : 167.64

BIT SIZE : 9.5

LOG TOP : 0.25

LOG BOTTOM : 50.15

CASING OD : 7.62

CASING BOTTOM : 3

CASING TYPE : STEEL

BOREHOLE FLUID : WATER

RM TEMPERATURE : N/A

MUD RES : N/A

MUD WEIGHT : 1.0

WITNESSED BY : SKENDER

RECORDED BY : SNELL

REMARKS 1 : 50 DEGREE HOLE

REMARKS 2 : HOLE BRIDGED AROUND 50M. NO DENSITY RECORDED

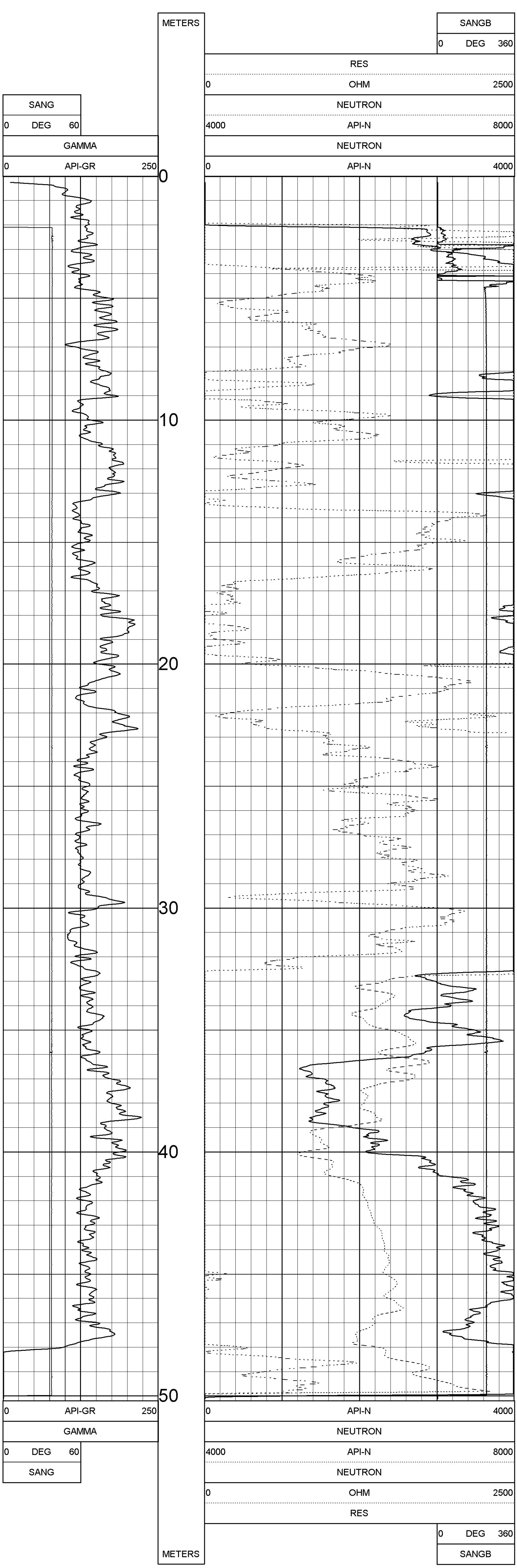
OTHER SERVICES:
DENSITY
DEVI

ELEVATION KB N/A
ELEVATION DF N/A
ELEVATION GL N/A

NEUTRON 1:100 DDH-08 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.5
PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION.0 12/10/2007 VERSION = 3.64EK



NEUTRON 1:100 DDH-08 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.5
PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION.0 12/10/2007 VERSION = 3.64EK

TOOL CALIBRATION DDH-08 12/18/07 15:32
TOOL 9057A TM VERSION 1
SERIAL NUMBER 4400

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep10,07 14:38:19	GAMMA	0.000 [API-GR]	2.00 [CPS]
	Sep10,07 14:38:19	GAMMA	320.000 [API-GR]	345.00 [CPS]
2	Nov14,07 12:00:18	NEUTRON	Default [CPS]	Default [CPS]
	Nov14,07 12:00:18	NEUTRON	271.000 [API-N]	83.00 [CPS]
3	Aug29,07 16:33:45	SP	0.000 [MV]	325214.00 [CPS]
	Aug29,07 16:33:45	SP	337.500 [MV]	152778.00 [CPS]
4	Aug29,07 16:33:52	RES(16N)	0.000 [OHM-M]	5176.00 [CPS]
	Aug29,07 16:33:52	RES(16N)	1996.000 [OHM-M]	422358.00 [CPS]
5	Aug29,07 16:33:59	RES(64N)	0.000 [OHM-M]	4855.00 [CPS]
	Aug29,07 16:33:59	RES(64N)	1990.000 [OHM-M]	418079.00 [CPS]
6	Aug29,07 16:34:06	TEMP	63.300 [DEG F]	353180.00 [CPS]
	Aug29,07 16:34:06	TEMP	98.300 [DEG F]	387606.00 [CPS]
7	Aug29,07 16:34:14	RES	0.000 [OHM]	4821.00 [CPS]
	Aug29,07 16:34:14	RES	989.000 [OHM]	161009.00 [CPS]

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

Century
GEOPHYSICAL CORP.

**GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY**
DDH-09

Century-geo.com

COMPANY: FIRST COAL
WELL: DDH-09
FIELD: CANADA
COUNTRY: BRITISH COLUMBIA
PROVINCE: OTHER SERVICES: NEUTRON DENI

LOCATION: N/A
SECTION: N/A
TOWNSHIP: N/A
RANGE: N/A
APNO: N/A
UNIQUE WELL ID: ELEVATION RB N/A
PERMANENT DATUM: GL
LOG MEASURED FROM: GL
ELEVATION DF: N/A
ELEVATION GI: N/A
DRI MEASURED FROM: GL

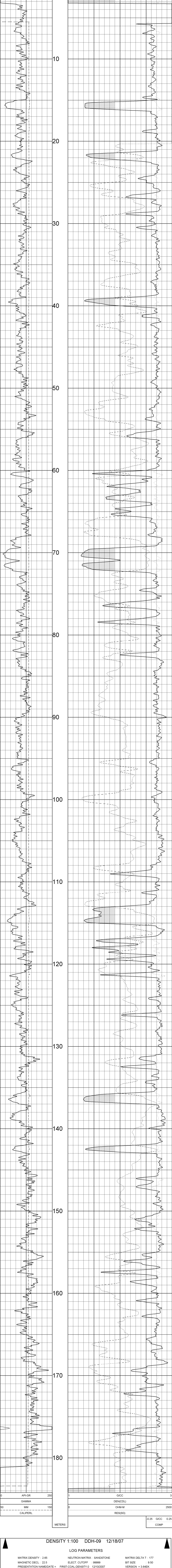
DATE: 12/18/07
DEPTH DRI/LLER: 182.88
BIT SIZE: 9.50
LOG TOP: 0.31
LOG BOTTOM: 184.17
CASING OD: 7.62
CASING BOTTOM: 3
CASING TYPE: STEEL
ROSBOL FLUID: WATER
ROD TEMP: N/A
MID WEIGHT: 1.0
WIRESS BY: SNEIPLER
RECORDED BY: SNEIPLER
REMARKS 1: 50 DEGREE HOLE
REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

DENSITY 1:100 DDH-09 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.50
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY 0 12/10/2007 VERSION = 3.64EK



DENSITY 1:100 DDH-09 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.50
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY 0 12/10/2007 VERSION = 3.64EK

TOOL CALIBRATION DDH-09 12/18/07 13:55
TOOL 9239C1 TM VERSION 2016
SERIAL NUMBER 4426

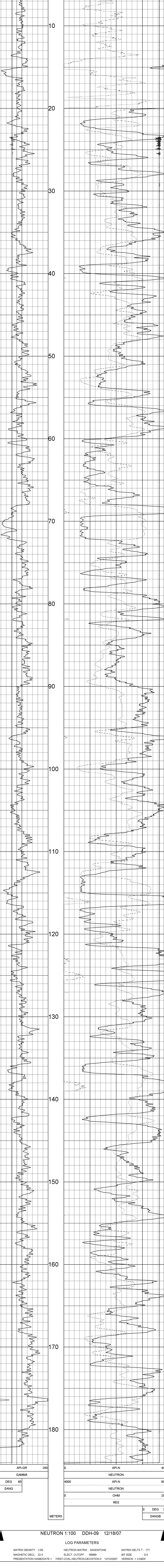
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct04.07 14:22:06	GAMMA	7.000 [API-GR]	0.00 [CPS]
	Oct04.07 14:22:06	GAMMA	320.000 [API-GR]	341.00 [CPS]
2	Dec12.07 13:58:25	VOLTAGE	0.000 [MV]	4037.00 [CPS]
	Dec12.07 13:58:25	VOLTAGE	1989.000 [MV]	270424.00 [CPS]
3	Sep30.07 13:02:50	CALIPER	101.600 [INCH]	157151.47 [CPS]
	Sep30.07 13:02:50	CALIPER	155.000 [INCH]	289980.00 [CPS]
4	Dec13.07 10:20:30	DEN(L/S)	1.000 [G/CC]	27756.00 [CPS]
	Dec13.07 10:20:30	DEN(L/S)	2.320 [G/CC]	2949.00 [CPS]
5	Dec18.07 13:43:15	DEN(SS)	1.000 [G/CC]	55255.00 [CPS]
	Dec18.07 13:43:15	DEN(SS)	2.320 [G/CC]	22002.00 [CPS]
6	Oct04.07 14:23:08	CALIPERL	101.600 [INCH]	101149.00 [CPS]
	Oct04.07 14:23:08	CALIPERL	152.400 [INCH]	168341.00 [CPS]
7	Dec12.07 13:58:49	CURRENT	0.000 [UA]	5297.00 [CPS]
	Dec12.07 13:58:49	CURRENT	284.900 [UA]	26.82 [CPS]
8	Aug17.07 14:21:05	F	Default [CPS]	
9	Aug17.07 14:21:10	X	Default [CPS]	

COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH-09	PROPERTY
COUNTRY	CANADA	DEVI
PROVINCE	BRITISH COLUMBIA	
LOCATION		
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID		
PERMITS/DATA	SL	ELEVATION RB N/A
LOG MEASURED FROM	GL	ELEVATION OF N/A
DATE	12/18/07	
DEPTH DRILLER	142.88	
BIT SIZE	9.5	
LOG TOP	0.31	
LOG BOTTOM	-184.17	
CASING O.D.	7.82	
CASING BOTTOM	3	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
BOREHOLE TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	11.0	
WIRELOGGED BY	SKENNER	
RECORDED BY	SHELL	
REMARKS 1	50 DEGREE HOLE	
REMARKS 2		

NEUTRON 1:100 DDH-09 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 22.5	ELECT. CUTOFF : 99999	BIT SIZE : 9.5
PRESENTATION NAME/DATE =	FIRST.COAL-NEUTRON-DEVIATION.0 12/10/2007	VERSION = 3.64EK



NEUTRON 1:100 DDH-09 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 22.5	ELECT. CUTOFF : 99999	BIT SIZE : 9.5
PRESENTATION NAME/DATE =	FIRST.COAL-NEUTRON-DEVIATION.0 12/10/2007	VERSION = 3.64EK

TOOL CALIBRATION DDH-09 12/18/07 12:36		
TOOL 9057A	TM VERSION 1	
SERIAL NUMBER 4400		

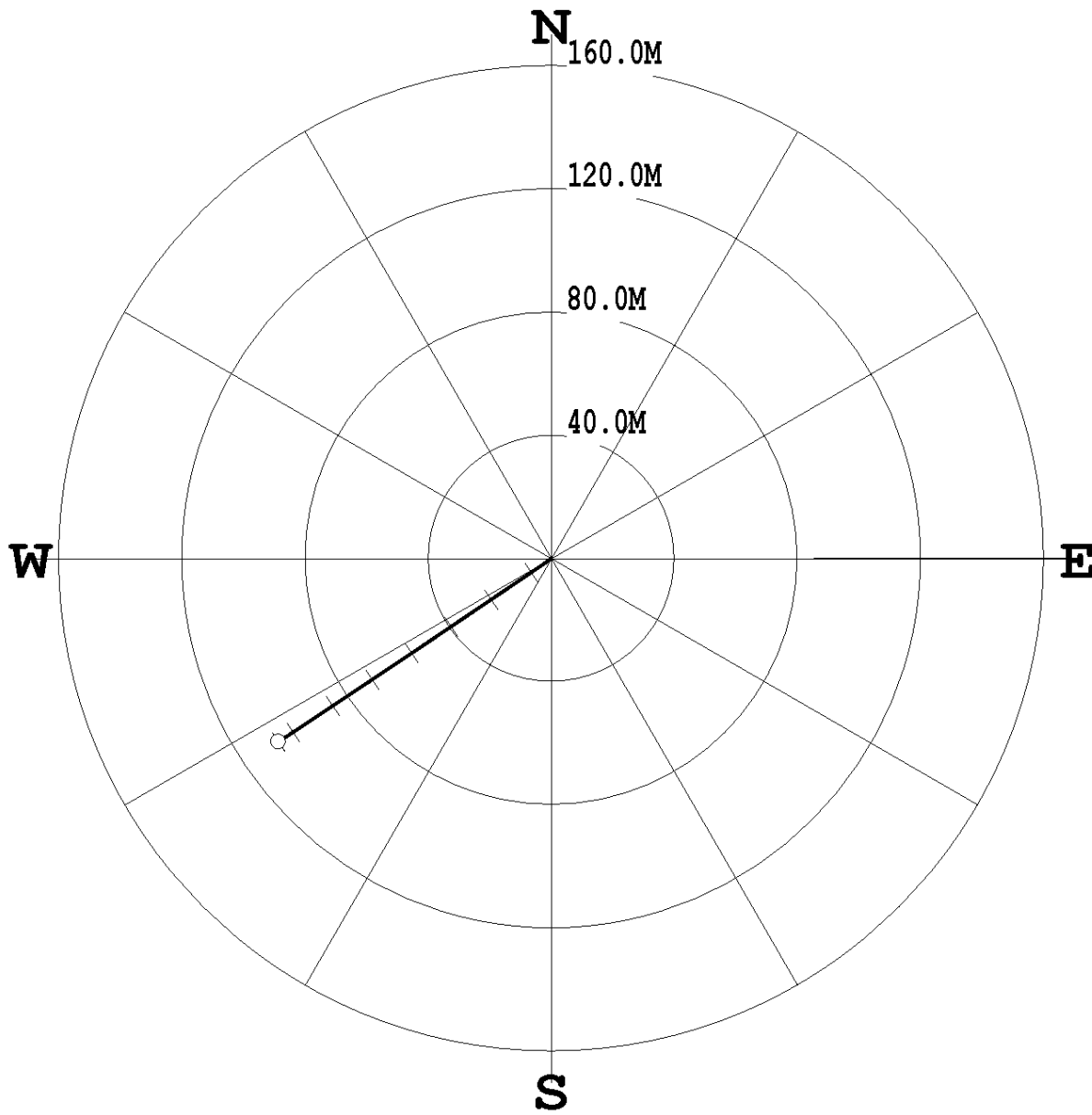
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep10,07 14:38:19	GAMMA	0.000 [API-GR]	2.00 [CPS]
	Sep10,07 14:38:19	GAMMA	320.000 [API-GR]	345.00 [CPS]
2	Nov14,07 12:00:18	NEUTRON	Default [CPS]	Default [CPS]
	Nov14,07 12:00:18	NEUTRON	271.000 [API-N]	83.00 [CPS]
3	Aug29,07 16:33:45	SP	0.000 [MV]	325214.00 [CPS]
	Aug29,07 16:33:45	SP	337.500 [MV]	152778.00 [CPS]
4	Aug29,07 16:33:52	RES(16N)	0.000 [OHM-M]	5178.00 [CPS]
	Aug29,07 16:33:52	RES(16N)	1996.000 [OHM-M]	422358.00 [CPS]
5	Aug29,07 16:33:59	RES(64N)	0.000 [OHM-M]	4855.00 [CPS]
	Aug29,07 16:33:59	RES(64N)	1990.000 [OHM-M]	418079.00 [CPS]
6	Aug29,07 16:34:06	TEMP	63.300 [DEG F]	353180.00 [CPS]
	Aug29,07 16:34:06	TEMP	98.300 [DEG F]	387606.00 [CPS]
7	Aug29,07 16:34:14	RES	0.000 [OHM]	4821.00 [CPS]
	Aug29,07 16:34:14	RES	989.000 [OHM]	161009.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL
LOCATION:
HOLE ID: DDH-09
DATE OF LOG: 12/18/07
PROBE: 9057A 4400

MAG DECL: 22.5

SCALE: 20 M/CM
TRUE DEPTH: 147.37 M
AZIMUTH: 236.2
DISTANCE: 106.7 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : FIRST COAL	HOLE ID. : DDH-09	
FIELD OFFICE : CENTURY GEO	DATE OF LOG : 12/18/07	
DATA FROM : N/A	PROBE : 9057A	4400
MAG. DECL. : 22.500	DEPTH UNITS : METERS	
LOG: DDH-09_12-18-07_12-36_9057A_.02_10.00_184.17_DEVI.log		

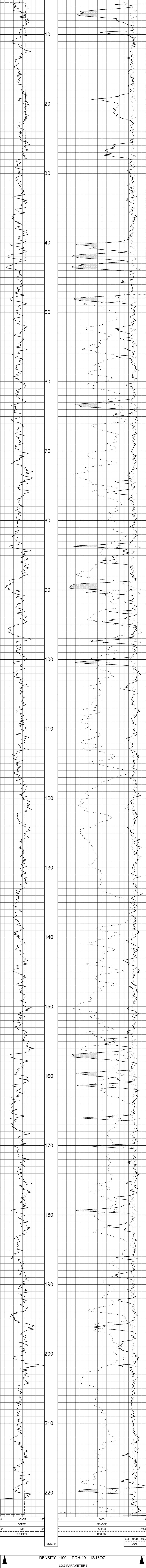
CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.02	10.02	-0.01	-0.01	0.0	235.8	38.6	235.8
11.00	10.78	-0.35	-0.52	0.6	235.7	38.6	235.6
12.00	11.56	-0.70	-1.03	1.2	235.6	38.5	235.1
13.00	12.35	-1.05	-1.55	1.9	235.7	38.4	234.6
14.00	13.13	-1.40	-2.06	2.5	235.8	38.4	235.2
15.00	13.91	-1.75	-2.58	3.1	235.8	38.5	235.9
16.00	14.69	-2.10	-3.09	3.7	235.8	38.5	235.8
17.00	15.48	-2.45	-3.61	4.4	235.8	38.5	235.9
18.00	16.26	-2.80	-4.12	5.0	235.8	38.5	235.8
19.00	17.04	-3.15	-4.64	5.6	235.8	38.6	236.1
20.00	17.82	-3.50	-5.15	6.2	235.8	38.5	235.6
21.00	18.61	-3.85	-5.67	6.9	235.8	38.5	236.3
22.00	19.39	-4.20	-6.18	7.5	235.8	38.5	236.3
23.00	20.17	-4.55	-6.70	8.1	235.8	38.5	235.9
24.00	20.96	-4.88	-7.18	8.7	235.8	38.0	254.6
25.00	21.74	-5.23	-7.65	9.3	235.7	37.7	232.9
26.00	22.52	-5.58	-8.15	9.9	235.6	38.4	235.6
27.00	23.31	-5.93	-8.67	10.5	235.6	38.4	236.9
28.00	24.09	-6.28	-9.18	11.1	235.6	38.4	235.6
29.00	24.87	-6.62	-9.70	11.7	235.7	38.4	235.8
30.00	25.66	-6.97	-10.21	12.4	235.7	38.4	232.7
31.00	26.44	-7.32	-10.73	13.0	235.7	38.4	236.3
32.00	27.23	-7.66	-11.24	13.6	235.7	38.3	235.8
33.00	28.01	-8.01	-11.76	14.2	235.7	38.3	235.4
34.00	28.79	-8.36	-12.27	14.8	235.7	38.4	236.5
35.00	29.58	-8.70	-12.78	15.5	235.8	38.4	236.4
36.00	30.36	-9.05	-13.30	16.1	235.8	38.4	236.2
37.00	31.15	-9.40	-13.81	16.7	235.8	38.3	236.1
38.00	31.93	-9.74	-14.33	17.3	235.8	38.3	236.4
39.00	32.72	-10.09	-14.84	17.9	235.8	38.3	236.3
40.00	33.50	-10.44	-15.36	18.6	235.8	38.3	237.1
41.00	34.29	-10.78	-15.87	19.2	235.8	38.2	235.8
42.00	35.07	-11.13	-16.38	19.8	235.8	38.3	236.6
43.00	35.86	-11.47	-16.89	20.4	235.8	38.2	236.3
44.00	36.64	-11.82	-17.41	21.0	235.8	38.2	236.4
45.00	37.43	-12.17	-17.92	21.7	235.8	38.2	235.9
46.00	38.22	-12.51	-18.43	22.3	235.8	38.2	236.5
47.00	39.00	-12.86	-18.95	22.9	235.8	38.2	235.8
48.00	39.79	-13.20	-19.46	23.5	235.8	38.2	236.0
49.00	40.57	-13.55	-19.97	24.1	235.8	38.2	236.6
50.00	41.36	-13.90	-20.48	24.8	235.8	38.2	236.0
51.00	42.15	-14.24	-20.99	25.4	235.9	38.2	236.0
52.00	42.93	-14.59	-21.51	26.0	235.9	38.2	236.3
53.00	43.72	-14.93	-22.02	26.6	235.9	38.2	236.0
54.00	44.51	-15.28	-22.53	27.2	235.9	38.2	236.5
55.00	45.29	-15.62	-23.05	27.8	235.9	38.2	236.0
56.00	46.08	-15.97	-23.56	28.5	235.9	38.1	235.7
57.00	46.86	-16.31	-24.07	29.1	235.9	38.1	236.1
58.00	47.65	-16.66	-24.58	29.7	235.9	38.1	236.1
59.00	48.44	-17.00	-25.09	30.3	235.9	38.1	235.9
60.00	49.22	-17.35	-25.61	30.9	235.9	38.1	236.3
61.00	50.01	-17.69	-26.12	31.5	235.9	38.1	236.6
62.00	50.80	-18.03	-26.63	32.2	235.9	38.0	235.8
63.00	51.59	-18.38	-27.14	32.8	235.9	38.1	235.7
64.00	52.37	-18.72	-27.65	33.4	235.9	38.1	236.5
65.00	53.16	-19.07	-28.16	34.0	235.9	38.0	235.5
66.00	53.95	-19.41	-28.67	34.6	235.9	38.0	235.6
67.00	54.74	-19.76	-29.18	35.2	235.9	38.0	236.6
68.00	55.53	-20.10	-29.69	35.9	235.9	38.0	236.0
69.00	56.32	-20.45	-30.20	36.5	235.9	37.9	235.5
70.00	57.10	-20.79	-30.71	37.1	235.9	38.0	235.6
71.00	57.89	-21.13	-31.22	37.7	235.9	37.9	235.6
72.00	58.68	-21.48	-31.73	38.3	235.9	37.9	236.5
73.00	59.47	-21.82	-32.24	38.9	235.9	37.9	235.8
74.00	60.26	-22.16	-32.75	39.5	235.9	37.9	236.5
75.00	61.05	-22.51	-33.26	40.2	235.9	37.8	236.0
76.00	61.84	-22.85	-33.76	40.8	235.9	37.8	235.9
77.00	62.63	-23.19	-34.27	41.4	235.9	37.8	235.7
78.00	63.42	-23.54	-34.78	42.0	235.9	37.8	236.8
79.00	64.21	-23.88	-35.29	42.6	235.9	37.7	235.6
80.00	65.00	-24.22	-35.79	43.2	235.9	37.8	236.0
81.00	65.79	-24.56	-36.30	43.8	235.9	37.8	235.8
82.00	66.58	-24.91	-36.81	44.4	235.9	37.7	235.7
83.00	67.37	-25.25	-37.32	45.1	235.9	37.7	235.6
84.00	68.16	-25.59	-37.82	45.7	235.9	37.8	236.6
85.00	68.96	-25.93	-38.33	46.3	235.9	37.8	236.0
86.00	69.75	-26.28	-38.84	46.9	235.9	37.7	235.9
87.00	70.54	-26.62	-39.34	47.5	235.9	37.7	236.2
88.00	71.33	-26.96	-39.85	48.1	235.9	37.7	235.8
89.00	72.12	-27.30	-40.36	48.7	235.9	37.6	236.0
90.00	72.91	-27.64	-40.86	49.3	235.9	37.6	236.1
91.00	73.71	-27.98	-41.37	49.9	235.9	37.6	236.2
92.00	74.50	-28.32	-41.88	50.6	235.9	37.6	236.1
93.00	75.29	-28.66	-42.39	51.2	235.9	37.7	236.2
94.00	76.08	-29.00	-42.89	51.8	235.9	37.7	236.1
95.00	76.87	-29.34	-43.40	52.4	235.9	37.6	235.9
96.00	77.66	-29.68	-43.91	53.0	235.9	37.6	236.2
97.00	78.45	-30.03	-44.41	53.6	235.9	37.7	236.1
98.00	79.24	-30.37	-44.92	54.2	235.9	37.7	236.3
99.00	80.04	-30.71	-45.43	54.8	235.9	37.7	236.5
100.00	80.83	-31.05	-45.94	55.4	235.9	37.7	236.3
101.00	81.62	-31.39	-46.44	56.1	235.9	37.7	236.2
102.00	82.41	-31.73	-46.95	56.7	236.0	37.6	235.9
103.00	83.21	-32.07	-47.46	57.3	236.0	37.7	236.2
104.00	84.00	-32.41	-47.97	57.9	236.0	37.7	236.4
105.00	84.79	-32.75	-48.47	58.5	236.0	37.7	236.2
106.00	85.58	-33.09	-48.98	59.1	236.0	37.7	236.2
107.00	86.37	-33.43	-49.49	59.7	236.0	37.7	236.2
108.00	87.16	-33.77	-50.00	60.3	236.0	37.7	236.5
109.00	87.96	-34.11	-50.51	60.9	236.0	37.6	236.2
110.00	88.75	-34.44	-51.01	61.6	236.0	37.6	236.1
111.00	89.54	-34.78	-51.52	62.2	236.0	37.6	236.4
112.00	90.33	-35.12	-52.03	62.8	236.0	37.6	236.3
113.00	91.12	-35.46	-52.54	63.4	236.0	37.6	236.7
114.00	91.92	-35.80	-53.04	64.0	236.0	37.5	236.1
115.00	92.71	-36.14	-53.55	64.6	236.0	37.5	236.4
116.00	93.50	-36.48	-54.06	65.2	236.0	37.5	236.3
117.00	94.29	-36.82	-54.56	65.8	236.0	37.5	236.2
118.00	95.09	-37.16	-55.07	66.4	236.0	37.3	235.2
119.00	95.88	-37.49	-55.57	67.0	236.0	37.4	235.5
120.00	96.68	-37.83	-56.08	67.6	236.0	37.4	235.8
121.00	97.47	-38.17	-56.59	68.3	236.0	37.5	236.1
122.00	98.26	-38.51	-57.09	68.9	236.0	37.4	236.1
123.00	99.06	-38.84	-57.60	69.5	236.0	37.5	236.5
124.00	99.85	-39.18	-58.10	70.1	236.0	37.5	236.8
125.00	100.64	-39.52	-58.61	70.7	236.0	37.5	236.3
126.00	101.44	-39.86	-59.12	71.3	236.0	37.6	237.2
127.00	102.23	-40.19	-59.63	71.9	236.0	37.5	236.5
128.00	103.02	-40.53	-60.13	72.5	236.0	37.5	236.2
129.00	103.81	-40.87	-60.64	73.1	236.0	37.5	236.7
130.00	104.61	-41.20	-61.15	73.7	236.0	37.5	236.3
131.00	105.40	-41.54	-61.65	74.3	236.0	37.5	236.6
132.00	106.20	-41.88	-62.16	75.0	236.0	37.5	236.5
133.00	106.99	-42.21	-62.67	75.6	236.0	37.5	236.2
134.00	107.78	-42.55	-63.18	76.2	236.0	37.5	237.2
135.00	108.57	-42.89	-63.68	76.8	236.0	37.6	236.5
136.00	109.37	-43.23	-64.19	77.4	236.0	37.5	236.4
137.00	110.16	-43.56	-64.70	78.0	236.0	37.6	236.6
138.00	110.95	-43.90	-65.21	78.6	236.0	37.6	237.1
139.00	111.75	-44.24	-65.71	79.2	236.1	37.6	236.3
140.00	112.54	-44.58	-66.22	79.8	236.1	37.6	236.3
141.00	113.33	-44.91	-66.73	80.4	236.1	37.6	236.4
142.00	114.12	-45.25	-67.24	81.0	236.1	37.6	236.6
143.00	114.91	-45.59	-67.75	81.7	236.1	37.7	236.2
144.00	115.71	-45.93	-68.26	82.3	236.1	37.7	236.1
145.00	116.50	-46.27	-68.77	82.9	236.1	37.7	236.4
146.00	117.29	-46.60	-69.28	83.5	236.1	37.6	235.8
147.00	118.08	-46.94	-69.78	84.1	236.1	37.6	

		GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY DDH-10	
COMPANY	century_geo.com	OTHER SERVICES	NEUTRON DEN
WELL	FIRST COAL	DDH-10	
COUNTRY	CANADA	PROVINCE	BRITISH COLUMBIA
LOCATION	N/A	SECTION	N/A
TOWNSHIP	N/A	RANGE	N/A
PARCEL	N/A	AYNO	N/A
UNIQUE WELL ID			
PERMANENT DATA	GL	ELEVATION NB	N/A
LOG MEASURED FROM	GL	ELEVATION OF	N/A
DRI MEASURED FROM	GL	ELEVATION OF	N/A
DATE	12/18/07	DEPTH DRILLER	228.8
BIT SIZE	9.50	LOG TOP	-0.00
LOG BOTTOM	223.42	CASING OD	7.62
CASING BOTTOM	3	CASING TYPE	STEEL
BOREHOLE FLUID	WATER	BOREHOLE FLUID	N/A
NM TEMPERATURE	N/A	NM TEMPERATURE	N/A
MOD RES	1.0	MOD WEIGHT	1.0
WINDSPEED BY	SHELL	RECORDED BY	SNELL
REMARKS 1		REMARKS 2	50 DEGREE HOLE
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS			

DENSITY 1:100 DDH-10 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 22.5	ELECT. CUTOFF : 99999	BIT SIZE : 9.50
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007		VERSION = 3.64EK



DENSITY 1:100 DDH-10 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 22.5	ELECT. CUTOFF : 99999	BIT SIZE : 9.50
PRESENTATION NAME/DATE = FIRST-COAL-DENSITY.0 12/10/2007		VERSION = 3.64EK

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct04.07 14:22:06	GAMMA	7.000 [API-GR]	0.00 [CPS]
1	Oct04.07 14:22:06	GAMMA	320.000 [API-GR]	341.00 [CPS]
2	Dec12.07 13:58:25	VOLTAGE	0.000 [MV]	4037.00 [CPS]
2	Dec12.07 13:58:25	VOLTAGE	1989.000 [MV]	270424.00 [CPS]
3	Sep30.07 13:02:50	CALIPER	101.600 [INCH]	157151.47 [CPS]
3	Sep30.07 13:02:50	CALIPER	155.000 [INCH]	268680.00 [CPS]
4	Dec13.07 10:20:30	DEN(LS)	1.000 [G/C]	27756.00 [CPS]
4	Dec13.07 10:20:30	DEN(LS)	2.320 [G/C]	2949.00 [CPS]
5	Dec13.07 10:21:28	DEN(SS)	1.000 [G/C]	55255.00 [CPS]
5	Dec13.07 10:21:28	DEN(SS)	2.320 [G/C]	22002.00 [CPS]
6	Oct04.07 14:23:08	CALIPERL	101.600 [INCH]	101149.00 [CPS]
6	Oct04.07 14:23:08	CALIPERL	152.400 [INCH]	168341.00 [CPS]
7	Dec12.07 13:58:49	CURRENT	0.000 [UA]	5297.00 [CPS]
7	Dec12.07 13:58:49	CURRENT	284.900 [UA]	28.82 [CPS]
8	Aug17.07 14:21:05	F	Default	
9	Aug17.07 14:21:10	X	Default	

Century
GEOPHYSICAL CORP.

GAMMA - NEUTRON - RES

DDH-10

century_geo.com

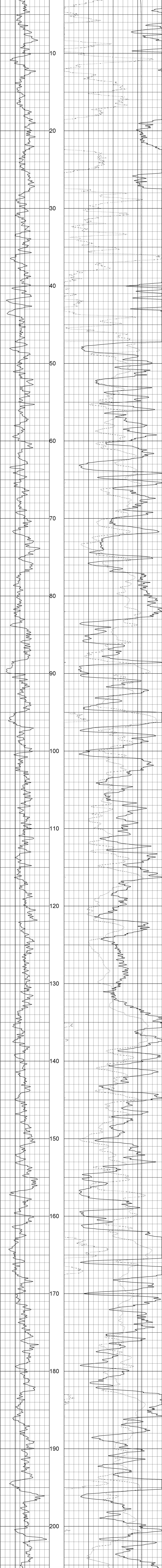
COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH-10	DEPTH
COUNTRY	CANADA	BSEI
PROVINCE	BRIITISH COLUMBIA	
LOCATION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
RANGE	N/A	
UNIQUE WELL ID		
PERMANENT DATA	GL	ELEVATION NB MA
LOG MEASURED FROM	GL	ELEVATION DF MA
DATE	12/18/07	ELEVATION OF MA
DEPTH DRIELER	228.8	
BIT SIZE	9.5	
LOG TOP	-0.00	
LOG BOTTOM	7.82	
CASING OD	223.08	
CASING BOTTOM		
CASING TYPE	3	STEEL
BOREHOLE FLUID		WATER
BARRELS PER HOUR	N/A	
ROTARY SPEED	N/A	
LOG MEASUREMENT	1.0	
WITNESSED BY		SENDER
RECORDED BY		SHELL
REMARKS 1	50 DEGREE HOLE	
REMARKS 2		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

NEUTRON 1:100 DDH-10 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.5
PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION 0 12/10/2007 VERSION = 3.64EK



NEUTRON 1:100 DDH-10 12/18/07

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 22.5 ELECT. CUTOFF : 99999 BIT SIZE : 9.5
PRESENTATION NAME/DATE = FIRST-COAL-NEUTRON-DEVIATION 0 12/10/2007 VERSION = 3.64EK

TOOL CALIBRATION DDH-10 12/18/07 10:36
TOOL 9057A TM VERSION 1
SERIAL NUMBER 4400

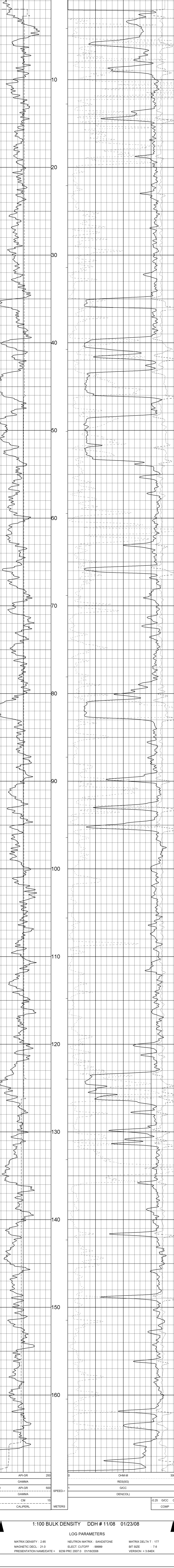
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep10.07 14:38:19	GAMMA	0.000 [API-GR]	2.00 [CPS]
1	Sep10.07 14:38:19	GAMMA	320.000 [API-GR]	345.00 [CPS]
2	Nov14.07 12:00:18	NEUTRON	Default [CPS]	Default [CPS]
2	Nov14.07 12:00:18	NEUTRON	271.000 [API-N]	83.00 [CPS]
3	Aug29.07 16:33:45	SP	0.000 [MV]	325214.00 [CPS]
3	Aug29.07 16:33:45	SP	337.500 [MV]	152778.00 [CPS]
4	Aug29.07 16:33:52	RES(16N)	0.000 [OHM-M]	5176.00 [CPS]
4	Aug29.07 16:33:52	RES(16N)	1996.000 [OHM-M]	422358.00 [CPS]
5	Aug29.07 16:33:59	RES(64N)	0.000 [OHM-M]	4855.00 [CPS]
5	Aug29.07 16:33:59	RES(64N)	1990.000 [OHM-M]	418079.00 [CPS]
6	Aug29.07 16:34:06	TEMP	83.300 [DEG F]	353180.00 [CPS]
6	Aug29.07 16:34:06	TEMP	98.300 [DEG F]	387606.00 [CPS]
7	Aug29.07 16:34:14	RES	0.000 [OHM]	4821.00 [CPS]
7	Aug29.07 16:34:14	RES	989.000 [OHM]	161009.00 [CPS]

COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH # 1108	NEUTRON
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	
LOCATION	C LINE	
SECTION	N/A	
TOWNSHIP	N/A	
RANGE	N/A	
API NO.	N/A	
UNIQUE WELL ID		
PERMANENT DATUM	GL	ELEVATION M N/A
LOG MEASURED FROM	GL	ELEVATION GL N/A
DEL. MEASURED FROM	GL	
DATE	01/23/08	
DEPTH DRIWER	189.6	
BIT SIZE	7.6	
LOG TOP	-0.28	
LOG BOTTOM	11.43	
CASING O.D.	11.43	
CASING BOTTOM	4.57	
CASING TYPE	STEEL	
BOREHOLE FLUID	WATER	
ROI TEMPERATURE	N/A	
MUD RES	N/A	
MUD WEIGHT	1.0	
RECORDED BY	J. NEAL	
WITNESSED BY		
REMARKS 1	50 DEGREE	
REMARKS 2	ACMOUT 230	

1:100 BULK DENSITY DDH # 11/08 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008		VERSION = 3.64EK



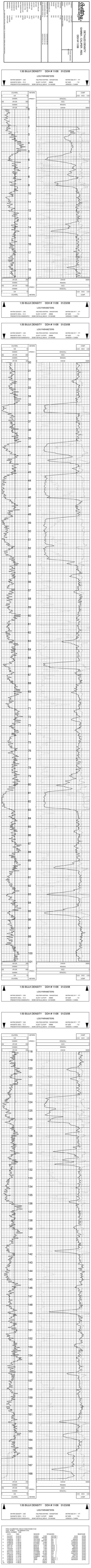
1:100 BULK DENSITY DDH # 11/08 01/23/08

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9239 PRC 2007.0 01/18/2008		VERSION = 3.64EK

TOOL CALIBRATION DDH # 11/08 01/23/08 13:52
 TOOL 9139C1 TM VERSION 1015
 SERIAL NUMBER 1269

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18,07 12:42:07	GAMMA	0.000 [API-GR]	20.00 [CPS]
1	Oct18,07 12:42:07	GAMMA	250.000 [API-GR]	278.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	0.000 [MV]	4588.00 [CPS]
2	Aug09,06 11:09:11	VOLTAGE	1987.000 [MV]	271844.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	8.890 [CM]	178300.00 [CPS]
3	Aug09,06 11:09:45	CALIPER	15.240 [CM]	331000.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	1.000 [G/CC]	29037.00 [CPS]
4	Oct11,07 11:35:59	DEN(LS)	2.323 [G/CC]	2485.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	1.000 [G/CC]	48630.00 [CPS]
5	Jan20,08 11:23:14	DEN(SS)	2.323 [G/CC]	20800.00 [CPS]
6	May17,07 10:06:22	CALIPER	15.250 [CM]	219880.00 [CPS]
6	May17,07 10:06:22	CALIPER	23.200 [CM]	304210.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	0.000 [UA]	5380.00 [CPS]
7	Aug09,06 11:10:59	CURRENT	284.670 [UA]	28477.00 [CPS]
8	Aug09,06 11:11:25	TEMP	9.720 [DEG C]	214750.00 [CPS]
8	Aug09,06 11:11:25	TEMP	45.550 [DEG C]	430700.00 [CPS]
9	Aug09,06 11:08:22	X	Default	



DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct18.07	GAMMA	0.000 (API-GR)	278.00 (CPS)
2	Oct18.07	GAMMA	250.000 (API-GR)	20.00 (CPS)
3	Aug09.08	VOLTAGE	0.000 (MV)	45588.00 (CPS)
4	Aug09.08	VOLTAGE	1987.000 (MV)	2719444.00 (CPS)
5	Aug09.08	CALPER	8.890 (CM)	176300.00 (CPS)
6	Aug09.08	CALPER	15.240 (CM)	331000.00 (CPS)
7	Oct11.07	DEN(LS)	1.000 (GICC)	29037.00 (CPS)
8	Oct11.07	DEN(LS)	2.323 (GICC)	2485.00 (CPS)
9	Jan20.08	DENS(S)	1.000 (GICC)	45830.00 (CPS)
10	Jan20.08	DENS(S)	2.323 (GICC)	20800.00 (CPS)
11	May17.07	CALPER(L)	16.750 (CM)	216980.00 (CPS)
12	Aug09.08	CALPER(L)	23.230 (CM)	304210.00 (CPS)
13	Aug09.08	CURRENT	0.000 (UA)	5380.00 (CPS)
14	Aug09.08	CURRENT	284.670 (UA)	28477.00 (CPS)
15	Aug09.08	TEMP	9.770 (DEG C)	214750.00 (CPS)
16	Aug09.08	TEMP	45.550 (DEG C)	430700.00 (CPS)
17	Aug09.08	X	Default (CPS)	
18	Aug09.08	Y	Default (CPS)	

COMPANY	FIRST COAL	OTHER SERVICES
WELL	DDH # 1108	DENSITY
FIELD	BOULDER	
COUNTY	CANADA	
STATE	BRITISH COLUMBIA	

LOCATION	C LINE
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
AP NO.	N/A
UNIQUE WELL ID	

PERMANENT DATUM	93	ELEVATION KB N/A
LOG MEASURED FROM GL		ELEVATION DF N/A
DELTA MEASURED FROM GL		ELEVATION GL N/A

DATE	01/23/08
DEPTH DILLER	199.6
BIT SIZE	7.6

LOG TOP	8.91
LOG BOTTOM	168.87
CASING OD	11.43
CASING ID	4.57

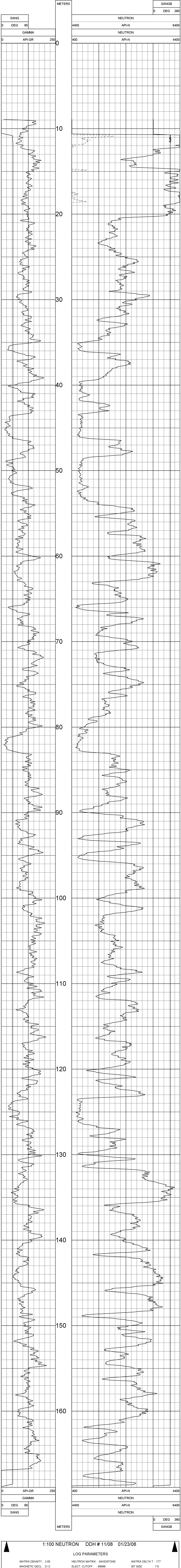
CASING TYPE	STEEL
BOREHOLE FLUID	WATER
ROI TEMPERATURE	N/A
ROI TEMPERATURE	N/A
MUD WEIGHT	1.0

RECORDED BY	J. NEAL
REMARKS 1	50 DEGREE
REMARKS 2	ACMOUTH 200

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 NEUTRON DDH # 11/08 01/23/08

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008		VERSION = 3.64EK



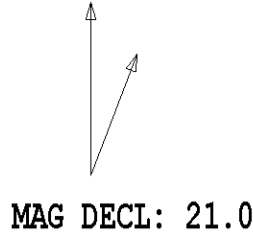
1:100 NEUTRON DDH # 11/08 01/23/08

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.0	ELECT. CUTOFF : 99999	BIT SIZE : 7.6
PRESENTATION NAME/DATE = 9057 PRC 2007.0 01/17/2008		VERSION = 3.64EK

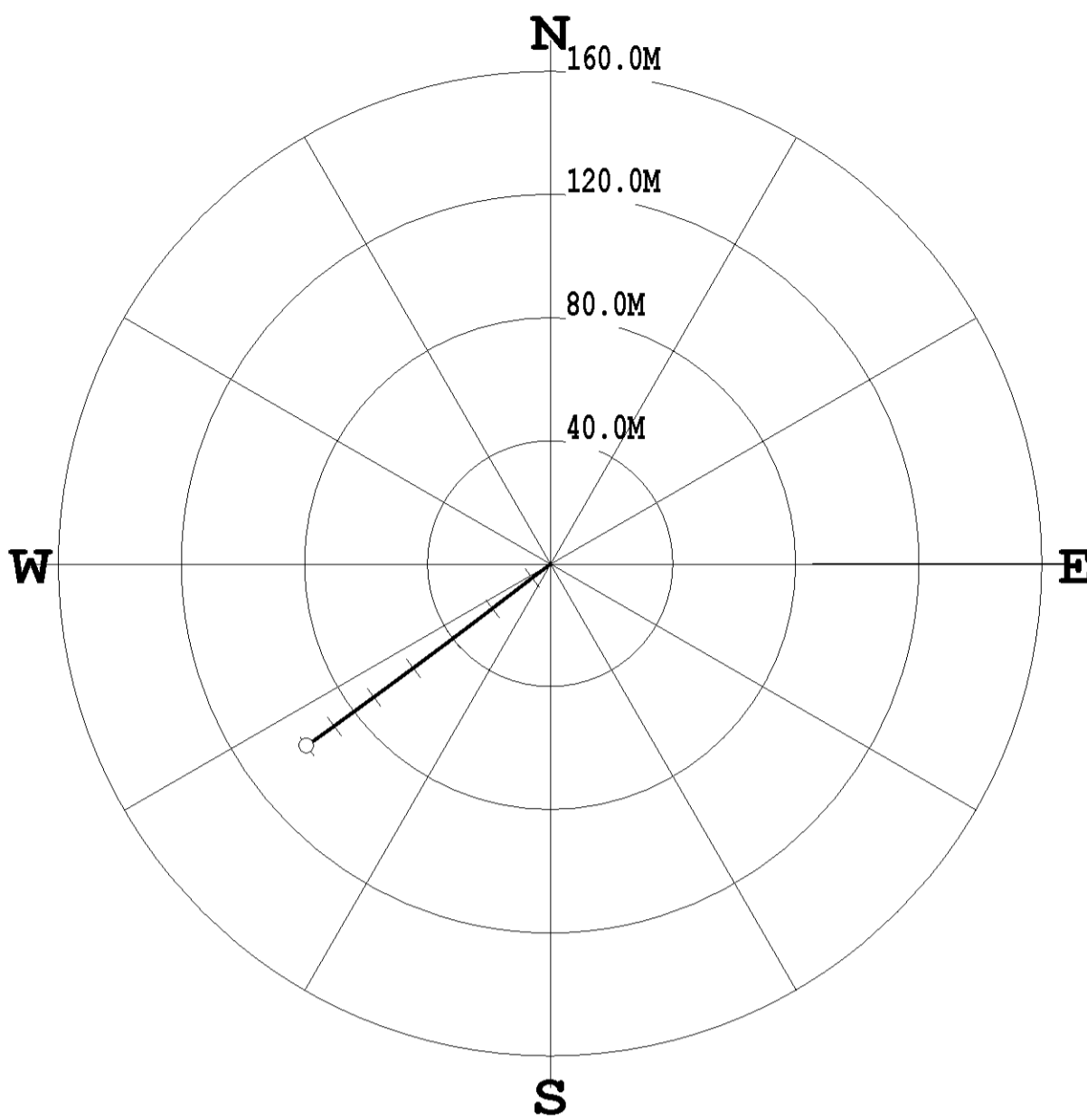
TOOL CALIBRATION DDH # 11/08 01/23/08 14:28			
TOOL 9057A TM VERSION 5500			
SERIAL NUMBER 4429			
DATE	TIME	SENSOR	STANDARD
1	Jul02.07 06:48:29	GAMMA	0.000 [API-GR]
	Jul02.07 06:48:29	GAMMA	320.000 [API-GR]
2	Jun27.07 04:18:03	NEUTRON	Default [CPS]
	Jul02.07 06:38:12	NEUTRON	Default [CPS]
3	Jul02.07 06:38:12	SP	0.000 [MV]
	Jul10.07 04:41:27	SP	357.000 [MV]
4	Jul10.07 04:41:27	RES(16N)	0.000 [OHM-M]
	Jun27.07 04:27:01	RES(16N)	1996.000 [OHM-M]
5	Jun27.07 04:27:01	RES(64N)	0.000 [OHM-M]
	Jul02.07 06:45:45	RES(64N)	1990.000 [OHM-M]
6	Jul02.07 06:45:45	TEMP	52.600 [DEG F]
	Jul10.07 04:42:24	TEMP	113.100 [DEG F]
7	Jul10.07 04:42:24	RES	0.000 [OHM]
	Jul10.07 04:42:24	RES	989.000 [OHM]
			RESPONSE
			4.00 [CPS]
			322.00 [CPS]
			Default [CPS]
			Default [CPS]
			171410.00 [CPS]
			5464.00 [CPS]
			422317.00 [CPS]
			4823.00 [CPS]
			418052.00 [CPS]
			341402.00 [CPS]
			387139.00 [CPS]
			4956.00 [CPS]
			162246.00 [CPS]

PLAN VIEW COMPU-LOG DEVIATION

CLIENT: FIRST COAL
 LOCATION: BOULDER
 HOLE ID: DDH # 11/08
 DATE OF LOG: 01/23/08
 PROBE: 9057A 4429



SCALE: 20 M/CM
 TRUE DEPTH: 133.87 M
 AZIMUTH: 233.3
 DISTANCE: 98.9 M
 + = 20 M INCR
 ○ = BOTTOM OF HOLE



* * * * * COMPU-LOG - VERTICAL DEVIATION * * * * *

CLIENT : FIRST COAL	HOLE ID. : DDH # 11/08
FIELD OFFICE : CENTURY GEO	DATE OF LOG : 01/23/08
DATA FROM : N/A	PROBE : 9057A , 4429
MAG. DECL. : 21.000	DEPTH UNITS : METERS
LOG: DDH#11-08_01-23-08_14-28_9057A_.02_8.91_168.87_DEVI.log	

CABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
10.00	9.99	0.00	0.00	0.0	0.0	0.0	0.0
12.00	11.71	-0.44	-0.59	0.7	233.3	39.1	231.2
14.00	13.26	-1.20	-1.60	2.0	233.1	39.2	232.9
16.00	14.81	-1.96	-2.61	3.3	233.0	39.2	232.8
18.00	16.36	-2.73	-3.62	4.5	233.0	39.2	232.6
20.00	17.91	-3.49	-4.62	5.8	232.9	39.2	232.7
22.00	19.46	-4.26	-5.63	7.1	232.9	39.1	233.0
24.00	21.01	-5.02	-6.63	8.3	232.9	39.2	233.2
26.00	22.56	-5.79	-7.64	9.6	232.9	39.2	232.9
28.00	24.11	-6.55	-8.64	10.8	232.8	39.2	232.1
30.00	25.66	-7.32	-9.64	12.1	232.8	39.2	232.7
32.00	27.21	-8.09	-10.65	13.4	232.8	39.3	233.0
34.00	28.76	-8.86	-11.66	14.6	232.8	39.3	232.7
36.00	30.30	-9.63	-12.66	15.9	232.7	39.2	232.4
38.00	31.85	-10.40	-13.66	17.2	232.7	39.2	231.6
40.00	33.40	-11.17	-14.67	18.4	232.7	39.1	234.3
42.00	34.95	-11.94	-15.67	19.7	232.7	39.2	232.7
44.00	36.51	-12.71	-16.67	21.0	232.7	39.1	232.5
46.00	38.06	-13.47	-17.67	22.2	232.7	39.0	232.4
48.00	39.61	-14.24	-18.67	23.5	232.7	39.0	231.7
50.00	41.17	-15.01	-19.66	24.7	232.6	38.9	232.3
52.00	42.73	-15.77	-20.66	26.0	232.6	38.9	232.6
54.00	44.28	-16.53	-21.66	27.2	232.6	38.8	232.8
56.00	45.84	-17.30	-22.65	28.5	232.6	38.9	232.6
58.00	47.40	-18.06	-23.65	29.8	232.6	38.9	232.7
60.00	48.95	-18.82	-24.65	31.0	232.6	38.9	232.8
62.00	50.51	-19.57	-25.65	32.3	232.7	38.9	232.7
64.00	52.07	-20.33	-26.65	33.5	232.7	38.9	233.2
66.00	53.63	-21.09	-27.65	34.8	232.7	38.8	233.2
68.00	55.18	-21.84	-28.65	36.0	232.7	38.8	232.6
70.00	56.74	-22.60	-29.66	37.3	232.7	38.8	233.1
72.00	58.30	-23.35	-30.66	38.5	232.7	38.8	233.1
74.00	59.86	-24.11	-31.66	39.8	232.7	38.9	233.2
76.00	61.42	-24.86	-32.66	41.0	232.7	38.9	233.1
78.00	62.97	-25.61	-33.67	42.3	232.7	38.9	234.0
80.00	64.53	-26.36	-34.67	43.6	232.8	38.8	233.2
82.00	66.09	-27.12	-35.68	44.8	232.8	38.8	233.2
84.00	67.65	-27.86	-36.68	46.1	232.8	38.8	234.0
86.00	69.21	-28.61	-37.68	47.3	232.8	38.8	233.4
88.00	70.77	-29.36	-38.69	48.6	232.8	38.8	232.9
90.00	72.32	-30.11	-39.69	49.8	232.8	38.7	232.6
92.00	73.88	-30.86	-40.70	51.1	232.8	38.8	233.9
94.00	75.44	-31.60	-41.70	52.3	232.8	38.7	232.9
96.00	77.01	-32.35	-42.70	53.6	232.9	38.6	233.7
98.00	78.57	-33.09	-43.71	54.8	232.9	38.6	233.4
100.00	80.13	-33.84	-44.71	56.1	232.9	38.6	233.6
102.00	81.70	-34.58	-45.71	57.3	232.9	38.6	233.5
104.00	83.26	-35.32	-46.71	58.6	232.9	38.5	234.5
106.00	84.82	-36.06	-47.72	59.8	232.9	38.6	234.0
108.00	86.39	-36.80	-48.72	61.1	232.9	38.5	233.9
110.00	87.95	-37.54	-49.72	62.3	232.9	38.5	233.4
112.00	89.52	-38.28	-50.72	63.5	233.0	38.5	233.4
114.00	91.08	-39.01	-51.73	64.8	233.0	38.5	233.9
116.00	92.65	-39.75	-52.73	66.0	233.0	38.5	233.6
118.00	94.21	-40.49	-53.74	67.3	233.0	38.5	233.3
120.00	95.78	-41.22	-54.74	68.5	233.0	38.5	233.4
122.00	97.34	-41.96	-55.75	69.8	233.0	38.5	234.4
124.00	98.91	-42.69	-56.75	71.0	233.0	38.4	234.0
126.00	100.48	-43.43	-57.75	72.3	233.1	38.5	233.7
128.00	102.04	-44.16	-58.76	73.5	233.1	38.5	234.4
130.00	103.61	-44.90	-59.76	74.7	233.1	38.5	234.5
132.00	105.17	-45.64	-60.77	76.0	233.1	38.5	233.6
134.00	106.73	-46.37	-61.77	77.2	233.1	38.6	233.4
136.00	108.30	-47.11	-62.78	78.5	233.1	38.6	234.3
138.00	109.86	-47.84	-63.79	79.7	233.1	38.6	234.4
140.00	111.42	-48.58	-64.80	81.0	233.1	38.6	234.1
142.00	112.99	-49.31	-65.80	82.2	233.2	38.6	234.0
144.00	114.55	-50.04	-66.81	83.5	233.2	38.4	233.5
146.00	116.12	-50.78	-67.82	84.7	233.2	38.5	233.7
148.00	117.68	-51.51	-68.83	86.0	233.2	38.6	234.6
150.00	119.25	-52.24	-69.84	87.2	233.2	38.6	234.1
152.00	120.81	-52.97	-70.84	88.5	233.2	38.5	233.9
154.00	122.37	-53.70	-71.85	89.7	233.2	38.5	235.1
156.00	123.94	-54.44	-72.86	91.0	233.2	38.6	233.5
158.00	125.50	-55.16	-73.87	92.2	233.3	38.5	234.3
160.00	127.07	-55.89	-74.89	93.4	233.3	38.5	233.8
162.00	128.63	-56.62	-75.90	94.7	233.3	38.6	234.6
164.00	130.19	-57.34	-76.91	95.9	233.3	38.6	234.8
166.00	131.76	-58.07	-77.92	97.2	233.3	38.5	233.9
168.00	133.32	-58.80	-78.94	98.4	233.3	38.5	234.5
168.70	133.87	-59.05	-79.29	98.9	233.3	38.5	234.4